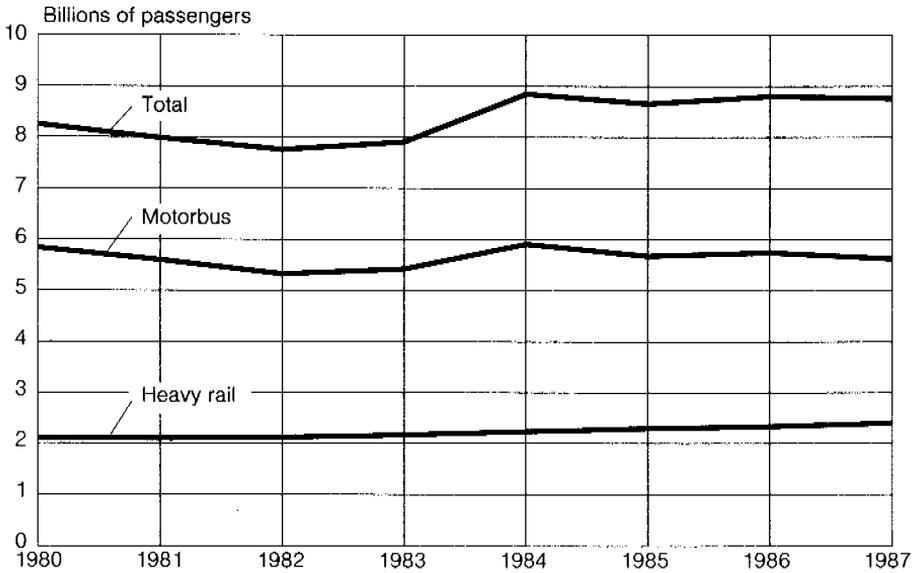
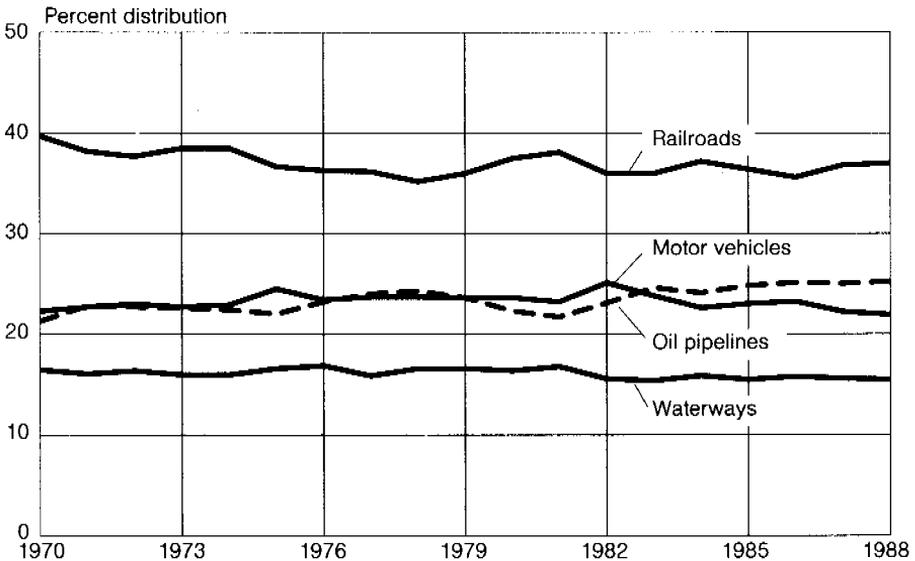


Figure 21.1
Revenue Passengers Carried by Local Public Transportation: 1980 to 1987

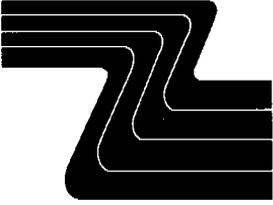


Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1048.

Figure 21.2
Ton-Miles of Domestic Intercity Freight Traffic, by Type of Transportation: 1970 to 1988



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1015.



Transportation— Land

This section presents statistics on revenues, passenger and freight traffic volume, and employment in various revenue-producing modes of the transportation industry, including motor vehicles, trains, and pipelines. Data are also presented on commuting travel; highway mileage and finances; motor vehicle travel, accidents, sales, and registrations; automobile operating costs; and characteristics of public transit, railroads, and pipelines.

The principal compiler of data on public roads and on operation of motor vehicles is the U.S. Department of Transportation's (DOT) Federal Highway Administration (FHWA). These data appear in FHWA's annual *Highway Statistics* and other publications. The U.S. Interstate Commerce Commission (ICC) presents data on interstate land transport in its publications, the *Annual Report to Congress* and the *Transport Statistics in the United States*, which contain data on railroads and motor carriers subject to ICC regulations.

The U.S. National Highway Traffic Safety Administration issues data on traffic accident deaths and death rates in two annual reports: the *Fact Book* and the *Fatal Accident Reporting System Annual Report*. DOT's Federal Railroad Administration presents data on accidents involving railroads in its annual *Accident/Incident Bulletin*, and the *Rail-Highway Crossing Accident/Incident and Inventory Bulletin*.

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in the *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1980 census and are in various census reports.

Data are also presented in many nongovernment publications. Among them are: The weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, DC; *Bus Facts*, issued annually by the American Bus Association, Washington, DC; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, DC. Useful annual handbooks in the field of transportation are *Motor Vehicle Facts and Figures* and *World Motor Vehicle Data*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI; *Accident Facts*, issued by the National Safety Council, Chicago, IL; and *Transportation in America*, issued by the ENO Foundation for Transportation, Westport, Connecticut.

Urban and rural highway mileage.—Beginning 1980, mileage is classified in urban and rural categories, rather than municipal and rural. Urban denotes the Federal-aid legislation definition of an area. Such areas include, as a minimum, a census place with a population of 5,000 to 49,999 or a designated urbanized area with a population of 50,000 or more. These Federal-aid urban areas may extend beyond corporate and census boundaries, and thus are not necessarily coextensive with municipal boundaries. Rural in 1980 refers to non-Federal-aid urban area mileage. Prior to 1980, municipal referred to roads within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas and rural to non-municipal roads.

Federal-aid highway systems.—Federal law provides that Federal funds be matched in varying proportions with State funds for the costs of planning, engineering, right-of-way acquisition, and construction of highways. Other costs, such as maintenance and policing, are borne entirely by the States and local agencies.

Effective July 1, 1976, a uniform road classification system was implemented which shortened the mileage of the highway system and redefined the three main systems of Federal-aid routes. The Federal-aid primary system is comprised of a network of main roads important to interstate, statewide, and regional travel. The system consists of main rural roads and their extensions into or through urban areas. The Federal-aid secondary system consists of rural roads of a more local nature, such as those which connect county seats and the larger population centers not served by the primary system. The Federal-aid urban system is located in urban places of 5,000 or more persons and consists of major urban roads and streets, except those on the primary system.

Regulatory bodies.—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders,

water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation.

Motor carriers.—For 1960-1973, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; 1974-1979, the class I minimum was \$3 million. Effective January 1, 1980, class I carriers are those with \$5 million or more in revenue. For 1960-1968, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969-1976, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more. Effective January 1, 1988, class I motor carriers of passengers are those with \$5 million or more in operating revenues; class II less than \$5 million in operating revenues.

Railroads.—Railroad companies reporting to the ICC are divided into specific groups as follows: (1) Regular line-haul (interstate) railroads (and their non-operating subsidiaries); (2) switching and terminal railroads; (3) private railroads prior to 1964 (identified by ICC as "circular" because they reported on brief circulars); and (4) unofficial railroads, so designated when their reports are received too late for tabulation. For the most part, the last 3 groups are not included in the statistics shown here.

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950-1955; \$3 million or more for 1956-1964; \$5 million or more for 1965-1975; and \$10 million or more for 1976-1977. In 1978, the classification became class I, those having more than \$50 million gross annual operating revenue; class II, from \$10 million to \$50 million; and class III, less than \$10 million. Effective January 1, 1982, the ICC adopted a procedure to adjust the threshold for inflation by restating current revenues in constant 1978 dollars. In 1988, the criteria for class I and class II railroads were \$92.0 million and \$18.4 million, respectively. Also effective January 1, 1982, the ICC adopted a *Carrier Classification Index Survey Form* for carriers not filing annual report form R-1 with the commission. Class II and class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

NO. 1013. PASSENGER AND FREIGHT TRANSPORTATION OUTLAYS, BY TYPE OF TRANSPORT: 1970 TO 1988

[In billions of dollars. Freight data include outlays for mail and express. ICC = Interstate Commerce Commission]

TYPE OF TRANSPORT	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988, est.
Total outlays¹	195.6	297.8	492.4	540.9	595.8	588.7	638.7	706.0	755.6	769.9	802.5	857.7
Passenger, total.....	114.9	187.4	307.6	330.9	373.5	377.7	409.0	455.7	493.5	502.6	525.1	559.2
Private transportation.....	99.6	161.3	253.9	284.8	317.4	320.6	347.2	387.0	419.3	426.6	440.8	469.4
Automobiles ²	97.0	156.6	256.8	276.7	308.0	312.4	339.8	378.8	411.0	418.4	432.1	460.2
New and used cars.....	32.1	46.0	77.1	73.3	82.6	85.7	105.6	125.7	139.3	156.7	149.2	162.1
Tires, tubes, accessories.....	7.1	12.4	19.8	22.2	24.6	24.9	26.9	27.5	29.4	31.3	33.2	35.2
Gasoline and oil.....	29.9	53.9	78.3	99.7	111.3	106.3	105.9	106.7	108.9	86.9	90.6	92.7
Insurance less claims.....	4.4	4.5	10.3	11.5	10.8	11.2	12.5	12.0	11.6	14.8	18.2	22.0
Interest on debt.....	4.7	7.3	15.4	17.5	21.0	21.8	19.6	25.1	26.7	26.5	29.1	31.4
Registration and operator's permit fees.....	1.9	2.3	3.1	3.3	3.5	3.8	4.1	4.5	5.3	5.6	5.9	6.2
Repair, greasing, washing, parking, tolls ³	13.2	22.1	36.7	38.0	41.5	43.5	45.7	50.4	56.8	60.9	66.4	69.0
Air.....	2.6	4.7	7.1	8.1	9.4	8.2	7.4	8.2	8.3	8.1	8.7	9.2
For-hire transportation.....	15.3	26.2	43.3	52.2	56.1	57.1	61.8	68.7	74.2	76.0	82.3	89.8
Local ⁴	5.4	10.5	15.4	18.5	20.4	21.3	22.3	23.6	27.7	29.0	30.5	31.5
Bus and transit ⁵	1.8	4.7	7.5	9.2	10.1	10.3	11.4	11.7	15.1	15.1	15.8	16.0
School bus.....	1.2	2.2	3.2	3.8	4.7	5.0	5.2	5.8	6.1	6.4	6.8	7.0
Taxi.....	2.1	3.4	4.5	5.2	5.2	5.6	5.3	5.5	5.6	6.0	6.4	6.6
Intercity.....	7.7	12.9	23.3	28.4	30.6	30.5	33.5	38.5	39.5	39.8	42.6	46.9
Air.....	6.6	11.2	20.4	25.1	26.8	26.8	29.7	33.6	35.9	36.4	39.3	43.3
Rail ⁶	3	6	1.4	1.6	1.9	1.8	1.8	1.8	1.6	1.5	1.5	2.0
Bus.....	8	1.0	1.4	1.7	1.8	1.9	2.0	2.0	2.0	1.9	1.8	1.6
International.....	2.2	2.7	4.6	5.3	5.3	5.4	6.0	6.6	7.0	7.1	9.2	11.4
Freight, total ⁴	83.8	115.5	192.9	212.1	234.6	220.9	240.5	262.1	274.9	279.9	292.2	311.9
Highway.....	62.5	84.8	142.7	155.4	173.3	162.7	180.5	195.6	208.6	214.1	224.7	241.1
Truck, intercity.....	33.6	47.4	90.2	94.6	100.2	99.9	111.1	120.7	126.2	129.1	136.3	146.5
Truck, local.....	28.8	37.3	52.3	60.5	72.8	62.5	69.2	74.7	82.2	84.8	88.2	94.4
Rail.....	11.9	16.5	24.8	27.7	30.5	27.1	27.3	30.5	29.2	27.8	28.4	30.0
Water.....	5.1	7.9	13.4	14.8	15.7	15.6	16.2	17.8	18.7	19.0	19.1	19.3
Oil pipeline.....	1.4	2.2	6.2	7.1	7.4	7.9	8.3	8.7	8.3	8.1	7.8	7.9
Air carrier.....	1.2	1.8	2.8	4.0	4.3	4.4	5.0	6.0	6.8	7.6	8.7	10.0

¹Total outlays less than sum of passenger and freight totals, as estimated freight costs included in costs of new cars, gasoline, oil, tires, and tubes have been excluded to prevent duplication. ²Includes business-owned vehicles. ³Includes storage and rental. ⁴Includes items not shown separately. ⁵Includes Federal, State and local government operating subsidies and capital grants. ⁶Includes Federal operating subsidies and capital grants for Amtrak.

NO. 1014. EMPLOYMENT AND EARNINGS IN TRANSPORTATION, BY INDUSTRY: 1970 TO 1988

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 36-42]

SIC ¹ code	INDUSTRY	1970	1980	1982	1983	1984	1985	1986	1987	1988
	NUMBER (1,000)									
(x)	Total	2,684	2,962	2,788	2,745	2,917	3,003	3,058	3,164	3,334
40	Railroads.....	634	532	429	376	376	359	332	309	299
4011	Class I railroads.....	566	482	398	348	345	323	294	271	259
41	Local and interurban passengers.....	269	265	263	257	271	278	287	296	313
421, 3	Trucking, incl. terminals.....	999	1,189	1,125	1,132	1,227	1,267	1,297	1,361	1,455
422	Public warehousing.....	64	91	84	85	91	96	99	107	114
44	Water transportation.....	213	213	202	191	191	186	176	174	174
45	Air transportation.....	352	453	444	455	489	522	567	603	644
46	Pipelines, exc. natural gas.....	18	21	21	20	19	19	18	19	19
47	Transportation services.....	115	198	220	229	253	276	282	296	316
	AVERAGE WEEKLY EARNINGS (dol.)									
4011	Class I railroads.....	172	427	484	542	573	595	608	627	674
41	Local and interurban passengers.....	(NA)	217	248	252	258	261	274	281	293
421, 3	Trucking, incl. terminals.....	164	366	401	408	415	412	415	421	426
422	Public warehousing.....	121	248	277	288	306	315	318	326	345
46	Pipelines, exc. natural gas.....	189	441	536	586	597	629	637	644	662

NA Not available. X Not applicable. ¹ Standard Industrial Classification, see text, section 13.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

NO. 1015. VOLUME OF DOMESTIC INTERCITY FREIGHT AND PASSENGER TRAFFIC, BY TYPE OF TRANSPORT: 1970 TO 1988

[Freight traffic in bil. ton-miles; passenger traffic in bil. passenger-miles. A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970*, series Q1-22]

TYPE OF TRANSPORT	TRAFFIC VOLUME								PERCENT DISTRIBUTION							
	1970	1975	1980	1985	1986	1987	1988 ¹	1970	1975	1980	1985	1986	1987	1988 ¹		
Freight traffic, total	1,936	2,066	2,487	2,458	2,494	2,640	2,793	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
Railroads.....	771	759	932	895	889	972	1,034	39.82	36.74	37.47	36.41	35.64	36.82	37.02		
Motor vehicles.....	412	454	555	610	627	661	704	21.28	21.97	22.32	24.82	25.14	25.04	25.20		
Inland waterways ²	319	342	407	382	393	411	434	16.48	16.55	16.37	15.54	15.76	15.57	15.54		
Oil pipelines.....	431	507	588	564	578	587	612	22.26	24.54	23.64	22.95	23.17	22.24	21.91		
Domestic airways ³	3.3	3.7	4.8	6.7	7.3	8.7	9.3	.17	.19	.19	.28	.29	.33	.33		
Passenger traffic, total	1,181	1,354	1,558	1,744	1,808	1,897	1,968	100.0	100.0	100.0	100.0	100.0	100.0	100.0		
Private automobiles.....	1,026	1,171	1,300	1,418	1,452	1,521	1,586	86.88	86.48	83.44	81.31	80.31	80.18	80.59		
Domestic airways ⁴	119	148	219	291	320	341	346	10.08	10.93	14.06	16.68	17.70	17.96	17.58		
Bus ⁵	25	25	27	24	24	23	23	2.12	1.85	1.73	1.38	1.33	1.21	1.17		
Railroads ⁶	11	10	11	11	12	12	13	.93	.74	.71	.63	.66	.63	.66		

¹ Preliminary. ² Includes Great Lakes and inland waterways, but not coastwise, traffic. ³ Revenue service only for scheduled and non-scheduled carriers, with small section 418 all-cargo carriers included from 1980. Includes express, mail, and excess baggage. ⁴ Includes general aviation (mostly private business) flying. ⁵ Excludes school and urban transit buses. ⁶ Includes electric railways and rail commuter service.

Source: Eno Foundation for Transportation, Westport, CT, *Transportation in America*, May 1989, with periodic supplements. (Copyright.)

NO. 1016. PASSENGER TRANSPORTATION ARRANGEMENT—RECEIPTS AND OPERATING EXPENSES: 1987 AND 1988

[In millions of dollars, except percent. Represents SIC 4722]

SOURCE OF RECEIPTS	1987	1988	OPERATING EXPENSES	1987	1988
Receipts, total ¹	7,053	7,819	Expenses, total	6,002	6,868
Air carriers.....	3,964	4,472	Payroll, annual.....	2,594	2,954
Water carriers.....	349	331	Employer contributions ²	318	371
Hotels and motels.....	378	443	Lease and rental payments.....	595	669
Motor coaches.....	311	308	Advertising and promotion.....	347	423
Railroads.....	37	45	Taxes and licenses.....	106	113
Rental cars.....	137	143	Utilities.....	(9)	265
Package tours.....	1,409	1,610	Depreciation.....	291	282
Other.....	468	467			

¹ Figure does not meet publication standards. ² Receipts for firms primarily engaged in arranging passenger transportation. These estimates exclude receipts of transportation companies (airlines, railroads, etc.). ³ Includes contributions to Social Security and other supplemental benefits.

Source: U.S. Bureau of the Census, *Service Annual Survey*.

NO. 1017. TRANSPORTATION ACCIDENTS, AND RESULTING DEATHS AND INJURIES, BY TYPE OF TRANSPORT: 1970 TO 1988

[For motor vehicle data, see also tables 1035 and 1036; for railroad data, see also table 1058; for air carrier and general aviation data, see also tables 1065 and 1073]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT										Hazardous materials ¹¹	
		Motor vehicle ¹ (1,000)	Railroad ²	Air carriers				General aviation ⁵	Recreational boating ⁷	Gas pipelines ⁸	Liquid pipelines ⁹		Waterborne ¹⁰
				Total	Air-lines ³	Com-muter air carriers ⁴	On-demand air carriers ⁶						
Accidents:													
1970.....	16,013	16,000	8,095	(NA)	(NA)	(NA)	(NA)	(NA)	3,803	1,019	351	(NA)	(NA)
1975.....	16,524	16,500	8,041	237	37	48	152	3,395	6,308	1,373	254	3,310	10,951
1980.....	17,925	17,900	8,451	228	19	38	171	3,590	5,513	1,996	219	4,624	15,737
1981.....	18,020	18,000	5,761	214	26	31	157	3,500	5,208	1,895	239	3,503	10,070
1982.....	19,118	18,100	4,589	182	20	26	132	3,233	5,377	1,711	200	3,174	6,638
1983.....	18,319	18,300	3,906	178	24	17	141	3,075	5,569	1,575	161	4,704	5,845
1984.....	18,817	18,800	3,900	185	17	22	146	3,010	5,700	985	188	3,275	5,776
1985.....	19,348	19,300	3,275	195	22	21	152	2,741	6,237	331	183	3,439	6,014
1986.....	19,320	17,700	2,620	155	24	15	116	2,581	6,407	227	210	3,028	5,760
1987.....	20,822	20,800	2,512	171	38	34	99	2,471	6,746	229	237	3,128	6,135
1988.....	(NA)	(NA)	2,854	147	¹² 30	¹² 20	¹² 97	¹² 2,332	6,718	¹² 258	¹² 196	(NA)	¹² 6,141
Deaths:													
1970.....	54.8	52.6	785	(NA)	(NA)	(NA)	(NA)	(NA)	1,418	22	4	(NA)	(NA)
1975.....	48.2	44.5	575	221	124	28	69	1,252	1,466	14	7	243	27
1980.....	54.5	51.1	584	143	1	37	105	1,239	1,360	11	3	206	19
1981.....	52.5	49.3	556	132	4	34	94	1,282	1,206	17	5	154	25
1982.....	47.2	42.9	512	321	235	14	72	1,187	1,178	31	5	223	12
1983.....	45.7	42.6	496	68	15	11	62	1,064	1,241	12	6	289	8
1984.....	44.6	44.3	598	104	4	48	52	1,039	1,063	35	—	113	7
1985.....	47.3	43.8	454	639	526	37	76	950	1,116	28	5	131	8
1986.....	48.8	46.1	475	77	8	4	65	961	1,066	36	4	162	16
1987.....	49.7	46.4	541	357	232	61	64	830	1,036	9	3	154	10
1988.....	(NA)	47.1	510	363	¹² 285	¹² 21	¹² 57	¹² 872	946	¹² 18	¹² 2	(NA)	¹² 16
Injuries:													
1970.....	2,024	2,000	21,327	(NA)	(NA)	(NA)	(NA)	(NA)	780	347	21	(NA)	(NA)
1975.....	1,858	1,800	54,306	109	71	6	32	728	2,136	819	17	97	648
1980.....	2,066	2,000	62,246	74	17	14	43	675	2,650	310	15	176	626
1981.....	1,956	1,900	57,003	82	21	24	37	597	2,474	74	22	141	643
1982.....	1,741	1,700	37,638	96	31	28	39	620	2,682	220	6	271	130
1983.....	1,636	1,600	32,196	49	8	12	29	566	2,913	242	9	209	193
1984.....	1,739	1,700	35,660	67	9	23	35	595	2,709	229	19	134	257
1985.....	1,705	1,700	31,592	92	33	16	43	517	2,757	121	17	187	253
1986.....	1,829	1,800	24,465	65	22	12	31	540	2,847	124	32	240	316
1987.....	1,829	1,800	23,604	85	48	20	17	459	3,501	101	20	361	331
1988.....	(NA)	1,800	24,017	102	62	1	39	499	3,476	¹² 87	¹² 19	(NA)	158

- Represents zero. NA Not available. ¹ Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1035. Other data are from National Safety Council. ² Train accidents cover only those accidents which result in damages to railroad property exceeding amounts specified by the U.S. Federal Railroad Administration. The reporting threshold was raised from \$750 to \$1,750 in 1975; to \$2,900 in 1979; to \$3,700 in 1981; to \$4,500 in 1983; to \$4,900 in 1985; and to \$5,200 in 1987. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. ³ Includes scheduled and non-scheduled (charter) air carriers operating under 14 CFR 121, 125, and 127. Injuries include only serious injuries. ⁴ All scheduled service operating under 14 CFR 135. Injuries include only serious injuries. ⁵ All non-scheduled service operating under 14 CFR 135. Injuries include only serious injuries. ⁶ 1975-1984 data exclude commuter and on-demand air taxis operating under 14 CFR 135. ⁷ Accidents are required to be reported to the U.S. Coast Guard whenever they result in a death; a person being injured or receiving medical treatment beyond first aid; damages exceed \$200; or a person's disappearance. ⁸ Pipeline accidents/incidents are credited to the year in which they occurred beginning with 1983 data; prior data are credited to the year the accident/incident reports were filed. Fatalities and injuries as reported in annual report. ⁹ Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. ¹⁰ Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. ¹¹ Accidents, deaths, and injuries involving hazardous materials cover all types of transport. ¹² Preliminary.

Source: U.S. Dept. of Transportation, Transportation Systems Center, Cambridge, MA, *Transportation Safety Information Report*, annual.

NO. 1018. FEDERAL OUTLAYS FOR TRANSPORTATION, BY FUNCTION: 1970 TO 1989

[In millions of dollars. For fiscal years ending in year shown; see text, section 9]

FUNCTION	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, est.
Total outlays.....	7,008	10,918	21,329	23,379	20,625	21,334	23,669	25,838	28,117	26,222	27,272	28,027
Percent of total outlays.....	3.6	3.3	3.6	3.4	2.8	2.6	2.8	2.7	2.8	2.6	2.6	2.5
Average annual percent change ¹	7.4	19.0	21.7	9.6	-11.8	3.4	10.9	9.2	8.8	-6.7	4.0	2.8
Ground transportation.....	4,678	7,027	15,274	17,074	14,321	14,265	16,158	17,606	18,725	17,150	18,149	17,949
Air transportation.....	1,408	2,387	3,723	3,814	3,526	4,000	4,415	4,895	5,287	5,520	5,897	6,546
Water transportation.....	895	1,430	2,229	2,381	2,687	2,969	3,010	3,201	3,964	3,461	3,111	3,395
Other transportation.....	26	74	104	110	90	99	85	137	140	91	116	137

¹ Change from immediate prior year.

Source: U.S. Office of Management and Budget, *Budget of the United States Government*, annual.

Highway Mileage

599

No. 1019. HIGHWAY MILEAGE—URBAN AND RURAL, BY TYPE OF CONTROL, AND FEDERAL-AID HIGHWAY SYSTEM: 1960 TO 1987

[In thousands, except percent. As of Dec. 31. Beginning 1980, data for urban and rural mileage are not comparable to prior years because of classification changes; see text, section 21. See also *Historical Statistics, Colonial Times to 1970*, series Q 50, 51, and 55]

TYPE AND CONTROL	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total mileage ¹	3,546	3,730	3,838	3,918	² 3,955	3,853	3,866	3,880	3,892	3,862	3,880	3,874
Urban mileage ³	430	561	639	694	624	832	841	662	674	691	701	710
Under State control.....	50	74	84	86	79	90	103	100	103	111	94	95
Under local control.....	379	487	555	607	543	540	536	562	571	578	606	614
Rural mileage.....	3,116	3,169	3,199	3,224	² 3,331	3,221	3,226	3,217	3,218	3,171	3,178	3,164
Percent surfaced ⁴	69.5	76.1	77.8	77.5	77.5	86.1	85.7	86.0	87.5	88.1	88.4	88.4
Under State control.....	659	707	711	697	702	726	⁵ 825	817	818	773	704	704
Under local control.....	2,345	2,275	2,261	2,281	2,270	2,236	⁶ 2,140	2,138	2,134	2,173	2,243	2,249
Under Federal control.....	112	188	227	244	262	256	261	262	286	225	231	212
Federal-aid highway system: ⁶												
Primary (urban and rural).....	265	272	266	303	300	298	298	300	300	301	303	302
Interstate.....	10	32	37	40	41	42	42	43	43	44	44	44
Urban.....	(x)	(x)	65	124	124	129	134	137	140	144	146	148
Secondary.....	601	647	643	397	398	401	402	397	398	398	398	398

X Not applicable. ¹ Prior to 1980, includes public and nonpublic road mileage; beginning 1981, includes only public road mileage as defined 23 USC 402. ² Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. ³ Prior to 1980, represents municipal mileage; see text, section 21. ⁴ Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. ⁵ Incomplete reporting from Alaska, Missouri, and Pennsylvania for control accounts for changes between 1981 and 1982. ⁶ For definition, see text, section 21. Beginning 1979, data represent actual mileage open to traffic rather than total highway miles carrying interstate traffic.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1020. HIGHWAY MILEAGE—URBAN, RURAL, AND FEDERAL-AID HIGHWAY SYSTEM: 1987

[As of Dec. 31. For definition of urban, rural, and Federal-aid highway system roads, see text, section 21]

STATE	Urban	Rural	FEDERAL-AID HIGHWAY SYSTEM ¹				STATE	Urban	Rural	FEDERAL-AID HIGHWAY SYSTEM ¹			
			Total		Urban	Sec-ondary				Total		Urban	Sec-ondary
			Primary	Inter-state ²						Primary	Inter-state ²		
U.S.	710,186	3,163,838	302,448	44,326	147,979	398,329							
AL.....	14,673	73,493	7,604	880	2,780	11,436	MO.....	15,297	104,385	7,971	1,177	2,393	16,222
AK.....	1,722	10,360	2,133	1,089	240	1,850	MT.....	2,416	69,395	6,542	1,181	371	4,724
AZ.....	11,206	66,517	4,641	1,161	3,020	3,227	NE.....	4,956	87,445	7,674	481	1,052	11,444
AR.....	7,630	69,457	5,755	542	1,139	7,216	NV.....	3,245	41,509	2,393	545	558	2,315
CA.....	68,386	90,546	13,465	2,389	17,527	11,068	NH.....	2,391	12,220	1,359	222	726	1,228
CO.....	11,077	65,653	5,236	942	2,287	3,403	NJ.....	22,413	11,628	1,856	393	5,351	1,722
CT.....	10,772	6,949	1,609	342	2,955	902	NM.....	4,982	49,157	4,627	998	603	3,809
DE.....	1,548	3,793	473	41	306	602	NY.....	37,364	72,957	9,909	1,499	8,749	6,277
DC.....	1,102	-	186	12	233	-	NC.....	18,306	74,928	5,307	805	2,787	10,262
FL.....	32,025	68,398	9,295	1,354	6,042	4,401	ND.....	1,747	84,496	6,109	571	485	10,567
GA.....	20,173	86,594	11,301	1,243	3,975	13,984	OH.....	31,113	81,041	8,140	1,565	7,815	11,604
HI.....	1,395	2,675	550	39	322	452	OK.....	12,334	98,748	6,236	927	2,972	11,325
ID.....	2,386	69,253	3,270	605	723	4,194	OR.....	8,527	85,388	5,782	716	1,992	7,811
IL.....	31,468	103,842	11,567	1,934	6,730	12,934	PA.....	27,494	88,414	11,486	1,523	6,896	7,962
IN.....	17,702	73,833	6,059	1,117	4,697	9,412	RI.....	4,380	1,472	468	70	924	203
IA.....	8,632	103,840	9,599	784	2,430	13,500	SC.....	9,316	54,104	6,460	790	1,169	8,520
KS.....	8,858	124,073	8,929	870	1,576	22,608	SD.....	1,726	71,743	6,473	678	382	10,997
KY.....	7,551	62,078	4,541	752	1,867	7,233	TN.....	15,132	68,559	7,151	1,062	3,093	5,455
LA.....	12,211	46,061	3,857	709	2,134	7,349	TX.....	78,237	215,293	19,915	3,208	7,595	32,600
ME.....	2,414	19,550	2,374	366	707	2,742	UT.....	5,369	44,332	3,485	889	920	2,648
MD.....	11,836	16,129	2,592	394	2,127	1,909	VT.....	970	13,101	1,439	320	281	1,946
MA.....	20,604	13,203	2,778	563	5,903	2,007	VA.....	14,494	51,631	6,441	1,059	3,972	10,186
MI.....	26,683	91,120	6,386	1,210	5,370	16,987	WA.....	16,110	63,399	5,783	754	4,194	7,269
MN.....	14,067	118,776	10,207	900	2,202	16,584	WV.....	2,971	32,202	2,925	479	783	6,365
MS.....	7,125	64,940	6,411	686	1,692	11,722	WI.....	14,178	94,747	9,791	578	2,914	12,838
							WY.....	1,864	38,211	3,910	914	518	2,278

- Represents zero. ¹ Highway mileage open to traffic. ² Although the interstate system is part of the Federal-aid primary system, its mileage is shown separately.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1021. HIGHWAY MILEAGE—PAVEMENT CONDITION FOR URBAN AND RURAL AREAS, BY TYPE OF ROAD SYSTEM: 1980 TO 1987

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system, which ranges from a high of 5.0 down to 0.1. The reported ranges are defined as: PSR 5.0–3.5, pavements give a first class ride and exhibit few, if any, visible signs of surface wear. Of the quality of new or nearly new pavements. PSR 3.4–2.0, pavements have a riding quality somewhat inferior to that of new pavements or may even be barely tolerable at high speeds. Surfaces may show signs of cracking, substantial patching, and rutting. PSR 1.9–0.1, pavements show extensive wear to the point of needing resurfacing or may even need complete reconstruction]

PAVEMENT CONDITION	INTERSTATE ROAD SYSTEMS				ARTERIAL ROAD SYSTEMS				COLLECTOR ROAD SYSTEMS			
	1980	1985	1986	1987	1980	1985	1986	1987	1980	1985	1986	1987
URBAN AREAS												
Percent of road mileage rated—												
PSR 0.1–1.9 (0.1–2.4) ¹	6	7	7	7	7	5	5	5	9	7	7	9
PSR 2.0–3.4 (2.5–3.4) ¹	26	38	38	37	42	53	51	53	50	58	58	60
PSR 3.5–5.0.....	68	55	55	55	51	42	44	42	41	35	35	31
RURAL AREAS												
Percent of road mileage rated—												
PSR 0.1–1.9 (0.1–2.4) ¹	5	7	9	9	6	4	4	3	16	10	9	9
PSR 2.0–3.4 (2.5–3.4) ¹	26	33	33	33	46	51	50	52	55	59	58	57
PSR 3.5–5.0.....	69	60	58	58	48	45	46	45	29	31	33	34

¹ PSR range shown in parentheses applies to Interstate roads only.

No. 1022. RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS, BY TYPE: 1970 TO 1989

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 51. State data include District of Columbia]

TYPE	1970	1980	1985	1986	1987	1988, prel.	1989, proj.		
							Total ¹	Federal	State
Total receipts.....	21,747	39,715	61,506	64,669	65,702	70,457	74,750	15,947	38,157
Current income.....	19,861	37,604	54,957	58,373	61,275	65,407	69,155	15,947	35,457
Imposts on highway users ²	15,311	22,559	35,589	37,334	39,624	43,137	45,986	13,685	30,546
Other taxes and fees.....	3,732	11,808	15,127	16,381	16,374	16,983	17,646	993	3,057
Investment income and other receipts.....	818	3,237	4,371	4,658	5,077	5,307	5,523	1,269	1,854
Bond issue proceeds ³	1,886	2,111	6,549	6,296	4,427	5,050	5,595	-	2,700
Intergovernmental payments ⁴	(x)	(x)	(x)	(x)	(x)	(x)	(x)	-14,139	6,235
Funds drawn from (+) or placed in (-) reserves.....	-912	+2,080	-4,058	-2,603	91	1,041	765	-864	1,629
Total funds available.....	20,835	41,795	57,448	62,066	65,793	71,498	75,515	944	46,021
Total disbursements.....	20,835	41,795	57,448	62,066	65,793	71,498	75,515	944	46,021
Current disbursements.....	19,583	40,084	54,725	58,934	62,987	68,202	72,063	944	43,980
Capital outlay.....	11,575	20,337	27,139	28,892	30,656	33,993	35,590	487	27,062
Maintenance and traffic services.....	4,720	11,445	16,032	17,355	18,808	20,107	21,445	168	8,099
Administration and research.....	1,275	3,022	4,033	4,583	4,986	5,227	5,659	289	3,450
Law enforcement and safety.....	1,303	3,824	5,334	5,597	5,841	6,164	6,538	-	3,888
Interest on debt.....	710	1,456	2,188	2,507	2,716	2,711	2,831	-	1,661
Debt retirement ⁵	1,252	1,711	2,723	3,132	2,806	3,296	3,452	-	2,041

- Represents zero. X Not applicable. ¹ Includes other levels of government not shown separately. ² Excludes amounts later allocated for nonhighway purposes. ³ Par value. Excludes issue and redemption of short-term notes or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. ⁴ Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

Source of tables 1021 and 1022: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

No. 1023. DISBURSEMENTS OF STATE HIGHWAY FUNDS, BY STATE: 1980 TO 1987

[In millions of dollars. Comprises disbursements from current revenues or loans for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous. Includes transactions by State toll authorities. Excludes amounts allocated for collection and nonhighway purposes, and bonds redeemed by refunding. See also *Historical Statistics, Colonial Times to 1970*, series Q 90-94]

STATE	1980	1985	1987	STATE	1980	1985	1987	STATE	1980	1985	1987
AL.....	517	875	733	KY.....	913	901	1,127	OH.....	1,032	1,622	1,681
AK.....	274	383	373	LA.....	682	879	884	OK.....	461	668	701
AZ.....	365	778	1,116	ME.....	164	238	239	OR.....	482	492	586
AR.....	425	488	485	MD.....	663	988	1,485	PA.....	1,557	2,340	2,727
CA.....	1,930	3,006	3,277	MA.....	704	786	1,061	RI.....	72	139	206
CO.....	411	563	621	MI.....	997	977	1,474	SC.....	309	420	518
CT.....	393	565	791	MN.....	611	980	982	SD.....	151	211	185
DE.....	152	234	262	MO.....	468	845	485	TN.....	609	800	901
DC.....	57	142	144	MS.....	555	854	791	TX.....	1,862	1,825	2,842
FL.....	1,261	1,647	1,919	MT.....	224	286	266	UT.....	241	394	320
GA.....	762	1,115	1,127	NE.....	274	358	336	VT.....	87	135	143
HI.....	134	137	151	NH.....	169	241	216	VA.....	894	1,165	1,659
ID.....	153	229	205	NJ.....	152	219	219	WA.....	787	1,040	1,059
IL.....	1,652	2,087	2,191	NM.....	662	1,229	1,762	WV.....	672	582	638
IN.....	688	919	1,041	NY.....	197	384	431	WI.....	468	659	810
IA.....	504	746	747	NC.....	1,650	2,022	2,346	WY.....	192	298	293
					807	986	1,091				

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1024. FEDERAL GRANTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY TRUST FUND AND URBAN MASS TRANSPORTATION ADMINISTRATION (UMTA), BY STATE: 1988

[Year ending Sept. 30]

STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA		STATE	HIGHWAY TRUST FUND		UMTA	
	Total (mil. dol.)	Per capita ¹	Total (mil. dol.)	Per capita ¹		Total (mil. dol.)	Per capita ¹	Total (mil. dol.)	Per capita ¹		Total (mil. dol.)	Per capita ¹	Total (mil. dol.)	Per capita ¹
U.S.	12,147	72.89	3,270	12.98	AL	188	61.09	25	6.85	ND	85	141.30	2	3.11
AL	294	78.49	19	4.60	LA	269	75.02	22	4.98	OH	383	45.24	79	7.26
AK	114	299.60	2	4.71	ME	66	63.04	4	3.20	OK	198	68.02	8	2.48
AZ	212	68.58	6	1.80	MD	338	83.34	52	11.28	OR	148	72.60	31	11.40
AR	101	48.65	5	2.01	MA	262	83.45	212	36.13	PA	685	77.94	207	17.21
CA	904	51.05	459	16.30	MI	325	43.54	48	5.18	RI	99	128.98	23	22.93
CO	225	84.78	31	9.40	MN	253	86.38	27	6.21	SC	180	57.00	9	2.70
CT	258	92.33	35	10.68	MS	132	57.65	5	1.95	SD	78	122.39	2	2.41
DE	61	96.18	3	4.31	MO	239	58.89	34	6.61	TN	270	65.01	22	4.38
DC	88	530.15	269	417.38	MT	101	140.69	2	3.04	TX	678	51.95	118	7.05
FL	476	50.01	79	6.42	NE	111	82.87	8	5.27	UT	118	83.59	10	6.00
GA	445	82.47	51	7.89	NV	54	59.44	3	2.82	VT	45	89.37	1	2.41
HI	62	89.17	19	17.08	NH	61	61.79	5	4.29	VA	327	61.79	23	3.88
ID	105	118.09	3	3.40	NJ	229	63.04	241	31.17	WA	372	109.69	113	24.50
IL	518	66.27	204	17.67	NM	96	80.71	4	2.52	WV	184	104.05	6	3.37
IN	243	54.07	29	5.20	NY	674	77.09	650	36.34	WI	164	42.69	26	5.36
IA	199	77.21	8	2.76	NC	224	42.06	26	3.94	WY	61	139.28	1	2.67
KS	167	7717	6	2.60										

¹ Based on Bureau of the Census estimated resident population as of July 1.
Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year*, annual.

NO. 1025. STATE GASOLINE TAX RATES, 1987 AND 1988, AND MOTOR FUEL TAX RECEIPTS, 1987

[See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	RATE ¹ (cents per gal.)		Re-ceipts, ² 1987 (mil. dol.)	STATE	RATE ¹ (cents per gal.)		Re-ceipts, ² 1987 (mil. dol.)	STATE	RATE ¹ (cents per gal.)		Re-ceipts, ² 1987 (mil. dol.)
	1987	1988			1987	1988			1987	1988	
Total	(NA)	21.85	24,926	IA	16	20	258	NC	15.5	15.7	581
Federal	³ 9.10	³ 9.10	³ 8,593	KS	11	11	164	ND	17	17	58
State	(NA)	⁵ 12.75	16,333	KY ⁷	15	15	314	OH	14.7	14.8	630
AL	13	⁶ 13	252	LA	16	16	366	OK ⁸	14.6	16	256
AK	8	8	19	ME	14	17	97	OR	12	18	159
AZ	17	17	314	MD	18.5	18.5	382	PA	12	12	932
AR	13.5	13.5	203	MA	11	11	302	RI	15	15	63
CA	9	9	1,262	MI	15	15	685	SC	15	16	262
CO	18	18	296	MN	20	20	367	SD	13	18	61
CT	19	20	259	MO	15	18	136	TN ⁹	17	20	480
DE	16	16	52	MS	11	11	273	TX	15	15	1,404
DC	15.5	15.5	26	MT	20	20	92	UT	19	19	145
FL	9.7	9.7	647	NE	17.9	18.5	162	VT	13	15	42
GA	7.5	7.5	310	NV	16	18	101	VA ⁷	17.5	17.5	554
HI	11	11	40	NH	14	14	79	WA	18	18	426
ID	14.5	18	79	NJ	8	10.5	337	WV	10.5	15.5	106
IL	13	13	690	NY	14	14	121	WI	20	20.8	442
IN	14	15	517		8	8	514	WY	8	8	36

NA Not available. ¹ In effect Dec. 31. ² Represents net receipts. ³ Federal tax includes 0.1 cent per gallon for the leaking underground storage tank fund effective January 1, 1987. ⁴ Federal receipts for FY 1987 (October 1, 1986–September 30, 1987). Includes receipts from 3.0 cents per gallon tax on gasohol. Includes \$1,056 million transferred to Highway Trust Fund, Mass Transit Account. ⁵ Weighted average tax rate. ⁶ Includes 2 cents per gallon inspection fee. ⁷ Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more in Kentucky, and 3.5 cents per gallon more in Virginia. ⁸ .08 cents per gallon is for inspection fee. ⁹ Includes 1 cent per gallon inspection fee.

NO. 1026. PUBLIC HIGHWAY DEBT—STATE AND LOCAL GOVERNMENTS: 1970 TO 1989

[In millions of dollars. Long-term obligations. State data are for calendar years; local data for varying fiscal years. Excludes duplicated and interunit obligations. Municipal debt includes other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1970*, series Q 136-147]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988 ¹	1989 ²	
Total debt issued³		1,886	2,094	2,574	2,915	2,566	3,151	6,074	6,298	4,427	5,050	5,595
State		1,305	1,128	965	1,555	1,072	1,715	3,404	3,946	1,927	2,310	2,700
County and township		174	276	305	415	475	524	1,387	1,200	900	1,030	1,100
Municipal		407	690	1,304	945	1,019	912	1,283	1,150	1,600	1,710	1,795
Total debt redeemed⁴		1,252	1,706	2,464	2,046	2,172	2,411	2,737	3,192	2,806	3,286	3,452
State		782	1,022	1,579	1,148	1,191	1,507	1,580	1,875	1,625	2,007	2,041
County and township		152	209	201	225	303	216	378	432	423	470	520
Municipal		318	475	684	675	678	688	779	825	758	619	891
Total debt outstanding		19,107	25,851	25,961	26,830	27,224	27,964	31,301	34,465	37,069	38,823	40,966
State		13,903	18,282	17,668	18,077	17,958	18,166	19,990	22,061	22,363	22,666	23,325
County and township		1,685	2,157	2,261	2,451	2,623	2,931	3,940	4,708	5,629	6,189	6,769
Municipal		3,519	5,412	6,032	6,302	6,643	6,867	7,371	7,696	9,077	9,968	10,872

¹ Preliminary. ² Projection. ³ Excludes refunding issues. ⁴ Excludes redemptions by refunding.
Source of tables 1025 and 1026: U.S. Federal Highway Administration, *Highway Statistics*, annual.

NO. 1027. MOTOR VEHICLES—SUMMARY: 1970 TO 1988

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988
PASSENGER CARS										
Passenger car production.....	1,000.....	6,550	6,376	5,073	6,781	7,773	8,185	7,829	7,099	7,111
Passenger car factory sales.....	1,000.....	6,547	6,400	5,049	6,739	7,621	8,002	7,516	7,085	7,105
Passenger car (new), retail sales ¹	1,000.....	8,405	8,979	7,982	9,182	10,390	11,042	11,460	10,277	10,626
Domestic ²	1,000.....	7,116	6,581	5,759	6,795	7,952	8,205	8,215	7,081	7,526
Subcompact ³	1,000.....	1,338	1,604	1,489	1,776	2,322	2,297	1,325	1,011	1,019
Compact ³	1,000.....	1,358	1,659	1,257	1,110	1,336	2,563	2,461	2,389	2,761
Standard ³	1,000.....	5,778	1,358	1,377	1,825	1,817	1,882	1,888	1,565	1,722
Intermediate ³	1,000.....	1,957	1,957	1,641	2,071	2,484	2,464	2,540	2,026	2,017
Imports ⁴	1,000.....	1,285	2,398	2,223	2,387	2,439	2,838	3,245	3,196	3,100
TRUCKS										
Truck and bus production.....	1,000.....	1,734	1,634	1,912	1,471	3,151	3,468	3,506	3,826	4,080
Truck and bus factory sales.....	1,000.....	1,692	1,667	1,906	2,414	3,075	3,357	3,393	3,821	4,121
Truck and bus retail sales ⁵	1,000.....	1,746	2,232	2,248	2,709	3,538	3,984	4,031	4,174	4,608
Light duty (up to 14,000 GVW) ⁶	1,000.....	(NA)	1,964	2,064	2,521	3,261	3,700	3,768	3,885	4,273
Med. duty (14,001-26,000 GVW) ⁶	1,000.....	(NA)	92	46	48	61	53	51	55	83
Heavy duty (over 26,000 GVW) ⁶	1,000.....	126	176	138	141	216	231	214	234	251
MOTORCYCLES										
Motorcycle registrations, new ⁷	1,000.....	751	838	689	811	772	722	631	550	410
Motorcycle (new) retail sales ⁸	1,000.....	1,010	1,070	990	1,185	1,305	1,260	1,045	970	710
All-terrain vehicles.....	1,000.....	(NA)	(NA)	250	425	550	550	466	405	290
All-terrain vehicle imports.....	1,000.....	(NA)	(NA)	275	430	635	683	498	317	209
Motorcycle imports, total ⁹	1,000.....	1,091	1,120	917	540	441	733	550	318	287
Value ¹⁰	Mil. dol.....	308	1,142	1,110	697	523	783	763	463	512
FOREIGN TRADE										
Passenger cars (new), exported ^{11, 12}	1,000.....	285	617	379	554	616	704	673	633	781
Passenger cars (new), imported ^{11, 12}	1,000.....	2,013	3,116	2,926	3,134	3,559	4,398	4,691	4,589	4,450
Canada.....	1,000.....	693	595	703	636	1,073	1,145	1,162	927	1,181
Germany, Federal Republic of.....	1,000.....	675	359	259	249	335	473	452	378	284
Japan.....	1,000.....	381	1,922	1,801	1,751	1,949	2,527	2,619	2,418	2,123
Trucks (new) exports.....	1,000.....	91	186	124	132	159	183	205	222	230
Trucks (new) imports.....	1,000.....	166	747	697	785	1,025	1,253	1,351	1,177	938
Japan.....	1,000.....	27	483	356	430	567	800	976	772	542
Import value, new passenger cars ¹	Mil. dol.....	3,719	16,675	20,180	23,394	29,264	36,474	45,302	47,858	47,005
Trucks and buses, new ¹	Mil. dol.....	381	1,965	4,453	4,846	6,541	7,734	8,504	8,729	8,089
Export value ^{1, 13}	Mil. dol.....	3,871	18,015	16,039	17,078	20,776	22,820	21,955	24,812	29,519
Passenger cars (new) ¹³	Mil. dol.....	822	3,932	2,867	4,208	4,876	6,027	6,258	6,695	8,318
Trucks and buses (new) ¹³	Mil. dol.....	636	2,977	2,642	2,130	2,479	2,789	2,953	3,375	3,318
Parts and accessories ¹⁴	Mil. dol.....	2,413	9,106	10,530	10,740	13,421	14,004	12,744	14,742	16,985
VEHICLES IN USE AND RETIRED										
Cars in use, total.....	Million.....	80.4	104.6	106.9	109.0	112.0	114.7	117.3	119.8	121.5
Under 3 years.....	Million.....	24.4	26.8	21.5	20.7	22.0	24.8	27.9	28.1	27.8
3-5 years.....	Million.....	24.9	25.5	29.9	28.8	26.8	23.9	22.7	24.7	27.7
6-8 years.....	Million.....	18.4	25.2	22.2	23.5	26.8	27.8	26.5	24.4	21.6
9-11 years.....	Million.....	7.7	14.6	17.9	18.9	17.4	17.2	18.7	21.4	22.4
12 years and over.....	Million.....	4.9	12.5	15.4	17.0	19.0	21.0	21.5	21.2	22.0
Average age.....	Years.....	5.6	6.6	7.2	7.4	7.5	7.6	7.6	7.8	7.6
Cars retired from use ¹⁵	1,000.....	7,461	8,405	6,921	6,243	6,875	7,729	8,442	8,103	8,754
Trucks in use, total.....	Million.....	17.7	35.2	37.0	38.1	40.1	42.4	44.8	47.3	50.2
Under 3 years.....	Million.....	4.7	8.8	5.6	5.9	7.2	8.0	11.1	11.9	12.5
3-5 years.....	Million.....	4.3	8.1	10.7	9.5	8.0	6.3	6.6	8.3	7.9
6-8 years.....	Million.....	3.0	7.4	5.7	7.7	8.2	10.2	8.9	7.4	10.9
9-11 years.....	Million.....	1.9	4.4	5.7	6.5	6.2	6.2	6.7	8.0	6.3
12 years and over.....	Million.....	3.9	6.5	7.9	8.5	9.6	10.7	11.5	11.8	12.6
Average age.....	Years.....	7.3	7.1	7.8	8.1	8.2	8.1	8.0	8.0	7.9
Trucks retired from use ¹⁵	1,000.....	837	1,732	1,459	1,491	1,602	2,100	2,309	2,364	2,251
TIRES AND BATTERIES SHIPMENTS										
Tires, passenger car, total ¹⁶	Million.....	168.6	145.9	167.5	182.0	201.6	200.9	202.7	210.8	218.8
Radials.....	Million.....	2.9	83.5	115.9	133.4	156.6	164.7	174.0	187.3	200.2
Replacement.....	Million.....	129.6	106.9	130.5	134.0	144.8	141.5	144.3	151.9	155.3
Tires, truck and bus, total ¹⁶	Million.....	25.7	31.1	33.8	36.9	40.8	41.1	40.8	44.4	46.0
Radials.....	Million.....	(NA)	3.8	10.4	13.4	16.0	19.7	21.1	26.0	29.4
Replacement.....	Million.....	16.7	24.4	28.1	30.3	31.7	32.1	32.4	34.5	33.9
Batteries, total ¹⁷	Million.....	46.9	61.7	64.6	69.0	74.7	74.4	75.7	75.7	80.1
Replacement automobile batteries.....	Million.....	37.9	50.1	54.2	56.1	59.3	58.7	60.3	59.9	63.5

NA Not available. ¹ Based on data from U.S. Dept. of Commerce. ² Includes domestic models produced in Canada and Mexico. ³ Source: Board of Governors of the Federal Reserve System, unpublished data. Represents total auto sales data from *Wards' Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1987, data from *Wards' Automotive Yearbooks*. Beginning 1980, cars produced in U.S. by foreign manufacturers are included. ⁴ Excludes domestic models produced in Canada. ⁵ Excludes motorcoaches and light-duty imports from foreign manufacturers. Beginning 1980, includes imports sold by franchised dealers of U.S. manufacturers. Starting in 1986, includes sales of trucks over 10,000 lbs. GVW by foreign manufacturers. ⁶ Gross vehicle weight (fully loaded vehicle). ⁷ Source: R. L. Polk & Company, Detroit, MI. ⁸ *New Motorcycle Registrations by States, 1970-1986* excludes Oklahoma; 1984, excludes New York. Reproduction prohibited without Polk permission. ⁹ Estimates by Motorcycle Industry Council Inc., Irvine, CA. Includes all-terrain vehicles and scooters. Excludes mopeds/motorized bicycles. ¹⁰ Source: Motorcycle Industry Council, Inc., Irvine, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. Excludes moped imports (motorcycle imports less than 51 cc's) from all countries (except Japan). ¹¹ Dutiable value for customs purposes prior to 1980 thereafter, c.i.f. value. ¹² 1970, covers assembled vehicles only. Beginning 1980, includes chassis. ¹³ Includes other countries, not shown separately. ¹⁴ Covers assembled and unassembled vehicles. ¹⁵ Includes rubber tires and tubes and used vehicles. ¹⁶ For years ending June 30. Represents vehicles failing to re-register. ¹⁷ Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C., *RMA Monthly Tire Report*. ¹⁷ Source: Battery Council International, Chicago, IL, and U.S. Bureau of the Census.

Source: Except as noted, Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual; and *World Motor Vehicle Data*, annual.

NO. 1028. MOTOR-VEHICLE REGISTRATIONS, 1980 TO 1988, AND VEHICLE-MILES OF TRAVEL, 1987, BY STATE

[In thousands, except as indicated. Motor vehicle registrations cover publicly, privately, and commercially owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ; figures represent net numbers where possible, excluding re-registrations and nonresident registrations]

STATE	AUTOMOBILES, TRUCKS, AND BUSES ¹							MOTORCYCLES ¹ (incl. official) 1988, est.		1987		
	1980	1985	1986	1987	1988, est.			Total	Per 1,000 population ²	Public road and street mileage (1,000 mi.)	Vehicle miles of travel	
					Total	Automobiles (incl. taxis)					Total (bil. mi.)	Per mile of road (1,000)
						Total	Per 1,000 population ²					
U.S.	155,796	171,654	176,191	179,044	183,468	140,655	572	4,719	19	3,874.0	1,924.3	496.7
AL	2,938	3,338	3,457	3,547	3,652	2,758	672	50	12	88.2	37.4	424.0
AK	262	353	363	357	354	225	429	9	17	12.1	3.9	322.3
AZ	1,917	2,235	2,346	2,417	2,498	1,763	511	57	16	77.7	31.7	408.0
AR	1,574	1,384	1,426	1,445	1,481	961	401	17	7	77.1	18.3	237.4
CA	16,873	18,899	19,760	20,294	21,281	16,473	582	661	23	158.9	226.3	1,424.2
CO	2,942	2,759	2,763	3,033	3,080	2,227	675	117	35	76.7	27.0	352.0
CT	2,147	2,465	2,562	2,612	2,664	2,498	773	62	19	19.7	26.6	1,360.4
DE	397	465	480	490	497	385	583	9	14	5.3	6.1	1,150.9
DC	268	326	289	268	268	252	408	2	3	1.1	3.4	3,090.9
FL	7,614	9,865	10,362	10,884	11,046	8,822	715	213	17	100.4	93.6	932.3
GA	3,818	4,580	4,841	5,026	5,230	3,708	585	80	13	106.8	60.3	564.6
Ht.	570	651	689	690	698	614	559	24	22	4.1	7.2	1,756.1
ID	834	854	857	947	1,019	626	624	44	44	71.6	8.1	113.1
IL	7,477	7,727	7,420	7,662	7,876	6,428	553	248	21	135.3	75.8	560.2
IN	3,826	4,024	4,174	3,708	3,736	2,774	499	95	17	91.5	44.1	492.0
IA	2,329	2,696	2,638	2,699	2,766	1,987	701	208	73	112.5	20.8	184.9
KS	2,007	2,148	2,176	2,188	2,206	1,512	606	80	32	132.9	20.6	155.0
KY	2,593	2,615	2,685	2,720	2,762	1,832	492	36	10	69.6	30.3	435.3
LA	2,779	3,012	2,890	2,891	2,927	1,984	450	39	9	58.3	30.6	524.9
ME	724	840	872	928	954	698	579	41	34	22.0	10.8	490.9
MD	2,803	3,276	3,361	3,309	3,369	2,769	599	51	11	28.0	36.5	1,303.6
MA	3,749	3,738	3,841	3,887	3,931	3,433	583	110	19	33.8	42.3	1,251.5
MI	6,488	6,727	6,832	6,945	7,080	5,556	601	224	24	117.8	75.7	642.6
MN	3,091	3,385	3,087	3,172	3,263	2,546	591	150	35	132.8	35.2	265.1
MS	1,577	1,746	1,770	1,761	1,754	1,341	512	24	9	72.1	20.2	280.2
MO	3,271	3,558	3,683	3,712	3,753	2,665	518	66	13	119.7	43.4	362.6
MT	680	652	673	650	644	413	513	22	27	71.8	8.1	112.8
NE	1,254	1,257	1,281	1,305	1,332	887	554	30	19	92.4	13.1	141.8
NV	655	709	769	812	857	624	592	17	16	44.8	8.4	187.5
NH	704	974	1,071	874	914	724	667	33	30	14.6	9.2	630.1
NJ	4,761	4,909	5,267	5,520	5,641	5,048	654	58	8	34.0	57.1	1,679.4
NM	1,068	1,176	1,320	1,285	1,278	799	530	37	25	53.7	15.1	281.2
NY	8,002	9,042	9,515	9,593	10,034	8,764	489	226	13	110.3	98.0	886.5
NC	4,532	4,450	4,739	4,870	5,016	3,542	546	62	10	93.2	54.6	585.8
ND	627	855	648	650	654	387	560	24	36	86.2	5.7	66.1
OH	7,771	8,102	8,159	8,521	8,778	7,177	661	268	25	112.2	79.2	705.9
OK	2,583	2,864	2,962	2,887	2,937	1,991	614	71	22	111.1	31.6	284.4
OR	2,081	2,204	2,264	2,243	2,260	1,689	610	78	26	93.9	23.3	248.1
PA	6,926	7,209	7,477	7,642	7,869	6,331	528	194	16	115.9	78.6	678.2
RI	623	610	632	654	672	554	558	25	25	5.9	6.0	1,016.9
SC	1,996	2,222	2,304	2,366	2,403	1,793	517	31	9	63.4	30.2	476.3
SD	601	650	664	674	689	418	586	31	43	73.5	6.2	84.4
TN	3,271	3,754	3,932	4,027	4,135	3,304	675	77	16	83.7	42.1	503.0
TX	10,475	12,444	12,407	12,298	12,209	8,330	495	215	13	263.5	151.2	515.2
UT	992	1,099	1,111	1,114	1,119	760	450	45	27	49.9	12.7	254.5
VT	347	398	418	442	466	345	619	19	34	14.1	5.0	354.6
VA	3,626	4,253	4,532	4,628	4,729	3,623	602	67	11	66.1	54.8	829.0
WA	3,225	3,526	3,752	3,828	3,923	2,801	603	128	30	79.5	38.5	464.3
WV	1,320	1,143	1,170	1,194	1,216	831	443	24	13	35.2	13.7	389.2
WI	2,941	3,187	3,120	3,096	3,087	2,373	489	189	39	108.9	40.2	369.1
WY	467	500	440	478	493	290	605	21	44	40.1	5.4	134.7

¹ Excludes vehicles owned by military services. ² Based on resident population as of July 1.

Source: U.S. Federal Highway Administration, *Highway Statistics*, annual; and *Selected Highway Statistics and Charts*, annual.

NO. 1029. MOTOR VEHICLES—REGISTRATIONS, FACTORY SALES, AND RETAIL SALES: 1960 TO 1988

(Minus sign (-) indicates decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 148-155)

YEAR	REGISTRATIONS ¹ (mil.)			Motor-cycle registrations ¹ (1,000)	FACTORY SALES (1,000)			PASSENGER CARS RETAIL SALES (1,000)			AVERAGE ANNUAL PERCENT CHANGE ⁴	
	Total cars, trucks, buses	Pas- senger cars ²	Trucks and buses		Total cars, trucks, buses	Pas- senger cars	Trucks and buses ³	Total	Do- mestic	Im- ports	Registra- tions ⁵	Retail sales
1960.....	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	3.5	-2.3
1965.....	90.4	75.3	15.1	1,382	11,057	9,306	1,752	9,332	8,763	569	4.7	7.0
1967.....	96.9	80.4	16.5	1,953	8,976	7,437	1,539	8,337	7,568	760	3.1	-5.5
1968.....	100.9	83.6	17.3	2,089	10,718	8,822	1,896	8,656	8,825	1,031	4.1	15.8
1969.....	105.1	86.9	18.2	2,318	10,147	8,224	1,923	9,583	8,464	1,118	4.2	-0.8
1970.....	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	3.2	-12.3
1971.....	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,681	1,568	4.2	22.0
1972.....	118.8	97.1	21.7	3,760	11,271	8,824	2,447	10,950	9,327	1,623	5.1	6.8
1973.....	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	5.8	4.5
1974.....	129.9	104.8	25.1	4,966	10,059	7,331	2,727	8,867	7,454	1,413	3.4	-22.5
1975.....	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2.3	-2.6
1976.....	138.5	110.2	28.4	4,933	11,480	8,500	2,979	10,110	8,611	1,498	4.2	17.0
1977.....	142.1	112.3	29.8	4,881	12,642	9,201	3,441	11,185	9,109	2,076	2.6	10.6
1978.....	148.4	116.6	31.8	4,868	12,871	9,165	3,706	11,312	9,312	2,000	4.4	1.1
1979.....	151.9	118.5	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	2.4	-5.7
1980.....	155.8	121.6	34.2	5,694	8,067	6,400	1,667	8,979	6,581	2,398	2.6	-15.9
1981.....	158.3	123.1	35.2	5,831	7,956	6,255	1,701	8,538	6,209	2,327	1.6	-4.9
1982.....	159.6	123.7	35.9	5,754	6,955	5,049	1,906	7,982	5,759	2,223	.8	-8.5
1983.....	163.9	126.2	37.7	5,585	9,153	6,739	2,414	9,182	6,795	2,387	2.7	15.0
1984.....	166.2	128.1	38.1	5,480	10,696	7,621	3,075	10,391	7,952	2,439	1.6	13.2
1985.....	171.7	131.9	39.8	5,444	11,359	8,002	3,357	11,042	8,204	2,838	3.3	6.3
1986.....	176.2	135.4	40.8	5,282	10,909	7,516	3,393	11,480	8,215	3,245	2.6	3.8
1987.....	179.0	137.3	41.7	4,886	10,907	7,085	3,821	10,277	7,081	3,196	1.4	-10.3
1988 ⁶	183.5	140.7	42.8	4,719	11,225	7,105	4,121	10,626	7,526	3,100	2.5	3.4

¹ Includes publicly owned vehicles. Excludes military services' vehicles. ² Includes taxis. ³ Includes standard equipment.

⁴ From immediate prior year. ⁵ Excludes motorcycles. ⁶ Estimate.

Source: Registrations—U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual; sales—Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *MVMA Motor Vehicle Facts and Figures*, annual.

NO. 1030. MOTOR VEHICLE OUTPUT AND TRADE IN NATIONAL INCOME ACCOUNTS: 1970 TO 1988

(In billions of dollars, except percent. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales, adjusted for changes in inventories and net balance of vehicle exports and imports)

YEAR	CURRENT DOLLARS							CONSTANT (1982) DOLLARS						
	GNP ¹	Vehicle output				Vehicle		GNP ¹	Vehicle output				Vehicle	
		Total	Per- cent of GNP	Auto	Truck	Ex- port value	Im- port value		Total	Per- cent of GNP	Auto	Truck	Ex- port value	Im- port value
1970.....	1,016	36.8	3.6	28.5	8.3	1.4	4.4	2,416	73.2	3.0	53.1	20.1	3.0	11.8
1971.....	1,103	49.3	4.5	38.9	10.4	1.8	5.9	2,485	93.6	3.8	69.8	23.8	3.5	14.8
1972.....	1,213	55.0	4.5	41.4	13.6	2.0	6.8	2,609	104.2	4.0	73.9	30.9	4.0	16.0
1973.....	1,359	63.1	4.6	46.0	17.1	2.7	7.8	2,744	119.4	4.4	82.0	37.4	5.3	17.2
1974.....	1,473	57.7	3.9	38.8	18.9	3.7	8.8	2,729	103.7	3.8	65.4	38.3	6.7	17.5
1975.....	1,598	56.7	3.5	40.3	16.4	5.1	8.4	2,695	90.9	3.4	61.8	29.1	8.5	14.9
1976.....	1,783	78.3	4.4	55.2	23.1	5.4	11.0	2,827	118.0	4.2	80.1	37.9	8.3	18.2
1977.....	1,991	95.1	4.8	64.3	30.8	5.6	13.3	2,959	135.7	4.6	88.7	47.0	8.1	20.3
1978.....	2,250	105.1	4.7	68.3	36.8	6.5	17.4	3,115	138.6	4.4	87.3	51.3	8.7	23.7
1979.....	2,508	104.0	4.1	105.1	37.1	8.0	18.6	3,192	128.1	4.0	80.2	47.9	10.0	22.8
1980.....	2,732	84.4	3.1	60.1	24.3	7.1	20.9	3,187	95.2	3.0	67.1	28.1	8.1	23.5
1981.....	3,053	96.6	3.2	69.4	27.2	7.2	22.6	3,249	102.1	3.1	73.3	28.8	7.6	23.4
1982.....	3,166	94.3	3.0	66.5	27.8	5.4	25.5	3,166	94.3	3.0	66.5	27.8	5.4	25.5
1983.....	3,406	123.6	3.6	88.6	35.0	6.2	29.5	3,279	119.8	3.7	85.9	33.9	6.0	28.6
1984.....	3,772	156.3	4.1	105.1	51.2	7.3	38.9	3,501	146.2	4.2	98.5	47.7	6.9	36.7
1985.....	4,015	172.8	4.3	118.5	56.3	8.8	45.5	3,619	157.4	4.3	106.5	50.9	7.9	41.1
1986.....	4,232	176.1	4.2	120.6	55.5	9.3	55.4	3,718	154.2	4.1	106.4	47.8	8.0	46.3
1987.....	4,524	178.9	4.0	119.2	59.7	10.9	58.2	3,854	152.8	4.0	101.7	50.9	9.2	45.6
1988.....	4,881	196.2	4.0	129.9	66.3	12.5	56.6	4,024	164.6	4.1	108.9	55.7	10.3	49.1

¹ For definition of gross national product (GNP), see text, section 14.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

NO. 1031. NEW TRUCKS—RETAIL SALES, BY WEIGHT CLASS AND TYPE: 1980 TO 1988

WEIGHT CLASS AND TYPE	NUMBER (1,000)							PERCENT CHANGE			
	1980	1983	1984	1985	1986	1987	1988	1984-1985	1985-1986	1986-1987	1987-1988
Total	2,232	2,709	3,538	3,984	4,031	4,174	4,608	12.6	1.2	3.5	10.4
Under 6,000 pounds	985	1,314	2,031	2,408	2,541	2,696	2,926	18.6	5.5	6.1	8.5
Utility.....	51	254	370	429	382	383	435	15.9	-10.8	2	13.6
Pickup, car type.....	50	26	28	24	24	15	(2)	-5.0	-1.5	-35.8	-96.9
Pickup, conventional.....	545	445	632	644	582	566	593	1.9	-9.7	-2.8	4.8
Pickup, compact.....	254	488	613	696	757	861	901	13.4	8.9	13.7	4.6
Domestic.....	26	433	560	625	679	795	848	11.6	8.5	17.2	6.7
Import (U.S. manufactures).....	229	55	53	70	79	66	53	32.9	-11.9	-16.7	-19.7
Van.....	79	67	121	115	112	89	47	-5.3	-2.2	-20.5	-47.2
Mini van (cargo).....	(x)	(z)	24	103	110	101	106	335.1	6.6	-8.2	5.0
Station wagon (truck chassis).....	(x)	8	62	86	98	108	138	38.9	14.1	11.1	27.8
Mini passenger carrier.....	(x)	8	169	301	460	546	692	78.3	52.8	18.8	26.7
6,000 to 10,000 pounds	975	1,207	1,224	1,280	1,214	1,175	1,333	4.6	-5.2	-3.2	13.4
Utility.....	108	84	103	108	101	91	90	4.4	-6.4	-9.6	-1.1
Van.....	172	311	265	261	261	254	302	-1.5	-1	-2.8	18.9
Pickup, conventional.....	546	574	573	628	582	569	666	9.7	-7.3	-2.2	17.0
Station wagon (truck chassis).....	39	69	86	95	98	91	104	9.9	4.1	-7.5	14.3
10,001 pounds and over	271	189	283	295	276	302	349	4.2	-6.4	9.8	15.6

X Not applicable. Z Less than 500. † Discontinued model.

Source: Motor Vehicle Manufacturers Association, *Motor Vehicle Facts and Figures*, annual.

NO. 1032. NEW CAR BUYERS—CHARACTERISTICS, BY TYPE OF VEHICLE PURCHASED: 1988

[In percent, except as indicated. Based on Newsweek's survey of 37,678 new car buyers in 1988. Thirty-three percent of new car buyers responded]

CHARACTERISTIC	All cars	Do- mestic	Euro- pean	Asian	CHARACTERISTIC	All cars	Do- mestic	Euro- pean	Asian
Household income:					Education:				
Less than \$30,000.....	29.1	29.5	24.3	29.3	High school or less.....	36.3	37.0	16.7	23.2
\$30,000-\$49,000.....	33.8	34.4	22.0	34.1	Some college.....	27.9	27.0	26.3	30.0
\$50,000 and over.....	37.1	36.1	53.6	36.7	College graduate or more.....	37.8	33.0	54.2	46.2
Mean (dol.).....	51,213	49,397	73,281	49,839	Occupation:				
Median (dol.).....	41,765	41,161	53,505	41,914	Professional/manager.....	44.2	39.5	53.3	52.4
Sex:					Blue collar.....	14.0	15.3	11.3	11.5
Male.....	57.6	61.2	57.5	50.7	Other employed.....	17.9	16.0	18.9	21.5
Female.....	42.4	38.8	42.5	49.3	Unemployed.....	24.0	29.2	16.7	14.7
Age:					First time new car buyers.....	21.3	16.7	23.6	30.2
Under 25 years.....	12.5	9.1	10.4	18.9					
25-44 years.....	48.1	42.7	60.4	57.0					
45 years and over.....	39.6	47.9	28.8	24.1					

Source: Newsweek, Inc., New York, NY, *1988 Buyers of New Cars*. (Copyright. All rights reserved. Reprinted by permission.)

NO. 1033. RECREATIONAL VEHICLES—NUMBER AND RETAIL VALUE OF SHIPMENTS: 1970 TO 1988

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
NUMBER (1,000)												
Total	380.3	339.6	307.7	181.4	239.1	258.0	358.0	398.2	359.2	379.5	400.2	427.3
Motorized homes.....	30.3	96.6	172.6	99.9	135.2	152.5	223.7	257.3	233.5	249.6	255.7	277.1
Travel trailers.....	138.0	150.6	90.2	52.0	63.8	65.5	90.0	92.4	82.9	86.0	92.8	96.9
Folding camping trailers.....	116.1	48.1	31.1	24.5	35.0	34.3	37.5	40.9	35.9	36.5	41.6	42.3
Truck campers.....	95.9	44.3	13.8	5.0	5.1	5.7	6.8	7.6	6.9	7.4	10.1	11.0
RETAIL VALUE (mil. dol.)												
Total	1,122	2,320	3,538	1,952	2,775	3,505	6,324	7,610	7,029	7,564	8,400	9,188
Motorized homes.....	318	1,251	2,682	1,381	2,019	2,701	5,099	6,262	5,724	6,155	6,826	7,543
Travel trailers.....	445	856	725	485	631	666	1,067	1,157	1,122	1,213	1,331	1,381
Folding camping trailers.....	175	101	83	69	105	110	122	145	137	144	167	175
Truck campers.....	183	112	48	17	20	28	36	46	46	53	76	88

Source: Recreation Vehicle Industry Association, Reston, VA, *RVs... A Year-End Report/1988*. Data also in Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

NO. 1034. MOTORCYCLES—TRAVEL, REGISTRATION, AND FUEL CONSUMPTION: 1970 TO 1987

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Vehicle-miles of travel.....	Million.....	2,979	5,629	8,637	10,214	10,690	9,910	8,760	8,784	9,086	9,397	9,855
Number of registered vehicles.....	1,000.....	2,824	4,984	5,422	5,694	5,831	5,754	5,585	5,480	5,444	5,199	4,886
Average travel per vehicle.....	Miles.....	1,055	1,134	1,593	1,794	1,833	1,722	1,568	1,603	1,669	1,807	2,017
Fuel consumption, total.....	Mil. gal.....	59.6	112.6	172.7	204.3	213.8	198.2	175.2	175.7	181.7	187.9	197.1
Average per vehicle.....	Gallon.....	21	23	32	36	37	34	31	32	33	36	40
Average miles per gallon consumed.....	Miles.....	50	50	50	50	50	50	50	50	50	50	50

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985 and Highway Statistics*, annual.

No. 1035. MOTOR VEHICLE ACCIDENTS—NUMBER AND DEATHS: 1970 TO 1988

[See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224–232]

ITEM	Unit	1970	1972 ¹	1980	1982	1983	1984	1985	1986	1987	1988
Motor vehicle accidents ²	Million	16.0	17.0	17.9	18.1	19.3	18.8	19.3	17.7	20.8	(NA)
Cars	Million	23.5	24.5	22.8	23.2	23.5	25.2	25.6	27.7	25.9	(NA)
Trucks	Million	3.2	3.5	5.5	5.8	5.8	6.3	6.1	6.1	6.0	(NA)
Motorcycles	1,000	305	343	560	550	530	570	480	440	380	(NA)
Motor vehicle deaths within 1 yr. ³	1,000	54.6	56.3	53.2	45.8	44.4	46.2	45.9	47.9	48.4	49.0
Noncollision accidents	1,000	15.4	15.8	14.7	12.6	12.2	12.6	12.9	13.1	13.7	14.2
Collision accidents:											
With other motor vehicles	1,000	23.2	23.9	23.0	19.8	19.2	20.3	19.9	20.8	20.9	21.2
With pedestrians	1,000	9.9	10.3	9.7	8.4	8.2	8.6	8.4	8.9	8.9	8.8
With fixed objects	1,000	3.8	3.9	3.7	3.2	3.1	3.0	2.7	3.3	3.1	3.0
Deaths within 30 days ⁴	1,000	52.6	54.8	51.1	43.9	42.6	44.3	43.8	48.1	46.4	47.1
Vehicle occupants	1,000	40.6	41.4	36.8	31.2	30.6	31.9	31.5	33.7	34.5	35.5
Pedestrians	1,000	9.0	9.2	8.1	7.3	6.8	7.0	6.8	6.8	6.7	6.9
Motorcyclists ⁵	1,000	2.3	3.0	5.1	4.5	4.3	4.6	4.6	4.6	4.0	3.7
Bicyclists	1,000	.8	1.0	1.0	.9	.8	.8	.9	.9	.9	.9
Traffic death rates: ⁴											
Per 100,000 resident population	Rate	25.8	26.2	22.6	19.0	18.2	18.7	18.4	19.1	19.1	19.2
Per 100,000 registered vehicles	Rate	47.3	44.5	31.6	26.6	25.1	25.7	24.8	25.4	25.2	25.0
Per 100 million vehicle miles	Rate	4.7	4.3	3.3	2.8	2.6	2.6	2.5	2.5	2.4	2.4
Per 100,000 licensed drivers	Rate	47.2	46.1	35.2	29.2	27.6	28.5	27.9	28.9	28.7	28.7
Motor vehicle accidents ⁷	Million	22.1	24.9	24.1	28.5	29.4	30.9	32.5	33.3	33.9	34.2
Injuries ⁷	1,000	4,983	5,190	5,230	4,490	4,665	4,850	5,044	5,300	5,400	5,600
Economic loss ⁷	Bil. dol.	23.5	28.7	57.1	60.2	62.7	69.0	76.0	80.0	85.0	89.0

NA Not available. ¹ Represents peak year for deaths from motor vehicle accidents. ² Shows only accidents occurring on the road. ³ Deaths that occur within one year of accident. Includes collision categories not shown separately. ⁴ Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, unpublished data from Fatal Accident Reporting System. ⁵ Includes motor scooters and motorized bicycles (mopeds). ⁶ Based on 30-day definition of traffic deaths. ⁷ Source: Insurance Information Institute, New York, NY, *Insurance Facts*. Estimates based on official reports from a representative cross-section of States. Includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. 1986 data for economic loss based on information from the National Center for Health Statistics, National Health Survey. ⁸ Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage. Source: Except as noted, National Safety Council, Chicago, IL, *Accident Facts*, annual. (Copyright.)

No. 1036. DEATHS FROM MOTOR VEHICLE ACCIDENTS, BY STATE: 1972 TO 1987

[Data differ from table 1035 because data are based on date of death, not date of accident. Data reflect State where death occurred. Includes deaths of nonresidents of U.S. Beginning 1980, deaths classified according to the ninth revision of the *International Classification of Diseases*, for earlier years classified according to the revision in use at the time; see text, section 2. Data based on Vital Registration System, see Appendix III. For composition of regions, see fig. 1, inside front cover.]

REGION, DIVISION, AND STATE	1972 ¹	1975	1980	1985	1986	1987	DIVISION AND STATE	1972 ¹	1975	1980	1985	1986	1987
U.S.	56,528	46,032	53,476	46,159	48,140	48,290	S.A.	10,600	8,358	9,767	9,389	9,985	9,714
Region:							DE	130	129	164	119	160	152
Northeast.	8,992	7,431	8,255	6,797	7,090	7,513	MD	852	686	822	766	798	815
Midwest.	14,670	11,293	12,244	9,760	10,115	10,647	DC	106	91	79	96	86	82
South.	21,964	18,029	21,014	19,250	20,189	19,416	VA	1,256	1,069	1,111	1,021	1,141	1,075
West.	10,902	9,279	11,963	10,352	10,746	10,714	WV	578	499	583	461	470	503
N.E.	2,180	1,953	2,246	1,873	1,880	1,855	NC	2,026	1,560	1,588	1,553	1,727	1,577
ME	252	235	264	224	218	217	SC	1,148	837	895	943	1,077	1,087
NH	172	155	192	198	181	174	GA	1,940	1,420	1,558	1,462	1,604	1,618
VT	126	124	131	117	105	112	FL	2,570	2,067	2,967	2,968	2,925	2,805
MA	1,042	895	933	761	773	748	E.S.C.	4,972	3,881	3,995	3,664	4,166	4,178
RI	144	140	142	124	155	140	KY	1,114	865	865	749	829	883
CT	444	404	584	449	448	464	TN	1,526	1,280	1,280	1,219	1,372	1,298
M.A.	6,812	5,478	6,009	4,924	5,210	5,658	AL	1,358	1,087	1,054	1,005	1,180	1,185
NY	3,140	2,277	2,717	2,121	2,183	2,495	MS	976	629	796	691	785	812
NJ	1,352	1,099	1,130	986	1,059	1,094	W.S.C.	6,392	5,790	7,252	6,197	6,037	5,524
PA	2,320	2,102	2,162	1,817	1,968	2,069	AR	750	577	607	580	624	658
E.N.C.	9,514	7,361	8,000	6,802	6,754	7,354	LA	1,136	993	1,261	1,011	987	867
OH	2,336	1,652	1,976	1,581	1,609	1,831	OK	792	748	1,006	781	725	669
IN	1,578	1,139	1,213	1,045	1,077	1,127	TX	3,714	3,472	4,378	3,825	3,701	3,390
IL	2,216	1,816	1,985	1,594	1,633	1,835	Mt.	3,764	3,206	4,071	3,409	3,589	3,209
MI	2,236	1,811	1,817	1,605	1,666	1,730	ID	406	294	339	233	240	223
WI	1,148	943	1,009	777	769	831	CO	324	291	345	268	273	263
W.N.C.	5,156	3,932	4,244	3,158	3,293	3,129	WY	196	210	246	145	163	107
MN	1,052	798	900	657	608	601	UT	746	621	783	628	657	615
IA	904	714	662	478	446	508	NM	588	556	617	561	539	525
MO	1,500	1,105	1,239	1,005	1,205	1,085	AZ	858	713	983	942	1,073	925
ND	206	183	184	117	120	113	NV	354	285	370	335	370	307
SD	312	216	238	142	152	156	UT	290	236	388	297	274	244
NE	504	385	406	259	311	296	Pac.	7,138	6,073	7,892	6,943	7,157	7,505
KS	678	531	615	500	519	534	WA	956	804	1,048	786	783	865
							OR	774	582	698	605	649	642
							CA	5,300	4,414	5,860	5,294	5,523	5,774
							AK	64	120	91	124	98	90
							HI	164	153	195	134	124	134

¹ Represents peak year for deaths from motor vehicle accidents. Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual; and unpublished data.

Motor-Vehicle Accidents and Fatalities

607

NO. 1037. FATAL MOTOR-VEHICLE ACCIDENTS—NUMBER OF ACCIDENTS AND FATALITIES, BY TYPE OF VEHICLE: 1980 TO 1987

[Based on data from the Fatal Accident Reporting System]

TYPE OF VEHICLE	ACCIDENTS ¹						OCCUPANT FATALITIES					
	1980	1983	1984	1985	1986	1987	1980	1983	1984	1985	1986	1987
Total ²	45,284	37,978	39,631	39,195	41,090	41,438	41,927	34,843	36,284	36,043	38,229	38,565
Passenger cars ³	31,550	26,698	27,745	27,142	28,752	28,945	27,449	22,979	23,621	23,214	24,947	25,132
Mini-compact.....	3,263	3,753	4,001	3,973	4,346	4,508	2,966	3,278	3,470	3,429	3,647	3,753
Subcompact.....	4,875	4,884	5,275	5,445	6,006	6,431	4,158	4,000	4,346	4,422	4,770	5,007
Compact.....	1,118	1,936	2,670	3,445	4,374	5,422	927	1,499	2,081	2,635	3,312	3,943
Intermediate.....	5,224	5,352	5,976	6,064	6,555	7,166	3,878	3,985	4,287	4,391	4,763	4,917
Full size.....	7,026	5,361	5,199	4,906	5,094	4,858	4,831	3,489	3,269	2,974	3,191	2,937
Largest size.....	10,617	7,524	7,334	6,452	6,339	5,934	6,746	4,470	4,160	3,612	3,662	3,160
Unknown.....	5,134	3,264	2,905	2,699	2,053	2,261	3,943	2,258	2,008	1,751	1,602	1,415
Motorcycles.....	4,879	4,045	4,378	4,342	4,209	3,781	4,961	4,104	4,431	4,417	4,309	3,834
Moped, mini bike.....	180	158	172	151	250	201	183	161	177	147	257	202
Light trucks ⁴	10,841	9,347	10,255	10,470	11,179	12,004	6,566	5,395	5,773	5,834	6,390	7,008
Pickup.....	8,796	7,698	8,285	8,375	8,526	8,904	5,463	4,579	4,873	4,886	5,090	5,502
Van.....	2,009	1,615	1,737	1,807	1,952	2,253	1,000	712	784	791	879	1,025
Medium trucks.....	1,076	672	680	654	661	707	285	172	153	157	145	125
Heavy trucks ⁵	4,036	3,968	4,185	4,217	4,171	4,152	976	807	920	814	781	724
Single-unit ⁴	377	323	271	370	305	396	89	60	83	48	42	57
Two-unit ⁶	3,396	3,144	3,359	3,411	3,351	3,126	812	648	758	692	689	625
Multi-unit.....	148	168	188	182	179	216	41	36	37	31	50	42
Buses.....	329	305	302	304	282	353	46	53	45	55	59	51

¹ Each accident involving multiple types of vehicles is recorded in each category; therefore, the aggregate of all types will exceed the total number of accidents. ² Includes other types and unknown, not shown separately. ³ Mini-compact wheel base less than 95 in.; subcompact, 95 in. to 99 in.; compact, 100 in. to 104 in.; intermediate, 105 in. to 109 in.; full size, 110–114 in.; and largest size greater than 115 in. ⁴ Gross vehicle weight greater than 26,000 lbs. ⁵ Tractor-trailer combination. ⁶ Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

NO. 1038. HIGHWAY MILEAGE, VEHICLE MILES OF TRAVEL, ACCIDENTS, AND FATALITIES, 1975 TO 1987, AND BY TYPE OF HIGHWAY SYSTEM, 1987

YEAR AND TYPE OF SYSTEM	Highway mileage (1,000)	Vehicle miles of travel (bil.)	Daily vehicle miles per mile	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES ²	
				Number	Rate ¹	Number (1,000)	Rate ¹	Number	Rate ¹
1975, total.....	3,838	1,328	948	39,993	3.01	1,861	140	45,500	3.43
1980, total.....	3,857	1,527	1,082	45,284	2.96	2,008	131	51,091	3.35
1983, total.....	3,880	1,653	1,167	37,976	2.30	2,005	121	42,589	2.58
1984, total.....	3,892	1,720	1,208	39,631	2.30	2,137	124	44,257	2.57
1985, total.....	3,862	1,774	1,259	39,168	2.21	2,219	125	43,795	2.47
1986, total.....	3,880	1,838	1,298	41,062	2.23	2,254	123	46,056	2.51
1987, total.....	3,874	1,924	1,361	41,434	2.15	2,294	119	46,385	2.41
Urban.....	710	1,143	4,408	18,329	1.60	1,589	139	19,772	1.73
Rural.....	3,164	782	677	23,105	2.96	705	90	26,613	3.40
Interstate.....	44	417	25,786	4,096	.98	153	37	4,641	1.11
Urban.....	11	245	59,923	1,968	.80	111	45	2,138	.87
Rural.....	33	172	14,221	2,118	1.23	42	25	2,503	1.46
Noninterstate.....	3,830	1,507	1,078	37,348	2.48	2,141	142	41,744	2.77
Urban.....	699	897	3,517	16,361	1.82	1,478	165	17,634	1.97
Rural.....	3,131	610	534	20,987	3.44	663	109	24,110	3.95
Federal-aid highway system, total.....	849	1,569	5,065	31,707	2.02	1,531	98	35,839	2.28
Urban.....	192	934	13,329	14,541	1.56	1,107	119	15,749	1.69
Rural.....	657	636	2,652	17,166	2.70	424	67	20,090	3.16
Interstate.....	44	417	25,786	4,096	.98	153	37	4,641	1.11
Other primary arterial.....	258	558	5,921	13,297	2.40	530	95	15,504	2.78
Urban.....	33	260	21,817	4,269	1.64	316	122	4,690	1.80
Rural.....	225	298	3,617	9,128	3.07	213	72	10,824	3.64
Urban (arterial and collector).....	148	428	7,922	8,304	1.94	680	159	8,931	2.09
Secondary (collector).....	398	166	1,144	5,920	3.56	168	101	6,763	4.07
Non-Federal-aid highway system, total.....	3,025	355	322	9,727	2.74	763	215	10,546	2.97
Urban.....	519	209	1,105	3,788	1.81	482	231	4,023	1.92
Rural.....	2,507	146	160	5,939	4.07	281	193	6,523	4.47
Collector.....	353	75	582	2,124	2.84	102	137	2,331	3.11
Urban.....	21	22	2,972	265	1.13	20	87	272	1.21
Rural.....	332	52	432	1,869	3.57	83	158	2,059	3.93
Local.....	2,682	252	259	7,121	2.89	632	251	7,670	3.05
Urban.....	489	163	911	3,267	2.02	444	273	4,198	2.14
Rural.....	2,173	89	113	3,834	4.30	187	210	4,472	4.70

¹ Rate per 100 million vehicle miles of travel. ² Represents fatalities occurring within 30 days of accident. Excludes nontraffic accidents which, for example, occur outside the rights-of-way or other boundaries of roads that are open for public use.

Source: U.S. Federal Highway Administration, *Fatal and Injury Accident Rates on Public Roads in the United States*, annual.

**NO. 1039. MOTOR VEHICLE SAFETY DEFECT RECALLS, BY DOMESTIC AND FOREIGN MANUFACTURERS:
1975 TO 1988**

[Covers manufacturers reporting to U.S. National Highway Traffic Administration under section 151 of National Traffic and Motor Vehicle Safety Act of 1966, as amended]

MANUFACTURER	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Motor vehicles:												
Total recall campaigns¹												
	Number.....	217	275	167	156	135	140	164	173	174	199	197
Domestic.....	Number.....	190	218	129	128	107	110	127	137	139	150	152
Foreign.....	Number.....	27	57	38	28	28	30	37	36	35	49	45
Total vehicles recalled:												
Domestic.....	1,000.....	2,109	8,919	4,863	9,405	1,914	6,114	7,220	5,829	2,880	9,091	4,485
Foreign.....	1,000.....	1,829	6,997	3,939	7,379	1,401	3,090	6,283	4,995	1,731	7,297	3,170
Vehicles recalled by 4 leading auto manufacturers:												
Domestic.....	1,000.....	1,602	6,989	3,730	7,247	1,324	3,021	6,148	4,811	1,382	6,945	2,900
Foreign.....	1,000.....	280	1,922	824	2,026	513	3,024	937	634	1,149	1,793	1,315
Motor vehicle tires:												
Recall campaigns ¹	Number.....	22	42	24	25	17	21	16	19	14	16	12
Tires recalled.....	1,000.....	72	235	7,070	125	131	95	81	28	164	43	214

¹ A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers, of a motor vehicle safety defect. ² Three leading automobile manufacturers.

Source: U.S. National Highway Traffic Safety Administration, *Motor Vehicles Defect Recall Campaigns*, annual.

NO. 1040. LICENSED DRIVERS AND ESTIMATED ARRESTS FOR DRIVING UNDER THE INFLUENCE, BY AGE: 1975 AND 1986

[Total drivers and arrests in thousands. Represents licensed drivers and arrests for those 16 years old and over]

AGE	1975			1986			Percent change in rate, 1975-86
	Drivers	Arrests	Arrests per 100,000 drivers	Drivers	Arrests	Arrests per 100,000 drivers	
Total.....	129,671	948	729	158,494	1,792	1,130	55
Percent distribution.....	100.0	100.0	(X)	100.0	100.0	(X)	(X)
16-17 years old.....	3.7	1.8	352	2.6	1.5	647	84
18-24 years old.....	18.9	25.3	979	15.7	28.8	2,075	112
25-29 years old.....	12.9	15.0	847	13.0	22.0	1,909	125
30-34 years old.....	10.3	12.2	867	12.2	15.8	1,471	70
35-39 years old.....	8.5	10.6	909	10.9	11.1	1,168	27
40-44 years old.....	7.9	9.8	904	8.5	7.2	968	7
45-49 years old.....	8.0	8.9	812	6.9	4.9	805	-1
50-54 years old.....	7.9	7.3	675	6.3	3.4	609	-10
55-59 years old.....	6.6	4.6	490	6.3	2.4	434	-11
60-64 years old.....	5.7	2.7	347	5.9	1.6	299	-14
65 years old and over.....	9.5	1.8	141	11.9	1.2	118	-16

X Not applicable.

Source: U.S. Bureau of Justice Statistics, *Drunk Driving, Special Report*.

NO. 1041. LICENSED DRIVERS, FATAL MOTOR-VEHICLE ACCIDENTS, AND ALCOHOL INVOLVEMENT, BY AGE OF DRIVER: 1988

ITEM	Unit	Total	AGE OF DRIVER								
			16-17 years	18-21 years	22-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over	
Licensed drivers (estimated) ¹	1,000.....	164,197	² 4,304	12,395	11,400	41,202	33,305	21,892	19,282	20,417	
Percent distribution.....	Percent.....	100.0	² 2.6	7.5	6.9	25.1	20.3	13.3	11.7	12.4	
Licensed drivers involved in fatal accidents.....	Number.....	³ 62,237	3,225	9,232	6,260	16,389	10,071	5,761	4,319	5,375	
Percent distribution.....	Percent.....	³ 100.0	5.2	14.8	10.1	26.3	16.2	9.3	6.9	8.6	
Drinking drivers involved in fatal accidents.....	Number.....	³ 20,208	730	3,677	2,799	6,636	3,110	1,310	776	570	
Percent distribution.....	Percent.....	³ 100.0	3.6	18.2	13.9	32.8	15.4	6.5	3.8	2.8	

¹ Source: U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual. ² Includes ages less than 16 years old. ³ Includes ages unknown and less than 16 years old.

Source: Except as noted, U.S. National Highway Traffic Safety Administration, unpublished data from the Fatal Accident Reporting System.

NO. 1042. SEAT BELT USAGE—YOUNG CHILD SURVIVORS AND FATALITIES: 1983 TO 1987

[Estimates derived from the Fatal Accident Reporting System (FARS). Based on 7,060 vehicles reported to FARS that had seat, lap, and shoulder belts (model years 1974 and later); had a driver for whom restraint use was reported; and had a young child passenger (under 5 years old) for whom restraint use and type was reported]

AGE AND YEAR	SURVIVORS OF FATAL ACCIDENTS						FATALITIES				
	Estimated use				Percent use		Estimated use				
	Total	Child seat	Adult belt	None used	Total	Child seat	Adult belt	Total	Child seat	Adult belt	None used
Under 1:											
1983	244	86	4	154	36.9	35.2	1.6	157	26	1	130
1984	250	119	1	130	48.0	47.6	4	132	28	1	103
1985	240	135	8	97	52.6	56.3	3.3	130	34	2	94
1986	268	133	8	127	52.6	49.6	3.0	130	33	6	91
1987	287	156	6	125	56.4	54.4	2.1	158	39	6	113
1 year old:											
1983	296	111	13	172	41.9	37.5	4.4	122	20	4	98
1984	289	134	8	147	49.1	46.4	2.8	80	26	1	53
1985	339	171	12	156	54.0	50.4	3.5	93	24	4	65
1986	363	191	20	152	58.1	52.6	5.5	123	29	3	91
1987	413	207	36	170	58.8	50.1	8.7	132	43	8	81
2 years old:											
1983	397	71	13	313	21.2	17.9	3.3	119	12	2	105
1984	415	105	36	274	34.0	25.3	8.7	111	14	12	85
1985	420	101	45	274	34.8	24.0	10.7	129	26	15	88
1986	448	134	71	243	45.8	29.9	15.8	124	20	16	88
1987	497	153	76	268	46.1	30.8	15.3	124	30	20	74
3 years old:											
1983	385	41	21	323	16.1	10.6	5.5	114	8	9	97
1984	369	56	46	267	27.6	15.2	12.5	109	7	4	98
1985	414	79	66	269	35.0	19.1	15.9	104	11	1	92
1986	445	77	105	263	40.9	17.3	23.6	111	10	13	88
1987	480	104	121	255	46.9	21.7	25.2	126	17	13	96
4 years old:											
1983	401	18	36	347	13.5	4.5	9.0	90	2	1	87
1984	384	20	45	319	16.9	5.2	11.7	105	8	8	89
1985	374	42	64	268	28.3	11.2	17.1	98	6	10	82
1986	427	28	122	277	35.1	6.6	28.6	111	8	23	80
1987	462	32	179	251	45.7	6.9	38.7	114	6	26	82

Source: U.S. National Highway Traffic Safety Administration, *Lives Saved by Child Restraints from 1982 through December 1987*, December 1988.

NO. 1043. HOUSEHOLD MOTOR VEHICLE TRANSPORTATION, BY VEHICLE MODEL YEAR: 1985

[Preliminary. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1985 is all households which owned a vehicle at any time during 1985. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability]

HOUSEHOLD CHARACTERISTICS	Households with motor vehicles (mil.)	VEHICLES (millions)					Average	MILES PER GALLON			
		Total	Model year					1973 and earlier	1974 to 1978	1979 to 1982	1983 and later
			1973 and earlier	1974 to 1978	1979 to 1982	1983 and later					
Total	77.7	137.3	26.9	43.3	37.8	28.7	16.1	13.4	13.8	17.9	19.3
Northeast	15.0	24.8	3.0	8.1	7.6	6.1	17.0	13.6	14.0	18.8	20.2
Midwest	19.5	34.1	6.4	11.4	9.0	7.0	15.6	12.6	13.2	17.6	19.1
South	27.0	48.5	9.2	15.0	13.8	10.5	15.8	12.9	13.5	17.4	18.9
West	16.1	29.8	8.3	8.9	7.3	5.1	16.5	14.4	15.0	18.3	19.2

Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey: Consumption Patterns of Household Vehicles, 1985*.

NO. 1044. COST OF OWNING AND OPERATING AN AUTOMOBILE: 1975 TO 1988

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Cost per mile ¹	Cents	18.31	19.57	23.97	27.95	31.92	32.35	33.42	31.32	27.20	29.59	32.64	33.40
Cost per 10,000 miles ¹	Dollars	1,831	1,957	2,397	2,795	3,192	3,235	3,342	3,132	2,720	2,959	3,264	3,340
Variable cost:	Cents/mile	6.45	5.85	5.86	7.62	8.17	8.37	8.36	7.86	8.04	6.52	7.20	7.61
Gas and oil	Cents/mile	4.82	3.89	4.11	5.86	6.27	6.74	6.84	6.19	6.16	4.48	4.60	5.20
Maintenance	Cents/mile	9.77	1.10	1.10	1.12	1.18	1.00	1.04	1.04	1.23	1.37	1.60	1.60
Tires	Cents/mile	.66	.66	.65	.64	.72	.63	.68	.63	.65	.67	.80	.80
Fixed cost:	Dollars	1,186	1,392	1,811	2,033	2,375	2,398	2,506	2,346	2,441	2,596	2,782	3,061
Avg. fixed cost per day	Dollars	3.25	3.81	4.96	5.57	6.51	6.57	6.87	6.43	6.69	7.11	7.62	8.39
Insurance:													
Fire and theft ²	Dollars	53	57	74	70	76	53	80	80	92	86	87	86
Collision ³	Dollars	141	138	168	172	180	153	201	200	198	191	196	203
Property damage ⁴ and liability	Dollars	189	229	241	248	254	243	222	225	213	232	252	284
License and registration	Dollars	30	74	90	82	88	54	102	106	115	130	140	139
Depreciation	Dollars	773	894	942	1,038	1,287	1,356	1,343	1,207	1,253	1,320	1,506	1,784
Finance charge	Dollars	(NA)	(NA)	296	423	480	539	558	528	570	637	601	565

NA Not available. ¹ Beginning 1985, not comparable to previous data. ² \$50 deductible 1975; thereafter \$100 deductible.

³ \$100 deductible 1975; thereafter \$250 deductible. ⁴ Coverage: \$100,000/\$300,000.

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

NO. 1045. DOMESTIC MOTOR FUEL CONSUMPTION, BY TYPE OF VEHICLE: 1970 TO 1987

[Comprises all fuels (gas, diesel, or other fuels) used for propulsion of vehicles under State motor fuels laws. Excludes Federal purchases for military use. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series Q 156-162]

YEAR	FUEL CONSUMPTION					AVERAGE FUEL CONSUMPTION PER VEHICLE (gal.)				AVERAGE MILEAGE PER GALLON			
	All vehicles (bil. gal.)	Avg. annual percent change ¹	Cars ² (bil. gal.)	Buses ³ (bil. gal.)	Trucks ⁴ (bil. gal.)	All vehicles	Cars ²	Buses ³	Trucks ⁴	All vehicles	Cars ²	Buses ³	Trucks ⁴
1970....	92.3	5.4	67.8	.8	23.6	830	760	2,172	1,257	12.02	13.52	5.54	7.85
1975....	109.0	2.5	76.4	1.1	31.4	790	716	2,279	1,217	12.18	13.52	5.75	8.99
1976....	115.7	6.2	79.7	1.0	34.8	806	723	2,188	1,250	12.12	13.53	5.98	8.95
1977....	119.6	3.4	80.4	1.0	38.1	814	716	1,984	1,301	12.26	13.80	5.98	9.06
1978....	125.1	4.5	81.7	1.0	42.3	816	701	1,957	1,349	12.35	14.04	5.95	9.11
1979....	122.1	-2.4	77.3	1.0	43.6	776	653	1,891	1,326	12.52	14.41	5.97	9.19
1980....	115.0	-5.9	71.9	1.0	41.9	712	591	1,926	1,243	13.29	15.46	5.95	9.54
1981....	114.5	-4	71.0	1.1	42.2	697	576	1,938	1,219	13.57	15.94	5.92	9.59
1982....	113.4	-9	70.1	1.0	42.1	686	566	1,756	1,191	14.07	16.65	5.92	9.60
1983....	116.1	2.4	69.9	.9	45.1	686	553	1,507	1,229	14.24	17.14	5.92	9.77
1984....	118.7	2.3	68.7	.8	49.0	691	536	1,359	1,308	14.49	17.83	5.85	9.83
1985....	121.3	2.2	69.3	.8	51.0	685	525	1,407	1,302	14.62	18.20	5.84	9.79
1986....	125.2	3.2	71.4	.9	52.9	690	526	1,463	1,320	14.66	18.27	5.84	9.81
1987....	127.7	2.0	71.0	.9	55.9	695	515	1,502	1,359	15.06	19.17	5.89	9.88

¹ From prior year, except 1970, change from 1965. ² Includes taxicabs. ³ Includes school buses. ⁴ Includes combinations.

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985*, and *Highway Statistics*, annual.

NO. 1046. DOMESTIC MOTOR GASOLINE SUPPLY: 1974 TO 1988

[In 1,000 barrels per day, except as noted]

YEAR	SUPPLY ¹				Production	Net imports	Stocks ² (mil. bbls.)	YEAR	SUPPLY ¹				Production	Net imports	Stocks ² (mil. bbls.)	
	Total	Unloaded		Total					Per cent	Total	Per cent	Total				Per cent
		Total	Per cent													
1974, avg.....	6,537	(NA)	(NA)	6,360	202	218	1982, avg.....	6,539	3,409	52.1	6,338	177	235			
1975, avg.....	6,675	(NA)	(NA)	6,520	182	235	1983, avg.....	6,622	3,647	55.1	6,340	237	222			
1976, avg.....	6,978	1,508	21.6	6,841	128	231	1984, avg.....	6,693	3,987	59.6	6,453	293	243			
1977, avg.....	7,177	1,976	27.5	7,033	215	258	1985, avg.....	6,831	4,406	64.5	6,419	371	223			
1978, avg.....	7,412	2,521	34.0	7,169	189	238	1986, avg.....	7,034	4,854	69.0	6,752	293	233			
1979, avg.....	7,034	2,798	39.8	6,852	181	237	1987, avg.....	7,206	5,470	75.9	6,841	349	226			
1980, avg.....	6,579	3,067	46.6	6,506	139	261	1988, avg.....	7,336	5,995	81.7	6,956	383	228			
1981, avg.....	6,588	3,264	49.5	6,405	155	253										

NA Not available. ¹ Production plus net imports less net increase in primary stocks. ² End of year, includes motor gasoline blending components.

Source: U.S. Energy Information Administration, *Monthly Energy Review*, April 1989.

NO. 1047. MOTOR VEHICLE TRAVEL, BY TYPE OF VEHICLE; AND SPEED: 1970 TO 1987

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Speed trend data for 1970-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. See also *Historical Statistics, Colonial Times to 1970*, series Q 199-207]

YEAR	VEHICLE-MILES OF TRAVEL (bil.)				AVG. MILES PER VEHICLE (1,000)			MOTOR VEHICLE SPEED ²				
	Total	Cars ¹	Buses	Trucks	Passenger vehicles		Trucks	Vehicles recorded (1,000) ³	Avg. speed (miles per hour)	Percent of vehicles exceeding—		
					Cars ¹	Buses				55 m.p.h.	60 m.p.h.	65 m.p.h.
1970.....	1,110	920	4.5	186	10.0	12.0	9.9	200	63.8	87	69	44
1975.....	1,328	1,040	6.1	282	9.3	13.1	10.9	102	57.6	68	27	7
1976.....	1,402	1,084	6.3	312	9.4	13.1	11.2	515	58.2	69	32	10
1977.....	1,467	1,116	5.8	346	9.5	11.9	11.8	500	58.8	74	35	10
1978.....	1,545	1,154	5.9	385	9.5	11.6	12.3	468	58.8	74	36	10
1979.....	1,529	1,122	5.9	401	9.1	11.3	12.2	506	58.3	72	32	9
1980.....	1,527	1,122	6.1	399	8.8	11.5	11.9	667	57.5	66	25	7
1981.....	1,553	1,142	6.2	405	8.9	11.5	11.7	3,048	57.9	68	30	9
1982.....	1,595	1,176	5.8	413	9.1	10.4	11.7	4,895	59.0	73	40	14
1983.....	1,653	1,207	5.2	441	9.1	8.9	12.0	7,856	59.1	74	41	15
1984.....	1,720	1,234	4.6	482	9.2	8.0	12.8	8,067	59.3	75	43	16
1985.....	1,774	1,270	4.9	500	9.2	8.2	12.7	8,449	59.5	75	44	17
1986.....	1,834	1,311	5.1	519	9.3	8.5	13.0	8,549	59.7	76	46	18
1987.....	1,924	1,367	5.3	552	9.6	8.8	13.4	7,982	59.7	74	46	19

¹ Includes motorcycles. ² Represents speed on rural interstate highways. For 1970-1979, based on free flow speed of vehicles recorded on level, straight sections of rural interstate highways during off-peak hours; beginning 1980, based on all vehicles on rural interstate highways. Beginning 1976, for year ending Sept. 30. ³ Citations issued for 55 mph violations.

Source: U.S. Federal Highway Administration, *Highway Statistics Summary to 1985*, and *Highway Statistics*, annual.

NO. 1048. PASSENGER TRANSIT INDUSTRY—SUMMARY: 1970 TO 1987

[Includes Puerto Rico. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs and sightseeing and school buses. Covers (a) local motorbus systems, (b) light rail systems, (c) heavy rail systems, (d) trolley coach systems, and (e) automated guideway, inclined plane, cable car, and aerial tramway systems. Beginning 1984, data also include suburban railroads, urban ferry boats, rural fixed-route non-intercity motorbus systems, vanpools and demand response systems. Thus, all data are non-continuous between 1983 and 1984. Based on financial and statistical reports received by American Public Transit Association from transit systems representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1970, series Q 238-250*]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Operating systems	Number	1,079	947	1,044	1,035	1,036	1,036	4,938	4,972	5,018	5,047
Motorbus systems ¹	Number	1,075	941	1,040	1,030	1,031	1,031	2,604	2,631	2,655	2,671
Publicly owned systems ¹	Number	144	333	576	578	581	599	(NA)	1,435	(NA)	(NA)
Passenger vehicles owned ²	Number	61,428	62,261	71,018	72,098	73,388	73,813	95,899	96,652	95,926	96,225
Motorbuses ²	Number	49,700	50,811	59,411	60,393	62,114	62,093	63,551	57,309	61,546	61,381
Heavy rail ²	Number	9,286	9,556	9,641	9,749	9,815	9,891	9,083	9,326	10,386	10,168
Other electric ^{2,3}	Number	2,442	1,894	1,966	1,956	1,909	1,829	1,527	1,523	1,519	1,581
Suburban rail.....	Number	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	4,075	4,035	4,440	4,656
All other.....	Number	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	17,463	16,459	18,035	18,439
Total revenue	Mill. dol	(NA)	3,451	6,510	7,366	8,044	8,526	11,623	12,193	13,280	14,004
Passenger revenue.....	Mill. dol	1,639	1,861	2,557	2,701	3,077	3,172	4,448	4,574	4,992	5,171
Other operating revenue ⁴	Mill. dol	68	193	248	344	390	333	780	702	731	737
Operating assistance	Mill. dol	(NA)	1,408	3,705	4,321	4,587	5,023	6,395	6,917	7,557	8,056
Federal.....	Mill. dol	(NA)	302	1,094	1,095	1,005	827	936	939	932	935
State and local.....	Mill. dol	(NA)	1,106	2,611	3,226	3,582	4,195	5,399	5,978	6,625	7,161
Total expense	Mill. dol	1,996	3,752	6,711	7,823	8,314	8,736	12,957	13,852	14,875	16,022
Operating expense.....	Mill. dol	(NA)	3,537	6,246	7,024	7,553	7,956	11,574	12,334	12,992	14,012
Transportation.....	Mill. dol	(NA)	1,877	3,248	3,596	3,882	3,931	5,142	5,656	5,674	6,066
Maintenance.....	Mill. dol	(NA)	814	1,774	1,948	2,188	2,392	3,062	3,673	4,086	4,331
Administration.....	Mill. dol	(NA)	646	1,224	1,482	1,503	1,634	3,370	3,005	3,232	3,615
Reconciling expense.....	Mill. dol	(NA)	215	464	597	761	780	1,383	1,518	1,683	2,010
Capital expenditures, Federal	Mill. dol	(NA)	1,287	2,787	2,946	2,544	3,162	2,876	2,510	3,137	2,476
Vehicle-miles operated	Million	1,864	1,989	2,094	2,134	2,129	2,117	2,749	2,791	2,913	2,962
Motorbus.....	Million	1,403	1,526	1,677	1,685	1,669	1,678	1,845	1,863	1,895	1,927
Heavy rail.....	Million	407	423	385	420	428	408	436	451	476	490
Other electric ³	Million	68	40	32	29	31	31	32	33	33	34
Suburban rail.....	Million	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	168	183	189	189
All other.....	Million	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	268	261	320	322
Passengers carried ⁵	Million	7,361	6,388	8,249	7,978	7,755	7,903	8,851	8,659	8,802	8,766
Motorbus ⁵	Million	5,034	5,084	5,837	5,594	5,324	5,422	5,908	5,675	5,741	5,624
Heavy rail ⁵	Million	1,881	1,673	2,108	2,094	2,115	2,167	2,231	2,290	2,333	2,402
Other electric ^{5,6}	Million	446	231	304	290	316	314	329	303	299	301
Suburban rail.....	Million	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	267	275	306	311
All other.....	Million	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	116	116	123	128
Avg. revenue per passenger	Cents	22.4	26.7	31.0	33.9	39.7	40.2	50.3	52.8	56.7	58.8
Employees, number (avg.)	1,000	138	160	187	182	184	195	263	270	272	279
Payroll, employee	Mill. dol	1,274	2,236	3,281	3,494	3,731	3,921	5,486	5,843	6,111	6,582

NA Not available. ¹ Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. Beginning 1984, combined services also include suburban rail cars, urban ferry boats, vanpools, aerial tramways, automated guideways, and demand response vehicles. ² Beginning 1984, includes active vehicles only. ³ Includes light rail, trolley coach, cable car, inclined plane, aerial tramway, and automated guideways. ⁴ Includes other operating revenue, non-operating revenue, and auxiliary income. ⁵ Data for 1970 and 1975 not comparable with later years.

Source: American Public Transit Association, Washington, DC, *Transit Fact Book*, annual.

NO. 1049. HOUSEHOLD VEHICLES—ANNUAL MILEAGE, FUEL CONSUMPTION, AND FUEL EXPENDITURES: 1985

[See headnote, table 43]

HOUSEHOLD AND VEHICLE CHARACTERISTICS	NUMBER OF—			MILES DRIVEN		GALLONS CONSUMED		FUEL EXPENDITURES	
	Households (millions)	Vehicles (millions)	Vehicles per household	Total (billion)	Per cent	Total (billion)	Per cent	Total (bil. dol.)	Per cent
Total	77.7	137.3	1.8	1,363	100.0	83.9	100.0	99.1	100.0
Metropolitan status:									
Metropolitan.....	59.0	103.0	1.7	1,029	76.1	62.6	74.6	73.8	74.5
Nonmetropolitan.....	18.7	34.3	1.8	324	23.9	21.3	25.4	25.2	25.5
Origin of household: White	68.1	122.3	1.8	1,204	89.0	74.3	88.5	67.7	88.5
Black.....	7.2	11.0	1.5	112	8.3	7.4	8.9	8.8	8.8
Hispanic descent: Yes.....	3.5	6.0	1.7	58	4.3	3.6	4.3	4.3	4.3
No.....	74.3	131.3	1.8	1,295	95.7	80.3	95.7	94.8	95.7
Family income 1985:									
Less than \$5,000.....	3.7	4.4	1.2	34	2.5	2.4	2.8	2.8	2.8
\$5,000-\$9,999.....	9.7	12.5	1.3	98	7.2	6.7	8.0	7.8	7.9
\$10,000-\$14,999.....	10.7	15.8	1.5	149	11.0	9.8	11.7	11.5	11.8
\$15,000-\$19,999.....	9.7	15.8	1.6	141	10.4	8.0	10.7	10.5	10.6
\$20,000-\$24,999.....	9.5	16.9	1.8	165	12.2	10.4	12.3	12.2	12.3
\$25,000-\$34,999.....	14.7	28.2	1.9	289	21.4	17.8	21.3	21.0	21.9
\$35,000 or more.....	19.8	43.7	2.2	477	35.2	27.9	33.2	33.3	33.6
Type of vehicle:									
Automobile.....	(X)	106.6	(X)	1,059	78.3	61.7	73.5	73.4	74.1
Jeep-like vehicle.....	(X)	3.7	(X)	39	2.9	3.1	3.6	3.6	3.6
Van.....	(X)	4.7	(X)	49	3.6	3.7	4.4	4.3	4.4
Pickup truck.....	(X)	21.2	(X)	199	14.7	14.7	17.5	16.9	17.1

X Not applicable. Source: U.S. Energy Information Administration, *Residential Transportation Energy Consumption Survey: Consumption Patterns of Household Vehicles, 1985*.

NO. 1050. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1970 TO 1987

[Carriers subject to ICC regulations. See text, section 21. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Carriers reporting ¹	Number	71	77	45	48	45	50	45	43	43	29	32
Number of employees, average	1,000	34	31	27	31	31	30	25	25	24	20	(NA)
Compensation of employees	Mil. dol.	317	383	469	599	630	646	570	551	518	443	(NA)
Operating revenue	Mil. dol.	722	942	1,200	1,397	1,453	1,447	1,276	1,255	1,233	1,117	1,079
Passenger revenue ²	Mil. dol.	524	651	802	947	969	878	861	835	765	751	
Special bus revenue and other	Mil. dol.	198	291	398	215	202	229	180	180	184	155	165
Operating expenses	Mil. dol.	639	880	1,143	1,318	1,381	1,416	1,283	1,254	1,169	1,082	1,081
Net operating revenue	Mil. dol.	83	61	57	79	72	30	-7	1	65	35	-2
Ordinary income:												
Before income taxes	Mil. dol.	88	83	57	107	88	35	16	53	65	50	11
After income taxes	Mil. dol.	52	56	57	90	61	37	26	43	53	36	-21
Passenger vehicles in service ²	1,000	13.3	9.7	8.2	8.6	8.4	8.1	7.3	7.0	8.4	8.3	(NA)
Vehicle-miles, passenger	Million	871	835	754	781	732	717	591	585	567	495	(NA)
Revenue passengers carried	Million	174	147	122	134	114	112	94	89	88	74	82
Expense per vehicle-mile	Dollar	.73	1.05	1.52	1.69	1.89	1.98	2.17	2.14	2.06	2.18	(NA)

NA Not available. ¹ Excludes carriers preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers. ² Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, 1970, *Transport Statistics in the United States*, Part 7, and 1975-1987, Part 2, annual.

NO. 1051. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1970 TO 1987

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Operating companies	Number	1,000	950	1,200	1,330	1,470	1,520	(NA)	(NA)	(NA)	(NA)	3,550
Buses	1,000	22.0	20.5	21.3	21.4	21.7	20.9	20.4	20.1	20.1	19.1	18.4
Miles of highway served (Dec. 31) ¹	1,000	267	274	280	279	276	273	270	266	263	257	249
Employees (Dec. 31) ²	1,000	50	47	48	49	50	48	45	44	43	41	39
Bus miles, total	Million	1,209	1,126	1,153	1,162	1,151	1,115	1,027	1,016	997	945	914
Revenue passengers	Million	401	351	368	370	370	359	352	352	353	346	333
Charter and tour passengers	Million	92	145	185	195	204	206	209	(NA)	(NA)	(NA)	(NA)
Revenue passenger-miles	Billion	25.3	25.4	27.7	27.4	268	27.3	25.4	35.2	23.8	22.5	21.9
Operating revenue, all services	Mil. dol.	901	1,172	1,664	1,943	2,097	2,070	1,953	1,914	1,898	1,838	1,717
Operating expenses	Mil. dol.	812	1,103	1,572	1,911	1,982	2,013	1,938	1,896	1,839	1,787	1,669
Net operating revenue ³	Mil. dol.	89	69	92	132	115	57	15	18	59	51	48

NA Not available. ¹ Includes duplication between carriers. ² Operating companies only. ³ Before income taxes.

Source: American Bus Association, Washington, DC, *Bus Facts*, annual; and *Annual Report*.

NO. 1052. WAREHOUSING SERVICES—REVENUES, EXPENSES, AND PAYROLL: 1985 TO 1987

[In millions of dollars]

SIC ¹ code	KIND OF BUSINESS	OPERATING REVENUES			OPERATING EXPENSES			ANNUAL PAYROLL		
		1985	1986	1987	1985	1986	1987	1985	1986	1987
42	Motor freight transportation and warehousing services ²	86,842	91,544	97,684	82,855	85,472	92,608	26,973	27,798	29,790
421	Trucking, local and long distance	82,212	86,614	92,494	78,819	81,193	88,142	25,576	26,305	28,257
422	Public warehousing	4,415	4,750	4,911	3,847	4,131	4,211	1,322	1,433	1,422
4221	Farm product warehousing and storage	518	(D)	817	457	(D)	510	(D)	(D)	(D)
4222	Refrigerated warehousing	1,007	1,135	1,231	872	999	1,017	313	349	343
4224	Household goods warehousing, storage	233	298	251	200	187	196	53	54	58
4225, 6	General warehousing and storage and special warehousing and storage not elsewhere classified	2,657	2,856	2,812	2,319	2,500	2,488	811	884	862

D Data do not meet publication standards because of high sampling error or high imputation rate. ¹ Standard Industrial Classification. ² Includes SIC 4231 not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports, 1987 Motor Freight Transportation and Warehousing Survey*.

NO. 1053. TRUCKING COSTS AND RATES FOR FRESH FRUIT AND VEGETABLES: 1980 TO 1988

[Dollars per box, except as indicated]

SELECTED ITEMS	1980	1981	1982	1983	1984	1985	1986	1987	1988
Truck costs for fleet operators ¹ (dollars per mile)	.965	1.082	1.112	1.127	1.153	1.167	1.136	1.165	1.184
Truck rates by commodity and origin/destination: ²									
Lettuce ³ , California to New York City	3.36	3.45	3.62	3.62	3.65	3.62	3.75	3.83	3.69
Citrus and vegetables, Southern California to New York City	2.77	2.77	2.91	2.98	3.18	3.06	3.16	3.23	3.14
Apples, Washington to New York City	3.09	3.25	3.20	3.41	3.19	3.20	3.21	3.28	3.30

¹ Truck costs developed by Office of Transportation, USDA. ² Average rates reported by Agricultural Marketing Service, Market News Service, USDA, for the first week of the month. ³ January to April: Imperial Valley, California to New York City; May to December: Salinas, California, to New York City.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review*, 1987.

Trucking Services—Intercity Motor Carriers

613

No. 1054. TRUCKING SERVICES—OPERATING REVENUES, OPERATING EXPENSES, AND EQUIPMENT, BY TYPE OF CARRIER: 1985 TO 1987

[In millions of dollars, except as indicated. Data cover SIC group 421. Estimates include both regulated and nonregulated carriers; excluded are non-employers (i.e., firms with no paid employees) and private fleets operated as auxiliary establishments to nontransportation companies. Some unpublished estimates may be derived from this table by subtraction, but such figures are subject to high sampling variability and should be used with caution.]

ITEM	ALL CARRIERS			SPECIALTY FREIGHT CARRIERS			GENERAL FREIGHT CARRIERS		
	1985	1986	1987	1985	1986	1987	1985	1986	1987
Operating revenues:									
Total ¹	82,212	86,614	92,494	28,807	31,287	33,202	53,405	55,328	59,293
Motor carrier.....	76,996	80,699	86,801	25,531	27,186	29,308	51,465	53,513	57,493
Local trucking.....	16,809	15,634	18,603	8,598	9,452	10,854	6,011	6,182	7,749
Intercity trucking.....	60,387	65,065	68,198	16,933	17,734	18,454	43,454	47,330	49,744
Operating expenses:									
Total.....	78,819	81,193	88,142	27,348	29,601	31,438	51,471	51,592	56,703
Annual payroll.....	25,576	26,305	28,257	7,274	7,571	8,089	18,303	18,734	20,168
Employer contributions to Social Security and other supplemental labor benefits.....	5,851	5,940	6,480	1,367	1,459	1,582	4,484	4,481	4,898
Purchased fuels.....	6,414	5,244	5,676	2,059	1,678	1,894	4,354	3,566	3,782
Cost of purchased transportation.....	(NA)	19,097	19,901	(NA)	8,715	8,448	(NA)	10,381	11,454
Lease and rental payments.....	1,235	1,520	1,679	474	644	735	761	876	945
Cost of insurance.....	(NA)	3,053	3,513	(NA)	1,223	1,454	(NA)	1,830	2,059
Maintenance and repair costs.....	(NA)	4,374	4,728	(NA)	1,774	1,901	(NA)	2,600	2,827
Depreciation.....	3,941	4,157	4,585	1,500	1,573	1,821	2,441	2,584	2,764
Taxes and licenses.....	1,832	1,829	1,867	582	597	699	1,250	1,233	1,169
Other.....	(NA)	9,674	11,455	(NA)	4,367	4,817	(NA)	5,308	6,638
Equipment (1,000 units):²									
Trucks.....	216	201	226	(S)	77	89	(S)	124	137
Truck-tractors.....	469	461	502	167	165	167	302	295	334
Trailers, full and semi.....	1,011	1,055	1,164	246	254	312	765	801	852

NA Not available. S Data do not meet publication standards. ¹Includes other revenues not shown separately. ²Represents revenue generating freight equipment as of December 31. Includes owned and leased equipment.

Source: U.S. Bureau of the Census, *Current Business Reports, 1987 Motor Freight Transportation and Warehousing Survey*.

No. 1055. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY, BY CARRIER: 1975 TO 1987

[See headnote, table 1050. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (-) indicates loss]

ITEM	Unit	1975	1980	1985	1987	1975	1980	1985	1987
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting.....	Number.....	368	298	237	200	330	441	397	399
Number of employees, average.....	1,000.....	379	413	376	405	34	101	76	83
Compensation of employees.....	Mil. dol.....	5,726	9,803	10,217	11,208	1,046	1,931	1,793	1,961
Operating revenues.....	Mil. dol.....	11,116	19,725	22,314	23,087	3,907	8,792	7,962	8,047
Intercity freight.....	Mil. dol.....	10,511	19,480	22,080	22,896	3,717	8,339	7,664	7,748
Operating expenses.....	Mil. dol.....	10,571	18,870	21,037	22,326	3,758	8,426	7,752	7,835
Ordinary income before taxes.....	Mil. dol.....	432	701	1,198	647	109	230	123	129
Net income.....	Mil. dol.....	225	-72	658	406	65	14	94	97
Total power units, intercity service.....	1,000.....	78	102	108	112	69	95	77	74
Trucks, tractors owned in operation, avg.....	1,000.....	49	73	82	90	25	33	29	29
Intercity vehicle-miles.....	Million.....	6,246	6,547	5,760	5,524	4,776	6,889	5,714	5,761
Tons of intercity revenue freight carried.....	Million.....	191	178	136	129	264	324	303	295
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting.....	Number.....	50	69	64	64	32	28	40	37
Number of employees, average.....	1,000.....	10	14	22	20	4	10	11	11
Compensation of employees.....	Mil. dol.....	175	336	630	561	70	157	240	247
Operating revenues.....	Mil. dol.....	453	1,272	1,942	1,922	866	1,824	2,684	2,931
Intercity freight.....	Mil. dol.....	411	1,172	1,792	1,738	765	1,676	2,388	2,591
Operating expenses.....	Mil. dol.....	432	1,207	1,807	1,633	849	1,781	2,635	2,862
Ordinary income before taxes.....	Mil. dol.....	17	48	69	59	32	74	79	74
Net income.....	Mil. dol.....	9	28	69	38	18	42	54	57
Total power units, intercity service.....	1,000.....	8	13	16	17	18	25	35	35
Trucks, tractors owned in operation, avg.....	1,000.....	5	7	11	8	(2)	1	1	1
Intercity vehicle-miles.....	Million.....	454	934	1,227	1,304	688	969	1,171	1,234
Tons of intercity revenue freight carried.....	Million.....	21	37	41	41	3	5	7	8

Z Less than 500.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, part 2, annual.

No. 1056. TRUCKS—PERCENT DISTRIBUTION, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1967 TO 1982

[See headnote, table 1057]

CHARACTERISTIC	1967	1972	1977	1982	CHARACTERISTIC	1967	1972	1977	1982
Total	100.0	100.0	100.0	100.0	Vehicle acquisition:				
Major use:					Purchased new.....	50.3	50.5	47.6	45.7
Agriculture ¹	25.1	22.6	17.0	12.2	Purchased used.....	47.9	47.8	50.0	51.5
Construction.....	9.3	8.6	6.7	11.2	Leased ²	1.8	1.9	2.4	2.8
Manufacturing.....	2.4	2.3	1.4	1.7	Fleet size: ³	53.3	61.9	71.6	77.8
Wholesale and retail trade.....	12.2	9.5	7.6	6.8	2 to 5.....	19.2	22.0	16.3	10.9
Personal transportation.....	33.6	41.2	54.4	56.7	6 to 19.....	8.7	8.8	6.6	5.3
All other.....	17.4	16.2	13.0	11.4	20 or more.....	7.5	7.6	5.5	6.0
Body type:					Truck-type:				
Pickup, panel, multi-stop, or walk-in.....	70.3	73.3	84.5	86.4	Single-unit.....	⁴ 83.4	95.4	96.8	95.7
Platform ²	14.2	12.7	6.8	5.1	Combination.....	⁴ 16.6	4.7	3.2	4.3
Van ³	5.5	5.9	3.4	3.2	Annual miles:				
All other.....	10.0	9.1	5.5	5.3	Less than 5,000.....	⁵ 36.2	23.4	23.9	26.0
Vehicle size: ⁴ Light.....	73.6	74.0	85.4	89.3	5,000 to 9,999.....	⁵ 19.8	28.1	24.0	25.5
Medium.....	13.6	14.3	6.0	3.5	10,000 to 19,999.....	30.7	33.5	37.0	35.0
Light-heavy.....	5.2	4.2	3.1	2.4	20,000 to 29,999.....	6.9	8.4	9.2	8.4
Heavy-heavy.....	7.6	7.6	5.5	4.8	30,000 miles or more.....	6.4	6.8	5.9	5.0
Year model:					Range of operation: ⁶				
1 to 2 years old.....	16.5	14.8	17.1	8.9	Local.....	79.0	81.3	84.8	76.6
3 to 4 years old.....	18.7	18.9	17.5	16.5	Short-range ⁹	13.2	8.7	8.4	10.3
4 years or more.....	64.8	66.6	65.4	74.6	Long-range ¹⁰	4.9	2.4	2.1	3.1
					Off-the-road ⁵	2.9	7.6	4.7	10.0
					Fuel type: ⁶				
					Gasoline.....	86.2	87.9	96.0	94.3
					Diesel and LPG.....	10.9	4.4	3.9	5.5
					Not reported.....	2.9	7.9	-	.2

- Represents zero. ¹ Includes forestry and lumbering. ² Includes cattlerack. ³ See footnote 3, table 1057. ⁴ See footnote 4, table 1057. ⁵ Includes not reported. ⁶ Excludes panels and pickups. ⁷ Annual miles were imputed, if not reported. ⁸ Survey data were presented for "Less than 6,000 miles" and "6,000 to 9,999 miles." ⁹ Less than 201 miles. ¹⁰ 201 miles or more.

No. 1057. TRUCKS AND TRUCK-MILES, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1982

[Data are based on a stratified probability sample of trucks drawn from current registrations on file with motor vehicle departments in the 50 States and DC]

ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)		ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)	
	Total	Excluding pickups, panels	Total	Excluding pickups, panels		Total	Excluding pickups, panels	Total	Excluding pickups, panels
Total	33,835	4,802	377.3	87.6	Range of operation:				
Major use:					Local.....	25,902	3,073	260.2	35.0
Agriculture ¹	4,121	1,213	39.3	9.9	Short-range ²	3,498	682	59.5	22.5
Construction.....	3,795	841	49.3	10.1	Long-range ³	1,039	358	35.3	26.4
Manufacturing.....	556	254	11.9	7.7	Off-the-road ⁴	3,396	691	22.3	3.6
Wholesale and retail trade.....	2,316	844	39.5	17.6	Products carried:				
Personal transportation.....	19,188	1,72	167.4	.8	Farm products.....	1,626	811	16.2	8.5
All other.....	3,858	1,480	69.8	41.6	Building materials.....	991	552	13.9	9.0
Body type:					Mixed cargoes.....	675	297	18.3	12.1
Pickup, panel, multi-stop, or walk-in.....	29,245	214	292.4	2.7	Craftsman's equipment.....	2,914	421	38.4	4.5
Platform ²	1,738	1,738	20.2	20.2	Personal transportation.....	19,202	176	167.4	.8
Van ³	1,086	1,086	37.9	37.9	All other.....	8,425	2,546	123.2	52.7
All other.....	1,763	1,763	26.8	26.8	Hazardous materials carried:				
Vehicle size: ⁴ Light.....	30,223	1,348	299.5	11.8	Less than 25 percent of time.....	461	363	16.2	14.7
Medium.....	1,195	1,053	11.3	9.5	25 to 49 percent of time.....	244	190	10.3	9.4
Light-heavy.....	796	793	7.6	7.4	50 to 74 percent of time.....	117	77	3.0	2.4
Heavy-heavy.....	1,621	1,619	58.9	58.9	75 to 100 percent of time.....	20	18	.8	.7
Year model:					Types of hazardous material: ⁵				
1 to 2 years old.....	3,024	307	57.1	12.4	Flammables or combustibles.....	361	309	13.6	12.7
3 to 4 years old.....	5,585	663	86.5	22.4	Acids, poisons, caustics, etc.....	167	148	7.6	7.4
4 years or more.....	25,225	3,832	233.7	52.7	Explosives.....	35	30	1.4	1.3
Vehicle acquisition:					Radioactive materials.....	47	30	1.9	1.6
Purchased new.....	15,448	2,292	208.3	54.1	Hazardous waste.....	24	23	1.2	1.1
Purchased used.....	17,438	2,212	152.4	24.6	All other.....	36	32	1.5	1.4
Leased ⁶	949	298	16.6	8.8	Not reported.....	9	3	.1	(z)
Fleet size: ⁷	26,333	1,665	253.4	20.1					
2 to 5.....	3,697	1,089	43.4	12.8					
6 to 19.....	1,784	836	29.8	16.0					
20 or more.....	2,021	1,202	50.7	38.7					
Truck type:									
Single-unit.....	32,385	3,731	321.8	36.3					
Combination.....	1,449	1,071	55.5	51.3					

¹ Less than 50 million. ² Includes forestry and lumbering. ³ includes cattlerack. ⁴ Vans similar to panel trucks are included in panel. ⁵ Average operating weight (empty-weight of the vehicle plus the average load carried). Light-10,000 lbs. or less; medium-10,001-19,500 lbs.; light-heavy=19,501-26,000 lbs.; and heavy-heavy=26,001 lbs. or more. ⁶ Includes not reported. ⁷ Less than 201 miles. ⁸ 201 miles or more. ⁹ Detail does not add to totals because items were not applicable or multiple responses were possible.

No. 1058. RAILROADS, CLASS I—SUMMARY: 1970 TO 1988

[As of Dec. 31, or calendar year data, except as noted. Compiled from annual reports of class I railroads only, except where noted. Beginning 1983, financial data are not comparable with earlier years due to change in method of accounting for track and related structures. Minus sign (–) indicates deficit. See also *Historical Statistics, Colonial Times to 1970*, series Q 284–312, Q 319, Q 330, Q 356–378, and Q 400–401]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988
Class I line-hauling companies¹	Number	71	39	33	32	29	23	22	18	17
Employees²	1,000	566	480	397	342	344	302	276	249	236
Compensation	Mil. dol.	5,711	11,318	11,021	10,345	11,004	10,563	9,900	9,373	9,301
Average per hour	Dollars	4.14	10.21	12.26	13.29	13.84	14.30	14.75	15.11	15.64
Average per year	Dollars	10,086	24,659	29,087	32,125	34,064	34,991	35,894	37,716	39,431
Mileage:										
Railroad line owned ³	1,000	206	179	165	161	157	155	154	152	150
Railroad track owned ⁴	1,000	336	290	275	270	264	257	256	254	251
Equipment:										
Locomotives in service	Number	27,086	28,396	27,073	25,838	24,506	22,932	21,045	19,623	19,645
Average horsepower	1,000 lb.	1,926	2,302	2,341	2,364	2,415	2,469	2,531	2,554	2,579
Cars in service:										
Passenger-train	Number	11,177	4,347	3,736	2,610	2,580	2,502	2,307	2,350	2,332
Freight train ⁵	1,000	1,784	1,711	1,588	1,543	1,486	1,422	1,339	1,288	1,239
Freight cars ⁷	1,000	1,454	1,168	1,039	1,007	948	867	799	749	725
Average capacity ⁷	Tons	67.1	78.5	81.6	82.4	83.4	83.2	84.1	85.0	86.0
Aggregate capacity ⁷	Mil. tons	95.6	92.7	84.8	83.0	80.0	72.2	67.2	63.6	55.9
Box ⁷	1,000	590	347	278	271	245	216	180	163	144
Gondola and hopper ⁷	1,000	724	636	594	577	552	505	473	445	405
Other ⁷	1,000	140	185	167	159	151	145	146	141	97
Income and expenses:										
Operating revenues	Mil. dol.	11,992	28,258	27,504	26,729	29,453	27,586	26,204	26,622	27,934
Operating expenses	Mil. dol.	11,478	26,355	26,490	24,106	25,800	25,225	24,896	23,878	24,811
Net revenue from operations	Mil. dol.	514	1,902	1,013	2,623	3,653	2,361	1,308	2,744	3,123
Income before fixed charges	Mil. dol.	984	2,897	2,465	3,608	4,893	3,393	2,480	3,932	4,480
Provision for taxes ⁸	Mil. dol.	88	592	340	85	1,185	660	163	1,051	1,162
Ordinary income	Mil. dol.	227	1,129	1,152	1,778	2,654	1,788	747	1,965	2,285
Net income	Mil. dol.	227	1,129	1,152	1,797	2,701	1,882	544	2,055	2,382
Net railway operating income	Mil. dol.	486	1,339	742	1,838	2,537	1,746	507	1,756	1,980
Total taxes ⁹	Mil. dol.	1,069	2,585	2,628	3,014	3,605	3,169	2,728	3,553	3,871
Industry return on net investment	Percent	1.7	4.2	2.1	4.3	5.7	5.8	4.9	5.6	(NA)
Gross capital expenditures	Mil. dol.	1,351	3,238	2,168	2,985	4,121	4,485	3,645	3,076	3,546
Equipment	Mil. dol.	993	2,280	848	455	806	965	693	657	1,027
Roadway and structures	Mil. dol.	358	953	1,318	2,306	2,938	3,458	2,908	2,314	2,654
Other ¹⁰	Mil. dol.	–	5	2	224	377	62	44	105	–135
Balance sheet:										
Total property investment	Mil. dol.	38,213	43,923	47,311	62,964	63,471	64,241	64,781	66,760	68,550
Accrued depreciation and amortization	Mil. dol.	10,027	10,706	12,051	19,480	20,098	19,756	20,940	21,070	21,497
Net investment	Mil. dol.	28,186	33,217	35,260	43,483	45,435	46,237	45,344	45,890	47,053
Shareholder's equity	Mil. dol.	17,323	19,860	21,349	26,461	27,986	27,605	25,442	25,616	26,467
Net working capital	Mil. dol.	–59	897	1,372	1,325	1,844	1,084	743	1,241	–190
Cash dividends	Mil. dol.	421	610	1,038	1,085	1,066	1,444	1,376	1,252	1,814
AMTRAK passenger traffic:										
Passenger revenue	Mil. dol.	(NA)	(NA)	465.1	515.3	556.7	604.9	633.6	681.1	784.2
Revenue passengers carried	1,000	(NA)	(NA)	18,725	19,469	20,065	20,845	20,165	20,727	21,490
Revenue passenger miles	Million	(NA)	(NA)	4,122	4,343	4,566	4,977	5,015	5,368	5,686
Averages:										
Revenue per passenger	Dollars	(NA)	(NA)	24.80	26.39	28.23	28.88	31.42	32.85	36.49
Revenue per passenger mile	Cents	(NA)	(NA)	11.26	11.83	12.43	12.15	12.63	12.68	13.79
Trip per passenger	Miles	(NA)	(NA)	220.1	223.1	227.6	237.6	248.7	259.0	264.6
Freight service:										
Freight revenue	Mil. dol.	10,922	26,200	25,627	25,835	28,472	26,688	25,344	25,797	27,092
Per ton-mile	Cents	1.43	2.83	3.21	3.20	3.08	3.04	2.92	2.73	2.72
Per ton originated	Dollar	7.67	18.05	20.89	20.66	20.89	21.39	20.82	20.15	20.66
Revenue-tons originated	Million	1,485	1,492	1,269	1,293	1,429	1,320	1,087	1,372	1,430
Revenue-tons carried	Million	2,616	2,434	1,979	1,932	2,119	1,985	1,938	1,984	2,045
Tons carried one mile	Billion	765	919	798	827	922	877	868	944	1,996
Average miles of road operated	1,000	209	179	174	170	165	161	155	147	141
Revenue ton-miles per mile of road	1,000	3,652	5,133	4,802	4,876	5,578	5,446	5,587	6,395	7,052
Revenue per ton-mile	Cents	1.48	2.852	3.212	3.119	3.043	3.043	2.921	2.793	2.720
Train miles	Million	427	428	345	346	369	347	347	361	379
Net ton-miles per train-mile ¹⁰	Number	1,820	2,175	2,345	2,432	2,543	2,574	2,552	2,644	2,662
Net ton-miles per loaded car-mile ¹⁰	Number	44.9	63.5	68.3	61.2	62.4	62.7	63.2	64.0	65.5
Train-miles per train-hour	Miles	20.1	18.2	21.4	20.3	21.9	21.9	22.5	22.2	21.5
Haul per ton, U.S. as a system	Miles	515	616	629	641	645	684	664	688	697
Accident:¹¹										
Persons killed	Number	2,255	1,417	1,119	1,073	1,247	1,036	1,091	1,165	1,195
Persons injured	Number	21,327	62,246	40,275	34,816	38,570	34,304	26,923	26,033	26,933

– Represents zero. NA Not available. ¹ See text, section 21 for definition of class I. ² Average mid-month count. ³ Represents the aggregate length of roadway of all line-haul railroads. Excludes yard tracks, sidings, and parallel lines. (Includes estimate for class II and III railroads.) ⁴ Includes multiple main tracks, yard tracks, and sidings owned by both line-haul and switching and terminal. (Includes estimate for class II and III railroads.) ⁵ Excludes Long Island Railroad, which was reclassified. ⁶ Includes cars owned by all railroads, private car companies, and shippers. ⁷ Class I railroads only. ⁸ Includes State income taxes beginning 1980. ⁹ Includes payroll, income, and other taxes. ¹⁰ Revenue and non-revenue freight. ¹¹ Includes highway grade crossing casualties. 1970 not comparable with later years due to change in requirements for reporting injuries.

Source: Association of American Railroads, Washington, DC, *Yearbook of Railroad Facts, Statistics of Railroads of Class I, annual*, and *Analysis of Class I Railroads*, annual. Accident data: U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

NO. 1059. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1960 TO 1988, AND BY COMMODITY GROUP, 1987 AND 1988

[In thousands. Figures are 52-week totals. N.e.c.=Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1987	1988		1987	1988
1960.....	30,441	554	Coal.....	6,007	6,254	Crushed stone, gravel, sand.....	777	845
1970.....	27,160	1,450	Metallic ores.....	856	983	Nonmetallic minerals, n.e.c.....	489	535
1975.....	23,217	1,308	Chemicals, allied products.....	1,372	1,443	Waste and scrap materials.....	456	491
1980.....	22,598	1,661	Grain.....	1,515	1,590	Lumber, wood products (exc. furniture), n.e.c.....	420	391
1981.....	21,613	1,723	Motor vehicles and equipment.....	983	1,042	Forwarder/shipper assoc. traffic.....	143	125
1982.....	18,498	1,920	Pulp, paper, allied products.....	649	638	Coke.....	262	297
1983.....	18,615	2,348	Primary forest products.....	544	512	Petroleum product.....	250	266
1984.....	20,257	2,703	Food and kindred prod., n.e.c.....	568	573	Farm products, exc. grain.....	204	188
1985.....	19,574	2,863	Grain mill products.....	586	558	Less than car load.....	5	5
1986.....	19,783	3,279	Metals and products.....	482	487	All other carloads.....	4,041	4,302
1987.....	21,133	3,294	Stone, clay, and glass products.....	545	563			
1988.....	22,140	3,321						

Source: Association of American Railroads, Washington, DC, *Cars of Revenue Freight Loaded*, annual.

NO. 1060. RAILROADS, CLASS I LINE-HAUL—REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP: 1970 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series Q 332, for total carloads originated]

COMMODITY GROUP	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Carloads¹ (1,000).....	27,015	22,930	22,223	21,343	18,585	19,013	20,946	19,501	19,587	20,602	21,600
Coal.....	5,296	4,844	5,789	5,835	5,718	5,276	6,061	5,684	5,433	5,430	5,621
Farm products.....	2,374	1,873	1,866	1,837	1,586	1,642	1,787	1,494	1,602	1,907	1,177
Food and kindred products.....	2,706	2,154	1,787	1,557	1,341	1,316	1,234	1,224	1,276	1,326	1,318
Metallic ores.....	1,802	1,338	1,258	1,354	761	812	1,001	511	508	494	582
Chemicals, allied products.....	1,576	1,313	1,322	1,322	1,120	1,216	1,312	1,296	1,287	1,410	1,485
Nonmetallic minerals ²	2,204	1,896	1,474	1,272	958	1,079	1,204	1,196	1,113	1,188	1,290
Lumber and wood products ³	2,048	1,615	1,384	1,254	1,002	1,075	1,051	948	965	986	910
Transportation equipment.....	1,059	1,135	1,004	939	801	954	1,141	1,202	1,148	1,085	1,160
Pulp, paper, allied products.....	1,197	1,015	954	899	765	746	741	703	672	561	646
Primary metal products.....	1,486	786	756	760	459	440	487	449	389	428	479
Stone, clay, and glass products.....	1,231	906	776	690	516	543	576	551	530	559	577
Waste and scrap materials.....	805	744	632	610	409	417	480	429	402	440	471
Petroleum and coal products.....	699	787	595	607	467	495	529	491	477	520	568
Machinery, exc. electrical.....	200	156	77	66	43	38	40	35	31	33	40
Fabricated metal products ⁴	398	244	72	55	36	33	37	31	26	24	26
Tons¹ (mil.).....	1,484.9	1,395.1	1,492.4	1,453.0	1,298.6	1,292.6	1,429.4	1,319.8	1,305.8	1,372.2	1,429.4
Coal.....	404.6	407.6	522.1	527.6	523.8	493.6	566.6	538.0	517.5	523.3	542.8
Farm products.....	194.2	134.4	156.1	139.9	133.5	142.2	151.1	127.0	136.4	162.9	169.6
Food and kindred products.....	110.1	100.2	91.9	82.8	77.0	75.2	72.1	73.5	78.3	81.4	81.0
Metallic ores.....	126.7	106.4	105.4	113.8	62.6	68.4	85.5	46.9	46.4	44.9	51.9
Chemicals, allied products.....	91.6	91.4	108.3	105.9	91.2	99.3	107.4	106.4	105.6	115.9	123.3
Nonmetallic minerals ²	163.3	150.6	124.8	110.0	84.7	96.5	106.2	107.7	101.2	109.4	114.5
Lumber and wood products ³	101.9	88.6	85.5	80.3	65.9	71.7	69.8	63.2	64.9	66.8	62.0
Transportation equipment.....	24.2	27.3	23.9	22.2	18.8	22.2	26.1	27.2	25.9	23.9	24.8
Pulp, paper, allied products.....	42.5	40.6	42.1	41.6	36.4	36.5	37.7	36.2	35.6	35.9	34.7
Primary metal products.....	92.2	51.4	52.7	53.3	32.0	32.0	36.1	33.6	29.7	33.4	37.8
Stone, clay, and glass products.....	71.1	56.8	53.7	49.2	38.2	41.6	44.7	43.5	42.1	44.3	46.2
Waste and scrap materials.....	39.8	38.2	34.3	34.1	22.7	24.5	28.8	25.7	25.0	28.2	30.2
Petroleum and coal products.....	36.3	45.8	38.1	39.0	31.6	33.6	35.3	32.9	32.8	34.9	38.6
Machinery, exc. electrical.....	4.6	3.6	2.0	1.7	1.2	.8	.9	.9	.8	.8	.9
Fabricated metal products ⁴	11.3	8.2	2.0	1.7	1.0	.8	.9	.8	.7	.6	.7
Gross revenue¹ (mil. dol.).....	11,388	15,899	26,938	29,590	26,504	26,710	29,866	28,225	27,186	27,657	29,529
Coal.....	1,381	2,146	4,956	5,977	6,307	5,989	6,965	6,556	6,089	6,097	6,430
Farm products.....	1,068	1,472	2,801	2,621	2,305	2,374	2,483	1,977	2,007	2,246	2,534
Food and kindred products.....	1,363	1,822	2,837	2,928	2,604	2,349	2,309	2,256	2,192	2,171	2,198
Metallic ores.....	333	468	597	723	403	450	567	403	375	348	415
Chemicals, allied products.....	1,137	1,681	2,946	3,288	2,942	3,078	3,360	3,342	3,342	3,477	3,785
Nonmetallic minerals ²	409	596	948	1,036	852	834	937	849	839	954	890
Lumber and wood products ³	852	1,066	1,543	1,559	1,303	1,527	1,611	1,525	1,583	1,660	1,626
Transportation equipment.....	734	1,283	1,917	2,120	1,366	2,292	2,859	3,110	2,997	2,866	3,218
Pulp, paper, allied products.....	730	977	1,652	1,848	1,717	1,871	1,762	1,641	1,572	1,542	1,540
Primary metal products.....	813	848	1,332	1,559	977	816	955	872	787	863	1,013
Stone, clay, and glass products.....	512	651	1,025	1,114	888	908	1,024	960	907	914	965
Waste and scrap materials.....	232	359	513	573	418	423	496	446	425	474	526
Petroleum and coal products.....	305	573	865	1,019	887	844	913	861	800	809	903
Machinery, exc. electrical.....	148	200	178	176	115	75	81	72	58	57	63
Fabricated metal products ⁴	210	221	110	105	71	52	57	48	40	37	38

¹ Includes commodity groups and small packaged freight shipments, not shown separately.

² Except fuels.

³ Except furniture.

⁴ Except ordinance, machinery, and transport.

Source: 1970-1975, U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; thereafter, Association of American Railroads, Washington, DC, *Freight Commodity Statistics*, annual.

Railroad Freight—Petroleum and Natural Gas Pipeline Companies 617

NO. 1061. RAILROAD FREIGHT—PRODUCER PRICE INDEXES: 1970 TO 1988

[Dec. 1984=100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total railroad freight	29.1	45.3	65.0	75.9	87.4	93.7	95.0	99.3	99.9	100.7	100.1	104.8
Annual percent change ¹	8.8	13.2	14.2	16.8	15.2	7.2	1.4	4.5	.6	.8	-.6	4.7
Coal.....	26.9	44.0	65.9	75.8	86.9	95.4	96.5	99.9	100.0	100.7	100.1	104.3
Farm products.....	29.7	45.2	64.6	75.6	86.3	92.4	94.0	98.7	99.0	99.6	99.3	105.5
Food products.....	28.9	44.8	63.5	75.2	87.4	93.7	94.8	99.1	100.0	99.9	98.6	103.1
Metallic ores.....	26.4	43.2	63.8	74.5	86.1	93.9	95.9	99.4	100.2	100.5	99.0	103.9
Chemicals or allied products.....	30.0	46.5	64.9	75.6	87.1	93.5	94.3	98.7	100.1	101.2	100.8	106.9
Nonmetallic minerals.....	25.4	40.5	60.6	72.2	86.4	93.3	94.6	98.9	100.1	101.6	101.1	106.1
Wood or lumber products.....	28.3	42.8	61.0	72.7	85.2	91.4	93.3	98.7	100.0	100.9	100.4	105.3
Transportation equipment.....	31.7	50.3	71.5	81.7	91.6	94.5	95.6	99.8	100.0	100.8	99.3	103.4
Pulp, paper, or allied products.....	31.5	47.1	64.7	76.7	88.5	94.7	95.6	99.9	100.0	101.0	100.6	104.0
Primary metal products.....	29.9	47.8	67.5	77.8	88.5	94.3	95.4	99.7	99.7	100.2	99.7	108.8
Clay, concrete, glass, or stone products.....	26.9	43.0	62.8	74.2	86.5	93.4	94.4	98.8	100.0	102.2	102.2	107.5

¹ Change from prior year.

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

NO. 1062. PETROLEUM PIPELINE COMPANIES—CHARACTERISTICS: 1975 TO 1987

[1975, covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission; thereafter, Federal Energy Regulatory Commission]

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Miles of pipeline, total.....	1,000.....	170.7	161.6	169.8	172.7	172.8	172.5	167.8	173.9	171.4	170.0	167.9
Gathering lines.....	1,000.....	49.4	56.5	56.3	56.3	56.6	35.6	31.0	36.1	35.0	34.2	35.1
Trunk lines.....	1,000.....	130.3	125.1	132.9	136.4	134.2	136.9	136.9	137.9	136.4	135.8	132.8
Total deliveries.....	Mil. bbl.....	9,991	10,768	11,140	10,600	10,223	10,181	10,310	10,224	10,745	11,002	11,194
Crude oil.....	Mil. bbl.....	5,729	6,550	6,728	6,405	6,070	5,968	6,020	5,671	6,239	6,286	6,278
Products.....	Mil. bbl.....	3,662	4,218	4,412	4,195	4,153	4,213	4,289	4,552	4,506	4,716	4,917
Total trunk line traffic.....	Bil. bbl-miles..	2,892	3,723	3,577	3,405	3,554	3,442	3,328	3,406	3,342	3,467	3,524
Crude oil.....	Bil. bbl-miles..	1,551	2,031	1,946	1,948	1,813	1,938	1,875	1,855	1,842	1,893	1,932
Products.....	Bil. bbl-miles..	1,341	1,691	1,631	1,458	1,740	1,484	1,452	1,551	1,500	1,573	1,592
Carrier property value.....	Mil. dol.....	10,740	17,854	18,990	19,752	21,250	21,942	22,255	19,397	21,605	22,384	21,353
Operating revenues.....	Mil. dol.....	1,869	4,990	5,781	6,356	6,678	7,140	7,472	7,824	7,461	7,287	7,057
Net income.....	Mil. dol.....	456	1,696	1,648	1,912	2,031	2,162	2,353	2,545	2,431	2,051	2,475

Source: PennWell Publishing Co., Tulsa, OK, *Oil and Gas Journal*, November 28, 1988, and earlier issues. (Copyright.)

NO. 1063. MAJOR INTERSTATE NATURAL GAS PIPELINE COMPANIES—SUMMARY: 1980 TO 1987

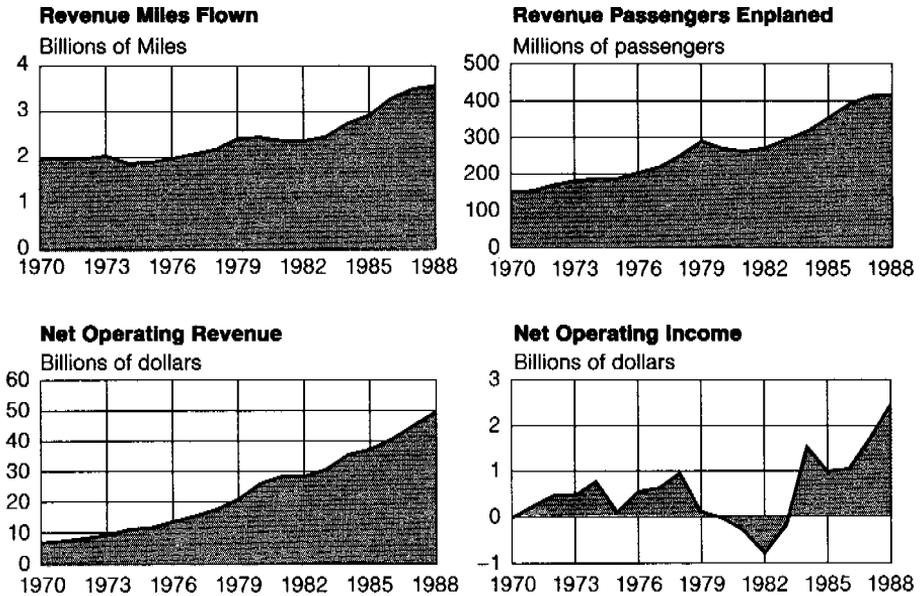
[In 1984, the reporting criteria were changed from that of prior years. The classification of A and B interstate natural gas pipeline companies was changed to major companies and nonmajor companies. Major natural gas pipeline companies are those whose combined sales for resale and natural gas transported or stored for a fee exceed 50 billion cubic feet. They account for more than 85 percent of all interstate natural gas]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987
Sales.....	Tril. cu. ft.....	(NA)	15.2	14.4	12.9	13.2	11.3	7.8	6.5
Residential.....	Tril. cu. ft.....	(NA)	.1	.3	.3	.3	.3	.2	.2
Commercial, industrial.....	Tril. cu. ft.....	(NA)	1.1	1.2	1.0	1.2	1.1	.5	.4
For resale.....	Tril. cu. ft.....	(NA)	14.1	13.0	11.6	11.6	9.9	7.1	5.8
Operating revenues.....	Mil. dol.....	(NA)	46,465	56,203	56,792	56,326	49,106	33,859	27,565
From sales ¹	Mil. dol.....	(NA)	44,277	53,601	53,710	52,529	44,996	29,508	22,942
Residential.....	Mil. dol.....	(NA)	204	1,273	1,725	1,927	1,879	1,122	1,094
Commercial, industrial.....	Mil. dol.....	(NA)	3,336	4,453	4,233	5,180	4,468	1,909	1,484
For resale.....	Mil. dol.....	(NA)	40,677	47,776	47,661	45,268	38,545	26,413	20,351
From transportation of gas to others.....	Mil. dol.....	(NA)	1,011	1,259	1,787	1,923	2,272	3,027	3,622
Other.....	Mil. dol.....	(NA)	1,177	1,344	1,296	1,874	1,838	1,325	1,002
Operation, maintenance expenses.....	Mil. dol.....	33,303	41,242	49,989	49,391	48,411	42,528	27,460	21,794
Production.....	Mil. dol.....	29,644	36,708	44,449	43,516	42,407	36,739	22,208	16,955
Storage.....	Mil. dol.....	253	313	405	441	415	418	420	409
Transmission.....	Mil. dol.....	2,431	3,122	3,629	3,729	3,760	3,409	2,984	2,598
Distribution.....	Mil. dol.....	28	31	103	131	131	132	80	80
Administrative, general, and other.....	Mil. dol.....	947	1,070	1,402	1,576	1,697	1,830	1,768	1,752
Pipeline mileage:									
Transmission lines.....	1,000.....	(NA)	(NA)	178.0	176.7	183.4	189.7	184.6	181.2
Field lines.....	1,000.....	(NA)	(NA)	64.6	63.7	65.2	69.6	64.5	62.9
Storage.....	1,000.....	(NA)	(NA)	6.9	6.5	4.6	4.8	4.6	4.3

NA Not available. ¹ Includes other ultimate customers not shown separately.

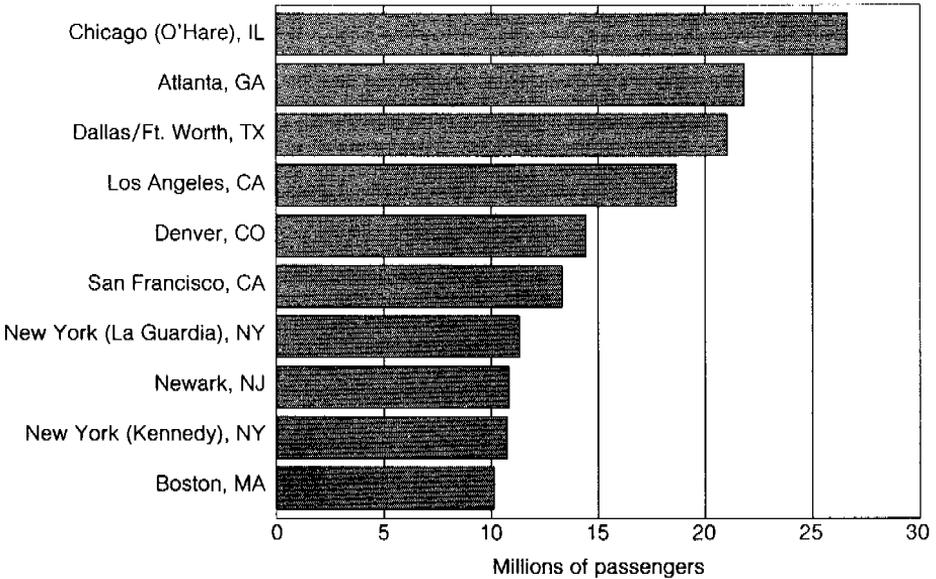
Source: U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.

Figure 22.1
Domestic Scheduled Operations of Air Carriers: 1970 to 1988

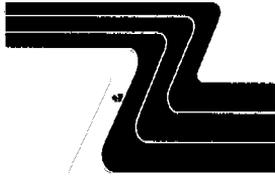


Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1064 and 1065.

Figure 22.2
**Revenue Passengers Enplaned—
 Top 10 Airports: 1988**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1067.



Section 22

**Transportation—
Air and Water**

This section presents statistics on civil air transportation, both passenger and cargo, and on water transportation, including inland waterways, oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. Comparative data on various types of transportation carriers are presented in section 21.

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports*, and *U.S. Airborne Exports and General Imports*, the annual *Vessel Entrances and Clearances*, and the monthly *Highlights of U.S. Export and Import Trade*, issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every five years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, DC in *Air Transport Facts and Figures*. Additional sources of data on water transportation include *Merchant Fleets of the World* issued periodically by the U.S. Maritime Administration; *The Bulletin*, issued monthly by the American Bureau of Shipping, New York; and the *Annual Summary of Merchant Ships Completed in the World* and the *Register Book*, published by Lloyd's Register of Shipping, London, England.

Civil aviation.—Federal promotion and regulation of civil aviation have been carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promoted and regulated the civil air transportation industry within the United States and between the United States and foreign countries. The Board granted licenses to provide air transportation service, approved or disapproved proposed rates and fares, and approved or disapproved proposed agreements and corporate relationships involving air carriers. In December 1984, the CAB ceased to exist as an agency. Some of its functions were transferred to the Department of Transportation (DOT), as outlined below. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The Office of the Secretary, DOT aviation activities include: negotiation of international air transportation rights, selection of U.S. air carriers to serve capacity controlled international markets, oversight of international rates and fares, maintenance of essential air service to small communities, and consumer affairs. DOT's Research and Special Programs Administration (RSPA) handles aviation information functions formerly assigned to CAB.

The principal activities of the FAA include: The promotion of air safety; controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment; and the development of general aviation.

The CAB published monthly and quarterly financial and traffic statistical data for the certificated route air carriers. RSPA continues these publications, including both certificated and non-certificated (commuter) air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

General aviation comprises all civil flying (including such commercial operations as small demand air taxis, agriculture application, powerline patrol, etc.) but excludes certificated route air carriers, supplemental operators, large-aircraft commercial operators and commuter airlines.

Air carriers and service.—The CAB previously issued "certificates of public convenience and necessity" under Section 401 of the Federal Aviation Act of 1958 for scheduled and non-scheduled (charter) passenger services and cargo services. It also issued certificates under Section 418 of the Act to cargo air carriers for domestic all-cargo service only. The DOT Office of the Secretary now

issues the certificates under a "fit, willing and able" test of air carrier operations. Carriers operating only 60 seat or less aircraft are given exemption authority to carry passengers, cargo and mail in scheduled and non-scheduled service under Part 298 of the DOT (formerly CAB) regulations. Exemption authority carriers who offer scheduled passenger service to an essential air service point must meet the "fit, willing and able" test.

Vessel shipments, entrances, and clearances.—Shipments by dry cargo vessels comprise shipments on all types of watercraft, except tanker vessels; shipments by tanker vessels comprise all types of cargo, liquid and dry, carried by tanker vessels.

A vessel is reported as entered only at the first port which it enters in the United States, whether or not cargo is unloaded at that port. A vessel is reported as cleared only at the last port at which clearance is made to a foreign port, whether or not it takes on cargo. Army and Navy vessels entering or clearing without commercial cargo are not included in the figures.

Units of measurement.—Cargo (or freight) tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. However, shipping weight excludes lift and cargo vans and similar substantial outer containers. Other tonnage figures generally refer to stowing capacity of vessels, 100 cubic feet being called 1 ton. Gross tonnage comprises the space within the frames and the ceiling of the hull, together with those closed-in spaces above deck available for cargo, stores, passengers, or crew, with certain minor exceptions. Net or registered tonnage is the gross tonnage less the spaces occupied by the propelling machinery, fuel, crew quarters, master's cabin, and navigation spaces. Substantially, it represents space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Deadweight tonnage is the weight in long tons required to depress a vessel from light water line (that is, with only the machinery and equipment on board) to load line. It is, therefore, the weight of the cargo, fuel, etc., which a vessel is designed to carry with safety.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

NO. 1064. CERTIFICATED ROUTE PASSENGER/CARGO AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1970 TO 1988

[In millions of dollars, except number of carriers. 1970-1975, includes scheduled and charter operations. Beginning 1980, includes all cargo carriers. Minus sign (-) indicates loss. See also headnote, table 1065, and *Historical Statistics, Colonial Times to 1970*, series Q 591-603]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, prel.
Number of air carriers ¹	39	33	72	75	84	87	86	74	68	67
DOMESTIC OPERATIONS ²										
Operating revenue	7,131	11,911	26,404	28,728	31,014	35,394	37,629	41,000	45,658	50,052
Passenger	6,359	10,290	23,317	25,440	27,346	31,437	33,343	33,814	37,492	41,021
Mail (including subsidy)	205	247	530	572	537	560	740	683	706	697
Express and freight	472	702	1,582	1,505	1,582	1,690	1,581	4,363	4,952	5,754
Other	94	672	974	1,211	1,549	1,707	1,965	2,140	2,508	2,580
Operating expenses	7,128	11,781	26,409	29,478	31,186	33,812	36,611	39,934	43,925	47,562
Flying operations	2,098	3,869	11,029	11,529	11,370	12,161	12,684	11,368	12,509	13,100
Maintenance	1,127	1,595	2,758	2,709	2,878	3,176	3,604	4,475	4,951	5,620
General services and administration	3,157	5,050	10,545	12,825	14,274	15,625	17,324	20,690	22,732	24,917
Depreciation and amortization	745	883	1,560	1,876	2,107	2,223	2,318	2,652	2,855	2,974
Transport related	(NA)	383	517	537	554	627	681	748	879	952
Net operating income	3	129	-6	-750	-171	1,582	1,018	1,066	1,733	2,489
INTERNATIONAL OPERATIONS ²										
Operating revenue	1,913	3,063	6,543	6,436	7,163	7,975	8,302	8,621	10,925	13,332
Passenger	1,553	2,435	4,984	4,959	5,361	6,075	6,451	6,551	8,374	10,331
Mail (including subsidy)	110	97	175	177	152	158	160	154	180	184
Express and freight	209	381	1,011	989	913	1,071	1,131	1,480	1,783	2,106
Other	41	150	372	309	737	671	560	437	588	711
Operating expenses	1,694	3,059	6,786	6,452	6,693	7,485	7,984	8,458	10,226	12,361
Flying operations	515	1,050	2,775	2,586	2,490	2,629	2,738	2,402	2,836	3,230
Maintenance	241	363	616	512	548	677	768	901	1,098	1,308
General services and administration	950	1,345	2,811	2,795	3,056	3,436	3,731	4,444	5,501	6,908
Depreciation and amortization	188	212	385	396	389	446	482	518	533	616
Transport related	(NA)	88	178	152	211	297	265	194	260	300
Net operating income	19	4	-223	-17	470	490	319	163	696	971

NA Not available. ¹Number of carriers as of end of year. ²Excludes carriers which report system totals only: operating revenue of \$902 million, \$415 million, \$692 million, \$2,649 million, \$426 million, \$204 million, and \$249 million (preliminary) in 1982 through 1988 respectively, and operating expenses of \$847 million, \$352 million, \$650 million, \$2,613 million, \$443 million, \$188 million, and \$212 million in 1982 through 1988 respectively.

Source: U.S. Federal Aviation Administration and Research and Special Programs Administration, *Air Carrier Financial Statistics*, quarterly.

NO. 1065. CERTIFICATED ROUTE AIR CARRIERS—SUMMARY: 1970 TO 1988

[As of Dec. 31 or for calendar years. See text, section 22. Operations between conterminous U.S., Puerto Rico, and outlying areas included with international. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-590 and Q 624-633]

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988
Domestic operators ¹	Number	35	72	84	87	86	74	68	67
International operators ¹	Number	6							
Employment, total ²	1,000	297	371	329	345	355	422	457	481
Pilots, copilots, and other flight personnel	1,000	33	39	35	37	40	46	51	52
Flight attendants	1,000	34	57	56	60	63	68	73	76
Mechanics	1,000	48	45	40	43	43	48	51	55
Aircraft and traffic servicing personnel	1,000	84	122	95	101	101	130	139	212
Other	1,000	98	108	103	104	108	80	84	86
Fixed-wing aircraft in operation ³	Number	2,421	2,505	2,618	2,692	2,860	3,799	4,231	4,439
Turbojet	Number	2,041	2,336	2,492	2,572	2,740	3,282	3,573	3,913
Two-engine	Number	519	652	974	1,065	1,235	1,494	1,722	1,944
Three-engine	Number	631	1,311	1,296	1,277	1,277	1,466	1,469	1,542
Four-engine	Number	891	373	222	230	228	322	382	427
Turboprop	Number	316	163	118	110	110	416	546	438
Piston	Number	64	6	8	10	10	101	112	88
Average available seats: ⁴ ⁵									
Domestic operations	Number	110.4	143.1	154.1	153.7	152.5	153.4	152.9	153.1
International operations	Number	154.9	274.5	283.6	289.0	296.6	292.8	284.6	281.3
Average speed: ⁵									
Domestic operations	Mi. per hr.	403	405	415	414	409	409	413	409
International operations	Mi. per hr.	482	494	491	494	497	493	494	493
Jet fuel consumed ⁶									
Domestic operations	Mil. gal.	10,083	11,311	10,526	11,470	12,603	13,682	14,461	15,481
International operations	Mil. gal.	7,842	9,218	8,556	9,417	10,115	11,137	11,557	12,218
Revenue-miles flown ⁵									
Domestic operations	Millions	2,426	2,816	2,809	3,133	3,320	3,725	3,988	4,141
International operations	Millions	2,027	2,471	2,483	2,786	2,950	3,323	3,529	3,603
Revenue passengers enplaned ⁵									
Domestic operations	Millions	169	297	319	345	382	419	448	455
International operations	Millions	153	273	297	321	357	394	417	419
Revenue passenger-miles flown ⁵									
Domestic operations	Billions	131.7	255.2	291.8	305.1	336.4	366.5	404.5	423.3
International operations	Billions	104.1	200.8	226.9	243.7	270.6	302.1	324.6	329.3
Available seat-miles ⁵									
Domestic operations	Billions	265.2	432.5	464.5	515.3	547.8	607.4	648.7	676.8
International operations	Billions	213.2	346.0	379.2	422.5	445.8	498.0	527.0	536.7
Passenger load factor ⁵									
Domestic operations	Percent	49.7	59.0	60.7	59.2	61.4	60.3	62.3	62.5
International operations	Percent	48.9	58.0	59.8	57.7	60.7	60.7	61.6	61.4
Revenue passenger-miles per gallon of fuel									
Domestic operations	Number	13.1	22.6	26.8	26.6	26.7	26.8	28.0	27.3
International operations	Number	13.3	21.8	26.5	25.9	26.8	27.1	28.1	27.0
Average passenger-mile rate: ⁵ ⁷									
Domestic operations	Dollars	.060	.113	.121	.128	.123	.112	.114	.123
International operations	Dollars	.050	.075	.098	.099	.098	.102	.098	.104
Express and freight revenue, ton-miles flown ⁵									
Domestic operations	Millions	3,515	5,742	6,092	6,586	6,020	7,344	8,260	9,632
International operations	Millions	2,219	3,277	3,385	3,565	3,133	3,990	4,339	4,843
Mail, ton-miles flown ⁵									
Domestic operations	Millions	1,264	1,342	1,480	1,618	1,659	1,681	1,756	1,837
International operations	Millions	715	949	1,065	1,161	1,214	1,247	1,313	1,367
Accidents ⁸ (scheduled passenger service):									
Total ⁹	Number	39	15	22	13	17	21	33	29
Fatal	Number	2	-	4	1	4	2	4	3
Fatalities	Number	3	-	15	4	197	5	231	285

- Represents zero. ¹ The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operators. Includes all cargo. Carrier count as of end of year. ² Scheduled airlines only. Source: Air Transport Association of America, Washington, DC, *Air Transport Facts and Figures*, annual. ³ Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1980, includes aircraft operated by the scheduled all-cargo certificated route air carriers. Beginning in 1986 also includes large aircraft (passenger seating capacity of more than 30 or a payload of more than 7,500 pounds) operated by commuters and air taxis. ⁴ Seats per aircraft mile. Passenger seat-miles divided by revenue-miles flown in passenger service. ⁵ Scheduled services of all certificated route air carriers; includes all cargo. ⁶ Includes all cargo. Beginning 1980 includes very small amount of gasoline. Beginning 1987, excludes fuel consumption for airlines with a waiver for reporting. ⁷ Passenger revenues divided by revenue passenger-miles flown. ⁸ Beginning 1980, includes all scheduled services of U.S. air carriers operating under 14 CFR 121. ⁹ Includes mid-air collisions nonfatal to air carrier occupants (excluded in computation of fatal accidents).

Source: Except as noted, U.S. Dept. of Transportation, Federal Aviation Administration and Research and Special Programs Administration, *Air Carrier Traffic Statistics*, monthly and *Air Carrier Financial Statistics*, quarterly. Includes data from U.S. National Transportation Safety Board.

NO. 1066. AIRCRAFT ACCIDENTS AND HIJACKINGS: 1975 TO 1988

(For years ending December 31)

ITEM	Unit	1975	1980	1983	1984	1985	1986	1987	1988
Aircraft accidents: ¹									
General aviation ²	Number	3,995	3,590	3,075	3,010	2,741	2,581	2,471	2,332
Fatal	Number	633	618	555	543	498	471	435	438
Rate per 100,000 aircraft hours flown	Rate	2.20	1.69	1.79	1.72	1.62	1.61	1.49	1.49
Fatalities	Number	1,252	1,239	1,064	1,039	950	961	830	782
Air carrier, all services ³	Number	19	24	16	22	21	23	36	30
Fatal	Number	(NA)	1	4	1	7	2	5	3
Rates	Rate	—	—	.001	—	.002	—	.001	—
Fatalities	Number	(NA)	1	15	4	526	4	232	285
Air carrier, scheduled services	Number	29	15	22	13	17	21	33	29
Fatal	Number	2	—	4	1	4	2	4	3
Rate per 1,000,000 aircraft miles flown	Rate	.001	—	.001	.003	.001	.002	.001	.001
Fatalities	Number	122	—	15	4	197	4	231	285
Commuter air carriers ⁴	Number	48	38	17	22	21	15	34	20
Fatal	Number	12	8	2	7	7	2	12	2
Rate per 1,000,000 aircraft miles flown	Rate	.07	.04	.01	.02	.02	.01	.03	.01
Fatalities	Number	28	37	11	48	37	4	61	21
Air taxis ⁵	Number	152	171	141	146	152	116	99	97
Fatal	Number	24	46	27	23	35	31	29	28
Rate per 100,000 aircraft hours flown	Rate	95	127	105	75	126	106	101	97
Fatalities	Number	69	105	62	52	76	65	64	57
Hijacking incidents, worldwide	Number	25	40	33	22	35	12	15	16
U.S. registered aircraft	Number	12	21	18	3	4	4	4	(NA)
Successful ⁶	Number	4	13	13	2	2	—	—	2
Foreign-registered aircraft	Number	13	18	15	21	31	8	11	(NA)
Successful ⁶	Number	3	9	6	16	18	2	5	14
Bomb threats:									
U.S. airports	Number	449	268	188	139	256	238	376	153
Explosions	Number	4	1	1	—	—	—	—	—
U.S. worldwide and foreign aircraft in U.S.	Number	1,853	1,179	467	465	372	401	898	518
Explosions	Number	2	1	—	3	1	1	1	2

- Represents or rounds to zero. NA Not available. X Not applicable. ¹Data from National Transportation Safety Board. ²See text, section 22. ³U.S. Air Carriers operating under 14 CFR 121. ⁴All scheduled service of U.S. Air Carriers operating under 14 CFR 135. ⁵All nonscheduled service of U.S. Air Carriers operating under 14 CFR 135. ⁶Hijacker controls flight and reaches destination or objective.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual; and unpublished data. Includes data from U.S. Department of Transportation, Research and Special Programs Administration.

NO. 1067. TOP 30 AIRPORTS—TRAFFIC SUMMARY: 1988

(In thousands, except percent change. For calendar year. Airports ranked by number of revenue passengers enplaned, 1988)

AIRPORT	Rank	AIRCRAFT DEPARTURES				REVENUE PASSENGERS ENPLANED		ENPLANED REVENUE TONS		
		Total ¹	Scheduled		Total	Per-cent change 1980-1988	Total ²	Freight and ex-press	U.S. mail	
			Num-ber	Com-pleted						
All airports ³	(x)	6,724.4	6,827.3	6,661.9	456,026.4	53.6	7,577.8	5,860.0	1,701.2	
Atlanta, GA	2	275.8	280.9	274.8	21,824.1	9.2	256.6	142.8	113.8	
Baltimore, MD	30	72.1	72.9	71.6	4,369.6	16.4	34.9	15.4	19.5	
Boston, MA	10	115.2	116.3	113.2	10,141.3	48.2	148.2	117.9	30.2	
Charlotte, NC	24	105.4	107.2	104.6	6,619.8	347.0	52.9	36.0	17.0	
Chicago (O'Hare), IL	1	323.9	332.6	322.9	26,596.8	38.3	456.8	312.1	144.7	
Dallas-Ft. Worth, TX	3	241.8	244.3	241.0	21,014.2	101.4	211.7	136.2	75.5	
Denver, CO	5	187.5	190.4	186.8	14,441.8	50.2	127.1	72.1	55.0	
Detroit, MI	14	126.3	129.4	125.8	9,213.7	83.3	73.8	36.8	37.0	
Honolulu, HI	15	84.1	88.3	79.0	8,396.3	48.5	193.4	172.5	20.9	
Houston (Intercont.), TX	20	98.0	99.6	97.5	6,871.9	37.5	76.0	50.5	25.5	
Kansas City, MO	29	67.7	68.2	66.8	4,470.0	70.8	35.7	16.4	19.3	
Las Vegas, NV	21	80.4	80.2	79.4	6,864.8	48.3	14.3	7.6	6.7	
Los Angeles, CA	4	200.4	203.0	199.2	18,643.3	31.7	398.8	334.3	64.6	
Memphis, TN	27	103.8	105.2	103.5	4,532.6	110.9	599.8	579.2	20.6	
Miami, FL	12	99.8	100.4	98.2	9,461.8	16.3	175.8	149.3	26.5	
Minneapolis/St. Paul, MN	17	109.7	112.1	109.0	8,171.0	86.4	98.4	56.2	42.2	
Newark, NJ	8	140.1	143.1	138.8	10,838.0	157.7	171.9	138.3	33.6	
New York (Kennedy), NY	9	79.5	80.5	78.8	10,660.4	16.9	287.6	219.5	68.1	
New York (LaGuardia), NY	7	129.6	130.3	128.8	11,321.8	34.8	61.2	21.2	40.0	
Orlando, FL	18	94.6	95.1	93.4	7,473.1	139.2	47.7	35.5	12.2	
Philadelphia, PA	23	93.3	95.1	92.7	6,633.7	63.5	92.5	45.0	47.5	
Phoenix, AZ	13	132.9	133.6	132.4	9,455.3	179.7	48.8	32.5	16.3	
Pittsburgh, PA	16	126.2	127.4	125.6	8,378.6	55.7	41.9	16.4	25.6	
St. Louis, MO	11	140.3	142.7	139.5	9,554.5	79.6	102.6	46.5	56.1	
Salt Lake City, UT	26	74.9	75.4	74.8	4,729.9	136.9	49.7	33.5	16.2	
San Diego, CA	25	68.2	69.1	68.0	5,180.6	104.3	26.1	18.4	7.7	
San Francisco, CA	6	162.3	165.3	161.8	13,348.0	42.0	246.1	196.4	49.7	
Seattle-Tacoma, WA	22	108.0	109.5	107.3	6,825.5	56.8	189.4	142.3	47.0	
Tampa, FL	28	64.9	65.6	64.4	4,495.3	24.8	34.5	19.7	14.9	
Washington (National), DC	19	96.5	98.1	95.2	7,259.4	9.2	41.5	9.0	32.4	

X Not applicable. ¹Includes completed scheduled and unscheduled. ²Includes foreign mail, not shown separately. ³Includes other airports, not shown separately.

Source: U.S. Federal Aviation Administration and Research and Special Programs Administration, *Airport Activity Statistics*, annual.

NO. 1068. ON-TIME FLIGHT ARRIVALS AND DEPARTURES AT MAJOR U.S. AIRPORTS: 1988 AND 1989

[In percent. Quarterly, based on gate arrival and departure times for domestic scheduled operations of major U.S. airlines, per DOT reporting rule effective September 1987. All U.S. airlines with one percent or more of total U.S. domestic scheduled airline passenger revenues are required to report on-time data. A flight is considered on time if it operated less than 15 minutes after the scheduled time shown in the carrier's computerized reservation system. Cancelled and diverted flights are considered late. Excludes flight operations delayed/cancelled due to aircraft mechanical problems reported on FAA maintenance records (4-5% of the reporting airlines' scheduled operations). See source for data on individual airlines]

AIRPORT	ON-TIME ARRIVALS						ON-TIME DEPARTURES					
	1988				1989		1988				1989	
	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st qtr.	2d qtr.	1st qtr.	2d qtr.	3d qtr.	4th qtr.	1st qtr.	2d qtr.
Total, all airports	74.4	83.0	83.3	79.1	73.9	76.4	81.7	86.2	86.4	88.5	80.6	85.0
Total, 29 major airports	73.0	81.9	82.5	78.0	72.9	76.6	79.5	86.5	86.9	84.3	79.1	82.9
Atlanta, Hartsfield International	72.9	85.5	84.4	85.0	79.8	80.6	80.8	89.1	89.1	90.9	85.2	85.8
Boston, Logan International	70.7	69.3	78.7	82.8	79.3	75.6	77.8	82.0	84.4	86.6	82.9	81.7
Charlotte, Douglas	75.4	84.5	81.3	81.6	67.4	70.3	72.2	82.9	81.8	82.1	68.0	69.7
Chicago, O'Hare	71.4	80.5	78.7	68.3	60.8	70.3	75.9	85.9	84.4	77.0	68.7	77.4
Dallas/Ft. Worth International	78.1	88.7	90.3	80.4	72.4	80.3	80.4	90.5	91.6	84.8	76.4	84.5
Denver, Stapleton International	66.0	82.8	86.6	78.7	68.9	79.3	73.5	85.4	88.2	83.9	76.1	85.8
Detroit, Metro Wayne	71.1	82.6	76.7	78.8	79.7	81.3	77.7	88.0	85.4	86.6	84.8	86.0
Dulles International	80.3	83.0	85.3	85.4	76.5	80.4	84.2	89.7	90.2	88.8	81.2	84.0
Houston Intercontinental	66.3	85.2	89.1	80.7	77.7	81.5	76.9	87.2	89.1	86.8	83.1	86.8
Kansas City International	75.4	85.7	85.2	78.4	73.5	79.4	82.0	87.7	87.8	85.5	82.4	87.8
Las Vegas, McCarran International	82.0	87.5	89.6	80.8	78.0	85.2	88.4	91.4	93.2	87.2	84.4	91.3
Los Angeles International	76.9	84.1	86.7	76.5	73.0	77.6	84.7	88.3	88.7	84.1	82.2	85.5
Memphis International	70.2	88.5	82.7	79.0	80.5	84.5	75.7	91.8	89.6	86.9	85.9	88.7
Miami International	70.9	80.5	80.8	82.6	75.2	72.9	76.0	83.6	84.4	88.4	80.6	81.1
Minneapolis/St. Paul International	67.7	85.2	79.3	75.1	77.9	83.7	74.3	88.8	84.6	83.9	81.5	88.0
Newark International	72.0	72.6	73.9	73.2	73.0	71.3	77.5	80.2	78.0	78.0	78.1	79.2
New York, Kennedy International	72.1	67.7	71.8	78.0	72.1	71.2	78.0	76.5	75.5	81.2	76.4	74.2
New York, LaGuardia	73.9	75.1	76.7	81.8	73.5	69.2	81.5	85.9	86.7	88.2	82.2	80.8
Orlando International	63.8	79.7	82.1	80.3	74.9	76.7	79.5	88.6	89.3	89.9	83.2	85.5
Philadelphia International	72.4	75.0	76.9	81.9	72.8	76.3	77.0	81.6	83.9	87.2	80.1	82.6
Phoenix, Sky Harbor International	82.0	88.7	90.2	77.9	74.2	84.3	85.8	90.0	92.1	81.1	77.5	87.2
Pittsburgh, Greater International	78.0	76.2	74.7	78.8	76.7	78.2	80.6	79.5	77.5	82.7	79.2	80.2
St. Louis, Lambert	71.3	82.7	79.4	77.3	69.9	81.5	75.5	86.9	86.0	82.3	74.8	85.8
Salt Lake City International	72.9	91.7	89.9	81.5	72.6	83.8	82.6	94.3	94.2	87.1	79.6	90.7
San Diego International, Lindbergh	78.4	83.6	86.9	74.2	71.9	78.7	85.0	85.8	89.3	81.0	80.1	85.4
San Francisco International	71.5	75.4	84.0	63.0	61.6	70.2	81.8	82.5	88.1	74.7	75.9	82.3
Seattle-Tacoma International	68.2	82.5	82.0	67.3	70.4	77.1	83.5	88.2	87.6	80.2	81.1	87.4
Tampa International	68.4	83.6	83.8	82.0	74.9	77.0	81.7	89.8	90.1	90.4	83.3	84.4
Washington National	74.6	76.2	79.7	82.7	76.6	75.3	83.2	85.9	88.9	90.2	85.7	84.2

Source: U.S. Department of Transportation, Office of Consumer Affairs, *Air Travel Consumer Report*, monthly.

NO. 1069. CONSUMER COMPLAINTS AGAINST U.S. AIRLINES: 1986 TO 1989

[Calendar year data, except as indicated. See source for data on individual airlines]

COMPLAINT CATEGORY	COMPLAINTS				PERCENT DISTRIBUTION				RANK			
	1986	1987	1988	1989, Jan.-June	1986	1987	1988	1989, Jan.-June	1986	1987	1988	1989, Jan.-June
Total	10,802	40,985	21,493	5,912	100.0	100.0	100.0	100.0	(x)	(x)	(x)	(x)
Flight problems ¹	3,390	18,019	8,831	1,939	31.3	43.9	41.0	32.7	1	1	1	1
Baggage	2,149	7,438	3,938	1,007	19.8	18.1	18.3	17.0	2	2	2	2
Customer service ²	702	3,888	2,120	492	6.4	9.4	9.8	8.3	5	3	3	5
Refunds ³	1,627	3,313	1,667	653	15.0	8.0	7.7	11.0	3	4	4	3
Oversales ⁴	849	2,122	1,353	427	7.8	5.1	6.2	7.2	4	6	6	6
Reservations/ticketing/boarding ⁴	687	2,458	1,445	512	6.3	5.9	6.7	8.7	6	5	5	4
Smoking	311	868	546	153	2.8	2.1	2.5	2.6	8	9	7	8
Fares ⁵	468	937	455	235	4.3	2.2	2.1	4.0	7	7	8	7
Advertising	122	344	141	49	1.1	.8	.6	.8	9	9	9	9
Credit	40	101	35	5	.3	.2	.1	.1	10	10	11	11
Tours	33	90	37	39	.3	.2	.1	.7	11	11	10	10
Other	424	1,387	925	407	3.9	3.3	4.3	6.9	(x)	(x)	(x)	(x)

X Not applicable. ¹ Cancellations, delays etc. from schedule. ² Unhelpful employees, inadequate meals or cabin service, treatment of delayed passengers. ³ All bumping problems, whether or not airline complied with DOT regulations. ⁴ Errors in reservations and ticketing; problems in making reservations and obtaining tickets. ⁵ Incorrect or incomplete information about fares, discount fare conditions and availability etc.

Source: U.S. Dept. of Transportation, Office of Consumer Affairs, *Air Travel Consumer Report*, monthly.

NO. 1070. AIRCRAFT IN OPERATION AND AIRCRAFT AGE, BY TYPE OF AIRCRAFT: 1983 TO 1989

[As of January 1. For U.S. domestic major and national services. Major carriers have operating revenues of \$1 billion or more; national carriers have operating revenues of \$75 million to \$1 billion]

TYPE OF AIRCRAFT	AIRCRAFT IN OPERATION				MEAN AGE (years) ¹			
	1983	1985	1987	1989	1983	1985	1987	1989
Industry total	2,360	2,790	2,816	3,190	10.5	10.8	11.8	12.0
Majors.....	1,953	2,185	2,386	2,850	10.9	11.6	12.0	12.2
Nationals.....	407	605	430	340	8.4	8.0	10.6	10.6
Type of aircraft:								
Boeing 727 ²	1,001	996	993	956	10.5	12.0	13.9	15.5
Boeing 737.....	270	365	547	698	8.9	9.1	8.8	8.2
Boeing 747.....	130	136	124	136	10.9	11.8	15.0	15.8
Boeing 757.....	2	23	73	107	1.0	2.0	2.4	3.6
Boeing 767.....	14	54	61	111	1.0	2.6	3.9	4.3
Airbus A300/A310.....	30	134	59	76	3.4	1.9	5.7	5.3
Lockheed L-1011 ²	119	184	107	111	7.3	7.5	11.0	13.0
McDonnell Douglas DC-8 ²	98	72	52	40	15.8	17.2	18.8	20.9
McDonnell Douglas DC-9 ²	541	658	433	455	11.9	9.9	16.7	18.5
McDonnell Douglas DC-10 ²	155	168	161	159	9.1	9.8	12.5	14.6
McDonnell Douglas MD-80.....	(x)	(x)	206	341	(x)	(x)	3.1	3.9

X Not applicable. ¹ For definition of mean, see Guide to Tabular Presentation. ² No longer in production.

Source: AVMARK, Arlington, VA. Compiled from data by the U.S. Dept. of Transportation and Aviation Information Services Limited, London, England, *The World's Jet and Turboprop Airliner Fleet*.

NO. 1071. AIRLINE COST INDEXES: 1970 TO 1988

[Covers U.S. major and national service carriers. Major carriers have operating revenues of \$1 billion or more; nationals have operating revenues from \$75 million to \$1 billion]

ITEM	INDEX (1972 = 100)								PERCENT DISTRIBUTION OF CASH OPERATING EXPENSES ¹					
	1970	1980	1982	1983	1984	1985	1986	1987	1988	1970	1980	1985	1987	1988
Composite	87.8	262.5	304.3	309.4	312.3	313.4	293.1	299.5	311.4	100.0	100.0	100.0	100.0	100.0
Labor.....	82.9	211.4	249.6	268.6	269.7	277.8	272.1	276.3	288.3	45.8	35.1	34.9	35.0	34.3
Interest ²	99.0	167.2	188.6	195.5	205.5	198.8	191.2	184.5	188.7	3.6	2.9	3.5	3.4	3.2
Fuel.....	94.3	770.3	841.8	762.0	729.2	689.6	473.6	473.2	458.6	12.8	29.7	22.3	16.0	14.5
Passenger food.....	97.4	153.6	162.9	168.9	174.0	167.0	167.7	173.3	184.4	3.9	2.9	3.2	3.5	3.5
Advertising and promotion.....	99.5	141.5	203.6	207.1	202.9	203.3	210.4	184.7	198.6	2.7	1.7	2.3	2.2	2.3
Landing fees.....	82.2	192.9	214.4	215.2	217.9	217.6	242.6	262.5	278.9	2.2	1.7	1.7	2.0	2.0
Passenger traffic commissions.....	80.2	322.8	417.4	445.3	487.4	491.4	499.9	540.8	623.8	2.6	4.8	7.4	8.6	9.5
All other.....	95.5	184.4	215.2	223.5	231.9	239.2	245.4	253.2	261.9	26.4	21.3	24.6	29.3	30.7
		Average Annual Percent Change ³												
Labor.....	(NA)	9.8	8.7	7.6	.4	3.0	2.1	1.5	4.3	(x)	(x)	(x)	(x)	(x)
Interest ²	(NA)	5.4	6.2	3.7	5.1	-3.3	-3.8	-3.5	2.3	(x)	(x)	(x)	(x)	(x)
Fuel.....	(NA)	23.4	4.5	-9.5	-4.3	5.4	31.3	1.2	-4.3	(x)	(x)	(x)	(x)	(x)
Passenger food.....	(NA)	4.7	3.0	3.7	3.0	-4.0	.4	3.3	6.4	(x)	(x)	(x)	(x)	(x)
Advertising and promotion.....	(NA)	3.6	20.0	1.7	-2.0	.2	3.5	-12.2	7.5	(x)	(x)	(x)	(x)	(x)
Landing fees.....	(NA)	8.9	5.4	.4	1.3	-.1	11.5	8.2	6.3	(x)	(x)	(x)	(x)	(x)
Passenger traffic commissions.....	(NA)	14.9	13.7	6.7	9.5	.8	1.2	8.2	15.4	(x)	(x)	(x)	(x)	(x)
All other.....	(NA)	6.8	8.0	3.9	3.8	3.2	2.6	3.2	3.4	(x)	(x)	(x)	(x)	(x)

NA Not available. X Not applicable. ¹ Total operating expenses plus interest on long term debt, less depreciation and amortization. ² Interest on debt. ³ Average change from prior year shown, see Guide to Tabular Presentation.

Source: Air Transport Association of America, Washington, DC, *Air Transport, 1988*, annual; and unpublished data.

NO. 1072. COMMUTER/REGIONAL AIRLINE OPERATIONS—SUMMARY: 1980 TO 1988

[Calendar year data. Commuter/regional airlines operate primarily aircraft of predominately 60 passengers or less and 18,000 pounds of payload capacity serving short haul and small community markets. Represents operations within all North America by U.S. regional carriers. Averages are means. For definition of mean, see Guide to Tabular Presentation]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988
Passenger carriers operating.....	Number..	214	246	215	196	203	179	179	169	163
Passengers enplaned.....	Millions..	14.8	15.4	18.6	21.8	26.1	26.0	28.4	31.8	35.2
Average passengers enplaned per carrier.....	1,000.....	69.2	62.6	86.5	111.2	128.1	152.4	158.4	187.7	213.9
Revenue passenger miles (RPM).....	Billions.....	1.92	2.09	2.61	3.24	4.17	4.41	4.47	5.00	6.04
Average RPMs per carrier.....	Millions.....	8.97	8.50	12.14	16.53	20.46	24.84	24.98	29.60	37.05
Airports served.....	Number..	732	766	817	854	853	854	824	834	861
Average trip length.....	Miles.....	129	136	141	149	160	173	158	158	173
Passenger aircraft operated.....	Number..	1,339	1,463	1,573	1,545	1,747	1,745	1,806	1,841	1,801
Average seating capacity (seats).....	Number..	13.9	15.1	15.6	18.1	18.4	19.2	18.4	19.7	20.5
Fleet flying hours.....	1,000.....	1,740	1,994	2,160	2,415	2,764	2,854	2,929	2,942	3,078
Average annual utilization aircraft.....	Hours.....	1,299	1,363	1,373	1,563	1,582	1,635	1,622	1,598	1,709

¹ Adjusted to exclude a merger in 1986.

Source: Regional Airline Association, Washington, DC, 1989 Annual Report of the Regional Airline Industry (copyright).

NO. 1073. CIVIL FLYING—SUMMARY: 1970 TO 1988

[As of Dec. 31 or for years ending Dec. 31, except as noted. See also Historical Statistics, Colonial Times to 1970, series Q 604-623]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988
Airports in operation ¹	Number..	11,261	15,161	15,831	16,029	16,075	16,318	16,582	17,015	17,327
Heliports.....	Number..	790	2,336	2,712	2,918	2,980	3,120	3,336	3,653	3,913
Public.....	Number..	4,260	4,814	4,805	4,812	4,806	5,861	4,924	4,984	5,043
Private.....	Number..	7,001	10,347	11,026	11,217	11,269	10,457	11,658	12,031	12,284
Airports with runway lights.....	Number..	3,554	4,738	4,844	4,878	4,889	4,941	4,954	4,922	4,890
Airports with paved runways.....	Number..	3,805	5,833	6,223	5,441	6,529	6,721	6,948	7,232	7,429
Miles of Federal airways.....	1,000.....	324.7	411.1	366.2	364.4	364.8	368.5	332.0	332.9	334.8
Airport Improvement Program ²	Mil. dol.	50.5	639.0	407.1	721.5	733.3	842.1	1,815.3	919.4	1,278.3
Total civil aircraft.....	1,000.....	154.5	259.4	259.0	264.9	271.5	274.9	275.7	275.1	272.7
Active aircraft ³	1,000.....	134.5	214.8	214.0	217.5	225.3	215.4	224.9	222.4	224.0
Air carriers, total ⁴	1,000.....	2.8	3.8	4.2	4.2	4.4	4.7	4.9	5.2	5.6
General aviation aircraft ⁵	1,000.....	131.7	211.0	209.8	213.3	220.9	210.7	220.0	217.2	(NA)
Fixed-wing aircraft:										
Multi-engine.....	1,000.....	18.4	31.7	33.2	34.5	35.6	33.6	34.3	33.0	(NA)
Single-engine:										
4-place and over.....	1,000.....	64.6	107.9	106.5	107.2	109.9	105.6	109.4	107.5	(NA)
3-place and less.....	1,000.....	44.9	60.5	57.7	59.2	62.0	58.8	62.4	63.5	(NA)
Rotorcraft ⁶	1,000.....	2.2	6.0	6.2	6.5	7.1	6.4	6.9	6.3	(NA)
Balloons, blimps, gliders, etc.....	1,000.....	1.6	5.0	6.2	5.9	6.3	6.3	7.0	6.8	(NA)
Airman certificates held.....	1,000.....	1,002	1,195	1,133	1,131	1,149	1,105	1,119	1,128	1,143
Pilot ⁷	1,000.....	733	827	733	718	722	710	709	700	694
Held by women.....	Percent..	4.0	6.4	6.2	6.1	6.1	6.1	6.1	6.1	6.1
Airline transport.....	1,000.....	34	70	73	75	79	83	87	91	97
Commercial.....	1,000.....	187	183	165	159	155	152	148	144	143
Private.....	1,000.....	304	357	322	319	320	311	306	301	300
Student.....	1,000.....	196	200	156	147	150	147	150	146	137
Nonpilot ⁸	1,000.....	269	368	400	413	427	395	410	428	449
Ground technicians ⁹	1,000.....	241	321	352	365	376	341	353	367	385
FAA employees: Total.....	Number..	(NA)	55,340	46,897	46,993	47,178	47,245	46,809	47,907	49,210
Air traffic control specialists ¹⁰	Number..	(NA)	27,190	22,072	22,638	23,234	23,580	23,515	24,132	24,603
Full performance ¹¹	Number..	(NA)	16,317	9,078	15,458	11,031	11,572	12,533	11,617	12,180
Developmental ¹¹	Number..	(NA)	4,387	6,246	4,848	4,848	4,304	3,976	5,462	5,495
Assistants ¹²	Number..	(X)	(X)	1,166	1,367	1,475	1,465	1,479	1,481	1,283
Traffic management coordinators ¹²	Number..	(X)	(X)	(X)	(X)	(X)	(X)	(X)	278	347
Electronic technicians.....	Number..	(NA)	8,871	8,031	7,633	7,229	6,856	6,600	6,788	6,627
Aviation safety inspectors.....	Number..	(NA)	2,038	1,835	1,805	1,945	1,897	2,204	2,350	2,499
Engineers.....	Number..	(NA)	2,436	2,238	2,313	2,419	2,457	2,417	2,579	2,640
Other.....	Number..	(NA)	14,805	12,721	12,604	12,351	12,455	12,073	12,058	12,641
General aviation: ⁵										
Hours flown.....	Million..	26.0	41.0	36.5	35.2	36.1	34.1	34.4	33.4	(NA)
Fuel consumed: ¹³										
Gasoline.....	Mil. gal..	362	520	448	428	462	420	410	402	(NA)
Jet fuel ¹⁴	Mil. gal..	415	766	887	613	739	691	732	672	(NA)

NA Not available. X Not applicable. ¹ Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. ² Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use. ³ Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1982 data are obligated Federal funds for the Airport Development Aid Program. 1983-1988 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1982. ⁴ Registered aircraft that flew 1 or more hours during the year. ⁵ Includes helicopters. ⁶ See text, section 22. ⁷ Includes autogyros; excludes air carrier helicopters. ⁸ Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter than air certificate, not shown separately. ⁹ Includes dispatchers, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. ¹⁰ No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. ¹¹ Includes all air traffic control specialists (staff positions, managers, supervisors, and for 1970-1986 traffic management coordinators, not shown separately) and air traffic assistants. ¹² Serving in-flight service stations, towers, and centers. ¹³ Prior to 1987, included in total air traffic control specialists. ¹⁴ Source: 1970, U.S. Bureau of Mines; thereafter, FAA General Aviation Activity and Avionics Survey. ¹⁵ Includes kerosene-type and naphtha-type jet fuels.

Source: U.S. Federal Aviation Administration, FAA Statistical Handbook of Aviation, annual; and unpublished data. Includes data from U.S. Department of Transportation, Research and Special Programs Administration.

NO. 1074. U.S. AIRCRAFT SHIPMENTS, 1970 TO 1989, AND PROJECTIONS, 1990

[Value in millions of dollars]

YEAR	TOTAL		CIVIL						MILITARY	
	Units	Value	Large transports ¹		General aviation ²		Helicopters		Units	Value
			Units	Value	Units	Value	Units	Value		
1970.....	11,632	7,511	311	3,158	7,292	337	495	49	3,534	3,967
1975.....	16,916	9,355	285	4,006	14,056	1,033	838	266	1,739	4,050
1980.....	14,660	18,845	383	9,793	11,877	2,486	1,353	674	1,047	5,892
1981.....	11,860	20,157	388	9,731	9,457	2,920	953	636	1,062	6,870
1982.....	6,248	19,266	236	6,254	4,266	2,000	587	365	1,159	10,647
1983.....	4,409	23,012	262	8,493	2,691	1,470	403	303	1,053	12,746
1984.....	3,931	22,570	188	6,343	2,431	1,681	376	330	936	14,211
1985.....	3,597	28,988	273	9,051	2,029	1,431	376	505	919	18,001
1986.....	3,261	35,145	329	10,643	1,495	1,262	330	288	1,107	22,952
1987.....	3,003	36,008	361	10,585	1,085	1,364	358	277	1,199	23,782
1988.....	3,133	34,640	422	13,588	1,143	1,918	383	334	1,185	18,800
1989 ³	3,325	36,690	445	17,400	1,335	1,770	435	420	1,110	17,100
1990 ⁴	3,292	39,310	512	20,900	1,440	2,050	410	460	930	15,900

¹ Capacity over 70 seats. ² Includes aircraft kits for exports. ³ Estimated. ⁴ Forecast.Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1990*.

NO. 1075. EMPLOYMENT AND EARNINGS IN AIRCRAFT INDUSTRIES: 1975 TO 1988

[Annual averages of monthly figures]

SIC ¹ code	ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988
(X)	Employment:										
	Total.....	1,000.....	607	763	732	720	746	814	878	906	908
3721	Aircraft.....	1,000.....	293	349	320	305	306	326	339	356	368
3724	Aircraft engines and engine parts.....	1,000.....	126	163	149	140	140	148	154	158	154
3728	Aircraft equipment, n.e.c. ²	1,000.....	95	140	132	134	146	163	185	186	174
376	Guided missiles, space vehicles, and parts.....	1,000.....	93	111	131	141	154	177	200	206	212
(X)	Average weekly earnings: ³										
3721	Aircraft.....	Dollars..	256	404	485	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3724	Aircraft engines and parts.....	Dollars..	247	394	454	476	523	542	561	567	582
376	Guided missiles, space vehicles, and parts.....	Dollars..	245	378	447	480	496	518	517	541	568
(X)	Average hourly earnings: ³										
3721	Aircraft.....	Dollars..	6.21	9.66	11.85	(NA)	4 12.91	4 13.18	4 13.48	4 13.74	4 14.18
3724	Aircraft engines and parts.....	Dollars..	6.04	9.42	11.16	11.61	12.40	12.85	13.08	13.33	13.80
376	Guided missiles, space vehicles, and parts.....	Dollars..	6.02	9.22	10.95	11.59	11.82	12.14	12.20	12.73	13.15

NA Not available. X Not applicable. ¹ Standard Industrial Classification; see text, section 13. ² N.e.c.=Not elsewhere classified. ³ For production workers. ⁴ Excludes lump-sum payments. Earnings which include proration of lump-sum payments were \$13.11 in 1984; \$13.40 in 1985; \$13.80 in 1986; \$14.32 in 1987; and \$14.65 in 1988.Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

NO. 1076. AEROSPACE INDUSTRY—SUMMARY, 1980 TO 1989, AND PROJECTIONS, 1990

[For calendar year, except employment and earnings annual averages of monthly figures. Includes Standard Industrial Classification Codes 372 and 376. Industry shipments refer to the total value of all products shipped by establishments classified in that industry. Product shipments refer to the total value of specific products shipped, irrespective of how the establishments which made them are classified]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988 ¹	1989 ¹	1990 ²
INDUSTRY DATA											
Value of shipments.....	Mil. dol.	58,483	66,466	74,823	77,826	90,795	100,999	104,366	105,928	112,524	121,217
In 1982 dollars.....	Mil. dol.	71,696	66,466	70,876	71,542	82,490	91,336	91,469	94,242	96,587	100,097
Employment, total.....	1,000.....	721	685	690	693	746	798	816	828	846	868
Production workers.....	1,000.....	387	349	341	344	372	400	411	414	424	440
Average hourly earnings.....	Dol.....	9.90	12.23	13.08	13.24	13.88	14.37	14.89	15.36	16.10	(NA)
Capital expenditures.....	Mil. dol.	1,923	2,143	2,158	3,050	3,784	4,144	(NA)	(NA)	(NA)	(NA)
PRODUCT DATA											
Value of shipments.....	Mil. dol.	53,296	60,024	66,229	70,200	80,625	90,907	97,872	99,446	105,745	114,175
In 1982 dollars.....	Mil. dol.	65,479	60,024	62,631	64,400	73,366	82,236	85,777	88,475	90,768	94,282

NA Not available. ¹ Estimated. ² Forecast.Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1990*.

Aerospace Industry Sales, New Orders, and Exports

627

NO. 1077. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1988

[In billions of dollars, except as indicated. Reported by establishments in which the principal business is the development and/or production of aerospace products]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Net sales.....	24.8	29.5	58.4	69.9	75.5	83.5	88.9	100.5	105.6	110.3	113.5
Percent of U.S. Government.....	66.3	58.7	45.6	47.2	55.9	58.8	62.7	63.2	61.9	62.2	60.0
Complete aircraft and parts ¹	10.4	11.3	22.6	25.1	23.2	27.3	28.3	34.2	38.0	37.0	35.7
Aircraft engines and parts.....	3.1	3.4	6.9	8.5	8.7	8.6	9.1	9.7	9.8	12.0	15.0
Missiles and space vehicles, parts.....	5.4	6.3	8.4	4.7	5.7	12.7	13.6	16.7	17.5	20.7	21.5
Other products, services.....	5.9	8.5	20.5	31.6	37.9	34.8	38.0	39.8	40.3	40.5	41.3
Net, new orders.....	21.2	29.0	70.4	72.7	84.9	91.6	104.9	111.0	110.8	121.2	147.1
Backlog, Dec. 31.....	24.7	35.0	90.5	93.4	103.5	116.6	132.5	143.0	148.2	158.7	191.5

¹ Except engines sold separately.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-37D.

NO. 1078. AEROSPACE INDUSTRY SALES, BY PRODUCT GROUP AND CUSTOMER: 1970 TO 1988

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1077]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS ²					
	1970	1980	1985	1986	1987	1988 ¹	1970	1980	1985	1986	1987	1988 ¹
Total sales.....	25.6	54.7	96.6	106.2	112.1	111.0	69.9	68.1	86.0	92.2	98.2	93.9
PRODUCT GROUP												
Aircraft, total.....	14.1	31.5	50.5	56.4	60.3	56.5	38.5	39.2	45.0	49.0	52.8	47.8
Civil ³	4.4	16.3	13.7	15.7	15.5	18.7	12.0	20.3	12.2	13.6	13.6	15.8
Military.....	9.7	15.2	36.8	40.7	44.8	37.7	26.5	18.9	32.7	35.3	39.3	31.9
Missiles.....	4.1	6.5	11.4	12.0	10.2	11.1	11.2	8.1	10.2	10.4	8.9	9.4
Space.....	4.7	7.9	18.6	20.1	22.9	24.9	12.9	9.9	16.5	17.5	20.1	21.1
Related products and services ⁴	2.6	8.8	16.1	17.7	18.7	18.5	7.1	10.9	14.3	15.4	16.4	15.7
CUSTOMER GROUP												
Aerospace, total.....	22.9	45.9	80.5	88.5	93.4	92.5	62.6	57.1	71.7	76.8	81.8	78.2
DOD ⁵	14.6	22.8	53.2	59.2	61.8	57.6	39.9	28.4	47.4	51.4	54.2	48.7
NASA ⁶ and other agencies.....	3.0	4.1	8.3	8.2	6.9	8.0	8.2	5.1	5.6	5.4	6.0	6.8
Other customers ⁷	5.3	19.0	21.0	23.1	24.7	26.9	14.5	23.6	18.7	20.0	21.7	22.8
Related products and services ⁴	2.6	8.8	16.1	17.7	18.7	18.5	7.1	10.9	14.3	15.4	16.4	15.7

¹ Preliminary. ² Based on aerospace composite price deflator supplied by the U.S. International Trade Administration.

³ All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). ⁴ Electronics, software, and ground support equipment, plus sales of non-aerospace products which are produced by aerospace-manufacturing establishments and which use technology, processes, and materials derived from aerospace products.

⁵ Department of Defense. ⁶ National Aeronautics and Space Administration. ⁷ Includes civil aircraft sales (see footnote 3), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures, 1989/90*.

NO. 1079. U.S. EXPORTS OF AEROSPACE VEHICLES AND EQUIPMENT, 1986 TO 1989, AND PROJECTIONS, 1990

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1986	1987	1988	1989 ¹	1990 ²	1986	1987	1988	1989 ¹	1990 ²
Aerospace vehicles and equipment.....	(NA)	(NA)	(NA)	(NA)	(NA)	20,704	23,452	26,946	30,208	33,110
Civilian aircraft.....	1,326	1,812	2,784	4,133	3,780	7,365	7,518	10,294	12,113	14,020
Under 10,000 lbs. empty weight, new.....	426	473	619	1,750	1,600	174	254	298	310	370
10,000-33,000 lbs. empty weight, new.....	38	15	24	50	45	69	42	49	180	190
Over 33,000 lbs. empty weight, new.....	158	170	217	258	295	6,276	6,377	8,766	10,800	12,550
Rotorcraft, new.....	210	240	280	250	275	277	200	219	150	230
Other new aircraft, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	68	141	323	18	50
Used, rebuilt, and converted.....	494	914	1,644	1,825	1,575	501	504	639	655	630
Military aircraft.....	409	485	743	835	725	2,479	3,587	2,157	1,255	1,400
Aircraft engines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	3,660	4,396	5,451	6,115	6,480
Piston engines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	325	352	420	465	480
Complete engines, new and used.....	3,105	3,099	6,260	8,800	8,500	45	57	88	120	120
Engine parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	280	295	332	345	360
Turbine engines and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	3,335	4,044	5,031	5,650	6,000
Complete engines, new and used.....	1,477	1,831	2,486	3,200	3,230	1,052	1,322	1,705	1,750	1,900
Engine parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	2,283	2,722	3,326	3,900	4,100
Propellers and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	49	47	75	235	290
Landing gear and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	127	131	125	275	300
Aircraft parts, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	5,960	6,497	7,228	7,850	8,000
Guided missiles and parts.....	(NA)	(NA)	(NA)	(NA)	(NA)	336	389	434	1,050	1,200
Fight simulators.....	(NA)	(NA)	(NA)	(NA)	(NA)	126	107	159	180	180
Space launch equipment.....	(NA)	(NA)	(NA)	(NA)	(NA)	322	457	622	400	440
Avionics.....	(NA)	(NA)	(NA)	(NA)	(NA)	280	323	401	735	800

NA Not available. ¹ Estimated. ² Forecast. ³ N.e.c.=Not elsewhere classified.

Source: U.S. Dept. of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1990*.

NO. 1080. U.S. RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1970 TO 1988

[In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1387). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (-) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals.]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total receipts	3,669	14,208	15,671	15,491	16,200	17,824	19,062	21,004	23,870	27,790
Ocean transportation.....	2,256	7,757	8,028	7,685	8,133	8,849	8,846	9,169	10,060	11,116
Export freight earnings.....	604	2,641	2,803	2,549	2,881	2,702	2,866	2,610	2,806	2,959
Freight earnings on shipments between foreign countries.....	209	588	561	555	575	563	574	576	595	680
Port expenditures.....	1,406	4,435	4,552	4,468	4,562	5,457	5,274	5,843	6,514	7,315
Charter hire.....	37	93	112	113	115	127	132	140	145	153
Air transportation.....	1,240	5,946	7,160	7,326	7,596	8,480	9,735	10,966	12,825	15,652
Export freight earnings.....	187	742	752	762	576	645	706	783	982	1,385
Passenger fares.....	541	2,591	3,111	3,174	3,610	4,015	4,388	5,546	6,882	8,860
Port expenditures.....	512	2,613	3,297	3,370	3,410	3,800	4,641	4,637	4,961	5,407
Other transportation.....	173	505	483	480	471	515	481	869	985	1,022
Total payments	4,058	15,397	16,961	16,482	16,225	20,753	22,314	23,489	25,484	27,513
Ocean transportation.....	2,380	8,447	8,900	8,307	8,624	10,560	11,018	11,619	11,649	12,641
Import freight payments.....	1,444	5,809	6,073	5,562	5,827	7,755	8,114	8,636	8,657	9,505
Passenger fares.....	245	268	287	290	305	305	320	320	328	328
Port expenditures.....	316	1,905	2,054	1,957	1,980	1,972	2,048	2,125	2,114	2,244
Charter hire.....	375	465	486	498	512	528	536	538	550	564
Air transportation.....	1,581	6,705	7,785	7,938	9,361	9,950	11,070	11,581	13,527	14,525
Import freight payments.....	115	562	671	725	1,066	1,633	1,666	2,051	2,242	2,226
Passenger fares.....	970	3,339	4,200	4,482	5,698	6,605	6,351	6,454	7,095	7,544
Port expenditures.....	496	2,804	2,914	2,731	2,597	2,712	3,053	3,076	4,190	4,755
Other transportation.....	97	245	276	237	240	243	226	289	308	347
Balance	-389	-1,189	-1,290	991	-2,025	-2,929	-3,252	-2,485	-1,614	277

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, June issues, and unpublished data.

NO. 1081. EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1970 TO 1988

[Exports are free alongside ship (f.a.s.) value (see text, section 29) for all years; imports are f.a.s. value for 1980 and customs value for other years. Export data include both domestic and foreign; import data for general imports only. For details, see source.]

ITEM	Unit	EXPORTS						IMPORTS					
		1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
All methods ¹	Bil. dol.	43.2	220.7	213.1	227.2	252.9	320.4	40.0	240.8	345.3	365.4	405.9	441.3
Vessel.....	Bil. dol.	24.6	120.9	91.7	90.1	98.3	126.0	24.8	165.1	208.4	221.6	244.0	255.8
Air.....	Bil. dol.	6.1	46.1	52.3	63.4	69.0	91.6	3.4	28.0	51.3	62.0	67.0	77.5
Shipping weight: Vessel.....	Bil. lb.	480.5	801.8	700.5	653.3	708.6	797.6	598.4	976.8	797.0	914.2	938.0	1,029.2
Air.....	Bil. lb.	.9	2.3	1.8	2.1	2.4	3.0	.6	1.3	2.9	2.8	3.1	3.3

¹ Includes types other than vessel and air and revisions that are not distributed by method of transport.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT 990, monthly.

NO. 1082. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1960 TO 1988

[In millions of dollars. For fiscal years ending in year shown, see text, section 9. These expenditures represent the work of the Corps of Engineers to plan, design, construct, operate, and maintain civil works projects and activities, particularly in the management and improvement of rivers, harbors, and waterways for navigation, flood control, and multiple purposes. The amounts listed below do not include the expenditure of funds contributed, advanced, or reimbursed by other government agencies or local interests. Includes Puerto Rico and outlying areas.]

FISCAL YEAR	Total program ¹	Navi- gation	Flood control	Multi- ple pur- pose	FISCAL YEAR	Total program ¹	Navi- gation	Flood control	Multi- ple pur- pose
1960.....	873	310	293	270	1981.....	3,198	1,339	1,273	527
1965.....	1,169	426	447	283	1982.....	2,940	1,331	1,083	453
1970.....	1,128	398	379	331	1983.....	2,959	1,290	1,088	482
1975.....	2,070	694	904	439	1984.....	3,085	1,383	1,154	445
1977.....	2,340	792	918	594	1985.....	2,956	1,234	1,187	419
1978.....	2,645	951	1,069	583	1986.....	3,163	1,345	1,300	402
1979.....	2,934	1,083	1,218	577	1987.....	2,937	1,135	1,272	411
1980.....	3,061	1,225	1,228	551	1988.....	3,086	1,271	1,271	423

¹ Includes expenditures which are not associated with a specific purpose (e.g., headquarters staff supervision, management, and administration activities, and some research and development activities).

Source: U.S. Army Corps of Engineers, *Report of Civil Works Expenditures by State and Fiscal Year*, annual.

NO. 1083. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1960 TO 1987

[In billions of ton-miles. Excludes Alaska and Hawaii, except as noted. Includes waterways, canals, and connecting channels]

SYSTEM	1960	1970	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	220.3	318.6	409.3	424.6	406.9	410.2	351.2	359.0	399.0	381.7	392.6	410.7
Atlantic coast waterways.....	28.6	28.6	30.5	31.9	30.4	28.3	25.4	22.5	24.7	24.8	25.7	25.9
Gulf coast waterways.....	16.8	28.6	37.1	38.1	36.6	35.1	31.8	32.4	36.7	36.5	39.0	37.9
Pacific coast waterways ¹	6.0	8.4	13.6	14.1	14.9	14.4	12.8	13.2	20.5	19.9	20.8	22.8
Mississippi River system ²	69.3	138.5	209.3	218.8	228.9	234.4	218.0	223.0	234.6	224.7	239.3	251.8
Great Lakes system ³	99.5	114.5	118.9	121.7	96.0	98.0	63.2	67.9	82.5	75.8	67.9	72.5

¹Includes Alaskan waterways. ²Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers. ³Does not include traffic between foreign ports.

Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1084. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE AND VALUE, BY COASTAL DISTRICT: 1970 TO 1988

[Exports are free alongside ship (f.a.s.) value for all years; imports are f.a.s. value for 1980 and customs value for other years see text, section 29. Includes commodities classified for security reasons as "Special Category" (exports only) and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III]

DISTRICT	CARGO TONNAGE (mil. sh. tons)							VALUE (bil. dol.)						
	1970	1980	1984	1985	1986	1987	1988	1970	1980	1984	1985	1986	1987	1988
Imports:														
Atlantic.....	219	183	197	190	216	224	234	15.0	71.5	92.6	94.4	97.5	105.8	107.4
Gulf.....	47	243	155	141	171	184	212	2.9	56.4	35.7	32.8	27.0	30.5	31.2
Pacific.....	31	56	47	51	53	56	55	5.5	45.0	70.6	90.4	104.0	118.4	126.5
Great Lakes.....	26	16	18	17	14	14	16	1.3	1.9	2.7	2.8	2.3	2.0	2.5
Exports:														
Atlantic.....	79	117	82	93	83	78	92	11.9	51.0	37.5	35.2	36.3	38.7	48.2
Gulf.....	78	163	167	144	135	155	162	6.9	41.5	37.3	31.8	29.0	31.6	37.9
Pacific.....	48	78	86	81	82	95	110	4.1	25.2	27.2	25.8	26.3	31.9	43.3
Great Lakes.....	36	45	41	34	32	32	37	1.4	4.6	3.4	2.4	1.9	2.1	3.2

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, FT 985, annual.

NO. 1085. DOMESTIC AND FOREIGN WATERBORNE COMMERCE, BY TYPE OF COMMODITY: 1970 TO 1987

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, Great Lakes, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. Figures may differ from those shown in table 1061 due to minor differences in basic concepts]

COMMODITY	1970		1980		1985		1987			
	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Foreign	
									Im- ports	Ex- ports
Net total	1,531.7	850.7	1,998.9	1,077.5	1,788.4	1,014.1	1,967.5	1,076.5	507.7	383.3
Petroleum products ¹	394.7	287.3	423.2	339.2	368.8	259.0	406.7	277.2	90.2	39.3
Gasoline.....	89.3	88.7	87.3	81.0	94.0	78.0	102.9	81.3	19.8	1.8
Distillate fuel oil.....	78.8	76.9	74.6	72.1	70.0	55.0	73.4	56.7	12.4	4.3
Residual fuel oil.....	170.5	78.8	188.0	141.3	130.0	83.7	144.0	91.0	41.0	12.0
Crude petroleum.....	210.5	116.3	480.2	174.2	357.7	194.7	441.0	203.1	237.7	2.2
Coal and lignite.....	225.4	154.1	256.4	164.1	273.9	179.9	271.3	190.6	1.3	79.4
Nonmetallic minerals ^{1 2}	166.6	132.6	157.1	111.6	150.7	108.5	155.4	112.4	23.3	19.7
Sand and gravel ³	78.4	73.9	65.1	60.8	66.4	62.0	70.3	65.1	3.8	1.5
Limestone.....	42.0	34.1	34.2	23.9	24.5	21.9	30.6	26.8	.6	3.1
Phosphate rock.....	18.6	5.8	23.7	9.5	19.4	8.4	16.1	6.5	.5	9.1
Iron and concentrates.....	129.3	75.2	98.4	64.9	72.7	50.0	74.0	50.3	17.9	5.8
Farm products ¹	90.4	28.5	216.8	83.4	172.8	60.0	187.8	65.2	6.5	116.1
Corn.....	27.2	11.7	98.6	30.8	76.3	29.0	75.0	31.3	(2)	43.6
Wheat.....	25.0	5.8	53.4	14.3	38.0	10.6	44.5	10.7	.1	33.8
Soybeans.....	21.2	8.3	39.6	16.1	32.9	14.9	41.2	18.1	(2)	23.1
Chemicals and allied products.....	62.0	39.7	91.9	49.4	108.5	53.3	123.1	63.8	24.2	35.2
Food and kindred products.....	35.0	11.0	54.8	20.4	52.5	17.6	62.6	22.6	12.9	27.0
Lumber and wood products ⁴	49.9	27.3	52.0	22.7	47.2	18.8	54.9	22.7	4.9	27.3
Primary metal products.....	42.4	10.8	28.9	9.0	33.4	8.5	29.4	8.4	19.5	1.4
Waste and scrap.....	25.9	16.0	31.1	18.8	37.4	23.9	41.0	26.2	.8	14.0
Other.....	99.7	51.9	108.1	39.8	112.8	40.0	120.3	34.0	68.4	18.0

Z Less than 50,000. ¹Includes categories not shown separately. ²Excludes fuels. ³Includes crushed rock. ⁴Excludes furniture.

Source: U.S. Army Corps of Engineers, *Waterborne Commerce of the United States*, annual.

Transportation—Air and Water

NO. 1086. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY FLAG OF CARRIER VESSEL: 1966 TO 1988

[In millions of net tons, except as indicated. Includes Puerto Rico and Virgin Islands. Seaports comprise all ports except Great Lakes ports. See also *Historical Statistics, Colonial Times to 1970*, series Q 507-517]

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS						
	Number of vessels	Tonnage, all vessels				Tonnage, all vessels			Tonnage, with cargo			
		Total	U.S.	Percent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign	
Entered:												
1966-1970	53,459	232	29	12.5	203	206	27	180	157	18	139	
1971-1975	53,760	319	30	9.5	290	292	28	264	220	24	196	
1976-1980	53,700	458	40	8.7	418	425	38	387	316	30	286	
1981-1985	50,124	452	57	12.4	395	424	55	369	277	36	241	
1970	53,293	254	26	10.3	226	227	24	202	171	19	152	
1975	51,443	355	32	9.9	323	326	30	297	240	26	215	
1980	53,645	492	52	10.6	440	460	50	410	310	34	276	
1984	49,239	459	53	11.5	406	429	51	378	291	33	258	
1985	53,531	451	53	11.7	398	426	52	374	283	34	249	
1986	56,859	489	49	10.0	439	463	48	415	310	32	278	
1987	59,563	518	48	9.3	470	492	47	445	333	29	304	
1988	62,097	556	47	8.5	509	527	46	481	352	30	322	
Cleared:												
1966-1970	52,415	232	30	12.8	202	206	27	179	122	23	99	
1971-1975	53,039	324	31	9.9	293	296	29	267	149	21	127	
1976-1980	52,931	453	41	9.1	412	420	36	382	203	26	177	
1981-1985	50,291	460	57	12.4	403	432	55	377	251	34	217	
1970	52,195	253	27	10.6	226	226	25	201	132	20	112	
1975	51,017	363	34	10.3	329	334	31	303	168	23	144	
1980	52,928	487	54	11.1	433	456	51	405	246	33	213	
1984	49,819	468	54	11.5	414	438	51	387	250	32	218	
1985	53,095	461	55	11.9	406	435	53	382	253	36	217	
1986	55,710	491	51	10.4	441	466	49	417	246	33	212	
1987	58,307	521	49	9.4	472	495	48	447	269	31	238	
1988	60,540	561	49	8.7	512	531	47	484	295	31	264	

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1087. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY COASTAL DISTRICTS: 1970 TO 1988

[In millions of net tons. Excludes domestic trade. Virgin Islands and Puerto Rico included in South Atlantic Coast, Hawaii in South Pacific Coast, Alaska in North Pacific Coast]

COASTAL DISTRICT	VESSELS ENTERED							VESSELS CLEARED						
	1970	1980	1984	1985	1986	1987	1988	1970	1980	1984	1985	1986	1987	1988
North Atlantic Coast	102.1	118.6	116.2	114.5	121.4	119.2	130.9	99.9	115.2	107.0	110.8	116.2	109.6	121.7
With cargo	85.4	82.1	93.4	85.9	89.9	100.2	107.9	43.7	57.8	47.1	52.7	47.8	45.4	53.6
South Atlantic Coast	36.1	65.3	63.8	68.2	77.6	85.8	91.1	31.3	60.1	62.7	63.3	70.3	80.5	89.4
With cargo	27.1	41.9	42.7	44.3	44.0	47.4	47.9	11.9	22.4	24.6	25.6	25.9	28.1	31.9
Gulf Coast	36.1	172.7	138.5	127.4	146.6	162.7	172.5	42.8	175.0	144.6	134.9	153.1	167.3	179.1
With cargo	23.0	122.8	91.5	84.6	103.1	112.6	122.2	36.8	85.0	79.1	73.5	73.4	83.0	93.9
South Pacific Coast	27.5	53.3	60.9	65.4	66.1	67.5	69.6	27.7	45.1	58.8	59.4	60.8	63.5	64.6
With cargo	21.8	38.0	41.0	44.0	45.2	45.4	45.8	20.9	31.7	44.9	45.0	44.3	49.7	50.0
North Pacific Coast	24.9	50.6	49.5	50.0	51.4	56.9	62.5	24.3	60.3	64.8	66.7	65.8	73.5	76.2
With cargo	13.8	26.6	22.1	23.7	27.8	27.3	27.8	19.0	49.0	54.7	56.0	54.1	62.9	65.6
Great Lakes	27.5	31.1	30.1	26.3	25.4	26.4	29.4	27.2	31.5	30.0	26.1	25.1	26.5	29.5
With cargo	15.2	11.3	13.5	11.6	11.7	11.6	12.3	20.2	23.7	23.1	20.7	19.8	20.5	23.0

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, FT 975, annual.

NO. 1088. DOMESTIC MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1970 TO 1987

[Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-448]

TYPE	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Merchant vessels	Number	13	15	14	15	10	12	11	13	5	8	5	4
Gross tons	1,000	342	452	912	1,149	375	275	337	376	118	172	215	153
Cargo	Number	6	3	2	4	6	2	6	6	-	4	2	3
Gross tons	1,000	120	65	27	53	105	53	221	228	-	113	66	58
Deadweight tons	1,000	134	71	30	47	114	73	219	219	-	97	53	63
Tankers	Number	7	12	12	11	4	10	5	7	5	4	3	1
Gross tons	1,000	222	387	885	1,086	270	222	116	148	118	59	149	95
Deadweight tons	1,000	427	742	1,392	1,901	354	358	226	277	210	92	271	209

- Represents zero.

Source: U.S. Maritime Administration, *New Ship Construction*, annual.

NO. 1089. UNITED STATES FLAG MERCHANT VESSELS—NUMBER AND VESSEL DEADWEIGHT TONNAGE: 1970 TO 1988

[Deadweight tonnage in thousands. As of end of fiscal year; see text, section 9. Covers oceangoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types such as tugs, barges, cable ships, fishing trawlers, and vessels employed on Great Lakes. See also *Historical Statistics, Colonial Times to 1970*, series Q 487-502]

ITEM	CARGO ¹						TANKER					
	1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
Number of vessels	1,479	553	485	484	470	432	301	310	263	254	254	251
Active:												
Foreign trade	354	195	129	123	97	128	32	32	32	33	38	42
Domestic trade ²	70	46	36	37	40	42	175	211	135	131	130	135
Coastwise ³	10	12	4	8	11	7	132	103	24	88	81	80
Noncontiguous	43	34	30	29	35	35	35	45	52	43	49	55
Special service	146	44	45	41	37	31	42	23	26	26	25	25
Inactive:												
Temporarily	41	31	58	55	60	14	22	24	50	42	38	17
Reserve fleet	868	237	217	228	236	217	30	20	20	22	23	32
Vessel deadweight tonnage	15,445	7,872	8,792	9,106	9,040	8,887	7,835	16,107	15,647	15,393	16,074	16,790
Active:												
Foreign trade	4,699	3,826	3,623	3,468	2,528	3,861	1,076	2,793	1,825	2,007	2,174	3,495
Domestic trade ²	850	713	659	775	881	875	4,518	10,546	8,909	8,699	8,700	9,464
Coastwise ³	116	200	108	226	340	220	3,483	3,078	1,028	3,631	3,386	3,202
Noncontiguous	482	479	509	549	541	655	870	3,699	5,534	5,068	5,314	6,262
Special service	1,741	560	932	860	796	743	1,189	661	747	745	744	744
Inactive:												
Temporarily	472	451	1,169	1,204	1,748	477	691	1,806	3,758	3,474	3,530	1,818
Reserve fleet	7,684	2,322	2,409	2,799	3,087	2,931	361	301	408	468	926	1,269

¹ Includes combination passenger and cargo vessels, not shown separately. ² Prior to 1986 includes intercoastal, not shown separately. ³ Beginning 1986, includes intercoastal.

Source: U.S. Maritime Administration, *Employment Report of the United States Flag Merchant Fleet Ocean-going Vessels 1,000 Gross Tons and Over*, annual.

NO. 1090. PRIVATE SHIPYARDS—SUMMARY: 1970 TO 1989

[For calendar year, unless noted. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458 and series Q 467-472]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Employment	1,000	133.4	177.3	166.9	143.0	142.0	130.3	120.6	120.4	121.0	115.2
Production workers	1,000	108.5	141.8	130.8	112.0	111.0	99.0	90.3	90.8	90.9	86.6
Value of work done	Mil. dol.	2,682	9,269	10,979	9,883	8,944	9,358	8,840	8,531	(NA)	(NA)
On ships only	Mil. dol.	2,594	8,889	10,655	9,107	8,308	9,483	8,913	8,377	(NA)	(NA)
Value added	Mil. dol.	1,816	5,338	6,386	5,752	5,206	5,740	5,426	5,227	(NA)	(NA)
Building activity:											
Merchant vessels: ²											
Under construction ³	Number	49	69	35	21	10	10	7	6	-	-
Ordered	Number	13	7	3	4	5	-	-	-	-	-
Delivered	Number	13	23	17	15	5	3	1	4	-	-
Cancelled	Number	-	4	-	-	-	-	-	2	-	-
Under contract ⁴	Number	49	49	21	10	10	7	6	-	-	-
Naval vessels: ²											
Under construction ³	Number	108	99	93	105	111	100	85	79	83	105
Ordered	Number	6	11	30	27	11	11	16	20	32	(NA)
Delivered	Number	32	19	18	21	22	26	20	16	10	(NA)
Under contract ⁴	Number	82	91	105	111	100	85	79	83	105	(NA)
Repairs/conversions:											
Commercial ships	Mil. dol.	431	1,335	1,592	1,419	1,631	852	847	806	(NA)	(NA)
Naval ships	Mil. dol.	359	1,134	1,571	1,689	1,641	2,311	2,008	1,930	(NA)	(NA)
Unfinished work: ³											
Commercial ships	Mil. dol.	765	2,070	838	372	100	450	315	53	-	-
Naval ships	Mil. dol.	1,719	7,107	8,025	12,200	14,003	12,091	9,595	8,265	10,500	16,800

- Represents zero. NA Not available. ¹ Estimate as of June. ² Vessels of 1,000 tons or larger. ³ As of Jan. 1. ⁴ As of Dec. 31. ⁵ Two ships were cancelled during 1986.

Source: Shipbuilders Council of America, Washington, DC, *Annual Report*, through 1982; thereafter, unpublished data.

NO. 1091. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1988

[In thousands. Annual average employment in establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters of 5 gross tons and over, whether propelled by sail or motor power, or towed by other craft. Includes all full- and part-time employees.]

YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards
1960.....	208	112	96	1979.....	244	173	71	1984.....	229	146	83
1970.....	216	134	83	1980.....	251	178	73	1985.....	219	138	80
1975.....	217	154	65	1981.....	264	187	77	1986.....	206	131	75
1977.....	242	174	88	1982.....	252	172	80	1987.....	199	124	75
1978.....	243	172	71	1983.....	227	143	84	1988.....	197	123	74

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly, and unpublished data.

NO. 1092. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1970 TO 1988, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1970 TO 1989

[Employment in thousands. See also *Historical Statistics, Colonial Times to 1970*, series Q 414-416]

YEAR	Em- p- loy- ment ¹	YEAR	Em- p- loy- ment ¹	YEAR	East coast wage rate ²	West coast wage rate ²	YEAR	East coast wage rate ²	West coast wage rate ²
1970.....	37.6	1983.....	15.3	1970.....	\$470	\$652	1983.....	\$1,320	\$1,862
1975.....	20.5	1984.....	13.7	1975.....	612	900	1984.....	1,419	2,029
1979.....	19.7	1985.....	13.1	1978.....	804	1,172	1985.....	1,419	2,069
1980.....	19.6	1986.....	11.5	1979.....	865	1,287	1986.....	1,419	2,132
1981.....	18.3	1987.....	10.4	1980.....	967	1,414	1987.....	1,419	2,132
1982.....	16.7	1988.....	10.7	1981.....	1,120	1,535	1988.....	1,419	2,175
				1982.....	1,204	1,686	1989.....	1,448	2,218

¹ As of June 30, except beginning 1979, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. ² Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

Source: U.S. Maritime Administration, *U.S. Merchant Marine Data Sheet*, monthly and unpublished data.

NO. 1093. WORLDWIDE TANKER CASUALTIES: 1975 TO 1989

[Data for 1975-1982 covers tankers, ore/oil carriers and bulk/oil vessels of 6,000 deadweight tons and over; beginning 1983, 10,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps.]

ITEM	Unit	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 ¹
Casualties.....	Number.....	906	(NA)	(NA)	(NA)	(NA)	(NA)	340	451	408	456	269
Total losses ²	Number.....	22	15	21	21	11	14	12	8	5	3	5
Deaths.....	Number.....	90	132	73	72	14	68	53	23	12	63	70
Oil spills.....	Number.....	45	32	33	9	17	15	9	8	12	13	13
Amount.....	1,000 tons.....	188.0	135.6	45.3	1.8	387.8	22.4	79.8	5.0	8.7	178.3	67.8

NA Not available. ¹ Jan.-June. ² Excludes losses due to hostilities.

Source: Tanker Advisory Center, Inc., New York, NY, "Worldwide Tanker Casualty Returns," quarterly.

NO. 1094. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1988

[Vessels of 100 gross tonnage and above. Excludes sailing ships, nonpropelled craft, and all ships built of wood. See also *Historical Statistics, Colonial Times to 1970*, series Q 473-480]

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: REGISTERED	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)
1960.....	2,005	8,382	36,911	129,770	49	379	4,059	24,837
1970.....	2,814	20,980	52,444	227,480	156	375	2,983	18,463
1980.....	2,412	13,101	73,832	419,911	205	555	5,579	18,464
1982.....	2,312	16,820	75,151	424,742	204	216	6,133	19,111
1983.....	2,276	15,911	76,106	422,590	159	381	6,437	19,358
1984.....	2,210	18,334	76,068	418,682	73	84	6,441	19,292
1985.....	1,964	18,157	76,395	416,269	66	180	6,447	19,518
1986.....	1,634	16,845	75,266	404,910	36	223	6,496	19,901
1987.....	1,528	12,259	75,240	403,498	29	184	6,427	20,178
1988.....	1,575	10,909	75,680	403,406	60	11	6,442	20,832

Source: Lloyd's Register of Shipping, London, England, *Statistical Tables*, annual; and *Annual Summary of Merchant Ships Completed in the World*.

**NO. 1095. MERCHANT VESSELS—SHIPS AND TONNAGE LOST WORLDWIDE, BY TYPE OF SHIP:
1980 TO 1987**

[For merchant vessels of 100 gross tonnage and above. Excludes ships which have been declared constructive losses but have undergone repair during the year. Loss counted in the year the casualty occurred, providing that information available at time of relevant publication]

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1980	1985	1986	1987		1980	1985	1986	1987	
				Total	Percent of total				Total	Percent of total
Total	387	307	265	219	100.0	1,804	1,651	2,609	1,284	100.0
Tankers.....	24	19	23	12	5.5	707	776	1,385	358	27.9
Ore/bulk carriers ²	21	22	20	18	8.2	458	405	757	522	40.6
General cargo.....	211	155	128	105	47.9	478	363	341	332	25.8
Container ships.....	2	5	2	3	1.4	6	41	15	22	1.7
Passenger ³	9	—	2	—	—	—	—	37	—	—
Fishing.....	96	66	44	51	23.3	30	26	16	19	1.5

— Represents zero. ¹ Includes types not shown separately. ² Includes ore/bulk/oil carriers. ³ Includes passenger cargo ships.

Source: Lloyd's Register of Shipping, London, England, *Casualty Return*, annual.

NO. 1096. MERCHANT FLEETS OF THE WORLD: 1980 TO 1987

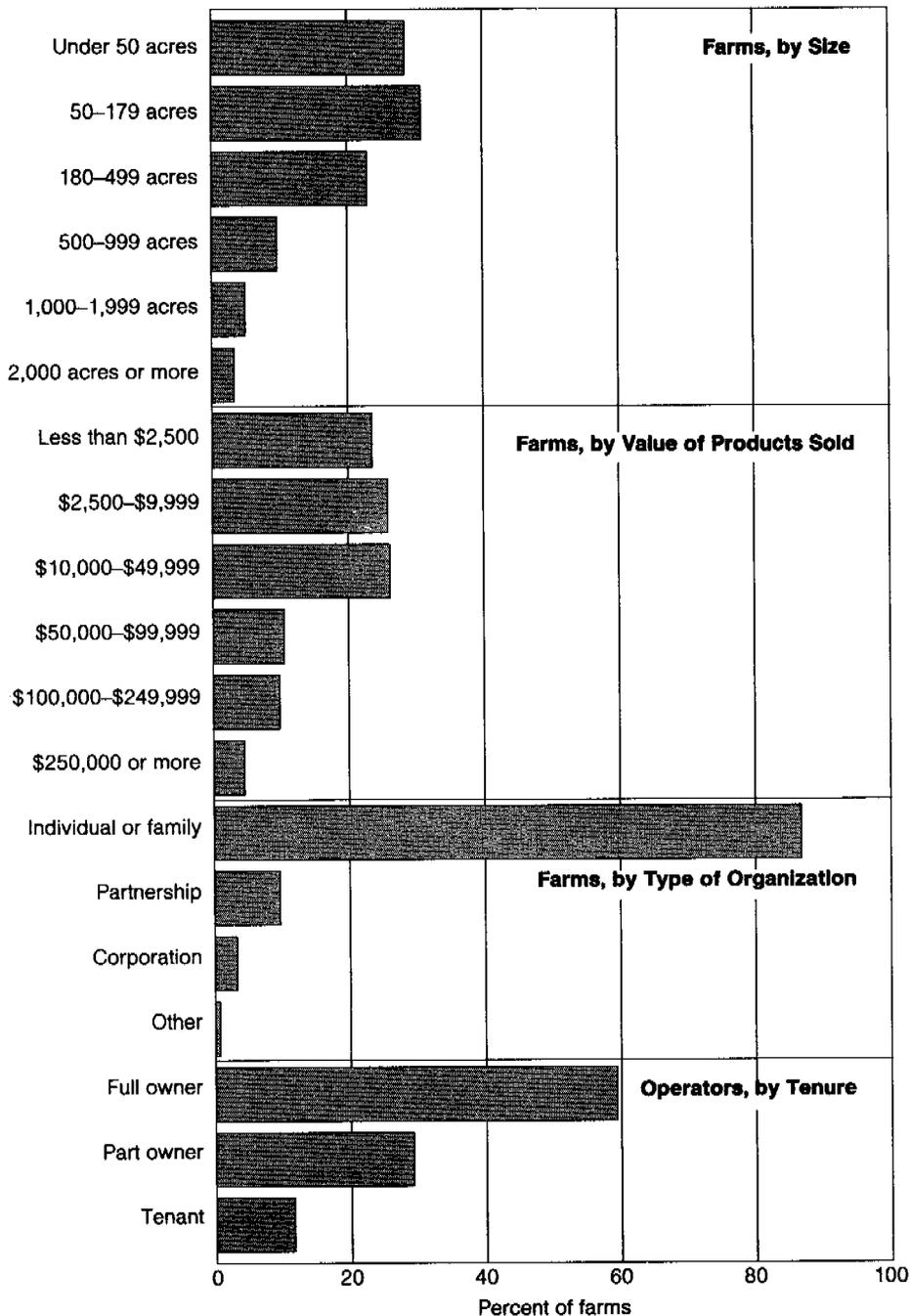
[Vessels of 1,000 gross tons and over. As of Jan. 1 of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY	TOTAL		PASSENGER/ CARGO COMB.		FREIGHTERS		BULK CARRIERS ¹		TANKERS	
	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)
1980, world total	24,867	13	468	24	14,242	14	4,798	10	5,359	12
United States.....	864	23	65	34	471	23	20	22	308	20
Foreign.....	24,003	13	403	22	13,771	13	4,778	10	5,051	11
1985, world total	25,555	14	375	25	13,937	15	5,787	11	5,456	13
United States.....	737	23	37	38	417	25	25	9	258	19
Foreign.....	24,818	14	338	23	13,520	15	5,762	11	5,198	13
1986, world total	23,818	14	352	25	12,786	14	5,481	11	4,999	13
United States.....	720	23	36	39	411	25	26	10	247	18
Foreign.....	22,898	13	316	23	12,375	14	5,455	11	4,752	13
1987, world total	23,307	14	343	23	12,572	15	5,302	12	5,090	14
United States.....	709	22	23	41	406	24	26	12	254	19
Privately owned.....	444	16	5	26	192	14	26	12	221	18
Government-owned.....	265	33	18	43	214	32	—	(X)	33	31
Foreign.....	22,598	14	320	22	12,166	15	5,276	12	4,836	13
Argentina.....	144	18	—	(X)	80	18	16	16	48	17
Brazil.....	324	14	3	28	148	19	93	9	82	13
British Colonies.....	514	15	4	16	206	17	21	12	93	15
Bulgaria.....	116	15	4	16	51	16	46	14	15	17
China: Mainland.....	1,211	18	12	25	816	19	220	15	163	17
Taiwan.....	210	12	1	18	142	13	53	10	14	13
Cuba.....	100	14	1	32	77	13	9	12	13	17
Cyprus.....	1,168	15	5	32	640	15	396	15	127	15
Denmark.....	211	8	3	23	142	7	10	8	56	10
East Germany.....	151	14	1	8	127	15	19	13	4	10
Egypt.....	139	17	8	27	103	18	17	7	11	20
France.....	185	12	6	10	92	11	21	8	66	14
Greece.....	1,030	15	32	28	293	18	498	13	207	16
Honduras.....	141	25	1	34	113	26	10	24	17	23
India.....	509	13	6	24	133	15	107	11	63	10
Indonesia.....	332	19	9	13	222	21	11	8	90	16
Iran.....	117	13	—	(X)	37	17	52	10	28	15
Italy.....	525	16	11	19	206	16	83	14	225	17
Japan.....	1,265	8	11	10	543	7	367	9	344	8
Liberia.....	1,465	12	10	16	299	12	540	12	616	11
Malaysia.....	161	15	1	(X)	102	17	19	10	39	12
Malta.....	195	18	2	56	110	18	52	18	31	18
Netherlands.....	385	9	4	9	306	9	15	8	60	8
Norway.....	160	14	11	29	83	14	9	14	57	9
Panama.....	3,208	12	30	29	1,681	13	895	10	602	11
Philippines.....	530	13	13	28	224	15	248	8	45	25
Poland.....	253	13	3	9	151	13	91	12	8	14
Romania.....	290	12	(X)	(X)	212	12	88	12	10	8
Saudi Arabia.....	111	19	3	28	41	19	6	18	61	18
Singapore.....	432	12	1	(X)	228	14	80	9	123	11
South Korea.....	423	14	—	(X)	220	15	140	12	63	14
Soviet Union.....	2,439	17	37	25	1,740	17	228	12	434	15
Spain.....	389	13	—	(X)	236	13	63	12	90	15
Sweden.....	175	13	3	17	102	12	12	16	58	14
Thailand.....	109	21	—	(X)	77	22	2	19	30	21
Turkey.....	334	14	5	35	217	12	60	16	52	16
United Kingdom.....	273	14	14	16	117	13	15	19	92	19
West Germany.....	376	6	8	11	300	6	15	5	55	8
Yugoslavia.....	267	14	3	26	141	14	77	13	11	13
All others.....	2,431	(NA)	56	(NA)	1,375	(NA)	367	(NA)	633	(NA)

— Represents zero. NA Not available. X Not applicable. ¹ Includes bulk/oil, ore/oil, and ore/bulk/oil carriers.

Source: U.S. Maritime Administration, *Merchant Fleets of the World*, summary report, annual.

Figure 23.1
Profile of U.S. Agriculture: 1987



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1103, 1104, 1107, and 1110.



Section 23 Agriculture

This section presents statistics on farms and farm population; land use and irrigation; farm cooperatives; farm income, expenditures, and debt; farm output, productivity, and marketings; foreign trade in agricultural products; specific crops; and livestock, poultry, and their products.

The principal sources are the reports issued by the U.S. Bureau of the Census and by the National Agricultural Statistics Service (NASS) and the Economic Research Service (ERS) of the U.S. Department of Agriculture. The Bureau of the Census has taken a census of agriculture every 10 years from 1840 to 1920 and every 5 years from 1925 through 1974. Two 4-year censuses, taken for 1978 and 1982, adjusted the data reference year to coincide with the economic censuses. The 1987 Census of Agriculture is the most recent census for which reports are presently available. The Department of Agriculture publishes annually *Agricultural Statistics*, a general reference book on agricultural production, supplies, consumption, facilities, costs, and returns. The Economic Research Service publishes a series of annual reports, *Economic Indicators of the Farm Sector*. This series comprises five reports: *National Financial Summary*, *State Financial Summary*, *Production and Efficiency Statistics*, *Costs of Production*, and *Farm Sector Review*. Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade of the United States*, published by the ERS, and the reports of the Bureau of the Census, particularly *U.S. General Imports, Schedule A, Commodity by Country*, and *U.S. Exports, Schedule B, Commodity by Country*.

The 44 field offices of the NASS collect data on crops, livestock and products, agricultural prices, farm employment, and other related subjects mainly through sample surveys. Information is obtained on some 75 crops and 50 livestock items as well as scores of items pertaining to agricultural production and marketing. State estimates and supporting information are sent to the Agricultural Statistics Board of NASS which reviews the estimates and issues reports containing State and national data. Among these reports are annual summaries such as *Crop Production*, *Crop Values*, *Agricultural Prices*, and *Livestock Production, Disposition and Income*. For more information about concepts and methodology underlying USDA's statistical series, see *Major Statistical Series of the U.S. Department of Agriculture* (Agricultural Handbook No. 671), a 12-volume set of publications.

Farms and farmland.—The Bureau of the Census has used varying definitions of a farm. Data from the census of agriculture reflect the definition of farm used for the census year. For the 1974, 1978, 1982, and 1987 Censuses of Agriculture, a farm was defined as any place from which \$1,000 or more of agricultural products were produced and sold or normally would have been sold during the census year. Control may have been exercised through ownership or management, or through a lease, rental, or cropping arrangement. In the case of landowners who had one or more tenants, or renters, the land operated by each was counted as a separate farm. The effect of the change in definition must be considered when comparing farms in the 1974, 1978, 1982, and 1987 censuses with those in previous censuses. In the 1969 census, as well as the 1959 and 1964 censuses, places of less than 10 acres were counted as farms if estimated sales of agricultural products for the year amounted to at least \$250, and places of 10 or more acres if such sales amounted to at least \$50.

Unless otherwise stated in the specific tables of this section, the definition of a farm applicable to data originated by the Department of Agriculture is the one used by the Bureau of the Census for the agriculture census immediately preceding the year or years for which the data are shown.

Farmland refers to all land under the control of a farm operator, including land not actually under cultivation or not used for pasture or grazing. Land used for pasture or grazing on a per head basis that was neither owned nor leased by a farm operator is not included except for grazing lands controlled by grazing associations leased on a per acre basis.

Coverage estimates for 1978 and 1982 indicate about 3.4 and 9.1 percent of all farms, respectively, were not included in census totals. Coverage estimates for 1987 are not yet available. Farms undercounted in the 1978 and 1982 Censuses were usually small and accounted for approximately 2 percent of the total value of agricultural products sold and approximately 2 percent of the land in

farms. For more explanation about data comparability, see Appendixes A and C, *1982 Census of Agriculture*, volume 1 reports and *Coverage Evaluation, Volume 2, Part 2*.

Farm population.—Farm population consists of all persons living on farms in rural areas. Farm population data shown for 1960 to 1975 are based on the definition of a farm used for the 1959, 1964, and 1969 Censuses of Agriculture. Farm population data for 1980 to 1983 are shown on the basis of both the 1969 and 1974 census farm definitions and are so indicated. Beginning in 1984, farm population data are based only on the farm definition adopted for the 1974 Census of Agriculture.

Farm income.—Gross farm income comprises cash receipts from farm marketings of crops and livestock, Federal government payments made directly to farmers for farm-related activities, rental value of farm homes, value of farm products consumed in farm homes, and other farm-related income such as machine hire and custom work. Farm marketings represent agricultural products sold by farmers multiplied by prices received per unit of production at the local market.

Information on prices received for farm products is generally obtained by the NASS Agricultural Statistics Board from surveys of firms (such as grain elevators, packers, and processors) purchasing agricultural commodities directly from producers. In some cases, the price information is obtained directly from the producers.

Crops.—Estimates of crop acreage and production by the NASS are based on current sample survey data obtained from individual producers and objective yield counts, reports of carlot shipments, market records, personal field observations by field statisticians, and reports from other sources. Cotton acreage and production are based on sample survey data and on ginning information gathered by the Bureau of the Census.

Prices received by farmers are marketing year averages. These averages are based on U.S. monthly prices weighted by monthly marketings during specific periods. U.S. monthly prices are State average prices weighted by marketings during the month. Marketing year average prices do not include allowances for outstanding loans, government purchases, deficiency payments or disaster payments.

All State prices are based on individual State marketing years, while U.S. marketing year averages are based on standard marketing years for each crop. For a listing of the crop marketing years and the participating States in the monthly program, see *Crop Values*, January 1988. Value of production is computed by multiplying State prices by each State's production. The U.S. value of production is the sum of State values for all States. Value of production figures shown in tables 1150, 1152-1157, 1159, and 1160 should not be confused with cash receipts from farm marketings which relate to sales during a calendar year, irrespective of the year of production.

Price supports.—Agricultural income is supplemented through two basic Government-support mechanisms available to producers of eligible commodities: (1) a *market price support* (loan rate) through which producers may place any portion of their production in approved storage and receive a loan at a specified rate. The farmer may repay the loan with interest and retain the commodity or, at the end of the loan period, forfeit the commodity as full payment of the loan; (2) a *farm income support* (target price) whose payments vary inversely with the market price of the specified commodity. "Deficiency payments" are made when market prices for a specified period are below the target prices. The payment rate is the difference between the target price and market price, or between the target price and loan rate, whichever is smaller.

Livestock.—Annual inventory numbers of livestock and estimates of livestock, dairy, and poultry production prepared by the Department of Agriculture are based on information from farmers and ranchers obtained by probability survey sampling methods.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability pertaining to Census Bureau and Department of Agriculture data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Food and Fiber Sector—Farm Population

637

NO. 1097. FOOD AND FIBER SECTOR OF DOMESTIC ECONOMY—EMPLOYMENT AND VALUE ADDED: 1975 TO 1988

(Employment in millions; value added in billions of dollars, except as indicated)

SECTOR	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
EMPLOYMENT										
Food and fiber sector, total	20.2	21.5	21.6	21.9	21.4	21.4	21.0	20.7	20.1	19.6
Percent of domestic economy ¹	21.5	20.1	19.9	19.8	19.2	18.8	18.2	17.6	16.8	16.1
Farm sector.....	3.0	2.6	2.7	2.6	2.8	2.7	2.3	2.2	2.0	1.8
Nonfarm sector.....	17.2	18.9	19.0	19.2	18.6	18.6	18.7	18.5	18.1	17.8
Food processing.....	1.5	1.5	1.5	1.6	1.5	1.4	1.5	1.4	1.3	1.2
Manufacturing.....	3.2	3.4	3.4	3.3	3.1	3.0	2.9	2.8	2.6	2.5
Transportation, trade, and retailing.....	5.7	6.4	6.5	6.6	6.6	6.7	6.7	6.7	6.6	6.5
Eating establishments.....	3.1	3.6	3.5	3.5	3.6	3.6	3.6	3.6	3.7	3.8
Other.....	3.7	4.0	4.1	4.2	4.0	4.1	4.1	4.0	3.9	3.8
VALUE ADDED ²										
Food and fiber sector, total	325.7	499.9	562.3	611.3	602.7	660.5	699.1	713.6	714.1	727.3
Percent of domestic economy.....	20.4	18.3	18.4	19.3	17.7	17.5	17.4	16.9	15.8	14.9
Farm sector.....	43.3	55.1	67.3	75.1	49.8	64.6	71.4	66.0	58.9	58.3
Nonfarm sector.....	282.4	444.8	495.0	536.2	552.9	596.0	627.7	647.6	655.2	669.0
Food processing.....	38.7	56.0	61.7	70.0	70.4	75.6	83.7	87.3	83.1	82.9
Manufacturing.....	57.0	83.0	93.1	97.5	98.0	101.5	102.2	104.5	100.9	102.4
Transportation, trade, and retailing.....	96.8	157.5	175.6	188.1	196.8	209.8	221.0	226.2	231.7	239.2
Eating establishments.....	25.7	42.0	44.6	48.1	52.0	55.7	57.5	60.2	65.3	69.1
Other.....	64.2	106.3	120.0	132.5	135.7	153.5	163.3	169.3	174.2	175.4

¹ Based on civilian labor force. ² Value added equals profits, rent, interest, wages, indirect business taxes, and depreciation.
Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Farm Sector Review*, annual.

NO. 1098. FARM POPULATION AND EMPLOYMENT: 1960 TO 1988

(In thousands, except percent. For definition of farm population, see text, section 23. See also *Historical Statistics, Colonial Times to 1970*, series C 76 and K 1-2 and K 174-176)

ITEM	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Farm population (1974 definition) ¹	(NA)	(NA)	(NA)	6,051	5,850	5,628	5,787	5,754	5,355	5,226	4,986	4,951
Percent of resident population.....	(NA)	(NA)	(NA)	2.7	2.6	2.4	2.5	2.4	2.2	2.2	2.0	2.0
Farm population (1969 definition) ¹	15,635	9,712	8,864	7,241	7,014	6,880	7,029	(NA)	(NA)	(NA)	(NA)	(NA)
Percent of resident population.....	8.7	4.8	4.2	3.3	3.1	3.0	3.0	(NA)	(NA)	(NA)	(NA)	(NA)
Farm employment, total ²	7,057	4,523	4,342	3,705	3,330	4,043	3,749	3,405	3,115	2,912	2,897	2,954
Family member ³	5,172	3,348	3,025	2,402	2,236	2,494	2,271	2,175	2,017	1,873	1,846	1,917
Hired workers ⁴	1,885	1,175	1,317	1,303	1,094	1,549	1,478	1,230	1,098	1,039	1,051	1,037

NA Not available. ¹ April-centered five-quarter averages for 1960 to 1983; annual average for 1984 to 1988.
² 1960 and 1970, averages of monthly estimates of employed during last full calendar week ending at least one day before end of month; 1975-1980 annual quarterly averages; 1981, average based on employment data from Jan. and April quarterly surveys; 1982-1983 based on July survey; 1984, average from July and Oct. surveys; 1985-1988 average from April, July and Oct. surveys.
³ Includes farm operators doing 1 or more hours of farm work and unpaid family members doing 15 or more hours of farm work during survey week. ⁴ Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.
Source: Population—U.S. Dept. of Agriculture, Economic Research Service and U.S. Bureau of the Census. For 1987 and earlier years, published in U.S. Bureau of the Census, *Current Population Reports*, series P-27, No. 61 and earlier reports, 1988, published in U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 439. Farm employment—U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Labor*, periodic.

NO. 1099. CHARACTERISTICS OF FARM AND NONFARM FAMILIES: 1970 TO 1988

(As of March. 1970 based on 1969 census farm definition and 1980 and 1988 based on 1974 definition; see text, section 23. 1970, 1980 and 1988 data are based on population controls from 1960, 1970, and 1980 censuses respectively; see text, section 1. Based on Current Population Survey, see text, section 1 and Appendix III. For definition of median, see Guide to Tabular Presentation)

CHARACTERISTIC	1970			1980			1988		
	Total	Farm	Nonfarm	Total	Farm	Nonfarm	Total	Farm	Nonfarm
Total families (1,000).....	51,237	2,457	48,781	58,426	1,666	56,760	65,133	1,428	63,705
Persons per family.....	3.62	3.77	3.61	3.28	3.35	3.27	3.17	3.19	3.17
With own children under 18 (1,000).....	29,665	1,169	27,496	30,517	745	29,772	31,920	579	31,341
Mean number of own children.....	2.33	2.61	2.32	1.89	2.00	1.89	1.51	1.37	1.81
Percent with: 1 or 2 children.....	63.6	57.2	63.9	77.0	71.5	77.2	79.9	74.1	80.0
3 or 4 children.....	28.5	29.3	28.5	20.4	24.8	20.3	18.4	23.3	18.3
5 or more children.....	7.8	13.5	7.6	2.5	3.5	2.5	1.7	2.8	1.7
Percent distribution:									
Married couple.....	86.7	90.5	86.5	82.5	92.3	82.2	79.5	94.2	79.2
Male householder, no wife present.....	2.4	4.2	2.3	2.9	3.4	2.9	4.2	2.7	4.2
Female householder, no husband present.....	10.9	5.3	11.2	14.6	4.4	14.9	16.3	3.1	16.6
2-person families.....	34.5	37.0	34.3	39.2	42.7	39.1	41.3	43.1	41.2
3-to-5 person families.....	52.7	46.4	53.1	53.7	47.1	53.9	53.7	50.8	53.8
6-or-more person families.....	12.9	16.6	12.6	7.1	10.3	7.0	5.0	6.2	5.0
Median family income ¹ in constant (1987) dollars.....	29,244	19,795	29,675	30,669	25,612	30,931	30,853	26,016	30,972

¹ Income for previous year.
Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 437 and earlier series P-27 reports; series P-60, No. 162 and earlier reports; and unpublished data.

No. 1100. FARM POPULATION, BY CHARACTERISTICS: 1970 TO 1988

[1970 and 1980, April-centered five-quarter averages; 1985 and 1988 annual averages. For definition of farm population, see text, section 23]

CHARACTERISTIC	FARM POPULATION (1,000)							PERCENT DISTRIBUTION			
	1969 definition		1974 definition					1969 definition, 1970	1974 definition		
	1970	1980	1980	1985	1988				1980	1985	1988
					Total	Male	Female				
Total	9,712	7,241	6,051	5,355	4,951	2,586	2,366	100.0	100.0	100.0	100.0
White.....	8,775	6,828	5,714	5,195	4,806	2,518	2,288	90.4	94.4	97.0	97.1
Black and other races.....	938	413	337	160	145	68	78	9.7	5.6	3.0	2.9
Under 15 years old.....	¹ 2,490	¹ 1,391	¹ 1,146	1,100	1,000	519	481	¹ 25.6	¹ 18.9	20.5	20.2
15 years old and over.....	² 7,222	² 5,851	² 4,905	4,255	3,951	2,067	1,885	² 74.4	² 81.1	79.5	79.8
15-19 years old.....	³ 1,316	³ 926	³ 790	456	421	219	202	³ 13.6	³ 13.1	8.5	8.5
20-24 years old.....	502	502	444	381	279	161	117	5.2	7.3	7.1	5.6
25-34 years old.....	770	735	606	640	584	311	273	7.9	10.0	12.0	11.8
35-44 years old.....	1,061	862	712	687	665	345	320	10.9	11.8	12.8	13.4
45-64 years old.....	2,452	1,892	1,607	1,342	1,305	660	645	25.2	26.8	25.1	26.4
65 years old and over.....	1,122	934	746	747	697	369	327	11.6	12.3	13.9	14.1
In labor force ⁴	4,293	3,682	3,139	2,853	2,756	1,695	1,061	59.4	64.0	67.1	69.8
Employed, agriculture.....	2,333	1,722	1,642	1,363	1,268	988	280	32.3	33.5	32.0	32.1
Percent of labor force.....	54.3	46.8	52.3	47.8	46.0	58.3	26.4	(x)	(x)	(x)	(x)
Self-employed.....	1,411	1,083	1,034	896	845	705	140	19.5	21.1	21.1	21.4
Wage and salary workers.....	395	344	326	318	302	240	62	5.5	6.6	7.5	7.6
Unpaid family workers.....	526	295	282	149	121	42	78	7.3	5.7	3.5	3.1
Employed, nonagriculture.....	1,878	1,853	1,415	1,402	1,433	676	754	26.0	28.8	32.9	36.3
Self-employed.....	159	210	161	159	169	99	70	2.2	3.3	3.7	4.3
Wage and salary workers.....	1,698	1,624	1,239	1,237	1,254	578	676	23.5	25.3	29.1	31.8
Unpaid family workers.....	21	19	16	7	10	2	7	.3	.3	.2	.3
Unemployed.....	82	106	82	88	55	28	27	1.1	1.7	2.1	1.4
Not in labor force ⁴	2,929	2,169	1,766	1,402	1,195	371	823	40.6	36.0	32.9	30.2

X Not applicable. ¹ Persons under 14 years old. ² Persons 14 years old and over. ³ Persons 14-19 years old. ⁴ Percent distribution by labor force status based on population, 14 years old and over through 1980; thereafter, 15 years old and over.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 439; series P-27, No. 59 and earlier reports; and unpublished data.

No. 1101. FARMS—NUMBER AND ACREAGE: 1959 TO 1989

[Based on census year definition indicated; for definition of farms and farmland, see text, section 23. Data for census years (indicated by italics) have been adjusted for underenumeration and are used as reference points along with data from acreage and live-stock surveys in estimating data for other years. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7]

YEAR	FARMS		LAND IN FARMS		YEAR	FARMS		LAND IN FARMS	
	Number (1,000)	Annual change ¹ (1,000)	Total (mil. acres)	Average per farm (acres)		Number (1,000)	Annual change ¹ (1,000)	Total (mil. acres)	Average per farm (acres)
1969 DEFINITION					1974 DEFINITION				
<i>1959</i>	<i>4,105</i>	-139	<i>1,183</i>	<i>288</i>	1975.....	2,521	(x)	1,059	420
1960.....	3,963	-142	1,176	297	1976.....	2,497	-24	1,054	422
<i>1964</i>	<i>3,457</i>	-127	<i>1,146</i>	<i>332</i>	1977.....	2,456	-41	1,048	427
1965.....	3,356	-101	1,140	340	1978.....	2,436	-20	1,045	429
<i>1969</i>	<i>3,000</i>	-89	<i>1,108</i>	<i>369</i>	1979.....	2,437	-1	1,042	428
1970.....	2,949	-51	1,102	374	1980.....	2,440	3	1,039	426
1971.....	2,902	47	1,097	378	1981.....	2,440	-	1,034	424
1972.....	2,860	-42	1,092	382	1982.....	2,407	-33	1,028	427
1973.....	2,823	-37	1,088	385	1983.....	2,379	-28	1,023	430
<i>1974</i>	<i>2,795</i>	-28	<i>1,084</i>	<i>388</i>	1984.....	2,334	-45	1,018	436
1975.....	2,767	-28	1,081	391	1985.....	2,293	-41	1,012	441
1976.....	2,738	-29	1,078	394	1986.....	2,250	-43	1,005	447
1977.....	2,706	-32	1,075	397	1987.....	2,213	-37	999	451
1978.....	2,672	-34	1,072	401	1988.....	2,197	-16	995	453
					1989, prel.....	2,173	-24	991	456

- Represents zero. X Not applicable. ¹ Average annual change from preceding year shown. For 1959, change from 1954.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Number of Farms and Land in Farms, 1959-70* (Statistical Bulletin No. 507); *Farms and Land in Farms, 1969-75* (Statistical Bulletin No. 594); *Farm Numbers, 1975-80; Farms and Land in Farms, Final Estimates by States, 1979-1987; and Crop Production* (August releases).

Farm Numbers and Acreage

639

NO. 1102. FARMS—NUMBER AND ACREAGE, BY STATE: 1980 AND 1989

[1989 data preliminary. Based on 1974 census definition of farms and farmland; see text, section 23. See also *Historical Statistics, Colonial Times to 1970, series K 4-7*]

STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM		STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM	
	1980	1989	1980	1989	1980	1989		1980	1989	1980	1989	1980	1989
U.S.	2,440	2,173	1,039	991	426	456	Missouri	120	108	31	30	261	281
Alabama	59	47	12	11	207	226	Montana	24	25	62	61	2,601	2,453
Alaska	(2)	1	2	1	3,378	1,683	Nebraska	65	57	48	47	734	826
Arizona	8	8	38	36	5,080	4,444	Nevada	3	3	9	9	3,100	3,560
Arkansas	59	49	17	16	280	320	New Hampshire	3	3	1	1	160	159
California	81	84	34	31	417	373	New Jersey	9	8	1	1	109	106
Colorado	27	27	36	34	1,358	1,241	New Mexico	14	14	47	45	3,467	3,179
Connecticut	4	4	(z)	(z)	117	110	New York	47	39	9	8	200	215
Delaware	4	3	1	1	186	197	North Carolina	93	65	12	10	126	154
Florida	39	41	13	11	344	273	North Dakota	40	34	42	41	1,043	1,209
Georgia	59	48	15	13	254	263	Ohio	95	87	16	16	171	182
Hawaii	4	5	2	2	458	370	Oklahoma	72	69	35	33	481	478
Idaho	24	22	15	14	623	614	Oregon	35	37	18	18	517	481
Illinois	107	86	29	29	269	331	Pennsylvania	62	54	9	8	145	152
Indiana	87	71	17	16	193	231	Rhode Island	1	1	(z)	(z)	87	95
Iowa	119	105	34	34	294	319	South Carolina	34	26	6	5	188	208
Kansas	75	59	48	48	644	694	South Dakota	39	35	45	44	1,169	1,266
Kentucky	102	96	15	14	143	148	Tennessee	96	91	14	13	142	138
Louisiana	37	35	10	9	273	266	Texas	196	166	138	132	705	710
Maine	8	7	2	1	195	199	Utah	14	13	12	11	919	869
Maryland	18	16	3	2	157	147	Vermont	8	7	2	2	226	214
Massachusetts	6	7	1	1	116	99	Virginia	58	47	10	9	169	191
Michigan	65	55	11	11	175	196	Washington	38	38	16	16	429	421
Minnesota	104	90	30	30	291	333	West Virginia	22	21	4	4	191	176
Mississippi	55	41	15	13	265	324	Wisconsin	93	81	19	18	200	217
							Wyoming	9	9	35	35	3,846	3,910

Z Less than 500 farms or 500,000 acres.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farms and Land in Farms, Final Estimates by States, 1979-1987, and Crop Production (August 1989 Release)*.

NO. 1103. FARMS—NUMBER, 1974 TO 1987, AND ACREAGE, 1978 TO 1987, BY SIZE OF FARM

[See also *Historical Statistics, Colonial Times to 1970, series K 162-173*]

SIZE OF FARM	NUMBER OF FARMS (1,000)				LAND IN FARMS (mil. acres)			CROPLAND HARVESTED (mil. acres)			PERCENT DISTRIBUTION, 1987		
	1974	1978	1982	1987	1978	1982	1987	1978	1982	1987	Number of farms	All land in farms	Crop-land harvested
Total	2,314	2,258	2,241	2,088	1,014.8	986.8	964.5	317.1	326.3	282.2	100.0	100.0	100.0
Under 10 acres	128	151	188	183	.6	.7	.7	.5	.3	.2	8.8	.1	.1
10-49 acres	380	392	449	412	10.9	12.1	11.1	4.2	4.5	3.9	19.8	1.2	1.4
50-99 acres	385	356	344	311	25.9	24.8	22.5	10.2	9.5	7.9	14.9	2.3	2.8
100-179 acres	443	403	368	334	55.0	49.9	45.3	23.3	21.2	17.1	16.0	4.7	6.1
180-259 acres	253	234	211	192	50.6	45.7	41.5	23.7	21.7	17.2	9.2	4.3	6.1
260-499 acres	363	348	315	286	124.8	113.0	103.0	64.5	60.5	47.3	13.7	10.7	16.8
500-999 acres	207	213	204	200	146.7	140.5	138.5	75.2	77.6	67.4	9.6	14.4	23.9
1,000-1,999 acres	93	98	97	102	133.0	132.4	138.8	58.2	64.5	61.1	4.9	14.4	21.7
2,000 acres and over	62	63	65	67	467.4	467.5	463.2	57.3	66.6	60.2	3.2	49.0	21.3

NO. 1104. FARMS—NUMBER AND ACREAGE, BY TENURE OF OPERATOR: 1974 TO 1987

[Full owners own all the land they operate. Part owners own a part, and rent from others the rest of the land they operate. See also *Historical Statistics, Colonial Times to 1970, series K 109-113 and 142-146*]

ITEM AND YEAR	Unit	Total	Full owner	Part owner	Tenant	PERCENT DISTRIBUTION			
						Total	Full owner	Part owner	Tenant
Number of farms:									
1974	1,000	2,314	1,424	628	262	100.0	61.5	27.2	11.3
1978	1,000	2,258	1,298	681	279	100.0	57.5	30.1	12.4
1982	1,000	2,241	1,326	656	259	100.0	59.2	29.3	11.5
1987	1,000	2,088	1,239	609	240	100.0	59.3	29.2	11.5
Under 50 acres	1,000	596	483	59	53	100.0	81.1	9.9	9.0
50-179 acres	1,000	645	449	130	66	100.0	69.6	20.1	10.3
180-499 acres	1,000	478	217	195	67	100.0	45.3	40.8	13.9
500-999 acres	1,000	200	53	117	31	100.0	26.3	58.3	15.4
1,000 acres or more	1,000	169	37	108	23	100.0	22.1	64.2	13.7
Land in farms:									
1974	Mil. acres	1,017	359	535	122	100.0	35.4	52.6	12.0
1978	Mil. acres	1,015	332	561	122	100.0	32.7	55.3	12.0
1982	Mil. acres	987	342	531	114	100.0	34.7	53.8	11.6
1987	Mil. acres	964	318	520	127	100.0	32.9	53.9	13.2

Source of tables 1103 and 1104: U.S. Bureau of the Census, *Census of Agriculture: 1974, vol. II; 1982, vol. 1; and 1987, vol. 1*.

NO. 1105. FARMS—NUMBER, ACREAGE, AND VALUE, BY STATE: 1982 AND 1987

[For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series K 17-18]

REGION, DIVISION, AND STATE	ALL FARMS								FARMS WITH SALES OF \$10,000 OR MORE, 1987			
	Number of farms (1,000)		All land in farms (mil. acres)		Average acreage per farm		Total value ¹ (mil. dol.)		Number of farms (1,000)	All land in farms (mil. acres)	Average acreage per farm	Total value ¹ (mil. dol.)
	1982	1987	1982	1987	1982	1987	1982	1987				
U.S.	2,241	2,088	886.8	964.5	440	462	774,158	604,168	1,060	829.0	782	481,983
Region:												
Northeast.....	131	123	23.0	21.4	175	174	28,272	32,045	61	16.0	261	22,477
Midwest.....	932	862	354.2	350.5	380	407	339,761	228,073	556	314.5	565	201,583
South.....	896	824	293.8	281.2	328	341	236,638	207,777	304	221.0	727	145,912
West.....	280	278	315.7	311.3	1,129	1,118	169,487	136,274	139	277.5	1,999	112,011
N.E.	28	25	4.6	4.2	178	169	5,385	7,856	11	2.8	260	6,695
ME.....	7	8	1.5	1.3	210	214	1,053	1,321	3	9	332	7,466
NH.....	3	2	5	4	170	169	555	900	1	2	283	422
VT.....	6	6	1.6	1.4	249	240	1,305	1,521	3	1.1	325	1,058
MA.....	5	6	6	6	113	99	1,111	2,154	2	4	153	1,275
RI.....	1	1	.1	.1	86	84	173	295	(z)	(z)	116	155
CT.....	4	4	4	4	118	111	1,188	1,674	1	3	179	1,037
M.A.	106	98	18.4	17.2	174	175	22,887	24,179	50	13.1	262	17,783
NY.....	42	38	9.2	8.4	218	223	7,509	8,263	21	6.7	327	6,265
NJ.....	8	9	9	9	111	99	2,840	3,579	7	7	181	2,371
PA.....	56	51	8.3	7.9	149	153	12,538	12,337	26	5.7	221	9,147
E.N.C.	403	365	88.6	86.6	220	237	134,967	96,291	219	76.3	486	83,916
OH.....	87	79	15.4	15.0	177	189	23,287	18,023	40	12.1	305	14,376
IN.....	77	70	16.3	16.2	211	229	26,128	18,716	40	14.4	355	16,267
IL.....	98	89	28.7	28.5	292	321	53,061	35,779	63	27.0	431	33,708
MI.....	59	51	10.9	10.3	187	202	13,389	10,034	24	8.2	340	7,983
WI.....	82	75	17.2	16.6	210	221	19,102	13,740	52	14.5	280	11,881
W.N.C.	529	487	265.6	263.8	502	531	204,793	131,782	337	238.3	707	117,667
MD.....	94	85	27.7	26.6	294	312	31,326	19,516	58	23.8	407	16,360
IA.....	115	105	32.6	31.6	283	301	54,349	29,830	83	30.2	365	28,285
MO.....	112	106	29.3	29.2	260	275	25,094	18,634	50	22.7	457	13,904
ND.....	36	35	40.2	40.3	1,104	1,143	17,609	12,934	28	37.9	1,339	12,115
SD.....	37	36	43.8	44.2	1,179	1,214	15,429	11,871	28	37.9	1,339	10,583
NE.....	60	60	45.0	45.3	746	749	31,910	20,828	47	43.0	918	19,590
KS.....	73	69	47.1	46.6	642	680	28,076	19,068	43	42.8	1,002	16,828
S.A.	274	240	57.2	51.2	209	214	69,752	64,886	93	37.4	403	46,003
DE.....	3	3	7	6	196	205	1,218	1,096	7	1.9	291	932
MD.....	16	15	2.6	2.4	158	162	5,378	5,419	7	1.9	278	3,923
VA.....	52	45	9.4	8.7	182	194	10,822	10,409	16	5.9	377	6,785
WV.....	19	17	3.6	3.4	190	196	2,421	2,255	3	1.4	431	958
NC.....	73	59	10.3	9.4	142	159	13,869	11,845	26	7.1	276	8,281
SC.....	25	20	5.6	4.8	224	232	5,193	4,127	7	3.3	491	2,535
GA.....	50	44	12.3	10.7	248	247	11,166	9,852	18	7.9	439	6,591
FL.....	36	37	12.8	11.2	353	306	20,085	19,884	15	9.4	638	15,999
E.S.C.	283	250	49.2	45.6	174	183	46,466	38,811	82	30.4	372	24,361
KY.....	102	92	14.2	14.0	140	152	14,661	12,545	34	9.4	276	8,301
TN.....	91	80	12.5	11.7	138	147	12,592	11,648	22	7.2	329	6,450
AL.....	48	43	10.2	9.1	211	211	8,290	7,284	14	5.9	424	4,383
MS.....	42	34	12.4	10.7	293	315	10,923	7,393	12	7.9	662	5,229
W.S.C.	340	335	187.3	184.4	551	551	120,420	104,079	129	153.3	1,184	75,548
AR.....	51	48	14.7	14.4	291	298	14,460	10,884	21	11.2	522	8,285
LA.....	32	27	8.9	8.0	282	293	12,070	7,348	11	6.4	607	5,476
OK.....	73	70	32.4	31.5	446	449	22,556	15,102	29	25.1	878	11,007
TX.....	185	189	131.3	130.5	710	691	71,334	70,746	69	110.5	1,606	50,779
Mt.	122	124	246.1	244.1	1,857	1,965	76,179	62,906	67	218.3	3,271	52,816
MT.....	24	25	60.5	60.2	2,568	2,451	15,866	12,418	16	54.4	3,427	10,770
ID.....	25	24	19.9	19.9	563	577	11,353	8,126	14	12.0	861	6,951
WY.....	9	9	33.5	33.6	3,781	3,650	6,484	4,909	5	28.4	5,183	3,923
CO.....	27	27	33.5	34.0	1,237	1,248	15,228	12,519	15	30.6	2,030	10,284
NM.....	13	14	47.1	46.0	3,493	3,230	8,322	8,291	6	41.3	7,319	6,657
AZ.....	7	8	37.8	36.3	5,148	4,732	10,972	10,111	4	33.7	9,411	9,125
UT.....	14	14	9.8	10.0	699	710	5,445	4,259	6	8.6	1,452	3,152
NV.....	3	3	10.0	10.0	3,671	3,300	2,509	2,271	1	9.3	6,288	1,955
Pac.	158	154	69.8	67.3	441	466	93,307	73,367	72	59.2	821	59,195
WA.....	36	34	16.5	16.1	456	480	15,271	11,948	15	13.8	901	9,173
OR.....	34	32	17.7	17.8	520	556	12,665	9,597	12	15.4	1,319	6,941
CA.....	82	83	32.2	30.6	590	568	61,532	48,567	43	27.7	647	40,689
AK.....	(2)	1	1.3	1.0	2,323	1,789	264	217	(z)	6	3,411	146
HI.....	5	5	2.0	1.7	426	353	3,575	2,938	2	1.6	798	2,246

z Less than 500 farms or 50,000 acres. ¹ Value of land and buildings. Based on reports for a sample of farms.Source: U.S. Bureau of the Census, *Census of Agriculture: 1987*, vol. 1.

NO. 1106. FARM OPERATORS--TENURE AND CHARACTERISTICS: 1982 AND 1987

[In thousands, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series K 82-113]

TENURE AND CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER		CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$10,000 AND OVER	
	1982	1987	1982	1987		1982	1987	1982	1987
Total operators	2,241	2,068	1,143	1,060	Principal occupation:				
White.....	2,187	2,043	1,127	1,046	Farming.....	1,235	1,138	901	811
Black.....	33	23	7	4	Other.....	1,006	950	242	248
American Indian, Eskimos, and Aleuts.....	7	7	2	2	Place of residence: ²				
Asian or Pacific Islander.....	8	8	5	5	On farm operated.....	1,581	1,488	833	776
Other.....	6	7	2	2	Not on farm operated.....	429	443	202	215
Operators of Hispanic origin ¹	16	17	6	6	Years on present farm: ²				
Female.....	122	132	37	42	2 years or less.....	127	114	53	49
Under 25 years old.....	62	36	39	21	3-4 years.....	193	135	83	56
25-34 years old.....	294	243	173	147	5-9 years.....	360	304	167	138
35-44 years old.....	443	411	223	212	10 years or more.....	1,098	1,163	638	653
45-54 years old.....	505	455	264	228	Days worked off farm: ²				
55-64 years old.....	536	496	288	263	None.....	862	844	591	561
65 years old and over.....	400	447	156	188	Less than 100 days.....	224	200	141	124
Average age (years).....	50.5	52.0	49.1	50.6	100-199 days.....	189	178	77	80
Full owner.....	1,326	1,239	482	445	200 days or more.....	775	737	213	219
Part owner.....	658	609	491	454					
Tenant.....	259	240	170	161					

¹ Operators of Hispanic origin may be of any race. ² Excludes not reported.

NO. 1107. FARMS--NUMBER, ACREAGE, AND VALUE, BY TYPE OF ORGANIZATION: 1982 AND 1987

[Data for 1982 exclude abnormal farms (institutional farms, experimental and research farms, Indian reservations, etc.)]

ITEM	Unit	Total ¹	Individual or family	Partnership	Corporation	PERCENT DISTRIBUTION			
						Total ¹	Individual or family	Partnership	Corporation
ALL FARMS									
Number of farms: 1982.....	1,000	2,239	1,946	223	60	100.0	86.9	10.0	2.7
1987.....	1,000	2,088	1,809	200	67	100.0	86.7	9.6	3.2
Land in farms: 1982.....	Mil. acres.	932	642	152	127	100.0	68.9	16.3	13.6
1987.....	Mil. acres.	964	628	153	119	100.0	65.1	15.9	12.4
Value of land and buildings: ² 1982.....	Bill. dol.	763	547	119	90	100.0	71.7	15.6	11.8
1987.....	Bill. dol.	604	424	95	69	100.0	70.1	15.7	11.4
Value of farm products sold: 1982.....	Mil. dol.	131,590	77,907	21,520	31,480	100.0	59.2	16.4	23.9
1987.....	Mil. dol.	136,049	76,607	23,292	34,865	100.0	56.3	17.1	25.6
FARMS WITH SALES OF \$10,000 AND OVER									
Number of farms: 1982.....	1,000	1,143	934	152	52	100.0	81.7	13.3	4.6
1987.....	1,000	1,060	861	136	56	100.0	81.3	12.8	5.3
Land in farms: 1982.....	Mil. acres.	811	536	141	124	100.0	66.1	17.4	15.3
1987.....	Mil. acres.	829	525	143	116	100.0	63.3	17.3	14.0

¹ Includes other types, not shown separately. ² Based on a sample of farms.

NO. 1108. CHARACTERISTICS OF CORPORATE FARMS, BY TYPE: 1987

ITEM	Unit	All corporations	FAMILY HELD CORPORATIONS			OTHER CORPORATIONS		
			Total	1-10 stockholders	11 or more stockholders	Total	1-10 stockholders	11 or more stockholders
Farms.....	Number.....	66,969	60,771	59,599	1,172	6,198	5,379	819
Percent distribution.....	Percent.....	100.0	90.7	89.0	1.8	9.3	8.0	1.2
Land in farms.....	Mil. acres.....	119.4	106.0	98.2	7.7	13.4	8.7	4.7
Average per farm.....	Acres.....	1,783	1,743	1,648	6,596	2,167	1,620	5,757
Value of--								
Land and buildings ¹	Bill. dol.....	68.6	58.6	55.5	3.1	10.0	6.6	3.5
Average per farm.....	\$1,000.....	1,055	1,008	973	2,714	1,453	1,098	3,752
Farm products sold.....	Bill. dol.....	34.9	26.6	24.5	2.0	6.3	5.9	2.4
Average per farm.....	\$1,000.....	521	437	411	1,749	1,341	1,096	2,953

¹ Based on a sample of farms.

Source of tables 1106-1108: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

NO. 1109. INDIVIDUAL AND FAMILY FARMS—SELECTED CHARACTERISTICS: 1987

SIZE OF FARM AND VALUE OF SALES	INDIVIDUAL AND FAMILY FARMS			ITEM	Unit	All farms	INDIVIDUAL AND FAMILY FARMS	
	Number (1,000)	Per-cent distribution	Per-cent of all farms				Amount	Per-cent of all farms
Farms, total	1,809	100.0	86.7	Land in farms.....	Mil. acres.....	964	628	65.1
Under 50 acres.....	537	29.7	90.2	Average size of farm.....	Acres.....	462	347	(x)
50-179 acres.....	582	32.2	90.2	Value of land and bldgs.....	Bil. dol.....	604	424	70.1
180-499 acres.....	411	22.7	85.9	Average per farm.....	\$1,000.....	289	235	(x)
500-999 acres.....	161	8.9	80.6	Average per acre.....	Dollars.....	627	677	(x)
1,000 acres or more.....	118	6.5	70.1	Value of farm products sold.....	Bil. dol.....	136	77	56.3
Less than \$2,500.....	457	25.2	93.1	Average per farm.....	\$1,000.....	65	42	(x)
\$2,500-\$4,999.....	242	13.4	92.2	Crops ¹	Bil. dol.....	59	33	56.0
\$5,000-\$9,999.....	249	13.8	90.5	Grains.....	Bil. dol.....	28	20	72.2
\$10,000-\$24,999.....	286	15.8	87.7	Livestock, poultry and their products ²	Bil. dol.....	77	44	56.5
\$25,000-\$49,999.....	189	10.4	85.7	Cattle, calves.....	Bil. dol.....	36	18	49.0
\$50,000-\$99,999.....	182	10.1	83.4	Dairy products.....	Bil. dol.....	16	11	66.4
\$100,000-\$249,999.....	154	8.5	76.4	Poultry, poultry products.....	Bil. dol.....	13	7	58.3
\$250,000-\$499,999.....	38	2.1	61.5	Hogs and pigs.....	Bil. dol.....	10	7	67.1
\$500,000-\$999,999.....	10	.6	47.6					
\$1,000,000 or more.....	3	.2	28.2					

X Not applicable. ¹ Includes nursery and greenhouse products. ² Includes other commodities, not shown separately.

Source: U.S. Bureau of the Census, 1987 Census of Agriculture, vol. 1.

NO. 1110. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY SIZE OF SALES: 1987

VALUE OF PRODUCTS SOLD	Farms (1,000)	ACREAGE		VALUE OF SALES		PERCENT DISTRIBUTION		
		Total (mil.)	Average per farm	Total (mil. dol.)	Average per farm (dol.)	Farms	Acra-ge	Value of sales
Total	2,088	964.5	462	136,049	65,165	100.0	100.0	100.0
Less than \$10,000.....	1,028	135.4	132	3,404	3,311	49.2	14.0	2.5
Occupation—Farming ¹	327	(NA)	(NA)	(NA)	(NA)	15.7	(NA)	(NA)
Occupation—Other than farming ¹	701	(NA)	(NA)	(NA)	(NA)	33.6	(NA)	(NA)
Less than \$2,500.....	490	59.8	122	498	1,016	23.5	6.2	4
\$2,500-\$4,999.....	263	30.0	114	946	3,598	12.8	3.1	.7
\$5,000-\$9,999.....	275	45.8	166	1,960	7,128	13.2	4.7	1.4
\$10,000 or more.....	1,060	829.0	783	132,645	125,180	50.8	86.1	97.5
\$10,000-\$24,999.....	326	92.3	283	5,244	16,079	15.6	9.6	3.9
\$25,000-\$49,999.....	220	110.6	504	7,869	35,826	10.5	11.5	5.8
\$50,000-\$99,999.....	218	162.0	743	15,661	71,825	10.4	16.8	11.5
\$100,000-\$249,999.....	203	225.0	1,111	31,178	153,929	9.7	23.3	22.9
\$250,000-\$499,999.....	61	113.6	1,858	20,740	339,172	2.9	11.8	15.2
\$500,000-\$999,999.....	21	62.8	3,002	14,076	672,543	1.0	6.5	10.3
\$1,000,000 or more.....	11	62.7	5,655	37,876	3,414,401	.5	6.5	27.8

NA Not available. ¹ Occupation determined by 50 percent or more of work time on farm or other occupation.

Source: U.S. Bureau of the Census, 1987 Census of Agriculture, vol. 1.

NO. 1111. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY TYPE OF FARM: 1987

[Farms were classified in a particular group if its sales for that product group amounted to 50 percent or more of the total value of farm products sold. The Standard Industrial Classification (SIC) code for each farm type is shown in parentheses. Based on the 1987 SIC Manual; see text, section 13]

ITEM	Unit	Total	Cash grains ¹ (011)	Cotton (0131)	Tobacco (0132)	Vegetables, melons (016)	Fruits and tree nuts (017)	Livestock ² (021)	Dairy farms (024)	Poultry, eggs (025)	All other
Number of farms.....	1,000.....	2,088	458	28	92	29	88	892	138	38	324
With sales under \$10,000.....	Percent.....	49.2	29.5	12.5	66.1	43.7	53.0	60.8	2.3	16.7	67.3
With sales between \$10,000 and \$49,999.....	Percent.....	26.1	37.8	27.2	25.6	29.6	24.6	24.4	24.8	6.6	17.7
With sales of \$50,000 or more.....	Percent.....	24.6	32.7	60.3	8.3	26.7	22.4	14.9	72.9	76.7	15.0
Land in farms.....	Mil. acres.....	964	247	23	10	6	10	521	44	5	99
Products sold, value.....	Mil. dol.....	136,049	24,919	4,282	1,641	4,459	7,001	45,447	17,994	13,060	17,246
Percent distribution:											
Number of farms.....	Percent.....	100.0	22.0	1.3	4.2	1.4	4.2	42.7	6.6	1.8	15.7
Land in farms.....	Percent.....	100.0	25.6	2.4	1.1	.6	1.0	54.0	4.6	.5	10.2
Products sold, value.....	Percent.....	100.0	18.3	3.1	1.2	3.3	5.1	33.4	13.2	9.6	12.7

¹ Includes wheat, rice, corn for grain, soybeans, and other cash grains. ² Excludes dairy, poultry, and animal specialty farms.

Source: U.S. Bureau of the Census, 1987 Census of Agriculture, vol. 1.

NO. 1112. IRRIGATED FARMS AND ACREAGE, BY STATE: 1982 AND 1987

[See also *Historical Statistics, Colonial Times to 1970*, series J 85-91]

STATE	IRRIGATED FARMS				LAND IN IRRIGATED FARMS				IRRIGATED LAND			
	Number (1,000)		Percent of all farms		Acreage (1,000)		Percent of all land in farms		Acreage (1,000)		Percent of all land in farms	
	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987
U.S.¹	278.3	291.6	12.4	13.9	246,603	241,069	24.9	24.9	49,002	46,386	5.0	4.8
AZ	4.4	4.2	60.4	55.3	18,871	17,167	49.9	47.3	1,098	914	2.9	2.5
CA	58.4	58.9	70.8	70.7	18,402	17,567	57.2	57.4	8,461	7,596	26.3	24.8
CO	15.2	14.9	56.1	54.6	17,351	16,729	51.7	49.1	3,201	3,014	9.5	8.9
FL	10.6	12.0	29.0	32.7	5,529	4,670	43.1	41.7	1,585	1,623	12.4	14.5
ID	17.4	16.6	70.2	68.8	9,168	9,053	65.8	64.9	3,450	3,219	24.8	23.1
KS	7.3	7.4	9.8	10.7	10,345	10,654	21.9	22.8	2,675	2,463	5.7	5.3
LA	3.7	3.9	11.6	14.3	2,273	2,337	25.4	29.1	694	647	7.6	8.1
MT	9.2	9.5	39.1	38.7	24,171	23,259	39.9	38.6	2,023	1,997	3.3	3.3
NE	22.2	22.6	36.6	37.3	22,679	22,499	50.4	49.6	6,039	5,682	13.4	12.5
NV	2.2	2.2	79.2	73.3	7,981	7,806	78.9	78.1	830	779	8.3	7.8
NM	6.2	7.0	45.9	49.2	14,755	12,385	31.3	26.9	807	718	1.7	1.6
ND	.8	.8	2.2	2.2	1,416	1,497	3.5	3.7	163	168	.4	.4
OK	3.1	3.0	4.2	4.3	2,926	2,906	9.0	9.2	492	478	1.5	1.5
OR	15.3	14.4	44.9	45.0	11,382	11,340	64.1	63.6	1,808	1,648	10.2	9.3
SD	1.8	1.9	4.8	5.1	4,198	3,791	9.5	8.5	376	362	.9	.8
TX	19.8	19.8	10.6	10.4	22,161	20,270	16.8	15.5	5,576	4,271	4.2	3.3
UT	11.2	11.1	79.9	79.2	7,598	7,594	77.7	76.0	1,082	1,161	11.1	11.6
WA	16.3	15.4	45.0	45.9	6,003	5,488	36.4	33.9	1,638	1,519	9.9	9.4
WY	5.3	5.2	59.6	56.7	18,132	18,207	54.1	54.1	1,565	1,518	4.7	4.5

¹ Includes other States not shown separately.Source: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

NO. 1113. FOREIGN OWNERSHIP OF U.S. AGRICULTURAL LAND: 1988

[In thousands of acres, except percent. Covers "foreign persons" reporting under the Agricultural Foreign Investment Disclosure Act of 1978. As defined in the Act, a "foreign person" is any person who is not a U.S. citizen and who is not a permanent resident alien of the U.S. Foreign governments and entities are also "foreign persons." Also, each successive link in a chain of U.S. entities containing foreign interests is considered a "foreign person." An entity is deemed a "foreign person" if it is 10 percent or more foreign owned by a single foreign person or foreign persons acting in concert, or 50 percent foreign owned by a group of foreign persons not acting in concert, none of whom individually holds a 10 percent or greater interest in the entity. Therefore acreage figures reported do not necessarily mean that they are wholly owned by foreign investors. Covers reports received and accepted as of December 31, 1988]

CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²		CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²	
	Total	Percent	Total	Percent		Total	Percent	Total	Percent
Total³	12,485	100.0	288	100.0	Country of foreign owner:				
Type of owner:					Canada	1,414	11.3	1	.3
Corporation	9,977	80.0	217	75.3	France	84	1.0	15	5.0
Partnership	1,369	11.0	57	19.8	Japan	147	1.2	27	9.4
Individual	936	7.5	13	4.5	Netherlands	130	1.0	1	.3
Other	203	1.5	1	.4	Netherlands Antilles	448	3.6	-	-
Size of holding:					United Kingdom	289	2.3	8	2.8
Less than 100 acres	129	1.0	4	1.4	West Germany	720	5.8	11	3.8
100-299 acres	300	2.4	10	3.5	Through U.S. interest: ⁴				
300-999 acres	890	7.2	26	9.0	Canada	1,084	8.7	87	30.2
1,000 acres or more	11,166	89.4	248	86.1	France	1,052	8.0	15	5.0
Land use:					Japan	71	.6	38	13.2
Cropland	2,116	17.0	63	21.9	Netherlands	380	3.0	14	4.9
Pasture	3,186	25.5	70	24.3	Netherlands Antilles	232	1.9	-	-
Forest	6,020	48.2	104	36.1	United Kingdom	2,490	19.9	6	2.1
Other agriculture	570	4.6	44	15.3	West Germany	411	3.3	1	.3
Other nonagriculture	593	4.7	7	2.4					

- Represents or rounds to zero. ¹ Landholdings by foreign interests as of Dec. 31. ² Acquisitions by foreign interests from Jan. 1-Dec. 31, 1988. ³ Includes other countries not shown separately. ⁴ Reports filed by U.S. corporations with foreign shareholders.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land through December 31, 1988* (Economic Research Service Staff Report AGES 89-14), 1989.

NO. 1114. FARM REAL ESTATE—SUMMARY: 1975 TO 1989

[1975, value data as of Mar. 1; 1980-1981 and 1986-1989, as of Feb. 1; 1982-1985, as of April 1. Excludes Alaska and Hawaii. Total value of land and buildings is estimated by multiplying the number of acres of farmland by the average value per acre of land and buildings. Per acre values are based on data from the census of agriculture. For intercensal years, estimates are made using indexes of average value per acre based on surveys conducted by the U.S. Dept. of Agriculture.]

ITEM	Unit	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total value	Bil. dol.	358.6	763.3	843.7	843.3	804.8	793.9	686.2	597.6	546.5	561.0	593.8
Land	Bil. dol.	300.5	658.0	728.3	729.8	697.3	688.9	595.8	518.3	473.3	486.3	515.1
Buildings	Bil. dol.	58.1	105.3	115.4	113.5	107.5	105.0	90.4	79.4	73.2	74.7	78.7
Average value per acre ¹	Dollars	340	737	819	823	788	782	679	595	547	564	597
Average value, operating unit	\$1,000	142.5	314.4	347.3	352.0	340.3	341.8	302.4	270.8	251.7	260.5	275.7

¹ Land and buildings.

Source: U.S. Dept. of Agriculture, Economic Research Service, 1975-1984, *Farm Real Estate Market Developments*, annual; thereafter, *Agricultural Resources, Agricultural Land Values and Markets, Situation and Outlook Report*, annual.

NO. 1115. FARM REAL ESTATE—VALUE OF LAND AND BUILDINGS, BY STATE: 1980 TO 1989

[See headnote, table 1114. See also *Historical Statistics, Colonial Times to 1970*, series K 16]

STATE	VALUE OF LAND AND BUILDINGS (mil. dol.)					AVERAGE VALUE OF LAND AND BUILDINGS, PER ACRE				
	1980	1985	1987	1988	1989	1980	1985	1987	1988	1989
U.S.	783,285	686,194	546,468	561,048	593,845	\$737	\$679	\$547	\$564	\$597
Alabama	9,516	8,844	8,039	8,042	8,364	780	769	731	731	760
Arizona	10,173	9,938	8,957	7,808	7,730	267	265	242	214	212
Arkansas	15,147	13,584	9,767	9,673	9,963	918	849	634	645	664
California	48,331	56,785	44,557	43,567	46,181	1,424	1,726	1,365	1,341	1,421
Colorado	13,932	14,964	12,370	12,277	12,277	387	435	364	364	364
Connecticut	1,170	1,540	1,785	2,162	2,313	2,387	3,208	4,056	4,914	5,258
Delaware	1,169	1,067	1,100	1,118	1,308	1,798	1,642	1,775	1,895	2,217
Florida	18,505	19,851	19,033	20,750	21,995	1,381	1,527	1,464	1,596	1,692
Georgia	13,440	11,678	11,003	11,241	12,253	896	865	846	865	943
Idaho	10,610	10,861	7,822	8,107	8,512	698	749	567	592	621
Illinois	58,781	37,712	29,752	31,850	35,035	2,041	1,314	1,040	1,114	1,225
Indiana	31,298	20,648	15,077	16,114	17,404	1,863	1,259	931	983	1,061
Iowa	62,192	35,750	25,061	29,803	34,869	1,840	1,064	748	890	1,041
Kansas	28,352	22,368	16,304	17,637	16,695	587	466	340	368	390
Kentucky	14,250	13,137	11,476	11,403	11,745	976	906	791	786	810
Louisiana	12,686	12,685	7,115	6,724	6,858	1,256	1,256	734	708	722
Maine	959	1,301	1,645	1,854	1,984	594	856	1,082	1,236	1,323
Maryland	6,154	5,452	4,485	4,739	5,206	2,238	2,097	1,831	2,014	2,216
Massachusetts	1,158	1,613	2,039	2,403	2,571	1,608	2,372	2,999	3,534	3,782
Michigan	12,665	11,993	9,416	9,554	9,841	1,111	1,052	833	853	879
Minnesota	32,906	25,019	14,799	16,889	18,071	1,086	823	493	563	602
Mississippi	11,957	11,774	9,223	8,883	9,149	819	835	654	658	678
Missouri	28,232	20,297	16,882	17,389	18,432	902	659	552	572	606
Montana	14,548	13,542	10,183	9,932	10,131	235	222	167	164	167
Nebraska	30,290	20,957	15,810	17,244	19,830	635	444	335	366	421
Nevada	2,230	2,015	1,858	1,698	1,749	248	229	211	193	199
New Hampshire	547	766	933	1,059	1,133	1,004	1,419	1,794	2,037	2,180
New Jersey	3,006	3,314	4,523	5,137	6,010	2,947	3,525	5,321	6,189	7,241
New Mexico	8,658	7,335	5,425	5,922	6,337	185	163	122	132	141
New York	6,768	7,353	8,009	8,127	8,615	720	808	931	956	1,014
North Carolina	14,262	13,414	11,840	11,152	11,821	1,219	1,242	1,096	1,062	1,126
North Dakota	16,888	14,724	11,419	11,817	12,171	405	360	282	292	301
Ohio	28,026	17,791	14,702	15,461	16,389	1,730	1,126	842	991	1,051
Oklahoma	21,244	18,378	14,130	13,895	15,143	614	566	428	421	459
Oregon	10,625	10,422	8,581	8,288	8,288	587	579	479	466	466
Pennsylvania	13,176	13,137	14,663	15,280	18,488	1,464	1,510	1,725	1,819	2,201
Rhode Island	186	243	308	449	481	2,523	3,335	4,217	6,240	6,676
South Carolina	5,780	4,944	4,126	4,634	5,051	900	899	794	874	953
South Dakota	13,140	11,125	7,905	8,258	9,001	292	250	178	187	204
Tennessee	13,274	13,159	12,747	14,135	14,418	978	982	1,012	1,104	1,126
Texas	60,255	88,346	64,153	61,554	58,476	436	652	482	466	443
Utah	6,572	5,962	5,132	4,840	4,840	530	514	454	428	428
Vermont	1,256	1,927	2,057	2,125	2,273	721	1,017	1,266	1,345	1,439
Virginia	10,074	10,474	10,667	10,972	12,399	1,028	1,091	1,111	1,143	1,292
Washington	11,997	14,860	11,566	11,178	11,625	736	823	723	699	727
West Virginia	2,810	1,994	1,949	1,950	2,048	669	554	527	542	589
Wisconsin	18,674	14,992	11,019	11,087	11,641	1,004	847	626	630	661
Wyoming	5,636	6,160	5,252	4,877	4,730	161	177	151	140	136

Source: U.S. Dept. of Agriculture, Economic Research Service, 1980, *Farm Real Estate Market Developments*, annual; beginning 1985, *Agricultural Resources, Agricultural Land Values and Markets, Situation and Outlook Report*, annual.

NO. 1116. BALANCE SHEET OF THE FARMING SECTOR IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1988

[In billions of dollars, except as indicated. As of December 31. Includes farm operator households. See *Historical Statistics, Colonial Times to 1970*, series K 204-219, for data before revisions]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
CURRENT DOLLARS											
Assets	324.8	575.5	1,101.6	1,103.7	1,066.4	1,050.0	947.7	842.6	787.1	809.8	860.7
Physical assets:											
Real estate.....	224.6	421.0	850.1	851.7	812.2	800.8	691.7	603.5	551.1	562.7	592.2
Non-real estate.....	77.1	124.3	212.3	211.2	211.6	204.2	208.1	190.1	181.6	190.3	210.0
Livestock and poultry ¹	23.7	29.4	60.6	53.5	53.0	49.7	49.6	46.3	47.6	57.9	65.7
Machinery, motor vehicles.....	34.4	62.1	99.3	107.8	107.9	106.2	102.7	92.4	84.4	78.6	79.3
Crops stored.....	9.0	21.1	33.0	29.1	27.7	23.9	29.7	23.6	19.1	20.9	26.2
Household furnishings, equipment.....	10.0	11.7	19.4	20.8	23.0	24.4	26.1	27.8	30.5	32.9	38.8
Financial assets.....	23.2	30.3	39.1	40.8	42.6	45.0	47.9	49.0	54.5	56.7	58.5
Deposits and currency.....	12.4	14.5	16.2	16.7	17.4	18.2	19.8	21.1	24.8	26.4	27.5
Savings bonds.....	3.6	3.9	3.6	3.6	3.5	3.6	3.7	3.9	4.5	5.0	5.4
Investment in cooperatives.....	7.2	11.9	19.2	20.4	21.8	23.2	24.4	24.0	25.1	25.3	25.5
Claims	324.8	575.5	1,101.6	1,103.7	1,066.4	1,050.0	947.7	842.6	787.1	809.8	860.7
Debt.....	52.8	91.5	178.7	195.4	203.1	206.5	204.3	187.9	166.6	153.7	148.5
Real estate debt.....	30.5	49.9	97.5	107.2	111.3	113.7	112.3	105.7	95.9	87.7	83.0
Non-real estate debt.....	22.3	41.6	81.2	88.2	91.8	92.7	92.0	82.2	70.8	66.0	65.6
Equity.....	272.0	484.1	922.9	908.2	863.3	843.6	743.4	654.7	620.5	656.0	712.2
Farm debt/asset ratio (percent)	16.2	15.9	16.2	17.7	19.0	19.7	21.6	22.3	21.2	19.0	17.3
CONSTANT (1982) DOLLARS ²											
Assets	773.3	970.5	1,285.4	1,174.1	1,066.4	1,010.6	880.0	759.8	691.7	689.7	709.6
Physical assets:											
Real estate.....	534.7	709.9	992.0	906.0	812.2	770.8	642.2	544.2	484.2	479.3	488.2
Non-real estate.....	183.4	209.6	247.7	224.7	211.6	196.5	193.3	171.4	159.6	162.1	173.2
Livestock and poultry ¹	56.4	49.6	70.8	57.0	53.0	47.8	46.1	41.7	41.9	49.3	54.1
Machinery, motor vehicles.....	61.8	104.8	115.9	114.7	107.9	102.2	95.3	83.3	74.2	66.9	65.4
Crops stored.....	21.3	35.5	38.5	30.9	27.7	23.0	27.6	21.3	16.8	17.8	21.6
Household furnishings, equipment.....	23.7	19.7	22.6	22.1	23.0	23.5	24.2	25.1	26.8	28.0	32.0
Financial assets.....	55.2	51.1	45.7	43.4	42.6	43.3	44.5	44.2	47.9	48.3	48.2
Deposits and currency.....	29.6	24.5	18.9	17.8	17.4	17.5	18.4	19.0	21.8	22.5	22.7
Savings bonds.....	8.5	6.5	4.4	3.8	3.5	3.5	3.4	3.5	4.0	4.2	4.5
Investment in cooperatives.....	17.0	20.0	22.4	21.7	21.8	22.3	22.7	21.7	22.1	21.6	21.1
Claims	773.3	970.5	1,285.4	1,174.1	1,066.4	1,010.6	880.0	759.8	691.7	689.7	709.6
Debt.....	125.6	154.2	208.5	207.9	203.1	198.7	189.7	169.4	146.4	130.9	122.5
Real estate debt.....	72.6	84.1	113.8	114.1	111.3	109.5	104.3	95.4	84.3	74.7	68.4
Non-real estate debt.....	53.0	70.2	94.8	93.8	91.8	89.3	85.4	74.1	62.2	56.2	54.1
Equity.....	647.7	816.3	1,076.9	966.2	863.3	811.9	690.2	590.3	545.3	558.8	587.1

¹ Excludes horses and mules. ² Constant dollar figures are based on gross national product implicit price deflators for year.
 Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1988*, and unpublished data.

NO. 1117. INDICATORS OF FINANCIAL STRESS IN AGRICULTURE, 1980 TO 1988, AND BY FARM REGION, 1988

[In percent. For years ending in June, except as noted. Based on a survey of approximately 1,000 bankers which reflects their perception of farm financial conditions in their lending areas]

FINANCIAL STRESS INDICATOR	1980	1985	1986	1987	1988					
					Total	North-east ¹	Corn Belt ²	South ³	Plains ⁴	West ⁵
Average delinquency rate ^{6, 7}	(NA)	5.3	6.0	2.7	1.6	1.4	1.5	1.3	1.9	2.3
Farm borrowers who had bank financing discontinued.....	4.5	4.5	5.6	3.3	1.7	1.8	1.5	1.6	1.8	1.7
Farm borrowers loaned-up to practical limit ^{7, 8}	27	37	39	29	23	20	22	25	23	25
Farmers in bank lending area who went out of business.....	2.1	4.8	6.2	4.6	2.8	3.3	2.7	2.7	2.7	2.7
Farmers in bank lending area who went through bankruptcy.....	(NA)	3.8	4.2	3.3	2.2	2.4	2.0	3.3	2.0	2.0

NA Not available. ¹ ME, NH, VT, MA, RI, CT, NY, NJ, PA, DE, MD, DC, MI, WI, and MN. ² OH, IN, IL, IA, and MO.
³ VA, WV, NC, SC, GA, FL, KY, TN, AL, MS, AR, and LA. ⁴ ND, SD, NE, KS, OK, and TX. ⁵ MT, ID, WY, CO, NM, AZ, UT, NV, WA, OR, CA, AK, and HI. ⁶ Percentage of dollar farm loan volume 30 days or more delinquent. ⁷ As of June of year shown. ⁸ Farm customers who have reached their maximum debt load.
 Source: American Bankers Association, Washington, DC, *Agricultural Banker*, selected issues.

**NO. 1118. FINANCIAL CHARACTERISTICS OF FARMS, BY VALUE OF SALES AND TYPE OF FARM:
1985 TO 1988**

[Income data for calendar year shown; balance sheet data as of January 1 of following year. A farm is a crop or livestock farm if 50 percent or more of its commodity receipts derive from the sale of crop or animal products, respectively. A crop or livestock farm is further categorized as a particular type if 50 percent of its crop or, if applicable, livestock receipts come from a specific commodity area. Based on Farm Costs and Returns Survey conducted in February-March of following year.]

VALUE OF SALES AND TYPE OF FARM	FARMS—PERCENT DISTRIBUTION								FARM OPERATOR DEBT—PERCENT DISTRIBUTION BY DEBT/ASSET RATIO			
	Total	By net farm income/solvency position				By debt/asset ratio			Total	Less than 41 percent	41-70 percent	Over 70 percent
		Favorable ¹	Marginal income ²	Marginal solvency ³	Vulnerable ⁴	Less than 41 percent	41-70 percent	Over 70 percent				
1985.....	100.0	(NA)	(NA)	(NA)	(NA)	78.7	12.7	8.6	100.0	33.7	32.9	33.4
1986.....	100.0	56.8	21.5	11.7	10.0	78.4	13.0	8.6	100.0	32.9	34.0	33.1
1987.....	100.0	68.1	16.9	10.1	4.8	85.1	10.0	4.9	100.0	45.2	31.4	23.4
1988, total.....	100.0	66.9	19.5	8.3	5.3	86.4	9.2	4.4	100.0	49.0	31.6	19.4
Less than \$10,000.....	100.0	71.4	19.9	4.5	4.2	91.3	6.3	2.4	100.0	50.2	35.3	14.5
\$10,000-\$19,999.....	100.0	69.3	21.7	5.8	3.2	91.0	5.8	3.2	100.0	53.7	25.7	20.6
\$20,000-\$39,999.....	100.0	61.2	24.9	7.9	6.0	86.1	7.4	6.5	100.0	51.6	23.5	24.9
\$40,000-\$99,999.....	100.0	63.3	16.9	12.2	7.6	80.2	12.9	6.9	100.0	48.3	30.8	20.9
\$100,000-\$249,999.....	100.0	60.7	15.4	16.6	7.2	76.2	16.8	7.0	100.0	48.4	33.3	18.3
\$250,000-\$499,999.....	100.0	61.5	15.0	15.8	7.7	76.5	16.8	6.7	100.0	49.7	32.7	17.6
\$500,000 and over.....	100.0	55.1	17.6	18.9	8.4	72.7	17.4	9.9	100.0	46.9	30.9	22.2
Cash grain.....	100.0	61.7	18.9	12.4	7.0	80.5	12.3	7.2	100.0	46.8	34.6	18.6
Tobacco.....	100.0	78.1	10.6	6.3	5.0	88.7	6.1	5.2	100.0	51.3	22.1	26.6
Cotton.....	100.0	69.5	14.6	10.2	5.7	84.1	9.5	6.4	100.0	55.8	22.2	22.0
Other field crops.....	100.0	72.0	10.9	10.4	6.7	82.9	12.0	5.1	100.0	42.8	34.4	22.8
Vegetable, fruit, and nut.....	100.0	70.9	17.0	6.7	5.4	87.9	9.8	2.3	100.0	54.3	28.8	16.9
Nursery, greenhouse.....	100.0	68.2	18.6	5.7	7.5	86.8	9.6	3.8	100.0	64.0	25.5	10.5
General livestock.....	100.0	68.3	22.3	5.2	4.2	90.6	6.5	2.9	100.0	51.0	29.1	19.9
Poultry.....	100.0	59.2	9.4	22.8	8.6	68.6	18.2	13.2	100.0	36.5	42.1	21.4
Dairy.....	100.0	64.0	14.9	15.1	6.0	78.9	15.0	6.2	100.0	46.0	33.9	18.1
Other livestock.....	100.0	53.9	34.4	6.4	5.3	88.2	8.7	3.1	100.0	53.4	21.9	24.7

NA Not available. ¹ Represents farms with positive income and a debt/asset ratio of less than 41 percent. ² Represents farms with negative income and a debt/asset ratio of less than 41 percent. ³ Represents farms with positive income and a debt/asset ratio above 40 percent. ⁴ Represents farms with negative income and a debt/asset ratio above 40 percent.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Financial Characteristics of U.S. Farms, January 1, 1989*, AIB (No. 569), 1989.

NO. 1119. FARMS, FARM INCOME, ASSETS, AND DEBT, BY VALUE OF SALES: 1988

FARMS WITH VALUE OF SALES OF—	Number of farms ¹ (1,000)	Gross income ² (bil. dol.)	Cash receipts (bil. dol.)	Govt. payments (mil. dol.)	Net income ² (bil. dol.)	Assets ³ (bil. dol.)	Debt ³ (bil. dol.)	Debt/asset ratio ³ (percent)	PERCENT DISTRIBUTION		
									Number of farms ¹	Gross income ²	Assets ³
Total.....	2,197	181.9	151.4	14,480	49.9	860.7	148.5	17.3	100.0	100.0	100.0
Less than \$5,000.....	751	5.8	1.6	281	-.7	92.1	7.5	8.1	34.2	3.2	10.7
\$5,000-\$9,999.....	279	4.1	2.1	282	.3	45.4	4.3	9.5	12.7	2.3	5.3
\$10,000-\$19,999.....	274	6.3	4.0	639	.7	59.2	6.7	11.3	12.4	3.5	6.9
\$20,000-\$39,999.....	251	10.1	7.2	1,437	1.6	77.7	10.0	12.9	11.4	5.6	9.0
\$40,000-\$99,999.....	320	26.5	20.7	3,609	5.6	162.2	25.8	15.9	14.6	14.6	18.8
\$100,000-\$249,999.....	216	39.9	33.2	4,566	10.8	192.2	35.3	18.4	16.4	17.9	22.3
\$250,000-\$499,999.....	76	31.3	27.3	2,445	9.9	121.9	24.8	20.3	3.5	17.2	14.2
\$500,000 and over.....	30	57.9	55.4	1,221	21.6	110.0	34.2	31.1	1.4	31.7	12.8

¹ Based on 1974 census definition. See text, section 23. ² Data are before inventory adjustment. For components of income, see table 1122. Minus sign (-) indicates loss. ³ Data as of December 31. Includes farm households.

NO. 1120. NET CASH INCOME AND NET CASH FLOW FROM FARMING: 1970 TO 1988

[In billions of dollars. Net cash income is for farm operators from their farming operation and net cash flow is for the agricultural sector. Minus sign (-) indicates net loan redemption or decrease]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Net cash income.....	18.4	29.6	33.4	34.2	32.8	37.8	36.9	38.7	48.7	51.8	57.7	59.9
Gross cash income.....	54.8	90.7	135.1	143.3	146.0	150.6	150.4	155.3	156.9	152.5	162.0	171.6
Cash expenses.....	36.4	61.1	101.7	109.1	113.2	112.8	113.5	116.6	110.2	107.7	104.3	111.7
Change in loans outstanding.....	2.3	9.2	24.2	15.2	15.5	7.2	3.2	-2.0	-15.6	-20.0	-12.0	-4.6
Real estate loans.....	1.1	4.6	13.0	9.9	8.0	3.8	2.3	-1.2	-6.0	-9.0	-7.5	-4.4
Nonreal estate loans ¹	1.2	4.6	11.2	5.3	6.5	3.4	.9	-.8	-9.6	-11.0	-4.6	-.3
Net change in operators' currency and demand deposits.....	.1	.1	.1	.1	.2	.2	.3	.2	.7	1.1	-.2	.5
Net rent received by nonoperator landlords.....	2.1	4.0	6.2	6.1	6.2	6.1	5.1	8.6	8.2	6.7	7.1	7.5
Capital expenditures.....	6.8	12.4	20.1	18.0	16.8	13.3	12.7	12.5	9.6	8.5	9.8	10.2
Net cash flow ²	16.1	30.5	43.8	37.8	37.8	38.1	32.7	33.0	30.3	41.2	42.7	59.0

¹ Excludes Commodity Credit Corporation loans. ² Net cash income plus change in loans outstanding plus net change in currency and demand deposits plus net rent received by nonoperator landlords minus capital expenditures.

Source of tables 1119 and 1120: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

Gross Farm Product—Income and Expenses

647

NO. 1121. GROSS FARM PRODUCT—SUMMARY: 1970 TO 1988

[In billions of dollars. For definition of gross product, see text, section 14. Minus sign (–) indicates decrease]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CURRENT DOLLARS												
Total value of farm output¹	55.1	99.8	149.5	148.4	164.3	159.0	142.9	133.1	141.7	144.9	134.4	140.1
Farm marketings cash receipts ²	50.5	88.9	131.5	139.8	142.1	142.9	133.1	141.7	144.9	134.4	140.1	150.5
Farm products consumed ³.....	.8	1.1	1.2	1.1	1.1	1.0	1.1	1.1	.9	.9	.8	.8
Change in farm inventories.....	–	3.4	5.0	–5.9	5.8	–1.4	7.5	7.1	–3.3	1.8	1.3	–3.8
Gross rental value of farm housing.....	3.3	5.4	9.3	11.0	12.6	12.9	12.1	12.2	10.9	9.7	9.1	9.5
Less: Intermediate products purchased ⁴	28.8	49.5	77.7	82.9	84.5	82.0	83.6	89.2	83.4	73.2	78.6	87.4
Equals: Gross farm product.....	26.3	50.3	71.8	65.5	79.8	77.0	59.3	77.6	75.4	75.8	76.6	76.1
Less: Capital consumption allowances ⁵	5.9	10.4	16.4	18.9	20.8	22.0	22.4	22.5	22.0	21.5	21.0	20.3
Indirect business taxes.....	2.0	2.5	3.0	3.0	3.2	3.3	3.2	3.0	3.1	3.0	3.1	3.2
Plus: Subsidies to farm operators.....	3.3	.7	1.1	1.1	1.6	2.4	7.9	7.0	6.3	9.5	13.9	11.8
Equals: Farm national income.....	21.7	38.1	53.4	44.7	57.3	54.0	41.7	59.2	56.6	60.8	66.6	64.5
CONSTANT (1982) DOLLARS												
Total value of farm output¹	135.2	138.6	155.8	151.7	159.3	159.0	143.1	155.2	164.1	163.1	167.1	158.3
Farm marketings cash receipts ²	112.7	117.4	132.5	138.5	138.9	142.9	132.4	133.2	150.7	147.8	151.5	144.2
Farm products consumed ³	1.7	2.0	1.4	1.2	1.1	1.0	1.1	1.0	1.0	.9	.8	.8
Change in farm inventories.....	.8	1.4	4.6	–4.7	4.9	–1.4	–6.3	4.6	–4.3	–2.4	–2.1	–2.8
Gross rental value of farm housing.....	18.3	16.4	14.9	14.3	13.6	12.9	12.3	12.1	11.7	11.4	11.1	10.8
Less: Intermediate products purchased ⁴	74.5	73.8	91.2	87.6	83.5	82.0	81.8	86.7	84.7	79.0	83.8	85.5
Equals: Gross farm product.....	60.7	64.8	64.6	64.2	75.7	77.0	61.3	68.5	79.4	84.1	83.4	72.7
Less: Capital consumption allowances ⁵	16.0	19.0	21.7	22.3	22.2	22.0	21.4	20.8	20.0	19.0	18.0	17.1
Indirect business taxes.....	2.6	2.8	2.8	2.8	3.3	3.3	2.7	3.0	3.4	3.6	3.6	3.1
Plus: Subsidies to farm operators.....	1.6	1.8	2.1	2.3	2.2	2.4	2.0	2.0	2.5	2.4	2.5	2.2
Equals: Farm national income.....	43.7	44.7	42.2	41.4	52.4	54.0	39.3	46.8	58.5	63.9	64.3	54.7

– Represents zero. ¹ Includes other farm income not shown separately. ² Includes net CCC loans. ³ In farm households where raised. ⁴ Net of defaulters' gain. ⁵ With capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929–82*, and *Survey of Current Business*, July issues.

NO. 1122. FARM INCOME AND EXPENSES: 1970 TO 1988

[In billions of dollars. See also *Historical Statistics, Colonial Times to 1970*, series K 192, K 259–260, K 264–285, and K 326]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Gross income from farming.....	58.8	100.6	150.7	149.3	166.3	163.5	153.1	174.9	166.4	160.4	171.6	177.6
Cash income.....	54.8	90.7	135.1	143.3	146.0	150.6	150.4	155.3	156.9	152.5	162.0	171.6
Marketings, cash receipts.....	50.5	88.9	131.5	139.7	141.6	142.6	136.6	142.4	144.1	135.5	139.5	151.4
Crops ¹	21.0	45.8	62.3	71.7	72.5	72.3	67.1	69.5	74.3	64.0	63.8	72.6
Net CCC loans ²	–1	–2	–9	.5	3.1	9.1	.7	–8	11.8	6.3	.2	–5.2
Livestock.....	29.5	43.1	68.2	68.0	69.7	63.3	69.4	73.0	68.8	73.7	75.7	78.9
Government payments.....	3.7	.8	1.4	1.3	1.9	3.5	9.3	8.4	7.7	11.8	16.7	14.5
Other farm income ³.....	.6	1.0	2.2	2.3	2.5	4.5	4.5	4.4	5.0	5.1	5.8	5.7
Value of home consumption.....	–.8	1.1	1.3	1.2	1.2	1.1	1.1	1.1	.9	.9	.8	.8
Rental value of dwellings.....	3.3	5.4	9.3	11.0	12.6	13.1	12.5	12.3	10.9	9.7	9.1	9.5
Value of change in inventories ⁴	(2)	3.4	5.0	–6.3	6.5	–1.4	–10.9	6.3	–2.4	2.7	–4	–4.3
Expenses of farm production.....	44.5	75.1	123.3	133.1	139.4	140.0	140.4	142.7	134.0	122.4	124.5	132.0
Intermediate products.....	25.2	42.5	71.9	76.1	76.6	73.7	75.8	76.0	72.2	65.8	69.4	76.3
Farm origin.....	13.3	20.0	35.2	34.9	33.3	31.4	33.5	32.8	30.3	28.9	31.8	36.9
Feed purchased.....	8.0	12.9	19.3	21.0	20.9	18.6	21.7	19.9	18.0	16.2	16.9	21.0
Livestock, poultry.....	4.3	5.0	13.0	10.7	9.0	9.7	8.8	8.5	9.0	9.7	11.8	12.8
Seed purchased ⁵.....	.9	2.1	2.9	3.2	3.4	3.2	3.0	3.4	3.4	3.0	3.0	3.1
Manufactured inputs.....	5.4	12.4	17.9	22.4	23.9	22.2	20.9	21.5	21.0	17.0	17.0	18.2
Fertilizer and lime.....	2.4	6.7	7.4	9.5	9.4	8.0	7.1	7.4	7.3	5.8	5.6	6.4
Pesticides.....	1.0	1.8	3.4	3.5	4.2	4.3	4.2	4.8	5.0	4.5	4.6	4.7
Fuel and oil.....	1.7	3.3	5.6	7.9	8.6	7.9	7.5	7.1	6.6	4.8	4.4	4.5
Electricity.....	.3	.8	1.4	1.5	1.7	2.0	2.1	2.2	2.1	1.9	2.4	2.6
Repairs and maintenance ⁶	2.8	4.5	7.3	7.6	7.6	6.4	6.5	6.4	6.4	6.4	6.5	6.9
Other ⁷	3.7	5.6	11.5	11.2	11.9	13.6	14.9	15.3	14.5	13.5	14.1	14.3
Interest.....	3.4	6.4	13.1	16.3	19.9	21.8	21.4	21.1	18.7	16.9	15.5	15.2
Real estate.....	1.6	3.3	6.2	7.5	9.1	10.5	10.8	10.7	9.9	9.1	8.2	7.9
Non-real estate.....	1.6	3.1	6.9	8.7	10.7	11.3	10.6	10.4	8.8	7.8	7.3	7.3
Contract, hired labor expenses ⁸	4.3	6.6	9.0	9.3	8.9	10.1	9.7	9.7	9.8	9.9	10.8	11.2
Net rent to nonoperator landlords.....	2.1	4.0	6.2	6.1	6.2	6.1	5.1	8.6	8.2	6.7	7.1	7.5
Capital consumption ⁹	6.9	12.4	19.3	21.5	23.6	24.3	23.9	23.1	20.8	18.9	17.4	17.4
Property taxes.....	2.6	3.2	3.9	3.9	4.2	4.0	4.5	4.1	4.2	4.1	4.3	4.4
Net income of farm operators												
from farming.....	14.4	25.5	27.4	16.1	26.9	23.5	12.7	32.2	32.4	38.0	47.1	45.7
In constant (1982) dollars.....	34.2	43.1	34.9	18.8	28.6	23.5	12.2	29.9	29.2	33.4	40.0	37.5

¹ Less than \$50 million. ² Forest product sales are included in cash receipts for crops for 1970 and 1975 and in other farm income beginning 1979. ³ Commodity Credit Corporation (CCC) loans made minus loans repaid. ⁴ Minus sign (–) indicates decrease in inventories. ⁵ Includes bulbs, plants, and trees. ⁶ Expenditures for repairs and maintenance of farm buildings, motor vehicles, and machinery. ⁷ Includes machine hire and customwork expenses; marketing, storage, and transportation expenses and miscellaneous expenses. Beginning 1979 data not strictly comparable with prior years. ⁸ Includes Social Security payments and perquisites. ⁹ Depreciation and accidental damage.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

NO. 1123. FARM INCOME—CASH RECEIPTS FROM FARM MARKETINGS: 1980 TO 1988

[Represents gross receipts from commercial market sales as well as net Commodity Credit Corporation loans. See also *Historical Statistics, Colonial Times to 1970*, series K 286-302]

COMMODITY	FARM MARKETINGS (mil. dol.)								PERCENT		Leading States in order of cash receipts, 1988
	1980	1983	1984	1985	1986	1987	1988	1980	1988		
Total	139,737	136,567	142,439	144,135	135,539	139,468	151,431	100.0	100.0	CA, TX, IA	
All crops.....	71,746	67,129	69,471	74,290	64,005	63,751	72,569	51.3	47.9	CA, FL, IL	
Feed crops.....	18,308	15,535	15,668	22,520	17,161	13,102	15,291	13.1	10.1	IL, IA, NE	
Corn.....	13,959	10,857	10,479	16,852	12,557	8,531	10,132	10.0	6.7	IL, IA, NE	
Hay.....	1,917	2,157	2,322	2,348	2,209	2,492	2,899	1.4	1.9	CA, CO, KS	
Sorghum.....	1,392	1,220	1,469	1,981	1,390	1,043	1,126	1.0	.7	IA, IL, MN	
Barley.....	736	991	1,088	1,040	821	772	846	.5	.6	ND, ID, MT	
Oil-bearing crops.....	15,493	13,546	13,641	12,474	10,571	11,159	13,699	11.1	9.0	IA, IL, MN	
Soybean.....	14,241	12,154	11,957	11,180	9,191	9,892	12,399	10.2	8.2	IA, IL, MN	
Peanuts.....	607	802	1,293	1,005	1,075	1,029	1,082	.4	.7	GA, AL, NC	
Food grains.....	10,402	9,713	9,740	8,993	5,638	5,561	7,700	7.4	5.1	KS, AR, ND	
Wheat.....	8,854	8,777	8,586	7,911	4,887	4,973	6,433	6.3	4.2	KS, ND, OK	
Rice.....	1,519	882	1,096	1,042	722	583	1,245	1.1	.8	AR, CA, LA	
Vegetables ¹	7,307	8,459	9,138	8,558	8,826	9,718	9,819	5.2	6.5	CA, FL, WA	
Potatoes.....	(NA)	1,689	1,921	1,604	1,376	1,688	1,650	(NA)	1.1	ID, WA, CA	
Tomatoes.....	(NA)	1,137	1,240	1,198	1,265	1,285	1,408	(NA)	.9	CA, FL, VA	
Fruits, tree nuts ¹	6,557	6,056	6,733	6,957	7,246	8,257	8,877	4.7	5.9	CA, FL, WA	
Oranges.....	(NA)	1,335	1,359	1,404	1,185	1,560	1,704	(NA)	1.1	FL, CA, TX	
Apples.....	(NA)	739	951	892	932	1,069	1,112	(NA)	.7	WA, CA, NY	
Cotton lint, seed.....	4,447	3,705	3,674	3,687	3,605	4,087	4,668	3.2	3.1	TX, CA, MS	
Tobacco.....	2,672	2,752	2,813	2,722	1,918	1,827	2,039	1.9	1.3	NC, KY, SC	
Greenhouse nursery.....	6,580	4,529	5,230	5,446	5,922	6,615	6,937	4.7	4.6	CA, FL, TX	
Other ²	(NA)	2,836	2,835	2,935	3,119	3,406	3,539	(NA)	2.3	(NA)	
All livestock and products.....	67,991	69,438	72,968	69,845	71,534	75,717	78,862	48.7	52.1	TX, NE, IA	
Cattle and calves.....	31,819	28,682	30,662	29,057	28,923	33,444	36,290	22.8	24.0	TX, NE, KS	
Dairy products.....	16,365	18,763	17,944	18,063	17,753	17,710	17,668	11.7	11.7	WI, CA, NY	
Hogs.....	8,942	9,785	9,703	9,029	8,716	10,288	9,214	6.4	6.1	IA, IL, MN	
Broilers.....	4,303	4,873	6,018	5,680	6,777	6,176	7,431	3.1	4.9	AR, GA, AL	
Eggs.....	3,247	3,451	4,090	3,252	3,508	3,178	3,059	2.3	2.0	CA, GA, AR	
Turkeys.....	1,273	1,269	1,656	1,819	1,952	1,703	1,955	1.3	1.3	NC, MN, CA	
Horses and mules.....	(P)	580	580	560	500	540	540	(P)	.4	KY	
Sheep and lambs.....	471	426	466	503	484	543	471	.3	.3	CA, TX, CO	
Other poultry ³	337	388	461	459	425	424	420	.2	.3	(NA)	
Other ⁴	³ 1,233	1,241	1,389	1,422	1,497	1,712	1,814	.9	1.2	(NA)	

NA Not available. ¹ Melons included with vegetables. ² Sugar crops, mushrooms, legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber. ³ Horses and mules included in other. ⁴ Farm chickens, ducks, geese, guineas, pigeons, quail, pheasants, and turkey hatching eggs. ⁵ Wool, mohair, honey, aquaculture, and other livestock.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1988*.

NO. 1124. CASH INCOME OF FARM OPERATOR HOUSEHOLDS, BY TYPE: 1980 TO 1988

[Net cash farm income is gross cash income minus cash expenses; see also table 1120. Off-farm income is defined as the income received by farm operators and their households from nonfarm wage and salary jobs, wages earned on other farms, nonfarm business and professional income, interest, dividends, and all other cash nonfarm income]

YEAR AND VALUE OF SALES	CURRENT DOLLARS				CONSTANT (1982) DOLLARS ¹			AVERAGE INCOME PER FARM (dol.)			Adjusted average farm household income ² (dol.)	Mean household income, all households ³ (dol.)	Ratio of farm household income to total (per cent)
	Total (bil. dol.)	Net cash farm income (bil. dol.)	Off-farm income		Total (bil. dol.)	Net cash farm income (bil. dol.)	Off-farm income (bil. dol.)	Total	Net cash farm income	Off-farm income			
			Amount (bil. dol.)	Per cent of total									
1980.....	68.9	34.2	34.7	50.4	80.4	39.9	40.5	28,234	14,016	14,219	18,434	21,063	88
1981.....	68.6	32.8	35.8	52.2	73.0	34.9	36.1	28,107	13,434	14,672	17,411	22,787	76
1982.....	74.3	37.9	36.4	49.0	74.3	37.8	36.4	30,856	15,722	15,134	20,422	24,309	84
1983.....	73.9	36.9	37.0	51.1	71.1	35.5	35.6	31,059	15,499	15,561	20,623	25,609	81
1984.....	77.6	38.7	38.9	50.2	72.1	35.9	36.1	33,255	16,577	16,679	22,347	27,464	81
1985.....	89.3	46.7	42.6	47.7	80.5	42.1	38.4	38,946	20,367	18,579	29,436	29,066	101
1986.....	96.4	51.8	44.6	46.3	84.7	45.5	39.2	42,862	23,022	19,840	34,246	30,759	111
1987.....	104.5	57.7	46.8	44.8	88.7	49.0	39.7	47,201	26,067	21,134	(NA)	32,144	(NA)
1988.....	111.6	59.9	51.7	46.3	91.7	49.2	42.5	50,792	27,285	23,526	(NA)	(NA)	(NA)
Less than \$40,000.....	44.2	3.1	41.1	93.0	(NA)	(NA)	(NA)	28,422	1,988	26,434	(NA)	(NA)	(NA)
\$40,000-\$99,999.....	12.8	8.1	4.7	36.7	(NA)	(NA)	(NA)	39,931	25,252	14,679	(NA)	(NA)	(NA)
\$100,000-\$249,999.....	17.7	13.9	3.8	21.5	(NA)	(NA)	(NA)	81,826	64,171	17,657	(NA)	(NA)	(NA)
\$250,000-\$499,999.....	12.9	11.7	1.2	9.3	(NA)	(NA)	(NA)	169,361	153,106	16,254	(NA)	(NA)	(NA)
\$500,000 or more.....	24.0	23.2	.8	3.3	(NA)	(NA)	(NA)	790,721	762,830	27,891	(NA)	(NA)	(NA)

NA Not available. ¹ Constant dollar figures are based on gross national product implicit price deflators for year. ² Excludes nonmoney income and expense items and includes the wages and salaries farm operator households pay themselves. ³ Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 162.

Source: Except as noted, U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual and unpublished data.

NO. 1125. NET CASH RETURN FROM AGRICULTURAL SALES, BY SIZE OF SALES: 1987

[In thousands, except as noted. Net cash return is the gross market value of agricultural products sold minus total operating expenditures. Expenditures include depreciation and the change in inventory values. Gross sales include sales by the operator as well as the share of sales received by partners, landlords, and contractors. Thus, the net cash return is that of the farm unit rather than the net income of the operator. Based on a sample of farms. Minus sign (-) indicates loss]

ITEM	All farms	FARMS WITH SALES OF—		ITEM	All farms	FARMS WITH SALES OF—	
		Less than \$10,000	\$10,000 or more			Less than \$10,000	\$10,000 or more
Number of farms	2,087.8	1,029.7	1,058.1	Farms with net gain of—			
Farms with net gains	1,185.5	368.1	817.4	Less than \$1,000 ¹	167.2	138.3	28.9
Farms with net losses	902.3	661.6	240.7	\$1,000-\$4,999	324.9	203.4	121.5
Net cash return (mil. dol.)	26,430.5	1,769.0	28,199.6	\$5,000-\$9,999	172.0	26.4	145.6
Farms with net gains	32,130.8	720.3	31,410.6	\$10,000-\$24,999	219.8	-	219.8
Farms with net losses	-5,700.3	-2,489.3	-3,211.0	\$25,000-\$49,999	150.7	-	150.7
Net return per farm (dol.)	12.660	-1,778	26.651	\$50,000 or more	151.0	-	151.0
Farms with net gains	27,104	1,957	38,428	Farms with net loss of—			
Farms with net losses	-6,318	-3,763	-13,340	Less than \$1,000	189.9	166.6	23.3
				\$1,000-\$4,999	412.9	340.8	72.1
				\$5,000-\$9,999	163.4	108.4	55.0
				\$10,000-\$24,999	104.4	41.7	62.7
				\$25,000-\$49,999	22.5	3.2	19.3
				\$50,000 or more	9.2	.8	8.4

- Represents zero. ¹ Includes farms with production expenses equal to value of products sold.

Source: U.S. Bureau of the Census, 1987 Census of Agriculture, vol. 1.

NO. 1126. GOVERNMENT PAYMENTS TO FARMS, BY PROGRAM: 1980 TO 1988

[In millions of dollars. See also Historical Statistics, Colonial Times to 1970, series K 326-329]

PROGRAM	1980	1984	1985	1986	1987	1988	PROGRAM	1980	1984	1985	1986	1987	1988
Total	1,286	8,430	7,705	11,814	16,747	14,480	Rice	2	192	577	423	475	465
Feed grain	382	367	2,861	5,158	8,490	7,219	Wool	28	118	98	112	144	117
Wheat	211	1,795	1,950	3,500	2,931	1,842	Conservation... ..	214	191	189	254	1,531	1,607
Cotton	172	275	1,106	1,042	1,204	924	Miscellaneous	276	5,493	1,924	1,325	1,972	2,306

¹ Includes value of commodities transferred to farmers under the payment-in-kind program (PIK). For 1984, \$4.5 billion; and for 1985, \$.1 billion.

Source: U.S. Department of Agriculture, Economic Research Service, Economic Indicators of the Farm Sector: National Financial Summary, 1988.

NO. 1127. FARMS RECEIVING GOVERNMENT PAYMENTS OR COMMODITY CREDIT CORPORATION LOANS: 1987

SIZE OF FARM, VALUE OF SALES, AND RECEIPT OR LOAN SIZE	GOVERNMENT PAYMENTS ¹					COMMODITY CREDIT CORPORATION LOANS				
	Farms		Value			Farms		Value		
	Number	Percent distribution	Amount (mil. dol.)	Percent distribution	Average per farm (dol.)	Number	Percent distribution	Amount (mil. dol.)	Percent distribution	Average per farm (dol.)
Total	699,010	100.0	9,647	100.0	13,800	300,909	100.0	8,333	100.0	27,693
Under 50 acres	38,612	5.5	69	7	1,788	6,805	2.3	53	.6	7,798
50-179 acres	161,682	23.1	542	5.6	3,351	46,606	15.5	313	3.8	6,712
180-499 acres	243,441	34.8	2,155	22.3	8,852	110,897	36.9	1,865	22.4	16,810
500-999 acres	139,793	20.0	2,720	28.2	19,459	77,656	25.8	2,719	32.6	35,018
1,000 acres or more	115,482	16.5	4,161	43.1	36,028	58,945	19.6	3,384	40.6	57,405
Less than \$2,500	39,047	5.6	100	1.0	2,568	2,898	1.0	3	(2)	1,008
\$2,500-\$4,999	37,362	5.3	85	9	2,279	5,193	1.7	10	.1	1,909
\$5,000-\$9,999	62,964	9.0	191	2.0	3,032	12,875	4.3	42	.5	3,258
\$10,000-\$24,999	124,838	17.9	634	6.6	5,079	40,672	13.5	272	3.3	6,688
\$25,000-\$49,999	118,072	16.9	1,068	11.1	9,045	55,158	18.3	702	8.4	12,727
\$50,000-\$99,999	134,354	19.2	2,007	20.8	14,939	75,642	25.1	1,703	20.4	22,510
\$100,000-\$249,999	131,915	18.9	3,247	33.7	24,611	80,009	26.6	3,244	38.9	40,541
\$250,000-\$499,999	36,327	5.2	1,430	14.8	39,376	21,392	7.1	1,536	18.4	71,808
\$500,000-\$999,999	10,309	1.5	580	6.0	56,258	5,444	1.8	578	6.9	106,251
\$1,000,000 or more	3,822	.5	304	3.2	79,660	1,626	.5	243	2.9	149,541
Farms with payments/loans of—										
\$1-\$999	94,213	13.5	45	5	482	12,943	4.3	7	.1	516
\$1,000-\$4,999	209,786	30.0	563	5.8	2,681	55,315	18.4	158	1.9	2,852
\$5,000-\$9,999	127,073	18.2	909	9.4	7,156	49,033	16.3	353	4.2	7,206
\$10,000-\$24,999	153,309	21.9	2,428	25.2	15,835	82,156	27.3	1,334	16.0	16,240
\$25,000-\$49,999	76,513	10.9	2,678	27.8	35,004	54,352	18.1	1,914	23.0	35,209
\$50,000 or more	38,116	5.5	3,023	31.3	79,319	47,110	15.7	4,568	54.8	96,956

Z Less than .05 percent. ¹ Covers direct cash or generic commodity certificate (PIK) payments received by the farm operator in 1987.

Source: U.S. Bureau of the Census, 1987 Census of Agriculture, vol. 1.

NO. 1128. FARM ASSETS, DEBT, AND INCOME, BY STATE: 1987 AND 1988

[Assets and debt, as of December 31. Includes farm operator households. Farm income data are after inventory adjustment]

DIVISION AND STATE	ASSETS (mil. dol.)		DEBT (mil. dol.)		DEBT/ASSET RATIO (percent)		GROSS FARM INCOME (mil. dol.)		NET FARM INCOME (mil. dol.)		NET FARM INCOME /DEBT RATIO (percent)	
	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988	1987	1988
U.S.	809,753	860,728	153,715	148,541	19.0	17.3	171,625	177,625	47,126	45,654	29.4	30.2
N.E.:												
ME.....	2,563	2,732	359	371	14.0	13.6	523	508	136	107	37.4	29.2
NH.....	1,334	1,464	71	71	5.3	4.8	183	192	64	68	86.7	96.7
VT.....	2,953	3,157	330	337	11.2	10.7	488	494	127	119	37.1	35.7
MA.....	3,293	3,527	240	232	7.3	6.6	491	543	171	208	70.1	88.0
RI.....	550	589	27	29	4.9	4.9	90	97	48	54	178.9	191.9
CT.....	2,804	3,015	191	230	6.8	7.6	463	478	171	179	85.1	84.7
M.A.:												
MD.....	13,520	13,889	2,425	2,240	17.9	16.1	2,957	2,909	680	571	26.2	24.5
NJ.....	6,919	7,904	394	390	5.7	4.9	841	868	355	364	87.5	92.9
PA.....	21,560	24,966	2,377	2,413	11.0	9.7	3,752	3,806	997	892	40.8	37.3
E.N.C.:												
OH.....	23,261	25,004	3,546	3,501	15.2	14.0	4,190	4,122	932	767	25.0	21.8
IN.....	23,338	25,568	5,114	4,982	21.9	19.5	4,845	4,634	903	622	16.7	12.3
IL.....	43,092	47,300	7,713	7,602	17.9	16.1	7,753	7,563	1,571	1,166	19.3	15.2
MI.....	14,906	15,441	3,330	3,082	22.3	20.0	3,342	3,241	755	602	21.3	18.8
WI.....	21,455	22,564	5,649	5,399	26.3	23.9	5,836	5,492	1,706	1,343	29.0	24.3
W.N.C.:												
MN.....	28,557	31,023	7,457	7,135	26.1	23.0	7,467	7,033	1,999	1,510	25.4	20.7
IA.....	44,711	51,452	10,223	9,947	22.9	19.3	11,016	10,783	2,685	2,010	24.7	19.9
MO.....	27,194	28,973	5,046	4,877	18.6	16.8	4,476	4,638	970	900	18.4	18.1
ND.....	18,466	19,054	3,846	3,642	20.8	19.1	3,178	2,642	777	373	19.5	9.9
SD.....	14,433	15,667	3,558	3,376	24.6	21.5	3,369	3,308	971	781	25.9	22.5
NE.....	26,942	31,106	6,492	6,492	24.1	20.9	8,731	9,755	2,091	2,098	30.8	32.3
KS.....	26,950	29,461	5,662	5,620	21.0	19.1	7,325	7,945	1,693	1,589	28.8	28.2
S.A.:												
DE.....	1,518	1,675	278	280	18.3	16.7	524	636	139	206	49.8	74.0
MD.....	6,632	7,085	913	899	13.6	12.7	1,356	1,451	381	415	40.0	45.8
VA.....	14,911	16,470	1,889	1,973	12.7	12.0	2,208	2,385	551	595	28.5	30.8
WV.....	3,085	3,275	356	453	11.5	13.8	331	378	40	64	11.5	15.7
NC.....	16,032	16,753	3,029	2,825	18.9	16.9	4,718	5,108	1,538	1,700	49.4	58.1
SC.....	6,763	7,354	1,252	1,108	18.5	15.1	1,196	1,311	273	324	20.5	27.4
GA.....	15,975	17,449	3,527	3,355	22.1	19.2	3,773	4,111	1,214	1,371	34.0	39.8
FL.....	22,955	24,201	3,663	3,688	16.0	15.2	5,720	6,198	2,482	2,875	65.9	78.2
E.S.C.:												
KY.....	17,387	18,258	2,946	2,857	16.9	15.7	2,989	3,138	879	934	28.0	32.2
TN.....	20,208	20,903	2,279	2,204	11.3	10.5	2,664	2,822	639	769	26.9	34.3
AL.....	11,367	11,810	1,730	1,624	15.2	13.6	2,594	2,888	803	967	43.8	57.7
MS.....	13,132	13,328	3,267	3,039	25.0	22.8	2,592	2,868	737	931	21.8	29.4
W.S.C.:												
AR.....	14,682	15,225	3,225	3,044	22.0	20.0	3,901	4,578	1,180	1,564	35.4	49.9
LA.....	9,762	9,691	2,424	2,244	24.8	23.2	1,852	2,181	375	605	15.0	25.9
OK.....	20,728	22,619	4,380	4,243	21.1	18.8	3,645	4,179	1,027	1,113	22.9	25.8
TX.....	82,537	80,878	11,447	10,713	13.9	13.2	12,691	12,982	3,774	3,671	32.3	33.1
Mt.:												
MT.....	14,232	14,785	3,032	2,775	21.3	18.8	1,858	1,715	359	242	11.3	8.3
ID.....	11,866	12,552	2,638	2,521	22.2	20.1	2,556	2,699	617	609	22.2	23.6
WY.....	6,850	6,721	847	789	12.7	11.7	758	846	63	99	7.1	12.1
CO.....	17,038	17,603	3,248	3,173	19.1	18.0	4,025	4,447	754	751	22.3	23.4
NM.....	7,664	8,316	1,108	1,091	14.5	13.1	1,339	1,466	297	292	25.8	26.6
AZ.....	9,501	9,300	1,732	1,645	18.2	17.7	2,030	2,157	559	569	31.9	33.7
UT.....	6,370	6,438	806	800	12.6	12.4	754	831	174	187	20.5	23.3
NV.....	2,334	2,415	340	298	14.6	12.3	244	256	37	41	10.1	12.7
Pac.:												
WA.....	15,551	16,467	3,077	2,935	19.8	17.8	3,824	3,945	1,397	1,274	44.0	42.4
OR.....	12,153	12,328	2,645	2,625	21.8	21.3	2,407	2,612	813	932	29.1	35.4
CA.....	55,889	58,627	13,182	13,001	23.7	22.2	17,122	17,742	6,055	6,058	44.2	46.3
AK.....	396	446	31	33	7.7	7.5	38	37	15	12	44.9	36.8
HI.....	3,785	3,801	355	340	9.4	9.0	600	609	172	171	47.3	49.3

¹ Total debt in this ratio is an average for the year.Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1988*.

NO. 1129. FARM INCOME—FARM MARKETINGS, 1987 AND 1988, GOVERNMENT PAYMENTS, 1988, AND PRINCIPAL COMMODITIES, 1988, BY STATE

(In millions of dollars. Cattle include calves; sheep include lambs; and greenhouse includes nursery)

DIVISION AND STATE	1987						1988		Government payments	State rank for total farm marketings and principal commodities in order of marketing receipts and as percentage of total marketings
	Farm marketings			Farm marketings			Total	Live-stock and products		
	Total	Crops	Live-stock and products	Total	Crops	Live-stock and products				
U.S.	139,468	63,751	75,717	151,431	72,569	78,862	14,480		Cattle, dairy products, soybeans, corn (51%)	
N.E.	1,814	818	997	1,808	882	926	21		(x)	
ME.....	412	184	228	404	188	216	7		43—Potatoes, eggs, dairy products, blueberries (74%)	
NH.....	193	72	67	137	77	60	2		48—Dairy products, greenhouse, apples, cattle (68%)	
VT.....	422	45	377	405	53	352	6		21—Dairy products, cattle, hay, maple products (92%)	
MA.....	379	259	121	402	297	105	3		44—Greenhouse, cranberries, dairy products, eggs (74%)	
RI.....	77	64	13	78	65	13	(2)		49—Greenhouse, dairy products, eggs, potatoes (62%)	
CT.....	385	194	191	382	202	180	3		45—Greenhouse, eggs, dairy products, tobacco (76%)	
M.A.	6,456	2,142	4,314	6,531	2,209	4,321	163		(x)	
NY.....	2,610	800	1,809	2,605	824	1,781	87		22—Dairy products, greenhouse, cattle, hay (73%)	
NJ.....	633	438	185	642	450	192	11		39—Greenhouse, dairy products, eggs, blueberries (50%)	
PA.....	3,213	904	2,310	3,284	935	2,348	65		19—Dairy products, cattle, greenhouse, mushrooms (68%)	
E.N.C.	20,892	9,854	11,237	21,925	10,841	11,083	3,084		(x)	
OH.....	3,478	1,862	1,616	3,629	2,025	1,604	382		15—Soybeans, dairy products, corn, cattle (66%)	
IN.....	3,706	1,832	1,874	4,117	2,367	1,749	616		11—Soybeans, corn, hogs, cattle (74%)	
MI.....	6,099	3,850	2,249	6,461	4,218	2,243	1,374		6—Soybeans, corn, hogs, cattle (87%)	
IL.....	2,594	1,311	1,282	2,670	1,464	1,206	303		21—Dairy products, corn, cattle, soybeans (53%)	
WI.....	5,015	799	4,216	5,048	767	4,281	409		9—Dairy products, cattle, hogs, corn (85%)	
W.N.C.	36,078	13,770	22,310	36,914	16,077	22,835	6,309		(x)	
MN.....	5,891	2,270	3,581	6,107	2,743	3,364	1,036		7—Dairy products, soybeans, cattle, corn (66%)	
IA.....	8,765	3,563	5,202	9,074	4,029	5,045	1,665		3—Hogs, soybeans, cattle, corn (91%)	
ND.....	3,687	1,586	2,102	3,826	1,814	2,011	457		13—Soybeans, cattle, hogs, dairy products (69%)	
MO.....	2,363	1,601	762	2,423	1,574	849	715		24—Wheat, cattle, barley, sunflowers (71%)	
SD.....	2,726	820	1,907	2,911	945	1,965	496		20—Cattle, hogs, soybeans, corn (78%)	
NE.....	6,824	1,967	4,857	7,979	2,643	5,336	1,092		4—Cattle, corn, hogs, soybeans (88%)	
KS.....	5,882	1,963	3,919	6,584	2,329	4,265	648		5—Cattle, wheat, sorghum grain, soybeans (85%)	
S.A.	18,895	8,889	8,025	18,558	10,084	8,477	559		(x)	
DE.....	487	116	370	592	149	444	11		40—Broilers, soybeans, greenhouse, corn (83%)	
MD.....	1,140	405	734	1,226	459	768	43		35—Broilers, dairy products, greenhouse, soybeans (69%)	
VA.....	1,759	484	1,275	1,886	592	1,294	64		31—Cattle, broilers, dairy products, tobacco (57%)	
WV.....	234	60	174	248	76	179	12		12—Cattle, broilers, dairy products, apples (67%)	
NC.....	3,768	1,658	2,111	4,173	1,994	2,179	146		10—Cattle, broilers, hogs, turkeys (56%)	
SC.....	929	479	450	1,078	590	488	77		36—Tobacco, cattle, soybeans, broilers (48%)	
GA.....	3,124	1,299	1,825	3,544	1,533	2,011	174		16—Broilers, peanuts, cattle, eggs (58%)	
FL.....	5,454	4,368	1,086	5,811	4,697	1,114	32		8—Oranges, greenhouse, tomatoes, sugarcane (54%)	
E.S.C.	8,573	3,392	5,180	9,317	3,827	5,489	658		(x)	
QC.....	2,448	940	1,507	2,530	992	1,538	161		23—Horses, cattle, tobacco, dairy products (72%)	
TN.....	1,984	874	1,110	2,046	965	1,080	140		29—Cattle, dairy products, soybeans, cotton (60%)	
AL.....	2,154	633	1,521	2,400	706	1,695	115		25—Broilers, cattle, greenhouse, peanuts (71%)	
MS.....	1,987	945	1,042	2,341	1,164	1,176	242		26—Cotton, broilers, soybeans, cattle (59%)	
W.S.C.	16,546	5,795	10,752	19,660	7,905	11,647	1,977		(x)	
AR.....	3,185	1,112	2,083	3,974	1,696	2,278	344		12—Broilers, soybeans, rice, cattle (69%)	
LA.....	1,476	965	511	1,885	1,299	587	190		32—Soybeans, cotton, cattle, sugar (60%)	
OK.....	2,877	811	2,066	3,410	1,127	2,284	288		17—Cattle, wheat, greenhouse, broilers (79%)	
TX.....	8,998	2,907	6,092	10,281	3,783	6,498	1,155		2—Cattle, cotton, dairy products, greenhouse (73%)	
Mt.	11,066	4,325	6,742	12,246	4,779	7,469	1,066		(x)	
MT.....	1,355	608	747	1,386	570	816	387		33—Cattle, wheat, barley, hay (85%)	
ID.....	2,089	1,164	924	2,291	1,258	1,033	167		27—Cattle, potatoes, dairy products, wheat (68%)	
WY.....	655	127	528	730	156	575	36		37—Cattle, hay, sugar beets, sheep and lamb (86%)	
CO.....	3,207	885	2,323	3,682	1,037	2,645	261		34—Cattle, wheat, corn, dairy products (79%)	
NM.....	1,168	351	817	1,272	362	910	71		41—Cattle, dairy products, hay, greenhouse (77%)	
AZ.....	1,760	987	773	1,959	1,167	793	78		30—Cattle, cotton, lettuce, dairy products (72%)	
UT.....	600	134	466	687	150	537	38		38—Cattle, dairy products, hay, turkeys (74%)	
NV.....	232	69	164	229	79	150	6		47—Cattle, hay, dairy products, potatoes (87%)	
Pac.	21,150	14,990	6,161	22,579	15,968	6,613	643		(x)	
WA.....	2,862	1,880	981	3,267	2,146	1,141	208		18—Cattle, dairy products, apples, wheat (58%)	
OR.....	1,890	1,236	655	2,096	1,427	669	98		28—Cattle, greenhouse, dairy products, wheat (45%)	
CA.....	15,808	11,382	4,426	16,598	11,894	4,704	335		1—Dairy products, cattle, greenhouse, grapes (40%)	
AK.....	30	19	11	30	20	10	2		50—Greenhouse, dairy products, potatoes, hay (80%)	
HI.....	560	473	88	568	479	89	(2)		41—Sugar, pineapples, greenhouse, nuts (73%)	

X Not applicable. Z Less than \$500 thousand.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1988.*

No. 1130. COMMODITY CREDIT CORPORATION—SUMMARY: 1970 TO 1988

[In millions of dollars. As of end of fiscal year or for fiscal years ending in year shown; see text, section 9. The Commodity Credit Corporation is a wholly government-owned corporation. Its purpose is stabilizing, supporting, and protecting farm income and prices; assisting in maintenance of balanced adequate supplies of agricultural commodities; and facilitating orderly distribution of agricultural commodities. See also *Historical Statistics, Colonial Times to 1970*, series K 330-343]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
LOAN ACTIVITY ¹											
Loans made.....	2,388	852	4,228	5,849	11,454	13,710	5,131	10,187	17,391	16,566	13,302
Loans repaid.....	1,830	939	4,148	5,741	4,629	9,373	10,581	4,458	5,675	13,894	17,979
Loans cancelled by acquisition of collateral.....	1,073	100	115	71	363	860	1,032	1,638	5,583	6,144	2,110
Loans outstanding ²	2,952	335	5,119	5,193	11,633	15,084	8,571	12,631	16,688	15,174	8,264
Wheat.....	576	4	837	1,871	3,321	4,162	3,414	4,591	3,753	2,836	1,608
Corn.....	832	39	1,617	629	4,210	5,274	1,236	2,766	7,878	7,424	3,803
Cotton.....	170	143	35	76	714	960	67	378	1,076	450	569
Tobacco.....	845	119	815	764	867	1,738	2,084	2,539	2,336	2,071	1,616
COMMODITY INVENTORY OPERATIONS											
Acquisitions, value ³	1,518	835	2,769	2,507	2,968	8,634	8,741	4,294	9,912	17,617	12,167
Purchases.....	398	735	2,643	2,503	2,593	7,644	7,676	2,616	4,195	11,212	9,901
Collateral acquired from loans.....	1,120	100	116	4	375	990	1,065	1,678	5,717	6,405	2,266
Wheat.....	217	4	601	28	27	1,600	1,983	919	2,196	1,802	1,051
Corn.....	49	2	416	21	179	3,132	2,591	192	2,287	10,218	8,484
Cotton.....	304	(2)	1	(2)	(2)	175	1,056	53	559	1,273	138
Dairy products.....	253	480	1,262	1,991	2,282	2,716	1,983	1,820	2,036	956	1,125
Commodities owned, value ²	1,858	416	2,797	3,727	5,103	10,227	7,358	6,921	11,050	11,735	5,588
Wheat.....	405	2	705	679	679	1,533	1,510	1,951	3,491	3,272	1,208
Corn.....	293	(2)	596	555	709	3,392	1,045	757	1,757	4,172	2,197
Cotton.....	225	(2)	1	1	2	174	74	46	226	24	2
Sorghum.....	173	(2)	93	79	91	520	290	359	725	1,244	1,268
Dairy products.....	134	290	1,266	2,396	3,442	4,219	4,102	3,014	2,830	1,439	732

Z Less than \$500,000. ¹ Covers commodity loans and storage facility and equipment loans. The latter were not available after July 1982. ² Includes amounts for commodities and storage facilities, not shown separately. ³ For 1970, includes purchases for commodity export program.

No. 1131. COMMODITY CREDIT CORPORATION—NET OUTLAYS BY COMMODITY AND FUNCTION: 1970 TO 1989

[In millions of dollars. For fiscal year ending in year shown; see text, section 9. Excludes value of commodity certificates which may also be issued to farmers in lieu of cash under certain programs. Minus sign (-) indicates a net receipt (excess of repayments or other receipts over gross outlays of funds)]

COMMODITY AND FUNCTION	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 ¹
Total	3,839	2,752	4,036	11,652	18,851	7,315	17,683	25,841	22,408	12,461	13,843
Feed grains.....	1,440	1,286	-533	5,397	6,815	-758	5,211	12,211	13,967	9,053	3,042
Wheat.....	796	879	1,543	2,238	3,419	2,536	4,691	3,440	2,836	678	279
Cotton, upland.....	891	64	336	1,190	1,363	244	1,553	2,142	1,786	666	2,538
Dairy.....	87	1,011	1,894	2,182	2,528	1,502	2,085	2,337	1,166	1,295	662
Rice.....	39	-76	24	164	664	333	990	947	906	128	999
Wool.....	56	35	42	54	94	132	109	123	152	² 5	89
Honey.....	1	9	8	27	48	90	81	89	73	100	60
Peanuts.....	35	28	28	12	-6	1	12	32	8	7	5
Sugar.....	-	-405	-121	-5	49	10	194	214	-65	-246	-
Tobacco.....	115	-88	-51	103	890	346	455	253	-346	-453	-569
Soybeans.....	-161	118	87	169	288	-585	711	1,597	-476	-1,676	-32
Operating expense.....	57	157	159	294	328	362	346	457	535	614	583
Interest expenditure.....	312	518	220	-13	3,525	1,064	1,435	1,411	1,219	395	283
Export programs.....	45	-669	-940	65	398	743	134	102	276	200	116
Other.....	126	-113	1,340	-225	-1,542	1,295	-314	466	371	1,695	5,788
Price support loans ³	552	-66	174	7,015	8,438	-27	6,272	13,628	12,199	4,579	-153
Direct payments ⁴	2,135	418	1,030	1,491	3,600	2,117	7,827	6,746	5,862	4,245	6,182
Deficiency payments.....	1,529	79	(2)	1,184	2,780	612	6,302	6,166	4,833	3,971	5,879
Diversion payments.....	608	56	(2)	(2)	705	1,504	1,525	64	362	8	-
1988 crop disaster.....	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	3,613
Emergency livestock/forage assistance.....	-	23	329	16	-	-	-	-	-	-	31
Purchases ⁵	-336	1,681	1,602	2,031	2,540	1,470	1,331	1,670	-479	-1,131	-10
Producer storage payments.....	144	254	32	679	964	268	329	485	832	658	319
Processing, storage and transportation.....	215	259	323	355	665	639	657	1,013	1,659	1,113	654
Operating expense.....	57	157	159	294	328	362	346	457	535	614	583
Interest expenditure.....	312	518	220	-13	3,525	1,064	1,435	1,411	1,219	395	283
Export programs ⁶	146	-669	-940	65	398	743	134	102	276	200	116
Other.....	614	177	1,107	-281	-1,607	879	-648	329	305	1,757	1,364

- Represents zero. X Not applicable. Z Less than \$500,000. ¹ Estimated in the fiscal 1990 President's Budget. ² Fiscal year 1988 wool and mohair program outlays were \$130,635,000 but include a one-time advance appropriation of \$126,108,000, which was recorded as a wool program receipt by U.S. Department of Treasury. ³ Price support loans made less loans repaid. ⁴ Includes disaster payments; for 1970 includes support and acreage diversion payments; and beginning 1986 includes dairy termination program. ⁵ Purchases less sales proceeds. ⁶ Export programs include direct export credit sales and commodity export payments in 1970. Commodity export payments are included in individual commodity totals in 1970. Export programs beginning 1980 include the direct export credit sales program, the export guarantee program, and transfers to the general sales manager.

Source of tables 1130 and 1131: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual, and *Agricultural Outlook*, monthly.

Farm Price Indexes—Consumer Expenditures for Farm Foods

653

NO. 1132. INDEXES OF PRICES RECEIVED AND PAID BY FARMERS: 1980 TO 1988

[1977 = 100, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 344–353]

ITEM	1980	1985	1987	1988	ITEM	1980	1985	1987	1988
Prices received, all products	134	128	126	138	Prices paid, total ³	138	162	161	170
Crops ¹	125	120	106	126	Production ¹	138	151	147	157
Food grains.....	165	133	103	137	Feed.....	123	116	103	128
Feed grains and hay.....	132	122	85	120	Feeder livestock.....	177	154	179	192
Cotton.....	114	93	99	95	Seed.....	118	153	148	150
Tobacco.....	125	153	129	132	Fertilizer.....	134	135	118	130
Oil-bearing crops.....	102	84	79	108	Agricultural chemicals.....	102	128	124	126
Fruits.....	124	180	181	181	Fuels and energy.....	188	201	161	163
Commercial vegetables ²	113	129	144	142	Farm and motor supplies.....	134	146	145	148
Livestock and products.....	144	136	146	150	Interest payable per acre.....	174	228	190	186
Meat animals.....	156	142	163	168	Taxes payable per acre.....	115	136	139	142
Dairy products.....	135	131	129	126	Wage rates ⁴	127	154	167	172
Poultry and eggs.....	112	119	107	118	Parity ratio (1910–14 = 100) ⁵	65	52	52	54

¹ Includes other items not shown separately. ² Excludes potatoes. ³ Includes production items, interest, taxes, wage rates, and a family living component. The family living component is the Consumer Price Index for all urban consumers from the Bureau of Labor Statistics. See text, section 15, and table 762. ⁴ Straight average of seasonally adjusted indexes. ⁵ Ratio of prices received by farmers to prices paid.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Agricultural Prices: Annual Summary*.

NO. 1133. CIVILIAN CONSUMER EXPENDITURES FOR FARM FOODS—FARM VALUE AND MARKETING BILL: 1970 TO 1988

[In billions of dollars, except percent. Excludes imported and nonfarm foods, such as coffee and seafood, as well as food consumed by the military, or exported. See *Historical Statistics, Colonial Times to 1970*, series K 358–360 for data before revisions]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Consumer expenditures, total	110.6	167.0	264.4	287.7	298.9	315.0	332.0	345.4	359.6	375.5	394.9
Farm value, total.....	35.5	55.6	81.7	81.7	81.4	85.3	89.8	86.4	88.3	90.4	97.3
Marketing bill, total ¹	75.1	111.4	182.7	206.0	217.5	229.7	242.2	259.0	270.8	285.1	297.6
Percent of total consumer expenditures.....	67.9	66.7	69.1	71.6	72.8	72.9	73.0	75.0	75.3	75.9	75.4
At-home expenditures ²	78.2	116.2	180.1	194.0	196.7	204.6	213.1	220.8	226.0	230.2	239.8
Farm value.....	29.1	44.0	65.9	65.4	64.1	66.5	69.5	66.6	67.6	67.5	72.2
Marketing bill ¹	49.1	72.2	114.2	128.6	132.6	138.1	143.6	154.2	158.4	162.7	167.6
Percent of at-home expenditures.....	62.8	62.1	63.4	66.3	67.4	67.5	67.4	69.8	70.1	70.7	69.9
Away-from-home expenditures.....	32.4	50.8	84.3	93.7	102.2	110.4	118.9	124.6	133.6	145.3	155.1
Farm value.....	6.4	11.6	15.8	16.3	17.3	18.6	20.3	19.8	21.2	22.9	25.1
Marketing bill ¹	26.0	39.2	68.5	77.4	84.9	91.6	98.6	104.8	112.4	122.4	130.0
Percent of away-from-home expenditures.....	80.2	77.2	81.3	82.6	83.1	83.0	82.9	84.1	84.1	84.2	83.8
Marketing bill cost components:											
Labor cost ³	32.2	48.3	81.5	91.0	96.6	102.4	109.3	115.6	122.9	130.0	136.5
Packaging materials.....	8.2	13.3	21.0	22.6	23.7	24.7	26.2	26.9	27.7	29.9	32.3
Rail and truck transport ⁴	5.2	8.4	13.0	14.3	14.7	15.4	15.9	16.5	16.8	17.2	17.8
Corporate profits before taxes.....	3.6	7.1	9.9	9.7	9.3	9.6	9.6	10.5	9.9	10.4	11.4
Fuels and electricity.....	2.2	4.6	9.0	10.0	11.0	11.7	12.5	13.1	13.2	13.6	14.2
Other ⁵	23.7	29.7	48.3	58.4	62.2	65.9	68.7	76.4	80.3	84.0	85.4
Processing.....	29.7	40.9	66.3	73.6	75.6	77.8	80.8	88.4	91.0	93.9	97.4
Wholesaling.....	8.7	13.5	20.4	23.0	25.9	27.1	28.6	29.8	30.5	31.8	33.3
Transportation.....	5.2	8.4	13.0	14.4	14.9	15.4	16.0	16.6	16.8	17.6	18.2
Retailing and food service.....	31.5	48.6	83.0	95.0	101.1	109.4	116.8	124.2	132.5	141.8	148.7
SELECTED FOOD COMMODITY GROUPS											
Meat products:											
Total expenditures.....	33.7	48.0	83.3	86.6	91.9	97.9	101.7	103.2	106.3	110.0	114.2
Farm value.....	14.4	20.6	30.8	31.1	31.5	31.4	32.4	30.5	30.9	32.7	33.4
Percent of total.....	42.7	42.9	37.0	35.9	34.3	32.1	31.9	29.6	29.1	29.7	29.2
Marketing bill ¹	19.4	27.4	52.5	55.5	60.4	66.5	69.3	72.7	75.4	77.3	80.8
Poultry and eggs:											
Total expenditures.....	9.1	12.7	18.3	19.9	20.3	21.7	24.2	26.0	27.6	29.4	31.6
Farm value.....	4.0	6.3	8.4	8.8	8.5	9.3	11.0	10.2	11.5	10.3	12.0
Percent of total.....	44.0	49.6	45.9	44.2	41.9	42.9	45.5	39.2	41.7	35.0	38.0
Marketing bill ¹	5.1	6.4	9.9	11.1	11.8	12.4	13.2	15.8	16.1	19.1	19.6
Dairy products:											
Total expenditures.....	16.7	23.3	37.8	41.4	42.0	45.0	47.4	49.4	51.4	54.0	56.7
Farm value.....	6.9	10.0	16.0	17.0	16.7	18.0	18.1	17.7	17.8	18.2	17.9
Percent of total.....	41.3	42.9	42.3	41.1	39.8	40.0	38.2	35.8	34.6	33.7	31.6
Marketing bill ¹	9.8	13.3	21.8	24.4	25.3	27.0	29.3	31.7	33.6	35.8	38.8
Fruits and vegetables:											
Total expenditures.....	22.6	35.6	55.5	62.8	66.7	70.0	74.7	78.5	81.6	84.7	88.7
Farm value.....	5.1	8.4	11.7	11.8	11.5	12.9	13.5	13.3	14.6	14.3	15.6
Percent of total.....	22.6	23.6	21.1	18.8	17.2	18.4	18.1	16.9	17.9	16.9	17.6
Marketing bill ¹	17.5	27.2	43.8	51.0	55.2	57.1	61.2	65.2	67.0	70.4	73.1
Bakery, grain mill products:											
Total expenditures.....	13.6	24.1	35.2	37.9	39.6	40.6	43.3	45.5	48.3	49.9	53.1
Farm value.....	2.0	4.1	5.1	4.9	4.8	4.9	5.1	4.7	4.0	3.8	5.1
Percent of total.....	14.7	17.0	14.5	12.9	12.1	12.1	11.8	10.3	8.3	7.6	9.6
Marketing bill ¹	11.6	20.0	30.1	33.0	34.8	35.7	38.2	40.8	44.3	46.1	48.0

¹ The difference between civilian expenditures for domestic farm-originated food products and the farm value or payment farmers received for the equivalent farm products. ² Food primarily purchased from retail food stores for use at home. ³ Covers employee wages and salaries, and their health and welfare benefits. Also includes imputed earnings of proprietors, partners, and family workers not receiving stated remuneration. ⁴ Excludes local hauling. ⁵ Represents advertising, rents, depreciation, interest on borrowed capital, taxes other than income, and other costs.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review, 1988*, AER No. 615, July 1989; *National Food Review*, periodic; and *Agricultural Statistics*, annual.

NO. 1134. FARMER MARKETING AND FARM SUPPLY COOPERATIVES—SUMMARY: 1970 TO 1987

[1970 and 1975, for fiscal years of cooperatives ending between July 1 of preceding year and June 30 of year shown. Beginning 1979, reports of cooperatives are for the calendar year. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Memberships and businesses are estimated. See also *Historical Statistics, Colonial Times to 1970*, series K 195-203]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Cooperatives listed	7,790	7,845	6,445	6,293	6,211	6,125	5,989	5,782	5,625	5,369	5,109
Marketing ¹	5,015	4,916	3,938	3,924	3,855	3,826	3,781	3,646	3,589	3,398	3,168
Farm supply.....	2,775	2,729	2,507	2,369	2,356	2,299	2,208	2,136	2,036	1,971	1,941
Memberships² (1,000)	6,355	6,123	5,627	5,379	5,335	5,136	4,955	4,842	4,781	4,600	4,440
Marketing ¹ (1,000).....	3,133	3,151	2,567	2,574	2,479	2,469	2,402	2,445	2,383	2,290	2,158
Farm supply (1,000).....	3,222	2,972	3,060	2,804	2,856	2,666	2,553	2,397	2,398	2,310	2,282
Business³ (mil. dol.)	19,080	41,342	56,268	66,254	71,534	69,150	66,755	73,047	65,601	58,395	59,166
Marketing ¹ (mil. dol.).....	15,207	32,682	42,747	50,120	54,475	52,788	50,812	56,078	48,961	43,300	45,170
Farm supply (mil. dol.).....	3,873	8,660	13,521	16,134	17,059	16,362	15,943	16,969	16,641	15,095	13,997

¹ Includes cooperatives whose major activity is providing services related to marketing and farm-supply activities. ² Excludes nonvoting patrons. ³ Value of commodities sold or purchased for patrons. Business dollar volume for marketing includes service receipts for charges related to marketing and purchasing. Represents net volume after eliminating intercooperative business.

Source: U.S. Dept. of Agriculture, Agricultural Cooperative Service, *Farmer Cooperative Statistics*, annual.

NO. 1135. SELECTED INDEXES OF FARM INPUTS: 1970 TO 1987

[1977=100. Inputs based on physical quantities of resources used in production. See *Historical Statistics, Colonial Times to 1970*, series K 486-495 for data before revisions]

INPUT	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total	96	97	105	103	102	99	97	95	92	87	86
Farm labor.....	112	106	99	96	96	93	97	92	85	80	78
Farm real estate ¹	105	97	103	103	104	102	101	97	95	93	92
Mechanical power and machinery.....	85	96	104	101	98	92	88	84	80	75	72
Agricultural chemicals ²	75	83	123	123	129	118	105	121	123	110	111
Feed, seed, and livestock purchases ³	96	93	115	114	108	108	110	106	106	103	108
Taxes and interest.....	102	100	103	100	99	92	97	88	91	93	92
Miscellaneous.....	89	82	113	96	108	116	101	110	116	109	119

¹ Includes service buildings, improvements. ² Includes fertilizer, lime, and pesticides. ³ Includes nonfarm portion.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in U.S. Council of Economic Advisers, *Economic Report of the President*, annual.

NO. 1136. FARM MACHINERY AND EQUIPMENT: 1970 TO 1988

[See also *Historical Statistics, Colonial Times to 1970*, series K 184-191]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Value of farm implements and machinery ¹	Bil. dol.	34.4	62.1	93.2	99.3	107.8	107.9	106.2	102.7	92.4	84.4	78.6	79.3
Farmers' expenditures:													
Motor vehicles ²	Mil. dol.	2,030	3,833	6,284	5,813	5,652	4,436	4,724	4,583	3,699	3,227	3,703	4,292
Tractors.....	Mil. dol.	1,123	2,460	3,746	3,683	3,740	2,597	2,606	2,539	1,937	1,513	1,847	2,218
Machinery, equipment.....	Mil. dol.	2,888	4,820	8,002	6,956	6,481	5,068	4,735	4,682	3,654	3,094	3,918	3,807
Repair and maintenance.....	Mil. dol.	1,910	3,417	5,165	5,205	5,278	4,635	4,793	4,908	4,834	4,825	5,040	5,274
Tractors, machinery and equipment.....	Mil. dol.	1,126	2,360	3,743	3,746	3,771	3,585	3,707	3,796	3,739	3,732	3,898	4,079
Autos and trucks ³	Mil. dol.	784	1,057	1,422	1,459	1,507	1,050	1,086	1,112	1,095	1,093	1,142	1,195
Retail sales: ⁴													
Tractors, total ⁵	1,000	135.5	161.1	139.0	119.3	103.8	77.2	71.3	66.7	58.5	47.1	48.3	52.0
2-wheel drive.....	1,000	135.5	150.5	127.5	108.4	94.1	70.4	66.2	62.7	55.5	45.1	46.6	49.3
4-wheel drive.....	1,000	(NA)	10.6	11.5	10.9	9.7	6.8	5.1	4.0	3.0	2.0	1.7	2.7
Combines.....	1,000	26.7	33.1	32.3	25.7	26.8	16.2	12.8	11.4	8.4	7.7	7.2	6.0
Field forage harvesters.....	1,000	15.0	13.1	12.5	9.5	7.6	5.1	4.1	3.5	2.5	2.2	2.3	2.4

NA Not available. ¹ Farm inventory valuations as of December 31. Includes family automobiles. ² For farm business use. ³ Includes insurance, registration fees, and licensing fees through 1975. ⁴ Source: Farm and Industrial Equipment Institute, Chicago, IL, unpublished data. ⁵ Beginning 1979, covers tractors over 40 hp. only.

Source: Except as noted, U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual. Also in *Agricultural Statistics*, annual.

NO. 1137. CORN, WHEAT, AND SOYBEAN ACREAGE TREATED WITH AGRICHEMICALS, BY TYPE: 1971 TO 1988

YEAR	CORN			WHEAT			SOYBEANS		
	Fertilizer	Herbi- cides	Insecti- cides	Fertilizer	Herbi- cides	Insecti- cides	Fertilizer	Herbi- cides	Insecti- cides
NUMBER OF ACRES TREATED (1,000)									
1971	69,728	58,601	25,963	31,217	22,067	3,768	8,695	29,564	3,478
1980	80,681	78,160	36,138	54,128	(NA)	(NA)	25,874	64,336	7,692
1984	78,127	76,516	33,828	60,202	(NA)	(NA)	23,037	63,690	5,420
1985	81,779	80,110	37,552	58,193	(NA)	(NA)	20,202	59,974	4,419
1986	73,607	73,607	31,436	56,934	33,872	5,045	19,927	57,970	2,415
1987	63,076	63,076	26,939	52,667	40,817	4,608	17,386	55,057	1,739
1988	65,590	64,914	23,667	54,389	34,730	2,621	18,838	56,515	4,710
PERCENT OF ACRES TREATED									
1971	94	79	35	58	41	7	20	68	8
1980	96	93	43	67	(NA)	(NA)	37	92	11
1984	97	95	42	76	(NA)	(NA)	34	94	8
1985	98	96	45	77	(NA)	(NA)	32	95	7
1986	96	96	41	79	47	7	33	96	4
1987	96	96	41	80	62	7	30	95	3
1988	97	96	35	83	53	4	32	96	8

NA Not available.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Resources: Situation and Outlook Report*, February 1989 and previous issues.

NO. 1138. AGRICULTURAL CHEMICALS USED ON FARMS: 1982 AND 1987

TYPE OF CHEMICAL	FARMS REPORTING (1,000)		ACRES TREATED (1,000)		COST (mil. dol.)	
	1982	1987	1982	1987	1982	1987
	Total	1,596	1,568	(x)	(x)	11,972	11,375
Commercial fertilizer	1,444	1,379	224,635	211,073	7,689	6,685
Lime	270	264	11,607	12,586	(NA)	(NA)
Chemicals for defoliation or growth control of crops	74	75	9,322	9,497		
Sprays, dusts, etc. for—						
Insects on hay and other crops	530	554	72,848	68,823	4,282	4,690
Nematodes in crops	77	66	7,533	5,931		
Diseases in crops and orchards	128	129	11,685	10,467		
Weeds, grass, or brush in crops and pasture	872	914	176,871	171,288		

NA Not available. X Not applicable.

¹ If more than 1 subentry was applicable, the farm was tabulated in each.

² Includes cost of custom applications.

Source: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

NO. 1139. HIRED FARMWORKERS—WORKERS AND EARNINGS: 1975 TO 1987

[Represents persons 14 years old and over in the civilian noninstitutional population who did hired farmwork at any time during the year. Based on Current Population Survey; see text, section 1 and Appendix III. For composition of regions, see fig. 1, inside front cover]

CHARACTERISTIC	WORKERS (1,000)									AVERAGE ANNUAL EARNINGS RECEIVED FROM HIRED FARMWORK			
	1975	1981	1985	Total	1987					1975	1981	1985	1987
					Duration of farmwork								
					Under 25 days	25-74 days	75-149 days	150-249 days	250 days and over				
All workers	2,638	2,492	2,522	2,463	856	503	313	332	458	\$1,488	\$2,659	\$3,247	\$3,368
14-17 years old	835	605	552	531	270	144	56	31	29	421	753	743	783
18-24 years old	733	760	739	621	201	125	103	62	129	1,517	2,488	2,666	2,775
25-34 years old	393	498	601	563	167	102	55	105	134	2,209	3,684	4,268	4,849
35-44 years old	219	236	260	316	99	69	40	48	61	2,369	4,631	4,736	4,844
45-54 years old	193	180	185	216	49	33	30	47	57	(NA)	3,980	6,269	5,507
55-64 years old	144	104	110	148	50	13	22	31	33	(NA)	4,077	5,280	4,142
65 years old and over	120	108	75	67	20	15	8	9	15	937	1,938	3,626	3,010
Male	2,036	1,918	1,960	1,961	648	389	248	274	402	1,737	3,073	3,642	3,708
Female	602	574	542	501	208	114	65	58	56	644	1,276	1,801	2,040
White ¹	1,907	1,824	1,922	1,917	719	391	236	210	361	1,379	2,359	3,018	3,241
Black and other races ¹	445	340	274	208	69	44	33	36	24	1,524	2,668	3,008	2,684
Hispanic	285	328	326	338	68	68	44	86	72	2,154	4,319	4,795	4,511
Northeast	227	204	231	185	49	39	28	22	47	1,287	2,977	3,417	4,416
Midwest	674	688	851	926	338	195	108	103	181	1,212	2,019	2,717	2,818
South	1,074	1,004	860	845	325	177	102	117	125	1,289	2,217	3,088	2,981
West	664	595	580	506	144	92	75	90	105	2,157	4,037	4,194	4,638

NA Not available. ¹ Excludes persons of Hispanic origin.

Source: U.S. Dept. of Agriculture, Economic Research Service, *The Agricultural Work Force*, periodic.

No. 1140. FARM OUTPUT INDEXES: 1970 TO 1988

[1977=100. See also *Historical Statistics, Colonial Times to 1970*, series K 414-429]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Farm output ¹	84	95	111	104	118	116	96	112	118	111	110	99
Per unit of total input.....	87	99	105	101	116	117	99	119	128	127	127	(NA)
Gross production:												
Livestock and products ²	99	95	104	108	109	107	109	107	110	110	113	116
Meat animals.....	102	97	103	107	106	101	104	101	102	100	102	105
Dairy products.....	95	94	101	105	108	110	114	110	117	116	116	118
Poultry and eggs.....	93	92	114	115	119	119	120	123	128	133	144	149
Crops ³	77	93	113	101	117	117	88	111	118	109	106	92
Feed grains.....	71	91	116	97	121	122	67	116	134	123	105	73
Hay and forage.....	92	100	108	98	108	109	100	107	106	106	103	90
Food grains.....	69	108	108	121	144	138	117	129	121	107	106	98
Vegetables.....	96	97	107	104	111	116	107	117	122	117	122	(NA)
Fruits and nuts.....	81	98	105	119	111	113	110	114	119	112	121	(NA)
Sugar crops.....	95	114	94	97	107	96	93	95	97	106	112	107
Cotton.....	72	58	102	79	109	85	55	91	94	69	104	108
Tobacco.....	100	114	80	93	108	104	75	90	81	63	64	71
Oil crops.....	66	86	129	99	114	121	91	106	117	110	106	88

NA Not available. ¹ Annual production available for eventual human use. ² Includes livestock products not shown separately and excludes horses and mules. ³ Includes crops not shown separately.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics, 1988*. Also in *Agricultural Statistics*, annual.

No. 1141. SELECTED FARM PRODUCTS—PRODUCTION AND EXPORTS: 1970 TO 1988

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Corn for grain: Production.....	Mil. bu.....	4,152	6,639	6,119	8,235	4,175	7,674	8,877	8,250	7,072	4,921
Exports.....	Mil. bu.....	517	2,355	2,010	1,834	1,992	1,865	1,241	1,504	1,735	2,100
Percent of production.....	Percent.....	12.5	35.5	24.8	22.3	45.5	24.3	14.0	18.2	24.5	42.7
Soybeans, for beans: Production.....	Mil. bu.....	1,127	1,798	1,989	2,190	1,636	1,861	2,099	1,940	1,929	1,539
Exports ¹	Mil. bu.....	434	724	929	905	743	598	740	757	802	550
Percent of production.....	Percent.....	38.5	40.3	46.7	41.3	45.4	32.1	35.7	39.0	41.7	35.7
Wheat: Production.....	Mil. bu.....	1,352	2,381	2,785	2,765	2,420	2,595	2,425	2,092	2,107	1,811
Exports ¹	Mil. bu.....	741	1,514	1,771	1,509	1,429	1,424	915	1,004	1,592	1,440
Percent of production.....	Percent.....	54.8	63.6	63.6	54.6	59.0	54.9	37.7	48.0	75.6	79.5
Cotton: Production.....	Mil. bales ²	10.2	11.1	15.6	12.0	7.8	13.0	13.4	9.7	14.8	15.4
Exports.....	Mil. bales ²	3.9	5.9	6.6	5.2	6.8	6.2	2.0	6.7	6.6	6.1
Percent of production.....	Percent.....	38.2	53.2	42.3	43.3	87.2	47.7	14.9	69.1	44.6	39.6
Tobacco: ³ Production.....	Mil. lb.....	1,906	1,796	2,064	1,994	1,429	1,728	1,514	1,164	1,191	1,348
Exports ¹	Mil. lb.....	639	649	697	628	596	666	820	591	572	557
Percent of production.....	Percent.....	33.5	36.3	33.8	31.5	41.7	38.5	41.0	50.8	48.0	41.3

¹ Represents marketing year for each product. ² 480 lb. net weight bales. ³ Farm sales weight.

Source: U.S. Dept. of Agriculture, Economic Research Service. In *Agricultural Statistics*, annual.

No. 1142. SELECTED FARM PRODUCTS—U.S. AND WORLD PRODUCTION AND EXPORTS: 1985 TO 1987

[In metric tons, except as indicated. Metric ton=1.102 short tons or .984 long tons]

ITEM	Unit	AMOUNT						U.S. AS PERCENT OF WORLD		
		U.S.				World		1985	1986	1987
		1985	1986	1987	1985	1986	1987			
PRODUCTION ¹										
Wheat.....	Million.....	66	57	57	500	531	502	13.2	10.7	11.4
Corn for grain.....	Million.....	226	210	180	480	478	447	47.0	43.9	40.1
Soybeans.....	Million.....	57.1	52.8	52.3	97.0	98.0	103.3	58.9	53.9	50.6
Rice, rough.....	Million.....	6.1	6.0	5.9	469	469	461	1.3	1.3	1.3
Tobacco, unmanufactured ²	1,000.....	617	474	485	6,229	5,337	5,552	9.9	8.9	9.8
Vegetable oils.....	Million.....	6.4	6.7	7.1	47.8	49.0	51.3	13.1	13.7	13.8
Cotton.....	Million bales ³	13.4	9.7	14.8	79.6	70.5	80.8	16.9	13.8	18.3
EXPORTS ⁴										
Wheat ⁵	Million.....	25.0	28.4	43.4	85.0	90.7	104.7	29.4	31.3	41.5
Corn.....	Million.....	31.5	39.4	44.5	55.5	56.4	56.9	57.8	69.9	78.2
Soybeans.....	Million.....	20.2	20.6	21.8	26.1	28.5	30.1	77.5	72.2	72.5
Rice, milled basis.....	Million.....	1.9	2.4	2.4	11.5	12.6	13.0	16.5	18.0	18.5
Tobacco, unmanufactured ²	1,000.....	249	217	195	1,417	1,358	1,372	17.6	16.0	14.2
Vegetable oils.....	Million.....	1.0	8	1.4	15.6	16.1	16.8	6.6	5.0	8.3
Cotton.....	Million bales ³	2.0	6.7	6.6	20.2	25.9	23.2	9.9	25.9	28.4

¹ Production years vary by commodity. In most cases, includes harvests from July 1 of the year shown through June 30 of the following year. ² Farm sales weight basis. ³ Bales of 480 lb. net weight. ⁴ Trade years may vary by commodity. ⁵ Includes wheat flour on a grain equivalent. ⁶ Dried weight basis.

Source: U.S. Department of Agriculture, Foreign Agricultural Service, *Foreign Agricultural Commodity Circular Series*, periodic.

NO. 1143. AGRICULTURAL EXPORTS AND IMPORTS—VALUE: 1970 TO 1988

[In billions of dollars, except percent. Includes Puerto Rico. Excludes forest products and distilled liquors; includes crude rubber and similar gums (now mainly plantation products). Includes shipments under foreign aid programs. See also *Historical Statistics, Colonial Times to 1970*, series K 251-255]

YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports	YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports
1970-1974, avg	5.5	12.8	21	7.3	12	1978	14.6	29.4	21	14.8	9
1975-1979, avg	13.5	26.5	20	13.0	11	1979	18.0	34.7	19	16.7	8
1980-1984, avg	21.9	39.0	18	17.1	6	1980	23.9	41.2	18	17.4	7
1970	1.5	7.3	17	5.8	15	1981	26.6	43.3	18	16.8	6
1971	1.9	7.7	18	5.8	13	1982	21.2	36.6	17	15.4	6
1972	2.9	8.4	19	6.5	12	1983	19.5	36.1	18	16.6	7
1973	9.3	17.7	25	8.4	12	1984	18.5	37.8	17	19.3	6
1974	11.7	21.9	23	10.2	10	1985	9.1	29.0	13	20.0	6
1975	12.6	21.9	21	9.3	10	1986	4.8	26.2	13	21.5	6
1976	12.0	23.0	20	11.0	9	1987	8.3	28.7	12	20.4	5
1977	10.2	23.6	20	13.4	9	1988	16.1	37.1	12	21.0	5

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual, and *Foreign Agricultural Trade of the United States*, Jan.-Feb. issues. Also in *Agricultural Statistics*, annual.

NO. 1144. AGRICULTURAL EXPORTS—VALUE, BY PRINCIPAL COMMODITIES AND SELECTED COUNTRIES OF DESTINATION: 1970 TO 1988

[See headnote, table 1143. Data by country of destination not adjusted for transshipments prior to 1983]

COMMODITY AND COUNTRY	VALUE (mil. dol.)								PERCENT		
	1970	1980	1983	1984	1985	1986	1987	1988	1970	1980	1988
Total agricultural exports¹	7,255	41,233	36,099	37,804	29,041	26,222	28,709	37,093	100.0	100.0	100.0
Grains and feeds ²	2,720	19,117	16,250	17,163	11,882	8,656	9,423	14,003	37.5	46.4	37.8
Feed grains and products	1,093	9,831	7,351	8,204	6,112	3,176	3,917	5,992	15.1	23.8	16.2
Corn	818	8,492	6,367	6,999	5,206	2,605	3,209	5,063	11.3	20.6	13.7
Wheat and products	1,136	6,660	6,560	6,740	3,889	3,290	3,280	5,124	15.7	16.2	13.8
Rice	313	1,289	926	845	665	625	576	805	4.3	3.1	2.2
Oilseeds and products ²	1,931	9,383	8,716	8,369	5,794	6,467	6,446	7,895	26.6	22.9	20.8
Soybeans	1,228	5,880	5,913	5,418	3,732	4,326	4,378	4,863	16.9	14.3	13.1
Soybean oil cake and meal	344	1,665	1,527	997	870	1,229	1,211	1,580	4.7	4.0	4.3
Vegetable oils and waxes	295	1,216	888	1,270	870	672	626	982	4.1	2.9	2.7
Animals and animal products ²	865	3,768	3,787	4,228	4,150	4,547	5,156	6,422	11.9	9.1	17.3
Hides and skins, incl. furskins	187	1,046	1,010	1,383	1,295	1,522	1,731	1,830	2.6	2.5	4.9
Cattle hides	130	623	742	1,086	1,007	1,219	1,328	1,490	1.8	1.5	4.0
Meats and meat products	132	890	916	928	905	1,130	1,366	1,974	1.8	2.2	5.3
Beef and veal	25	249	392	470	467	634	771	1,109	3	6	3.0
Fats, oils, and greases	246	769	600	698	619	413	431	577	3.4	1.9	1.6
Poultry and poultry products	372	803	428	415	384	504	602	889	1.1	1.5	1.9
Cotton, excluding lint	372	2,864	1,817	2,441	1,633	812	1,631	1,975	5.1	6.9	5.3
Tobacco, unmanufactured	517	1,334	1,462	1,511	1,521	1,223	1,090	1,251	7.1	3.2	3.4
Fruits and preparations	334	1,335	1,349	1,243	1,186	1,306	1,484	1,762	4.6	3.2	4.8
Fresh fruits	164	739	829	758	743	851	939	1,093	2.3	1.8	3.0
Vegetables and preparations	219	1,188	980	1,002	930	1,085	1,158	1,363	3.0	2.9	3.7
Nuts and preparations	69	757	496	604	683	753	804	884	1.0	1.8	2.4
Other	232	1,477	1,242	1,243	1,262	1,373	1,517	1,738	3.2	3.6	4.7
Asia ¹	2,717	14,886	14,056	14,907	11,191	10,617	12,535	16,855	37.5	36.1	45.4
Japan	1,214	6,111	6,251	6,782	5,409	5,141	5,723	7,641	16.7	14.8	20.6
South Korea	224	1,797	1,840	1,650	1,413	1,306	1,833	2,274	3.1	4.4	6.1
China: Taiwan	134	1,095	1,308	1,458	1,231	1,171	1,285	1,661	1.9	2.7	4.5
Mainland	-	2,210	544	613	157	58	362	759	-	5.4	2.1
Iraq	2	255	342	535	326	360	538	808	-	.8	2.2
Western Europe ^{1,3}	2,534	11,744	9,999	8,837	6,937	7,056	7,309	7,854	34.9	28.5	21.2
European Economic Community ⁴	2,316	11,033	9,299	8,257	6,477	6,627	6,880	7,315	29.4	22.4	19.7
Netherlands	526	3,412	2,576	2,323	1,869	2,073	1,985	2,051	7.3	8.3	5.6
West Germany	529	1,831	1,529	1,065	944	1,048	1,285	1,205	7.3	4.4	3.3
United Kingdom	411	1,829	828	604	688	658	687	835	5.7	2.3	2.3
Italy	210	1,094	731	806	669	727	697	692	2.9	2.7	1.9
France	164	748	485	507	403	439	524	536	2.3	1.8	1.5
Spain ⁵	143	1,129	1,265	1,029	837	703	666	893	2.0	2.7	2.4
Latin America ¹	688	6,150	5,213	5,263	4,224	3,681	3,678	4,934	9.5	14.9	13.3
Mexico	155	2,468	1,942	1,993	1,439	1,080	1,202	2,234	2.1	6.0	6.0
Venezuela	98	701	665	783	638	456	494	683	1.4	1.7	1.9
Canada	826	1,852	1,844	1,963	1,622	1,542	1,808	2,019	11.4	4.5	5.5
Soviet Union	16	1,047	1,473	2,878	1,923	658	938	2,246	2	2.5	6.1
Eastern Europe	169	2,071	839	758	479	434	436	540	2.3	5.0	1.5
Africa ¹	254	2,179	2,458	2,972	2,488	2,008	1,766	2,390	3.5	5.3	6.4
Algeria	19	176	211	199	227	287	310	596	3	4	16
Egypt	26	770	970	909	891	811	679	841	4	1.9	2.3

- Represents or rounds to zero. ¹ Includes areas not shown separately. ² Includes commodities not shown separately.

³ Includes Canary Islands and Madeira Islands for all years. ⁴ Includes Belgium, Luxembourg, Denmark, Greece, Ireland, and Portugal, not shown separately. As of Jan. 1, 1973, United Kingdom, Denmark, and Ireland became members of EEC. As of Jan. 1, 1981, Greece became a member of EEC. As of Jan. 1, 1986, Spain and Portugal became members of EEC. For consistency, data for all years are shown on same basis. ⁵ As of Jan. 1, 1984, includes Canary Islands and Spanish Africa, not elsewhere classified.

Source: U.S. Dept. of Agriculture, Economic Research Service, *U.S. Foreign Agricultural Trade Statistical Report*, annual. Also in *Agricultural Statistics*, annual.

**NO. 1145. U.S. SALES AND DONATIONS UNDER FOOD FOR PEACE (PUBLIC LAW 480) PROGRAMS—
TOTAL, 1954 TO 1988, AND BY SELECTED COUNTRY, 1988**

[In millions of dollars. For fiscal years ending in year shown; see text, section 9]

YEAR	Total	Title I sales (loans) ¹	TITLE II DONATIONS			COUNTRY	1988		
			Total	Voluntary relief agencies	Emergency relief and other ²		Total	Sales	Donations
1954-1988, total.....	43,017	26,056	16,961	10,661	6,300	Total ³.....	1,192	689	503
1970.....	1,142	711	432	181	250	Egypt.....	155.6	153.0	2.6
1980.....	1,436	843	593	340	253	India.....	109.1	-	109.1
1981.....	1,542	774	768	471	297	Pakistan.....	76.0	76.0	-
1982.....	1,314	630	624	458	168	Bangladesh.....	60.3	45.0	15.3
1983.....	1,373	773	800	422	178	Philippines.....	57.9	30.0	27.9
1984.....	1,524	784	740	523	217	Morocco.....	52.8	40.0	12.8
1985.....	2,052	984	1,068	749	319	Ethiopia.....	50.6	-	50.6
1986.....	1,763	1,004	759	587	172	El Salvador.....	48.4	35.5	12.9
1987.....	1,442	889	553	343	210	Sudan.....	46.1	40.0	6.1
1988.....	1,192	689	503	288	215	Jamaica.....	35.7	34.4	1.3
						Peru.....	35.0	20.0	15.0
						Bolivia.....	34.8	20.0	14.8

- Represents zero. ¹ Includes Title III, Food for Development program. ² Includes economic development and world food programs. ³ Includes other countries not shown separately.

Source: U.S. Agency for International Development, *U.S. Overseas Loans and Grants and Assistance From International Organizations*, annual.

NO. 1146. AGRICULTURAL EXPORTS—ESTIMATED VALUE, BY LEADING STATES: 1988

[In millions of dollars. For year ending September 30]

COMMODITY	Total value	FIVE LEADING STATES									
		1		2		3		4		5	
		State	Value	State	Value	State	Value	State	Value	State	Value
All commodities¹.....	35,334.3	CA	3,389.5	IA	2,859.1	IL	2,617.7	KS	2,329.8	TX	2,248.4
Soybeans and products.....	6,815.5	IA	1,247.7	IL	1,172.7	MN	658.4	IN	617.2	MO	561.2
Feed grains and products.....	6,228.5	IA	1,069.5	IL	993.4	NE	760.6	MN	547.0	IN	517.0
Wheat and products.....	4,673.8	KS	906.3	ND	539.3	OK	349.3	MT	342.0	WA	322.3
Live animals and meat.....	2,248.6	KS	293.6	TX	286.1	NE	279.1	KY	217.0	IA	185.0
Cotton and lintars.....	2,150.1	TX	673.1	CA	430.3	WA	255.6	AZ	152.6	LA	144.6
Hides and skins.....	1,837.5	KS	305.5	TX	285.4	NE	278.5	IA	107.8	CO	102.9
Fruits and preparations.....	1,714.4	CA	889.2	FL	377.5	WA	150.2	OR	52.7	MI	48.6
Tobacco, unmanufactured.....	1,296.0	NC	589.4	KY	241.8	SC	120.2	VA	94.5	GA	92.4
Vegetables and preparations.....	1,282.4	CA	570.4	WA	126.2	WI	73.6	MI	63.6	ID	60.3
Feeds and foddere.....	872.9	IA	89.0	MN	76.2	NE	73.6	IL	72.5	FL	64.9

¹ Includes other commodities not shown separately.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, Mar./Apr. 1989.

NO. 1147. AGRICULTURAL IMPORTS—VALUE BY SELECTED COMMODITY, 1970 TO 1988, AND BY LEADING COUNTRIES OF ORIGIN, 1988

[In millions of dollars]

COMMODITY	1970	1980	1983	1984	1985	1986	1987	1988	Leading countries of origin, 1988
Total.....	5,770	17,366	16,627	19,334	19,968	21,453	20,402	20,951	Canada, Brazil, Mexico
Competitive products.....	3,609	10,374	11,100	12,619	13,067	13,436	13,781	14,688	Canada, Mexico, Australia
Beef and veal.....	680	1,780	1,363	1,228	1,276	1,289	1,562	1,679	Australia, New Zealand, Argentina
Pork.....	272	486	611	765	861	1,001	1,096	933	Canada, Denmark, Poland
Dairy products.....	126	488	701	773	765	827	831	875	New Zealand, Ireland, Denmark
Fruits and preparations.....	146	564	1,013	1,475	1,738	1,598	1,718	1,866	Brazil, Chile, Mexico
Vegetables and preparations.....	296	864	1,165	1,331	1,385	1,602	1,535	1,615	Mexico, Spain, Canada
Wine.....	145	692	844	945	998	1,017	966	939	France, Italy, Spain
Malt beverages.....	32	367	515	577	633	791	882	918	Netherlands, Mexico, Canada
Grains and feeds.....	99	371	457	566	623	693	748	909	Canada, Italy, Denmark
Sugar and related products.....	798	2,205	1,304	1,442	1,190	991	630	690	Dominican Republic, Canada, Brazil
Noncompetitive products.....	2,161	6,992	5,527	6,716	6,902	8,017	6,621	6,263	Brazil, Indonesia, Colombia
Coffee and products.....	1,213	4,186	2,771	3,271	3,322	4,620	2,908	2,470	Brazil, Colombia, Mexico
Rubber, crude natural.....	236	817	655	824	854	622	760	1,023	Indonesia, Malaysia, Thailand
Cocoa and products.....	279	920	841	1,134	1,351	1,129	1,194	1,003	Brazil, Ivory Coast, Malaysia
Bananas and plantains.....	194	430	600	665	763	763	819	832	Honduras, Ecuador, Costa Rica

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, annual.

NO. 1148. CROPLAND USED FOR CROPS AND ACREAGES OF CROPS HARVESTED: 1970 TO 1988

[See also *Historical Statistics, Colonial Times to 1970*, series K 496-501]

YEAR	CROPLAND USED FOR CROPS					Index of crop production per acre (1977 = 100)	ACREAGES OF CROPS HARVESTED ²				
	Number (mil. acres)				Total (mil. acres)		Used to produce goods for—				
	Total	Cropland harvested ¹	Crop failure	Cultivated summer fallow			Index (1977 = 100)	Domestic use		Exports	
						Amount (mil. acres)	Per capita (acres) ³	Amount (mil. acres)	Per cent of total		
1970.....	332	289	5	38	88	293	221	1.08	72	24.6	
1980.....	382	342	10	30	101	100	352	215	.94	137	38.9
1983.....	333	294	5	34	88	100	306	182	.77	124	40.5
1984.....	373	337	6	30	99	112	348	252	1.06	96	27.6
1985.....	372	334	7	31	96	120	342	263	1.10	79	23.1
1986.....	357	316	9	32	94	116	325	229	.95	95	29.5
1987.....	331	293	6	32	88	122	302	196	.80	106	35.1
1988 ⁴	328	288	10	30	87	106	297	176	.72	121	40.7

¹ Land supporting one or more harvested crops. ² Area in principal crops harvested as reported by Crop Reporting Board plus acreages in fruits, tree nuts, and farm gardens. ³ Based on Bureau of the Census estimated total population, including Armed Forces overseas, as of July 1. ⁴ Preliminary.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Statistics*, annual.

NO. 1149. CROPS—ACREAGE AND VALUE, 1986 TO 1988, AND ORDER OF VALUE, 1988, BY STATE

STATE	ACREAGE HARVESTED (1,000)			FARM VALUE (mil. dol.)			Crops in order of value, 1988	
	1986	1987	1988, prel.	1986	1987	1988, prel.		
						Value		Rank
U.S. ¹	311,519	289,628	290,077	60,643	68,486	70,200	(x) Corn, soybeans, hay, wheat.	
AL.....	2,520	2,269	2,364	460	520	567	34	
AZ.....	683	729	789	689	869	1,075	26	
AR.....	7,359	7,132	7,538	945	1,372	1,728	14	
CA.....	5,070	4,930	5,075	7,921	8,995	8,492	1	
CO.....	6,167	5,654	5,809	895	985	1,305	19	
CT.....	140	140	128	76	73	85	46	
DE.....	536	531	504	91	87	131	44	
FL.....	1,224	1,113	1,096	2,408	2,764	2,728	8	
GA.....	3,811	3,602	3,754	1,031	1,122	1,297	20	
HI.....	90	87	86	404	384	^a 180	40	
ID.....	4,730	4,141	4,018	1,329	1,271	1,413	16	
IL.....	21,900	20,235	21,581	4,337	4,789	4,370	3	
IN.....	11,660	10,588	11,086	2,060	2,645	2,432	9	
IA.....	23,796	20,856	23,042	4,332	4,879	4,615	2	
KS.....	20,674	19,874	19,996	2,036	2,332	2,650	7	
KY.....	5,131	4,937	5,014	1,165	1,184	1,382	17	
LA.....	4,300	3,905	4,208	806	1,023	995	27	
ME.....	385	369	364	183	146	197	39	
MD.....	1,580	1,496	1,474	271	271	354	35	
MA.....	166	164	162	161	142	170	41	
MI.....	6,990	6,245	6,413	1,366	1,437	1,522	15	
MN.....	19,096	17,497	18,767	3,089	3,724	2,989	6	
MS.....	4,878	4,944	5,149	701	1,100	1,190	23	
MO.....	13,202	12,409	12,799	1,775	2,024	2,162	12	
MT.....	9,415	9,242	7,118	770	851	594	33	
NE.....	17,533	15,927	16,785	2,553	2,885	3,695	4	
NV.....	584	577	569	124	124	150	43	
NH.....	112	108	105	28	28	32	48	
NJ.....	497	389	379	187	175	166	42	
NM.....	1,179	974	912	261	313	327	36	
NY.....	3,855	3,570	3,448	864	867	927	30	
NC.....	4,581	4,185	4,179	1,402	1,461	1,865	13	
ND.....	20,571	19,510	16,236	1,832	1,929	1,205	21	
OH.....	10,207	9,698	9,731	1,966	2,233	2,177	11	
OK.....	8,568	8,357	8,447	785	863	1,184	24	
OR.....	2,711	2,345	2,198	866	871	992	28	
PA.....	4,411	4,291	4,282	1,065	1,111	1,136	25	
RI.....	15	13	11	6	5	5	49	
SC.....	2,129	1,916	2,024	374	491	606	32	
SD.....	15,966	14,761	13,538	1,244	1,430	1,198	22	
TN.....	4,586	4,462	4,635	713	842	956	29	
TX.....	17,749	16,267	16,525	2,522	3,445	3,554	5	
UT.....	1,132	1,060	1,016	217	234	253	37	
VT.....	530	497	491	80	76	78	47	
VA.....	2,790	2,830	2,737	542	580	793	31	
WA.....	4,713	3,937	3,892	714	1,812	1,646	10	
WV.....	683	732	714	87	87	104	45	
WI.....	9,013	8,219	8,400	1,544	1,591	1,325	18	
WY.....	1,963	1,856	1,738	240	230	248	38	

X Not applicable. ¹ Excludes Alaska. ² Incomplete data.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, annual; and *Crop Values*, annual.

NO. 1150. PRINCIPAL CROPS—PRODUCTION, SUPPLY, AND DISAPPEARANCE: 1984 TO 1988

[Marketing year beginning May 1 for hay, June 1 for wheat and barley, August 1 for cotton and rice, September 1 for soybeans, corn, and sorghum. Acreage, production, and yield of all crops periodically revised on basis of census data. See also *Historical Statistics, Colonial Times to 1970*, series K 506-563]

CROP AND YEAR	ACREAGE (mil.)—			Yield per acre	Pro-duction	Farm price ²	Farm value (mil. dol.)	Total sup-ply ³	DISAPPEARANCE		Ending stocks
	Set aside ¹	Plant-ed	Har-vested						Total ⁴	Ex-ports	
Corn for grain:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1984	3.9	80.5	71.9	106.7	7,674	2.63	20,085	8,684	7,036	1,865	1,648
1985	5.4	83.4	75.2	118.0	8,877	2.23	19,522	10,536	6,496	1,241	4,040
1986	13.7	76.7	69.2	119.3	8,250	1.50	12,541	12,292	7,410	1,504	4,882
1987	21.8	65.7	59.2	119.4	7,072	1.94	13,965	11,958	7,699	1,735	4,259
1988	17.6	67.6	58.2	84.6	4,921	2.60	13,011	9,185	7,355	2,100	1,830
Soybeans:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1984	-	67.8	66.1	28.1	1,861	5.84	10,748	2,037	1,721	598	316
1985	-	63.1	61.6	34.1	2,099	5.05	10,581	2,415	1,879	740	536
1986	-	60.4	58.3	33.3	1,940	4.78	9,263	2,476	2,040	757	436
1987	-	58.0	57.0	33.7	1,923	5.88	11,305	2,359	2,057	802	302
1988	-	58.9	57.4	26.8	1,539	7.70	11,865	1,850	1,668	550	182
Hay:				Sh. tons	Mil. sh. tons	\$/ton			Mil. sh. tons		
1984	-	(NA)	61.4	2.45	151	⁵ 72.70	10,204	170.7	143.8	(NA)	26.9
1985	-	(NA)	60.4	2.46	149	⁵ 67.60	9,437	175.5	148.8	(NA)	26.7
1986	-	(NA)	62.4	2.49	156	⁵ 59.70	8,611	182.2	149.8	(NA)	32.4
1987	-	(NA)	60.7	2.46	149	⁵ 65.10	8,969	181.7	154.4	(NA)	27.4
1988	-	(NA)	65.6	1.93	127	⁵ 86.20	10,840	154.2	136.5	(NA)	17.6
Wheat:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1984	18.5	79.2	66.9	38.8	2,595	3.99	8,797	4,003	2,578	1,424	1,425
1985	18.8	75.6	64.7	37.5	2,425	3.08	7,374	3,866	1,961	915	1,905
1986	19.7	72.1	60.7	34.4	2,092	2.42	5,044	4,018	2,197	1,004	1,821
1987	20.2	65.8	56.0	37.7	2,107	2.57	5,497	3,945	2,684	1,592	1,261
1988	19.2	65.5	53.2	34.1	1,811	3.70	6,633	3,096	2,403	1,440	694
Cotton:				Lb.	Mil. bales ⁷	¢/lb.			Mil. bales ⁷		
1984	2.5	11.1	10.4	600	⁸ 13.0	57.8	3,603	15,781	11,755	6,215	⁹ 4,102
1985	3.6	10.7	10.2	630	⁸ 13.4	56.3	3,559	17,567	8,359	1,960	⁹ 9,348
1986	3.3	10.0	8.5	552	⁸ 9.7	52.4	2,449	19,082	14,136	6,894	⁹ 5,026
1987	3.2	10.4	10.0	706	⁸ 14.8	64.3	4,555	19,788	14,199	6,582	⁹ 5,771
1988	1.6	12.5	11.9	623	⁸ 15.4	56.4	4,057	21,185	13,200	6,100	⁹ 9,100
Tobacco: ¹⁰				Lb.	Mil. lb.	\$/lb.			Mil. lb.		
1984	(NA)	(NA)	.8	2,183	1,728	⁶ 1.81	3,121	5,545	1,621	666	¹¹ 3,924
1985	(NA)	(NA)	.7	2,197	1,511	⁶ 1.65	2,486	5,435	1,620	620	3,815
1986	(NA)	(NA)	.6	2,001	1,164	⁶ 1.52	1,772	4,978	1,572	591	3,406
1987	(NA)	(NA)	.6	2,028	1,191	⁶ 1.57	1,871	4,597	1,689	572	2,908
1988	(NA)	(NA)	.6	2,134	1,348	⁶ 1.63	2,198	4,278	1,606	557	2,672
Sorghum for grain:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1984	6	17.3	15.4	56.4	866	2.39	2,139	1,154	854	297	300
1985	9	18.3	16.8	66.8	1,120	1.93	2,243	1,421	870	178	551
1986	2.4	15.3	13.9	67.7	938	1.37	1,322	1,489	743	198	743
1987	3.6	11.8	10.6	69.7	739	1.70	1,193	1,483	822	231	663
1988	2.8	10.4	9.1	63.8	578	2.32	1,362	1,240	835	300	405
Rice, rough:				Lb.	Mil. cwt.	\$/cwt.			Mil. cwt.		
1984	.8	2.8	2.8	4,954	139	8.04	1,118	187	123	62	65
1985	1.3	2.5	2.5	5,414	134	6.53	893	202	125	59	77
1986	1.3	2.4	2.4	5,651	133	3.75	496	213	162	84	51
1987	1.3	2.4	2.3	5,555	130	7.27	971	184	153	72	31
1988	1.0	2.9	2.9	5,511	160	6.50	1,037	195	170	87	25
Barley:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1984	5	12.0	11.2	53.4	591	2.29	1,372	799	551	77	247
1985	7	13.2	11.6	51.0	591	1.98	1,133	848	523	22	325
1986	1.8	13.1	12.0	50.8	611	1.61	994	944	608	137	336
1987	2.7	11.0	10.1	52.7	530	1.81	982	879	558	125	321
1988	2.2	9.7	7.5	38.6	291	2.85	790	624	460	75	164

- Represents zero. NA Not available. ¹ Acreage set aside under diversion, PIK (payment-in-kind) and acreage reduction programs. ² Except as noted, marketing year average price. U.S. prices are computed by weighting U.S. monthly prices by estimated monthly marketings and do not include an allowance for outstanding loans and government purchases and payments. ³ Comprises production, imports, and beginning stocks. ⁴ Includes feed, residual, and other domestic uses not shown separately. ⁵ Prices are for hay sold baled. ⁶ Season average prices received by farmers. U.S. prices are computed by weighting State prices by estimated sales and include an allowance for outstanding loans and government purchases, if any, for crops under government programs. ⁷ Bales of 480 pounds, net weight. ⁸ State production figures, which conform with U.S. Bureau of the Census annual ginning enumeration with allowance for cross-State ginnings, rounded to thousands and added for U.S. totals. ⁹ Stock estimates based on Census Bureau data which results in an unaccounted difference between supply and use estimates and changes in ending stocks. ¹⁰ Flue-cured and cigar wrapper, crop year July-June; all other types October-September. Farm-sales-weight basis. ¹¹ Includes tobacco carried over on farms.

Source: Production—U.S. Dept. of Agriculture, National Agricultural Statistics Service. In *Crop Production*, annual, *Field Crops* (Statistical Bulletin No. 708); *Crop Values* (Statistical Bulletin No. 729). Supply and disappearance—U.S. Dept. of Agriculture, Economic Research Service, *Feed Situation*, quarterly, *Fats and Oils Situation*, quarterly, *Wheat Situation*, quarterly, *Tobacco Situation*, quarterly, *Cotton and Wool Outlook Statistics*, periodic, and *Agricultural Supply and Demand Estimates*, periodic. All data are also in *Agricultural Statistics*, annual; and *Agricultural Outlook*, monthly.

No. 1151. PRICE SUPPORT OPERATIONS—SELECTED COMMODITIES: 1984 TO 1988

[For explanation of price support operations, see text, section 23]

CROP AND YEAR	Support or target price ¹ (dol. per bu.)	National average loan rate (dol. per bu.)	QUANTITY UNDER SUPPORT ²		CROP AND YEAR	Support or target price ¹	National average loan rate	QUANTITY UNDER SUPPORT ²	
			Amount (mil. bu.)	Percent of production				Amount	Percent of production
Corn: ³					Cotton: ¹	Cents per lb.		1,000 bales ⁴	
1984.....	3.03	2.55	1,097	14	1984.....	81.0	55.0	2,957	23
1985.....	3.03	2.55	3,168	36	1985.....	81.0	57.3	7,291	54
1986.....	3.03	⁴ 1.92	4,888	59	1986.....	81.0	⁵ 55.0	6,170	63
1987.....	3.03	1.82	4,186	59	1987.....	79.4	52.3	5,362	36
1988.....	2.93	1.77	⁶ 775	16	1988.....	73.4	51.8	⁵ 11,225	74
Soybeans: ³					Sorghum: ³	Dol. per cwt.		Mil. cwt.	
1984.....	(x)	5.02	278	15	1984.....	5.14	4.32	36	3
1985.....	(x)	5.02	518	25	1985.....	5.14	4.32	201	72
1986.....	(x)	⁴ 4.77	327	17	1986.....	5.14	⁴ 3.25	222	42
1987.....	(x)	4.77	275	14	1987.....	5.14	3.11	201	49
1988.....	(x)	4.77	⁵ 122	8	1988.....	4.96	3.00	⁵ 23	7
Wheat: ⁵					Rice: ⁷	Dol. per cwt.		Mil. cwt.	
1984.....	4.38	3.30	284	11	1984.....	11.90	8.00	58	42
1985.....	4.38	3.30	843	35	1985.....	11.90	8.00	75	56
1986.....	4.38	⁴ 2.40	515	25	1986.....	11.90	⁴ 7.20	132	99
1987.....	4.38	2.28	473	22	1987.....	11.66	6.84	126	97
1988.....	4.23	2.21	⁵ 107	6	1988.....	11.15	6.63	⁵ 148	93

X Not applicable. ¹ Guaranteed on normal production from participating farms. ² Represents loans made, purchases, and purchase agreements entered into. ³ For years beginning September 1. ⁴ 1986 annual loan rates were reduced 4.3 percent for budget purposes (e.g. corn became \$1.84 per bu.). ⁵ Preliminary. ⁶ For years beginning June 1. ⁷ For years beginning August 1. ⁸ Bales of 480 lb. net weight.

Source: U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service. Data published in *Agricultural Statistics*, annual.

No. 1152. CORN—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series K 502-505]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.) ¹			PRODUCTION (mil. bu.) ¹			PRICE ² (dol. per bu.)			FARM VALUE (mil. dol.)		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
U.S. ³	69,159	59,208	58,164	119.3	119.4	84.6	8,250	7,072	4,921	1.50	1.94	2.60	12,541	13,985	13,011
CA.....	250	221	187	152.0	160.0	145.0	38	35	27	2.15	2.41	3.15	82	85	85
CO.....	710	690	800	140.0	155.0	160.0	99	107	128	1.60	1.95	2.65	159	209	339
DE.....	169	148	140	83.0	73.0	70.0	14	11	10	1.77	2.10	3.10	25	23	30
GA.....	730	610	500	58.0	84.0	62.0	42	51	31	1.93	2.25	3.05	82	115	95
IL.....	10,400	9,100	9,600	135.0	132.0	73.0	1,404	1,201	701	1.54	1.96	2.65	2,162	2,354	1,857
IA.....	5,700	4,680	5,000	122.0	135.0	83.0	695	632	415	1.53	2.08	2.65	1,064	1,314	1,100
IN.....	12,050	10,050	10,700	135.0	130.0	84.0	1,627	1,307	899	1.41	1.89	2.55	2,294	2,469	2,292
KS.....	1,335	1,180	1,150	136.0	120.0	125.0	182	142	144	1.60	1.84	2.75	290	261	395
KY.....	1,520	1,140	1,100	92.0	104.0	73.0	140	119	80	1.69	2.02	2.85	236	239	229
LA.....	385	213	125	116.0	105.0	95.0	45	22	12	1.75	1.90	2.85	78	42	34
MD.....	580	460	420	73.0	78.0	65.0	42	36	27	1.81	2.15	3.10	77	77	85
MI.....	2,450	1,950	1,600	105.0	95.0	70.0	257	185	112	1.43	1.97	2.55	368	365	286
MN.....	5,800	5,000	4,700	122.0	127.0	74.0	708	635	348	1.46	1.98	2.55	1,033	1,257	887
MS.....	180	185	150	75.0	80.0	60.0	14	15	9	2.00	2.30	3.10	27	34	28
MO.....	2,420	2,150	2,020	116.0	113.0	76.0	281	243	154	1.45	1.82	2.65	407	442	407
NE.....	7,000	6,200	6,600	128.0	131.0	124.0	896	812	818	1.52	1.96	2.55	1,367	1,592	2,087
NM.....	55	49	55	150.0	155.0	155.0	8	8	9	1.85	2.04	2.85	15	15	24
NY.....	620	510	485	99.0	109.0	85.0	61	56	41	1.76	2.20	2.85	108	122	117
NC.....	1,360	1,150	930	69.0	60.0	84.0	94	69	78	1.78	2.15	2.95	167	148	230
ND.....	530	500	380	93.0	93.0	58.0	49	47	22	1.42	1.91	2.50	70	89	55
OH.....	3,720	3,020	3,000	128.0	120.0	85.0	476	362	255	1.50	1.95	2.65	714	707	676
PA.....	1,240	1,060	910	103.0	90.0	65.0	128	95	59	1.83	2.47	3.20	234	236	189
SC.....	460	375	335	46.0	78.0	58.0	21	29	19	1.80	2.10	3.05	38	61	59
SD.....	2,850	2,750	2,400	82.0	83.0	55.0	234	228	132	1.37	1.92	2.55	320	498	337
TN.....	770	580	530	74.0	91.0	73.0	57	53	39	1.65	1.95	2.75	94	103	106
TX.....	1,330	1,250	1,350	112.0	107.0	96.0	149	134	130	1.87	2.17	2.80	279	290	363
VA.....	400	300	295	54.0	63.0	79.0	22	19	23	1.70	2.05	3.00	37	39	70
WA.....	120	80	80	170.0	170.0	170.0	20	14	14	1.80	2.15	3.05	37	29	41
WI.....	3,100	2,800	1,950	118.0	118.0	67.0	366	330	131	1.46	2.01	2.65	534	664	346

¹ 56 pounds per bushel. ² Marketing year average prices; see text, section 23. ³ Includes other States not shown separately.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, annual; and *Crop Values*, annual.

NO. 1153. SOYBEANS FOR BEANS—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series K 521, for U.S. totals]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bu.)			PRODUCTION (mil. bu.)			PRICE ¹ (dol. per bu.)			FARM VALUE (mil. dol.)		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
U.S.²	58,292	56,977	57,383	33.3	33.7	26.8	1,940	1,923	1,539	4.78	5.68	7.70	9,263	11,305	11,865
AR	3,300	3,250	3,200	20.0	22.0	25.0	66	72	80	4.97	5.92	7.70	328	423	616
GA	820	780	900	17.0	20.0	25.0	14	16	23	4.75	5.61	7.50	66	88	169
IL	9,000	8,700	8,700	40.0	38.0	27.0	360	331	235	4.91	6.00	7.80	1,768	1,984	1,832
IN	4,250	4,350	4,200	37.0	40.0	27.5	157	174	116	4.76	5.94	7.80	749	1,034	901
IA	8,450	7,900	8,000	41.5	43.5	31.0	351	344	248	4.73	5.97	7.80	1,659	2,052	1,934
KS	1,740	2,110	2,000	33.5	32.0	23.0	58	68	46	4.60	5.49	7.70	268	371	354
KY	1,120	960	910	32.0	25.0	26.5	36	24	24	4.97	5.93	7.85	178	142	189
LA	1,750	1,850	1,850	20.0	23.5	27.5	35	39	51	4.88	5.59	7.60	170	217	387
MI	930	1,090	1,210	31.0	35.0	28.0	29	38	34	4.67	5.62	7.50	135	214	254
MN	4,650	4,650	4,800	35.0	39.0	26.0	163	181	125	4.72	6.10	7.70	768	1,106	961
MS	2,450	2,450	2,250	17.0	19.5	22.0	42	48	50	4.93	5.84	7.65	205	279	379
MO	5,250	4,830	4,230	32.5	32.0	26.0	171	155	110	4.61	5.70	7.75	787	881	852
NE	2,450	2,350	2,360	38.0	35.5	30.0	93	83	71	4.56	5.82	7.65	425	486	542
NC	1,530	1,340	1,410	24.0	24.5	27.0	37	33	38	4.82	5.79	7.60	177	190	289
OH	3,620	3,960	3,700	40.5	37.0	27.0	146	147	100	4.86	5.94	7.70	713	875	769
SC	830	730	790	16.5	21.5	23.0	14	16	18	4.93	5.89	7.65	68	92	139
SD	1,330	1,390	1,730	30.5	32.5	24.0	41	45	42	4.58	5.37	7.55	186	243	313
TN	1,420	1,250	1,320	25.0	23.0	26.0	36	29	34	4.87	5.61	7.75	173	161	266
VA	570	520	555	24.0	21.0	28.0	14	11	16	4.90	6.05	7.45	67	66	116

¹ See footnote 2, table 1152. ² Includes other States not shown separately.

NO. 1154. WHEAT—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series K 506-508, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (bushels) ¹			PRODUCTION (mil. bushels) ¹			PRICE ² (dol. per bu.)			FARM VALUE (mil. dol.)		
	1986	1987	1988, prel.	1986	1987	1988, prel.	1986	1987	1988, prel.	1986	1987	1988, prel.	1986	1987	1988, prel.
U.S.³	60,723	55,960	53,174	34.4	37.7	34.1	2,092	2,107	1,811	2.42	2.57	3.70	5,044	5,497	6,633
CO	2,955	2,555	2,352	32.6	38.1	33.8	96	97	80	2.26	2.51	3.66	218	245	291
ID	1,310	1,140	1,150	62.4	75.0	65.7	82	86	76	2.39	2.59	3.97	196	221	300
IL	820	850	1,250	44.0	59.0	54.0	36	56	68	2.41	2.51	3.55	87	141	240
KS	10,200	9,900	9,500	33.0	37.0	34.0	337	366	323	2.25	2.43	3.55	757	890	1,147
MO	570	770	1,550	33.0	46.0	50.0	19	35	78	2.37	2.53	3.45	45	90	267
MT	4,760	4,690	3,830	29.1	32.2	15.7	139	151	60	2.52	2.74	3.90	349	414	234
NE	2,000	1,950	2,000	38.0	44.0	36.0	76	86	72	2.23	2.45	3.60	169	210	259
ND	9,380	9,135	7,230	31.2	29.5	14.3	292	269	103	2.54	2.95	4.16	743	794	430
OK	5,200	4,800	4,800	29.0	27.0	36.0	151	130	173	2.28	2.46	3.50	343	319	605
TX	4,800	3,600	3,200	25.0	28.0	28.0	120	101	90	2.32	2.36	3.40	278	238	305
WA	2,410	2,015	2,060	45.8	56.7	60.5	117	114	125	2.51	2.82	4.15	293	322	517

¹ 60 pounds per bushel. ² See footnote 2, table 1152. ³ Includes other States not shown separately.

NO. 1155. COTTON—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1988

[Cotton production excludes linters. Values shown are for marketing season or crop year and should not be confused with calendar-year income. See *Historical Statistics, Colonial Times to 1970*, series K 553-558 for U.S. totals]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (lb.)			PRODUCTION (1,000 bales) ¹			FARM PRICE PER LB. ² (cents)			FARM VALUE (mil. dol.)		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
U.S.³	8,468	10,035	11,891	552	706	623	9,731	14,760	15,446	52.4	64.3	56.4	2,449	4,555	4,057
AL	313	333	355	506	572	514	330	397	380	52.1	64.8	51.3	83	123	94
AZ	323	380	477	1,224	1,342	1,127	823	1,062	1,120	60.6	73.4	68.7	239	374	365
AR	480	550	675	602	786	747	602	901	1,050	49.7	63.5	51.7	144	275	261
CA	990	1,141	1,337	1,088	1,258	1,024	2,245	2,991	2,853	59.1	69.6	63.6	637	999	863
GA	195	245	315	455	662	564	185	338	370	58.3	61.8	53.5	52	100	95
LA	570	600	645	567	782	707	673	977	950	49.8	63.2	52.0	161	296	237
MO	160	189	237	598	838	628	196	330	310	51.5	66.0	51.6	48	105	77
MS	1,000	1,010	1,190	571	829	738	1,190	1,745	1,830	50.9	63.6	51.0	291	533	448
OK	350	400	400	268	415	348	210	346	290	43.4	56.4	42.8	44	97	60
TN	335	435	535	567	700	529	306	634	590	49.0	63.0	51.2	93	192	145
TX	3,476	4,431	5,340	356	508	473	2,576	4,686	5,260	46.8	60.1	51.5	579	1,351	1,253

¹ Bales of 480 lb. net weight. ² See footnote 2, table 1152. ³ Includes other States not shown separately.Source of tables 1153-1155: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual; and *Crop Values*, annual.

NO. 1156. TOBACCO—ACREAGE, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series K 561-563, for U.S. acreage, production, and price]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (pounds)			PRODUCTION (mil. lb.)			PRICE ¹ (dol. per lb.)			FARM VALUE (mil. dol.)		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
Total ²	582	587	632	2,001	2,028	2,134	1,164	1,191	1,348	1.52	1.57	1.63	1,772	1,871	2,198
FL	5	6	6	2,510	2,465	2,680	13	14	17	1.62	1.64	1.65	22	23	28
GA	31	32	38	2,190	2,255	2,260	68	72	86	1.58	1.63	1.63	107	118	140
KY	153	148	154	2,054	2,056	2,196	315	305	337	1.55	1.56	1.64	488	476	554
MD	16	12	10	1,320	1,140	1,290	21	13	13	1.18	1.25	1.29	25	17	17
NC	215	225	251	2,073	2,075	2,207	445	467	553	1.53	1.58	1.61	682	737	891
OH	7	7	8	1,829	1,639	1,850	14	12	15	1.54	1.54	1.62	21	19	24
PA	11	11	10	1,985	1,882	1,913	22	21	18	1.67	1.77	1.85	15	16	16
SC	37	42	45	2,040	2,240	2,225	75	94	100	1.44	1.61	1.62	109	151	162
TN	49	49	49	1,682	1,766	1,838	83	87	91	1.52	1.55	1.68	126	135	152
VA	38	39	47	1,913	1,950	1,951	74	77	91	1.51	1.52	1.59	111	117	145

¹ See footnote 6, table 1150. ² Includes other States not shown separately.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual; and *Crop Values*, annual.

NO. 1157. SUGARCANE AND SUGAR BEETS, AND SUGAR—SUMMARY: 1970 TO 1988

[Data are for crop year. See also *Historical Statistics, Colonial Times to 1970*, series K 542-546]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Sugarcane for sugar and seed:											
Acreage harvested	1,000 acres	584	733	755	742	768	747	770	796	824	844
Yield per acre	Sh. tons	41.1	36.8	36.3	40.1	36.7	36.6	36.6	38.1	35.5	35.9
Production	Mil. tons	24.0	27.0	27.4	29.8	28.2	27.3	28.2	30.3	29.2	30.3
Price per ton for sugar	Dollars	10.50	38.50	24.90	26.50	27.80	28.20	26.70	27.30	29.30	(NA)
Farm value ³	Mil. dol.	140	1,036	682	790	781	770	752	825	857	(NA)
Sugar beets:											
Acreage harvested	1,000 acres	1,413	1,190	1,228	1,027	1,056	1,096	1,103	1,191	1,252	1,301
Yield per acre	Sh. tons	18.7	19.8	22.4	20.3	19.9	20.2	20.4	21.1	22.4	19.1
Production	Mil. sh. tons	26.4	23.5	27.5	20.9	21.0	22.1	22.5	25.2	28.1	24.8
Price per ton	Dollars	14.80	47.20	29.20	35.40	37.00	33.90	33.80	35.90	38.20	(NA)
Farm value	Mil. dol.	392	1,109	804	740	778	750	761	902	1,081	(NA)
Sugar produced:											
Beet, raw value ⁴	1,000 tons	3,322	3,149	3,368	2,737	2,699	2,902	3,000	3,416	3,998	3,551
Cane, raw value ⁴	1,000 tons	2,416	2,728	2,833	3,063	2,930	3,007	3,033	3,281	3,333	3,294
Per ton of cane ⁴	Lb.	210	213	217	215	215	231	226	224	235	236
Cane, refined basis ⁴	1,000 tons	2,258	2,550	2,647	2,863	2,739	2,811	2,835	3,066	3,115	3,079
Molasses made from sugarcane ⁴	Mil. gal.	141	163	183	177	176	174	179	188	185	185

NA Not available. ¹ Season average prices received by farmers. Prices exclude Government payments under Sugar Act. ² Excludes Hawaii. ³ Price per ton of cane for sugar used in evaluating value of production for seed. ⁴ Raw value equals 96° sugar as defined in Sugar Act of 1948. ⁵ Calculated on the basis of 100 lbs. of raw sugar required to produce 93.46 lbs. of refined sugar. ⁶ 80° brix except 85° brix for Hawaii. Includes high-test molasses from frozen cane. Excludes edible molasses.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Field Crops* (Statistical Bulletin 708); *Crop Production*, June issue and annual; and *Crop Values*, annual.

NO. 1158. FRUITS AND PLANTED NUTS—BEARING AREAS, BY TYPE: 1980 TO 1988

[In thousands of acres]

TYPE	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	3,556	3,537	3,552	3,561	3,569	3,498	3,445	3,468	3,458
Citrus fruit ¹	1,143	1,130	1,116	1,084	1,003	884	819	825	832
Major deciduous fruits ²	1,608	1,599	1,659	1,694	1,738	1,735	1,743	1,752	1,743
Miscellaneous noncitrus ³	242	249	199	205	205	211	214	216	214
Planted nuts ⁴	563	559	578	599	624	657	669	675	668

¹ Grapefruit, lemons, limes, oranges, tangelos, tangerines, and temples. Acreage is for the year of harvest. ² Commercial apples, apricots, cherries, grapes, nectarines, peaches, pears, plums, and prunes. ³ Avocados, bananas, cranberries (beginning 1983), dates, figs, kiwifruit, olives, papayas, pineapples, and pomegranates. ⁴ Almonds, filberts, macadamia nuts, walnuts, and pistachios.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Noncitrus Fruits and Nuts*, annual.

NO. 1159. FRUITS AND NUTS—UTILIZED PRODUCTION AND VALUE, 1986 TO 1988, AND LEADING PRODUCING STATES, 1988

FRUIT OR NUT	UTILIZED PRODUCTION ¹			FARM VALUE (mil. dol.)			Leading States in order of production, 1988	
	Unit	1986	1987	1988	1986	1987		1988
Apples (35 States) ²	Mil. lb.....	7,907	10,452	9,108	1,059	906	1,144	WA, NY, MI.
Apricots.....	1,000 tons.....	55	107	94	22	37	34	CA, WA, UT.
Avocados.....	1,000 tons.....	303	209	183	104	214	199	CA, FL.
Bananas.....	Mil. lb.....	10	11	13	3	3	4	HI.
Cherries, sweet.....	1,000 tons.....	137	213	185	113	159	145	WA, OR, MI.
Cherries, tart.....	Mil. lb.....	218	286	234	44	22	54	MI, NY, UT.
Cranberries.....	1,000 bbl. ³	3,640	3,321	4,019	163	148	179	MA, WI, NJ.
Dates.....	1,000 tons.....	18	19	22	15	17	20	CA.
Figs (fresh).....	1,000 tons.....	50	52	48	14	17	17	CA.
Grapefruit (4 States).....	Mil. boxes ⁴	57	63	68	340	412	472	FL, CA, AZ.
Grapes (12 States).....	1,000 tons.....	5,225	5,250	5,984	1,180	1,358	1,502	CA, WA, NY.
Kiwifruit.....	1,000 tons.....	23	27	30	24	19	22	CA.
Lemons (2 States).....	Mil. boxes ⁵	18	29	21	219	182	203	CA, AZ.
Limes (FL).....	Mil. boxes ⁶	2	1	1	22	20	23	FL.
Nectarines.....	1,000 tons.....	172	191	200	76	66	79	CA.
Olives.....	1,000 tons.....	112	68	88	85	41	50	CA.
Oranges and tangerines (4 States).....	Mil. boxes ⁷	180	186	203	1,151	1,390	1,780	FL, CA, AZ.
Papayas.....	Mil. lb.....	61	67	69	11	11	12	HI.
Peaches (32 States).....	Mil. lb.....	2,240	2,248	2,459	315	311	384	CA, SC, GA.
Pears.....	1,000 tons.....	760	938	861	203	186	235	WA, CA, OR.
Pineapples.....	1,000 tons.....	646	692	659	100	99	107	HI.
Plums and prunes (fresh).....	1,000 tons.....	487	975	746	192	250	225	CA, OR, WA.
Pomegranates.....	1,000 tons.....	19	17	18	8	6	6	CA.
Tangelos (FL).....	Mil. boxes ⁸	3	4	4	19	25	33	FL.
Templets (FL).....	Mil. boxes ⁸	3	3	4	16	21	27	FL.
Almonds (shelled basis).....	Mil. lb.....	250	660	590	462	648	600	CA.
Filberts (in the shell).....	1,000 tons.....	15	22	17	11	21	14	OR, WA.
Macadamia nuts.....	Mil. lb.....	44	43	46	35	36	41	HI.
Pecans (in the shell) (11 States).....	Mil. lb.....	273	262	308	196	139	167	GA, TX, OK.
Pistachios.....	Mil. lb.....	75	33	94	79	47	104	CA.
Walnuts, English (in the shell).....	1,000 tons.....	180	247	206	194	243	191	CA.

¹ Excludes quantities not harvested or not marketed. ² Production in commercial orchards with 100 or more bearing age trees. ³ Barrels of 100 pounds. ⁴ Approximate average, net weight, is 65 lb. in AZ and CA, 85 in FL, and 80 in TX. ⁵ About 76 lb. net. ⁶ Approximate net weight is 80 lb. ⁷ Net contents of box varies. In CA and AZ approximate average for oranges and tangerines is 75 lb.; FL oranges, 90 lb.; TX oranges, 85 lb.; and FL tangerines, 95 lb. ⁸ Approximate net weight is 90 lb.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Noncitrus Fruits and Nuts*, annual; and *Citrus Fruits*, annual.

NO. 1160. COMMERCIAL VEGETABLE AND OTHER SPECIFIED CROPS—AREA, PRODUCTION, AND VALUE, 1986 TO 1988, AND LEADING PRODUCING STATES, 1988

[Relates to commercial production for fresh market and processing combined. Includes market garden areas but excludes minor producing acreage in minor producing States. Excludes production for home use in farm and nonfarm gardens. Value is for season or crop year and should not be confused with calendar-year income]

CROP	AREA ¹ (1,000 acres)			PRODUCTION ² (1,000 short tons)			VALUE ³ (mil. dol.)			Leading States in order of production, 1988
	1986	1987	1988	1986	1987	1988	1986	1987	1988	
Asparagus.....	96.2	100.0	100.9	1,115	1,174	1,211	137.0	136.0	152.1	CA, WA, MI.
Beans, snap ⁴	190.6	221.2	217.7	609.4	679.0	588.3	97.3	108.4	98.6	WI, OR, NY.
Beans, dry edible.....	1,495.0	1,688.4	1,368.0	1,144.2	1,295.5	961.5	436.3	426.4	571.2	CA, NE, CO.
Broccoli.....	119.1	120.2	114.4	576.5	571.6	639.7	239.7	238.8	292.3	CA, TX, AZ.
Carrots.....	86.1	100.1	97.7	1,553.7	1,924.3	1,625.1	334.6	351.4	344.5	CA, WA, TX.
Cauliflower.....	67.8	66.1	62.8	376.4	368.8	393.7	191.9	187.6	202.4	CA, AZ, OR.
Celery.....	33.3	34.0	34.0	880.7	892.4	971.2	211.1	197.0	230.8	CA, FL, MI.
Corn, sweet.....	598.0	621.0	618.4	3,310.3	3,636.6	3,132.8	359.7	368.3	360.9	WI, MN, WA.
Cucumbers ⁴	110.5	109.6	118.9	639.6	635.5	651.6	113.4	114.4	130.2	MI, NC, CA.
Honeydew melons.....	28.8	28.6	31.2	271.9	240.6	282.1	69.1	69.3	75.3	CA, TX, AZ.
Lettuce.....	216.0	229.0	236.1	3,185.8	3,998.6	3,551.2	758.0	1,002.4	1,045.2	CA, AZ, FL.
Peppermint.....	64.2	65.8	80.5	4.3	4.4	5.4	46.2	52.0	85.4	OR, WA, ID.
Spearmint.....	28.5	23.8	22.6	2.7	2.1	1.7	30.4	25.0	22.2	WA, ID, WI.
Mushrooms ⁵	129.6	129.7	130.5	294	307	318	493.1	531.7	567.0	CA, CA, MI.
Onions.....	115.3	123.7	132.2	2,165.1	2,293.4	2,413.2	427.7	511.1	426.3	PO, OR, ID.
Peas, green ⁴	272.4	290.3	283.9	414.9	439.5	313.1	93.8	96.6	73.2	WA, WI, MN.
Potatoes.....	1,219.6	1,279.3	1,242.9	1,807.6	1,927.3	1,749.9	1,808.5	1,656.8	1,918.7	ID, WA, ME.
Strawberries.....	44.4	44.6	45.0	509.7	556.0	583.5	503.6	549.1	537.3	CA, OR, WA.
Sweet potatoes.....	93.4	89.3	89.1	633.7	603.2	591.6	139.0	138.8	160.2	NC, LA, CA.
Tomatoes.....	379.2	387.6	415.9	8,971.0	9,207.0	9,194.2	1,264.9	1,284.7	1,407.5	CA, FL, OH.

¹ Area of crops for harvest for fresh market, including any partially harvested or not harvested because of low prices or other factors, plus area harvested for processing. ² Excludes some quantities not marketed. ³ Fresh market vegetables valued at f.o.b. shipping point. Processing vegetables are equivalent returns at packinghouse door. ⁴ Processing only. ⁵ Area is shown in million square feet. All data are for marketing year ending June 30.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Vegetables*, annual summary. Also in *Agricultural Statistics*, annual.

NO. 1161. RED MEATS—SLAUGHTERING, SUPPLY, AND USE: 1980 TO 1988

[Quantities in millions of pounds (carcass weight equivalent), except as noted. Covers inspected, noninspected, retail, and farm slaughter. See also *Historical Statistics, Colonial Times to 1970*, series K 563-594]

YEAR AND TYPE OF MEAT	Animals slaughtered (mil head)	Production	Imports	Supply, ¹ total	Consumption	Exports ²	Ending stocks
All red meats:							
1980	139.7	38,978	2,668	42,488	40,969	635	884
1985	131.3	39,409	3,255	43,505	42,125	647	733
1986	128.8	39,296	3,319	43,348	41,869	800	679
1987	125.5	38,684	3,532	42,895	41,244	907	745
1988	131.4	40,004	3,554	44,343	42,418	1,079	846
Beef:							
1980	34.1	21,643	2,064	24,166	23,513	220	432
1985	36.6	23,728	2,071	26,271	25,472	379	420
1986	37.6	24,371	2,129	26,919	25,935	573	412
1987	35.9	23,566	2,269	26,247	25,201	656	386
1988	35.3	23,590	2,379	26,354	25,188	744	422
Pork:							
1980	97.2	16,617	550	17,529	16,690	406	433
1985	84.9	14,807	1,128	16,292	15,733	261	286
1986	80.0	14,083	1,122	15,475	15,009	218	248
1987	81.4	14,374	1,195	15,817	15,235	236	347
1988	88.1	15,684	1,137	17,168	16,434	321	413
Veal:							
1980	2.7	400	21	431	418	4	9
1985	3.5	515	20	549	533	5	11
1986	3.5	524	27	562	549	6	7
1987	2.9	429	24	460	448	8	4
1988	2.6	395	27	427	410	12	5
Lamb and mutton:							
1980	5.7	318	33	362	349	5	9
1985	6.3	358	36	401	385	3	13
1986	5.8	338	41	392	376	3	13
1987	5.3	316	44	372	361	3	8
1988	5.4	335	51	394	386	2	6

¹ Total supply equals production plus imports plus ending stocks of previous year. ² Includes shipments to territories.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Livestock and Meat Statistics*, quarterly. Also published in *Agricultural Outlook*, monthly.

NO. 1162. LIVESTOCK INVENTORY AND PRODUCTION: 1970 TO 1989

[Production in live weight; includes animals for slaughter market, younger animals shipped to other States for feeding or breeding purposes, farm slaughter and custom slaughter consumed on farms where produced, minus livestock shipped into States for feeding or breeding with an adjustment for changes in inventory. See also *Historical Statistics, Colonial Times to 1970*, series K 564-569 and 575-582]

TYPE OF LIVESTOCK	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
ALL CATTLE¹												
Inventory: ² Number on farms	Mil.	112.4	111.2	114.4	115.4	115.0	113.7	109.7	105.5	102.0	99.5	99.5
Total value	Bil. dol.	20.2	55.8	54.1	47.9	46.7	45.0	44.1	41.3	41.5	52.0	60.4
Value per head	Dol.	179	502	473	415	406	396	402	391	407	523	607
Production: Quantity	Bil. lb.	39.4	40.3	41.2	40.7	40.3	40.0	40.2	40.5	40.3	40.9	(NA)
Beef, price per 100 lb.	Dol.	27.10	62.40	58.60	56.70	55.50	57.30	53.70	52.60	61.10	66.60	(NA)
Calves, price per 100 lb.	Dol.	34.50	76.80	64.00	59.80	61.70	59.90	62.10	61.10	78.50	89.20	(NA)
Value of production	Bil. dol.	10.9	25.5	23.7	22.6	22.0	22.1	21.2	20.9	24.7	27.4	(NA)
HOGS AND PIGS												
Inventory: ² Number on farms	Mil.	57.0	67.3	64.5	58.7	54.5	56.7	54.1	52.3	50.9	54.6	55.3
Total value	Bil. dol.	2.2	3.8	4.8	4.1	4.9	3.3	4.1	3.6	4.7	4.2	3.7
Value per head	Dol.	39.00	56.00	74.70	70.10	89.90	58.80	75.00	69.60	91.90	76.10	66.30
Production: Quantity	Bil. lb.	21.8	23.4	21.8	19.7	21.2	20.2	20.2	19.4	20.4	21.6	(NA)
Price per 100 lb.	Dol.	22.70	38.00	43.90	52.30	46.80	47.10	44.00	49.30	51.20	42.30	(NA)
Value of production	Bil. dol.	5.0	8.9	9.5	10.3	9.9	9.5	8.9	9.6	10.4	9.1	(NA)
SHEEP AND LAMBS												
Inventory: ² Number on farms	Mil.	20.4	12.7	12.9	13.0	12.1	11.5	10.4	10.0	10.3	10.8	10.8
Total value	Mil. dol.	513	993	904	742	629	599	638	673	782	970	890
Value per head	Dol.	25.10	78.20	69.90	57.10	51.80	52.10	61.10	67.40	75.70	90.00	82.40
Production: Quantity	Mil. lb.	1,099	746	772	785	768	694	694	721	729	703	(NA)
Sheep, price per 100 lb.	Dol.	7.52	21.30	21.20	19.50	15.70	16.40	23.90	25.60	29.50	25.60	(NA)
Lambs, price per 100 lb.	Dol.	26.40	63.60	54.80	53.10	53.90	60.10	67.70	69.00	77.60	69.10	(NA)
Value of production	Mil. dol.	260	403	359	356	357	377	428	444	489	419	(NA)

NA Not available. ¹ Includes milk cows. ² As of Jan. 1. ³ As of Dec. 1 of preceding year.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition, and Income*, annual; and annual livestock summaries. Also in *Agricultural Statistics*, annual.

NO. 1163. CATTLE AND CALVES—NUMBER, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1989

[Includes milk cows. See headnote, table 1162]

STATE	NUMBER ON FARMS ¹ (1,000)			QUANTITY PRODUCED (mil. lb.)			VALUE OF PRODUCTION (mil. dol.)			COMMERCIAL SLAUGHTER ² (mil. lb.)		
	1987	1988	1989	1986	1987	1988	1986	1987	1988	1986	1987	1988
U.S. ³	102,000	99,524	99,484	40,475	40,327	40,898	20,935	24,660	27,426	41,032	39,387	39,294
AL.....	1,850	1,750	1,800	759	760	672	339	421	431	321	399	283
AZ.....	1,000	960	880	552	581	531	287	356	352	430	421	454
AR.....	1,840	1,850	1,750	634	658	620	298	384	393	63	52	43
CA.....	4,750	4,650	4,700	1,783	1,803	2,084	837	1,025	1,306	1,710	1,500	1,408
CO.....	2,600	2,700	2,750	1,751	1,698	1,806	1,000	1,120	1,287	2,130	2,326	2,541
FL.....	2,140	1,970	2,025	548	425	501	266	297	375	222	203	179
GA.....	1,950	1,520	1,500	435	394	396	194	229	260	248	224	188
ID.....	1,550	1,570	1,620	776	752	815	399	453	521	913	808	899
IL.....	2,250	2,050	1,950	842	802	779	476	508	548	1,526	1,538	1,463
IN.....	1,470	1,360	1,290	428	431	409	210	247	248	198	187	171
IA.....	4,650	4,650	4,750	2,137	2,211	2,168	1,148	1,362	1,458	2,211	2,437	2,213
KS.....	5,920	5,860	5,900	2,998	3,047	3,074	1,703	1,988	2,194	7,258	6,905	7,012
KY.....	2,450	2,450	2,500	752	729	740	362	433	497	135	112	107
LA.....	1,160	1,125	1,075	339	310	353	156	188	243	37	31	34
MI.....	1,325	1,225	1,225	466	462	441	209	247	252	523	492	503
MN.....	3,150	2,900	2,940	1,439	1,375	1,281	708	803	811	1,170	1,188	1,309
MS.....	1,373	1,350	1,390	369	374	384	166	213	249	250	196	120
MO.....	4,600	4,400	4,500	1,346	1,305	1,236	711	838	911	482	412	433
MT.....	2,400	2,350	2,350	804	886	933	468	559	636	29	24	19
NE.....	5,500	5,450	5,400	3,318	3,441	3,583	1,895	2,212	2,519	6,356	6,296	6,659
NM.....	1,360	1,320	1,350	616	602	657	308	393	429	161	134	127
ND.....	1,900	1,800	1,600	752	749	631	400	497	489	160	90	189
OH.....	1,800	1,820	1,760	611	592	582	309	353	375	584	551	472
OK.....	5,200	5,100	5,200	2,227	2,130	2,090	1,134	1,234	1,333	654	301	126
OR.....	1,400	1,360	1,390	541	488	508	254	289	335	110	62	60
PA.....	1,950	1,920	1,920	594	572	611	282	333	384	1,316	1,204	1,166
SD.....	3,600	3,500	3,480	1,487	1,762	1,749	804	1,117	1,220	862	677	704
TN.....	2,400	2,300	2,300	764	744	775	337	408	463	270	242	173
TX.....	13,400	13,600	13,700	5,554	5,546	5,763	2,978	3,453	3,885	6,489	6,452	6,267
UT.....	770	760	770	283	291	315	154	185	220	446	502	559
VA.....	1,950	1,700	1,670	687	692	624	387	407	415	93	68	68
WA.....	1,300	1,290	1,300	553	533	610	294	326	401	1,082	980	1,074
WI.....	4,260	4,230	4,130	1,276	1,355	1,280	626	788	798	1,670	1,551	1,464
WY.....	1,300	1,290	1,330	462	465	507	248	315	356	6	6	8

¹ As of January 1.² Cattle only. Includes slaughter in federally inspected and other slaughter plants; excludes animals

slaughtered on farms.

³ Includes other States not shown separately.

NO. 1164. HOGS AND PIGS—NUMBER, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1988

[See headnote, table 1162]

STATE	NUMBER ON FARMS ¹ (1,000)			QUANTITY PRODUCED (mil. lb.)			VALUE OF PRODUCTION (mil. dol.)			COMMERCIAL SLAUGHTER ² (mil. lb.)		
	1986	1987	1988	1986	1987	1988	1986	1987	1988	1986	1987	1988
U.S. ³	50,920	54,620	55,299	19,416	20,408	21,630	9,566	10,424	9,128	19,565	20,060	21,838
CA.....	150	130	120	58.4	54.5	36.9	30.4	31.6	17.4	386.8	409.3	485.3
GA.....	1,100	1,175	1,210	374.3	412.9	435.6	187.4	213.5	179.9	430.7	400.9	286.7
IL.....	5,000	5,400	5,600	2,017.4	2,124.1	2,471.0	981.4	1,072.2	1,025.9	1,462.8	1,488.8	2,062.9
IN.....	4,150	4,600	4,300	1,553.5	1,619.3	1,644.6	764.9	812.5	684.9	830.6	987.5	1,036.9
IA.....	12,600	14,100	13,900	5,139.3	5,320.8	5,500.9	2,522.5	2,732.2	2,356.1	4,685.3	5,340.3	6,257.1
KS.....	1,420	1,470	1,500	606.3	574.8	619.6	287.1	284.3	253.5	361.2	483.4	493.3
KY.....	880	900	1,090	315.8	344.9	359.9	161.6	182.8	158.5	575.8	637.2	709.6
MI.....	1,250	1,350	1,250	417.2	434.3	454.5	202.1	217.6	189.2	1,095.9	1,069.7	1,168.1
MN.....	4,260	4,500	4,600	1,479.2	1,620.5	1,739.1	752.8	845.2	751.9	1,382.3	1,418.7	1,082.9
MS.....	210	263	237	75.9	88.3	91.6	38.5	45.0	38.5	395.8	428.8	447.9
MO.....	2,850	3,000	2,850	1,109.9	1,129.6	1,192.1	555.9	584.9	510.4	914.5	958.2	990.4
NE.....	3,950	4,050	4,050	1,378.8	1,482.0	1,548.3	684.3	757.6	651.3	1,165.1	965.9	1,165.3
NC.....	2,380	2,550	2,700	876.0	973.4	1,059.1	432.5	495.4	443.0	600.3	637.3	671.6
OH.....	2,000	2,150	2,210	739.7	789.8	892.1	360.4	397.2	371.3	881.4	707.7	753.8
PA.....	890	960	970	238.5	290.2	283.3	120.0	148.9	122.1	355.3	358.3	392.4
SC.....	420	400	450	122.9	131.5	128.4	61.1	66.6	53.0	117.2	120.9	147.3
SD.....	1,520	1,560	1,790	630.7	670.2	754.0	311.7	350.6	321.8	896.9	954.9	1,053.1
TN.....	770	820	850	340.4	265.9	348.2	158.9	138.9	148.5	618.8	519.8	547.3
TX.....	510	580	580	176.7	216.8	236.7	83.1	109.2	97.4	267.5	225.7	249.3
VA.....	360	420	400	167.9	167.2	166.2	81.5	83.7	86.1	1,059.8	1,107.9	1,142.1
WI.....	1,300	1,320	1,275	518.8	563.5	547.4	254.8	286.5	225.9	513.1	287.9	106.8

¹ As of December 1.² Includes slaughter in federally inspected and other slaughter plants; excludes animals slaughtered on

farms.

³ Includes other States not shown separately.Source of tables 1163 and 1164: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition and Income*, annual and *Livestock and Meat Statistics*, annual.

NO. 1165. DAIRYING—COWS AND DAIRY PRODUCTS: 1970 TO 1988

[See also *Historical Statistics, Colonial Times to 1970*, series K 595-608]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988
Cows and heifers that have calved, kept for milk, Jan. 1 ¹	Mil. head	13.3	10.8	11.0	11.0	11.1	10.8	11.2	10.4	10.3
Milk produced on farms	Bil. lb.	117	128	136	140	135	143	143	143	146
Production per cow	1,000 lb.	9.8	11.9	12.3	12.6	12.6	13.0	13.3	13.8	14.2
Whole milk sold from farms ²	Bil. lb.	113	126	133	137	133	141	141	140	143
Sales to plants and dealers	Bil. lb.	110	125	132	136	131	139	140	139	142
Value of milk produced	Bil. dollars	6.8	16.9	18.6	19.1	18.3	18.4	18.1	18.0	17.9
Gross farm income, dairy products	Bil. dollars	6.7	16.7	18.3	18.9	18.1	18.2	17.8	17.8	17.7
Cash receipts from marketing of milk and cream ²	Bil. dollars	6.5	16.6	18.2	18.8	17.9	18.1	17.8	17.7	17.7
Sales to plants and dealers	Bil. dollars	6.3	16.3	17.9	18.5	17.7	17.8	17.5	17.4	17.4
Number of dairy plants manufacturing one or more dairy products	Number	3,749	2,257	2,076	2,120	2,059	2,061	1,998	1,933	1,846
Manufactured dairy products:										
Butter (incl. whey butter)	Mil. lb.	1,137	1,145	1,257	1,299	1,103	1,248	1,202	1,104	1,208
Cheese, total ³	Mil. lb.	2,201	3,984	4,542	4,819	4,674	5,081	5,209	5,344	5,572
American (excl. full-skim American)	Mil. lb.	1,428	2,376	2,752	2,928	2,648	2,855	2,798	2,717	2,757
Swiss (including block)	Mil. lb.	144	219	221	209	208	223	227	227	250
Muenster, Brick, and Limburger ⁴	Mil. lb.	59	87	87	85	93	103	110	123	109
Cream and Neufchatel	Mil. lb.	126	229	263	270	276	294	322	342	378
All Italian varieties	Mil. lb.	394	983	1,088	1,200	1,319	1,491	1,633	1,800	1,937
Cottage cheese: Creamed ⁵	Mil. lb.	1,038	825	749	743	736	716	705	675	647
Curd, pot, and bakers'	Mil. lb.	726	667	629	618	606	599	600	574	557
Condensed bulk milk	Mil. lb.	1,237	952	975	984	1,159	1,232	1,362	1,383	1,020
Evaporated and condensed canned milk	Mil. lb.	1,293	725	754	710	666	656	602	597	611
Dry whole milk	Mil. lb.	69	83	102	111	120	119	122	146	172
Nonfat dry milk solids ⁶	Mil. lb.	1,456	1,168	1,410	1,510	1,168	1,398	1,294	1,057	978
Dry whey ⁷	Mil. lb.	621	690	791	892	898	987	1,031	1,037	1,137
Dry buttermilk	Mil. lb.	60	44	39	46	43	52	66	56	59
Ice cream of all kinds	Mil. gal	762	830	852	882	894	901	924	928	882
Milk sherbet	Mil. gal	49	45	46	48	47	48	50	50	52
Ice milk	Mil. gal	287	293	281	295	300	301	315	330	354
Wholesale prices, American cheese:										
40-lb. blocks, Wis. assembly points	Cents per lb.	55.0	133.0	138.3	138.3	138.0	127.7	127.3	123.2	123.8
Prices received by farmers, whole milk:										
Wholesale, per 100 lb.	Dollars	5.71	13.05	13.61	13.58	13.46	12.75	12.51	12.54	12.24
Sold directly to consumers	Cents per qt.	27.0	45.3	48.1	48.4	49.2	48.7	48.3	48.7	50.0

¹ For 1970, cows and heifers 2 years old and over. ² Comprises sales to plants and dealers, and retail sales by farmers direct to consumers. ³ Includes varieties not shown separately. Beginning 1980, includes full-skim. ⁴ Beginning 1986, excludes Limburger. ⁵ Includes partially creamed (low fat). ⁶ Includes dry skim milk for animal feed. ⁷ Includes animal but excludes modified whey production.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Production of Manufactured Dairy Products*, annual; and *Milk Production, Disposition, and Income*, annual.

NO. 1166. MILK COWS—NUMBER, PRODUCTION, AND VALUE, BY STATE: 1986 TO 1988

STATE	NUMBER ON FARMS ¹ (1,000)			MILK PRODUCED ON FARMS (mil. lb.)			VALUE OF PRODUCTION ² (mil. dol.)		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
U.S.³	10,813	10,329	10,239	143,381	142,557	145,527	18,058	17,997	17,947
CA	1,013	998	1,015	17,240	17,930	18,679	2,066	2,090	2,087
FL	179	177	182	2,157	2,209	2,350	349	345	357
ID	166	159	168	2,389	2,375	2,628	280	273	294
IL	221	212	206	2,741	2,775	2,805	343	350	342
IN	201	194	186	2,455	2,401	2,407	307	305	296
IA	335	302	307	3,879	3,644	3,766	465	441	444
KY	227	218	214	2,327	2,338	2,327	293	302	293
MI	379	361	350	5,404	5,248	5,228	682	663	650
MN	891	823	802	10,614	10,436	10,412	1,258	1,298	1,215
MO	227	222	224	2,930	2,940	3,000	360	365	366
NY	934	858	822	11,723	11,438	11,426	1,483	1,458	1,421
OH	383	370	368	4,936	4,815	4,835	620	614	583
PA	734	721	717	10,152	10,183	10,204	1,333	1,356	1,359
SD	156	148	146	1,722	1,718	1,752	200	201	201
TN	207	203	201	2,221	2,207	2,213	292	287	291
TX	323	329	349	4,089	4,300	4,865	560	593	647
VT	181	174	169	2,448	2,410	2,387	321	318	306
VA	155	145	143	2,151	2,019	2,000	280	273	266
WA	212	208	216	3,762	3,763	3,966	469	475	486
WI	1,853	1,795	1,763	24,500	24,800	25,400	2,980	3,014	3,040

¹ Average number during year. Represents cows and heifers that have calved, kept for milk; excluding heifers not yet fresh. ² Valued at average returns per 100 pounds of milk in combined marketings of milk and cream. Includes value of milk fed to calves. ³ Includes other States not shown separately.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Milk Production, Disposition, and Income*, annual.

NO. 1167. POULTRY—NUMBER ON FARMS, VALUE, PRODUCTION, AND PRICES: 1970 TO 1988

[For year ending November 30, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 609-623]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Chickens: ¹ Number ²	Million	433	380	392	385	379	365	374	369	369	378	355
Value per head ²	Dollars	1.21	1.74	1.88	1.89	1.85	1.96	2.02	1.90	1.87	1.87	2.04
Value, total ²	Mil. dol.	525	660	737	728	703	717	754	700	691	706	725
Number sold ³	Million	264	233	241	242	246	232	242	220	216	218	224
Price per lb. ³	Cents	9.1	9.9	11.0	11.1	10.3	12.7	15.9	14.8	12.5	11.0	9.2
Value of sales ³	Mil. dol.	107	105	129	135	121	145	181	152	128	112	96
Broilers: ⁴ Number produced	Million	2,987	2,950	3,963	4,148	4,149	4,184	4,282	4,479	4,646	5,003	5,186
Value per lb.	Cents	13.6	26.3	27.7	28.4	26.9	28.6	33.7	30.1	34.5	28.7	33.1
Production value	Mil. dol.	1,475	2,915	4,303	4,699	4,502	4,873	6,018	5,680	6,780	6,176	7,363
Turkeys: Number raised	Million	116	124	165	171	165	171	171	185	207	240	242
Price per lb.	Cents	22.6	34.8	41.3	38.2	39.5	38.0	48.9	48.2	47.1	34.8	38.6
Gross income	Mil. dol.	498	793	1,272	1,248	1,255	1,269	1,655	1,819	1,948	1,703	1,955

¹ Excludes commercial broilers. ² As of Dec. 1. ³ 1970-1984, represents number produced and production value. ⁴ Young chickens of the heavy breeds and other meat-type birds, to be marketed at 2-5 lbs. live weight and from which no pullets are kept for egg production. Not included in sales of chickens.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Hatchery Production—Annual; Poultry—Production and Value; Turkeys; and Layers and Egg Production*.

NO. 1168. POULTRY—PRODUCTION, BY STATE: 1986 TO 1988

[In millions. See *Historical Statistics, Colonial Times to 1970*, series K 614 and 621 for U.S. totals]

STATE	BROILERS PRODUCED			TURKEYS RAISED			STATE	BROILERS PRODUCED			TURKEYS RAISED		
	1986	1987	1988	1986	1987	1988		1986	1987	1988	1986	1987	1988
U.S.	4,646	5,003	5,186	207	240	242	MN	29.7	31.7	33.1	34.2	40.5	38.5
AL	587.6	666.5	702.8	(z)	(z)	(z)	MS	335.7	343.4	361.0	(z)	(z)	(z)
AR	786.8	878.6	896.8	16.5	18.0	18.0	MO	(d)	(d)	(d)	13.5	15.5	16.5
CA	184.8	196.1	212.2	21.9	25.5	26.5	NY	2.0	2.1	1.1	3	4	3
DE	196.8	209.8	217.5	(z)	(z)	(z)	NC	450.5	477.7	500.1	39.1	48.4	47.9
FL	111.9	117.0	123.2	(z)	(z)	(z)	OH	9.9	11.0	12.0	3.1	3.4	3.6
GA	697.4	733.4	722.8	2.4	2.4	2.4	OK	79.5	90.6	120.9	(d)	(d)	(d)
IL	(z)	(z)	(z)	3	7	1.7	OR	15.8	17.0	17.3	1.5	1.6	1.7
IN	(d)	(d)	(d)	9.4	13.0	12.9	PA	101.9	115.6	126.9	7.8	8.0	7.9
IA	2.7	2.6	3.0	7.0	8.5	7.8	SC	63.8	68.1	70.8	3.9	4.0	5.6
KY	3.0	2.9	2.7	(z)	(z)	(z)	TN	82.5	92.5	87.0	(z)	(z)	(z)
ME	(d)	(d)	(d)	(z)	(z)	(z)	TX	238.6	259.0	266.3	(d)	(d)	(d)
MD	263.9	264.2	252.4	(d)	(d)	(d)	VA	154.2	154.0	175.7	14.3	16.2	16.3
MA	(z)	(z)	(z)	1	1	2	WA	25.1	26.2	28.2	(z)	(z)	(z)
MI	.6	.7	.8	2.7	3.0	3.0	WV	29.0	32.8	35.2	2.2	2.4	2.3
							WI	11.6	13.2	13.1	6.1	5.5	(d)
							Other ¹	181.0	196.2	203.5	20.9	22.7	28.9

D Withheld to avoid disclosure. Z Less than 500,000 broilers or 50,000 turkeys. ¹ Derived by subtracting printed estimates from U.S. total.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Poultry—Production and Value; and Turkeys*, annual.

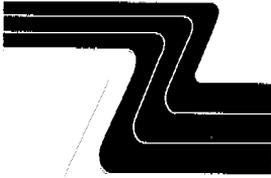
NO. 1169. EGG PRODUCTION, SUPPLY, AND USE: 1980 TO 1988

[In millions of dozens, except as indicated]

YEAR	PRODUCTION ¹			SUPPLY			USE			
	Number produced	Price per dozen (cents)	Production value (mil. dol.)	Total ²	Production	Imports	Total	Consumption	Hatching use	Exports ³
1980	5,807	56.3	3,268	5,830	5,806	5	5,812	5,146	499	167
1983	5,681	61.1	3,469	5,703	5,659	23	5,694	5,081	500	112
1984	5,686	72.3	4,110	5,750	5,708	32	5,739	5,123	530	86
1985	5,701	57.1	3,253	5,712	5,688	13	5,701	5,052	548	101
1986	5,700	61.6	3,510	5,726	5,705	14	5,719	5,023	567	130
1987	5,796	54.9	3,177	5,618	5,802	6	5,779	5,069	589	111
1988	5,808	52.8	3,059	5,791	5,771	5	5,750	5,004	604	142

¹ For year ending November 30. ² Includes beginning stocks, not shown separately. ³ Includes shipments to territories.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Layers and Egg Production—Annual; and Economic Research Service, Agricultural Outlook*, monthly.



Section 24

Forests and Fisheries

This section 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. In addition, data are presented on commercial fishing and the fish processing industry.

The principal sources of data relating to forests and forest products are: *An Analysis of the Timber Situation in the United States, 1989–2040, Part I: The Current Resource and Use Situation, and Part II: The Future Resource Situation*, forthcoming; *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950–87*; and *Land Areas of the National Forest System*, issued annually by the Forest Service of the Department of Agriculture; *Agricultural Statistics* issued by the Department of Agriculture; and reports of the census of manufactures (taken every five years) and the annual *Current Industrial Reports*, issued by the Bureau of the Census. 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 Statistics of Paper, Paperboard, and Wood Pulp* of the American Paper Institute, New York, NY.

The Bureau of the Census also collects data on foreign trade of forest products. The Bureau of Labor Statistics publishes monthly and annual statistics of producer prices for lumber.

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 which 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 veneer and plywood, etc., than for the primary forest products such as poles and piling and fuelwood.

The principal sources of data relating to fisheries are *Fishery Statistics of the United States*, and *Fisheries of the United States*, both 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, freezings and holdings of fishery products, fish meal and oil production, and foreign trade in fishery products. Quarterly data are published on U.S. output of fish sticks, fish portions, and breaded shrimp. Annual reports include quantity and value of commercial landings of fish and shellfish (by species, region, State, and type of fishing gear), disposition of landings, number of fishermen, and number and kinds of fishing vessels and fishing gear. Reports for the fish-processing industry include annual output of canned, packaged, and industrial products and, for the wholesaling and fish processing establishments, annual and seasonal employment, and number of firms, by product and State.

The Magnuson Fishery Conservation and Management Act of 1976 (Magnuson Act), Public Law 94-265 as amended, provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ), except highly migratory species of tuna, and gives the Federal Government exclusive authority over domestic and foreign fisheries within 200 nautical miles of U.S. shores and over certain living marine resources beyond the EEZ. Within the EEZ, the total allowable level of foreign fishing, if any, is that portion of the "optimum yield" not harvested by U.S. vessels. Adjustments in the "optimum yield" level may occur periodically. For details, see *Fisheries of the United States, 1988*. The NMFS collects and disseminates data on catches by foreign fishing vessels in the EEZ.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

NO. 1170. NATIONAL FOREST SYSTEM LAND AND PURCHASES: 1960 TO 1988

[Area as of June 30 except, beginning 1980, as of Sept. 30; purchases for years ending June 30, except as noted. Includes Puerto Rico. Prior to Oct. 1976, lands to be purchased under the Weeks Law and related acts were approved by the National Forest Reservation Commission which also set prices on such lands. With the passage of the National Forest Management Act, all functions of the Commission were transferred to the Secretary of Agriculture. Actual purchases are made by U.S. Department of Agriculture. See also *Historical Statistics, Colonial Times to 1970*, series L 10-14]

ITEM	Unit	1960	1970	1975	1980	1983	1984	1985	1986	1987	1988
Gross area ¹	Mil. acres.....	227	226	226	226	230	230	230	230	230	230
National forest system ²	Mil. acres ²	186	187	188	187	191	191	191	191	191	191
Approved for purchase.....	1,000 acres.....	8	92	12	42	7	8	16	23	37	42
Average price per acre.....	Dollars.....	15	125	275	664	332	544	431	308	437	561
Total price.....	Mil. dol.....	1	113	33	27.9	2.4	4.2	6.9	7.0	38.0	13.0
Purchases completed.....	1,000 acres.....	8	113	34	27	31	35	7	33	53	18
Average price per acre.....	Dollars.....	31	96	267	617	330	407	653	295	360	153
Total price.....	Mil. dol.....	2	10.9	9.1	17.1	10.0	14.0	4.2	9.8	19.0	7.2
Gross area of purchase units.....	Mil. acres.....	56	56	56	56	58	58	58	58	58	58
Purchase completed, net area ³	Mil. acres.....	19	20	20	20	20	20	20	20	20	20
Average price per acre.....	Dollars.....	4	6	9	12	15	15	15	16	17	17
Total price.....	Mil. dol.....	75	125	179	250	294	298	305	314	333	340

¹ Comprises all publicly and privately owned land within authorized boundaries of National forests, Purchase units, National grasslands, Land utilization projects, Research and experimental areas, and Other areas. ² Federally owned land within the "Gross area." ³ Cumulative total. Under the March 1, 1911 Act of Congress (Weeks Law), as amended, and related acts.

Source: U.S. National Forest Reservation Commission, *Final Report to October 1976*; and U.S. Forest Service, *Land Areas of the National Forest System*, annual; and unpublished data.

NO. 1171. NATIONAL FOREST SYSTEM—SUMMARY: 1970 TO 1988

[For fiscal years ending in year shown; see text, section 9. Includes Alaska and Puerto Rico, except as noted. See *Historical Statistics, Colonial Times to 1970*, series J 33-34, for similar but not comparable grazing data, and L 15-31]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988
Timber cut, total value.....	Mil. dol.....	308.6	736.6	728.9	348.7	655.9	763.9	724.5	789.9	1,019.0	1,238.9
Commercial and cost sales: ¹											
Volume.....	Mil. bd. ft.....	11,527	9,178	8,036	6,747	9,244	10,549	10,941	11,786	12,712	12,596
Value.....	Mil. dol.....	307.6	729.8	720.9	339.2	649.7	759.6	720.6	786.9	1,016.0	1,235.7
Free use:											
Volume.....	Mil. bd. ft.....	179	2,070	2,107	2,343	1,071	570	399	308	209	223
Value ²	Mil. dol.....	3	5.7	6.4	7.5	4.5	2.8	2.2	1.4	1.1	1.2
Misc. forest products:											
Value.....	Mil. dol.....	.7	1.1	1.6	2.0	1.7	1.7	1.7	1.6	1.9	2.0
Livestock grazing: ³											
Cattle and horses ⁴	1,000.....	1,607	1,521	1,535	1,562	1,609	1,521	1,545	1,491	1,410	1,387
Sheep and goats.....	1,000.....	2,105	1,328	1,341	1,340	1,242	1,129	1,183	1,168	1,134	1,051
Roads and trails:											
Road construction ⁵	Miles.....	942	925	1,217	1,867	2,016	1,667	1,903	1,252	2,394	1,352
Trail construction ⁶	Miles.....	276	2,419	727	782	959	874	987	1,092	1,046	1,834
Receipts, total.....	Mil. dol.....	299.7	702.9	680.7	350.2	495.3	637.3	635.9	831.8	898.4	980.2
Timber use.....	Mil. dol.....	283.9	625.4	581.4	251.0	398.5	544.3	514.6	745.1	807.9	888.4
Grazing use.....	Mil. dol.....	4.4	15.8	14.9	12.4	10.2	9.6	9.0	8.6	8.1	8.7
Special land use, etc.....	Mil. dol.....	11.4	61.6	84.4	86.8	86.6	83.5	112.3	78.0	82.3	83.1
Payments to local govt. ⁷	Mil. dol.....	72.8	240.1	243.0	144.3	203.5	235.3	229.0	270.9	295.4	325.5
25-percent fund ⁸	Mil. dol.....	71.9	233.6	230.5	132.6	192.7	224.9	212.2	262.1	285.3	317.3
Other ⁹	Mil. dol.....	.9	6.5	12.5	11.7	10.8	10.4	16.8	8.8	10.1	8.2
Allotments to Forest											
Service, total ¹⁰	Mil. dol.....	29.5	73.1	68.2	35.2	49.0	62.3	60.0	82.1	88.1	97.0
Roads and trails.....	Mil. dol.....	28.8	65.5	60.9	29.4	44.5	58.0	55.5	78.0	83.9	92.4
Other.....	Mil. dol.....	.8	7.6	7.3	5.8	4.5	4.3	4.5	4.1	4.2	4.6

¹ Includes land exchanges. ² Includes some free use timber not reducible to board feet. ³ For 1970, data for livestock permitted to graze; 1980-1988 for number actually grazed. Calendar-year data, prior to 1980. Excludes Puerto Rico. ⁴ Excludes animals under 6 months of age. 1970 includes swine. Includes burros beginning in 1980. ⁵ Includes reconstruction. ⁶ Beginning 1980, includes work accomplished by Human Resource Programs and volunteers. ⁷ Payments made in following year. ⁸ Includes Tongass Alaska suspense account. ⁹ Includes Arizona and New Mexico School Fund (through 1982), State of Minnesota, and receipts paid to counties under Bankhead-Jones Farm Tenant Act. ¹⁰ For use in following year.

Source: U.S. Forest Service. In *Agricultural Statistics*, annual, and unpublished data.

NO. 1172. NATIONAL FOREST SYSTEM LAND—STATES AND OTHER AREAS: 1988

[In thousands of acres. As of Sept. 30. See also *Historical Statistics, Colonial Times to 1970*, series L 10-11]

STATE	Gross area within unit boundaries ¹	National forest system land ²	Other lands within unit boundaries	STATE OR OTHER AREA	Gross area within unit boundaries ¹	National forest system land ²	Other lands within unit boundaries
Total	230,206	190,613	39,593	NE.....	442	352	90
AL.....	1,275	650	625	NV.....	5,364	5,104	260
AK.....	24,233	22,484	1,749	NH.....	823	715	108
AZ.....	11,933	11,278	655	NY.....	10,384	9,326	1,058
AR.....	3,502	2,485	1,017	NC.....	13	13	-
CA.....	24,386	20,538	3,848	ND.....	3,165	1,221	1,944
CO.....	16,027	14,445	1,581	OH.....	1,106	1,106	(z)
CT.....	(z)	(z)	-	OK.....	833	187	646
FL.....	1,224	1,100	124	OR.....	461	296	165
GA.....	1,846	858	988	PA.....	17,494	15,626	1,869
HI.....	(z)	(z)	-	SC.....	743	512	231
ID.....	21,702	20,459	1,243	SD.....	1,376	605	770
IL.....	840	263	576	TN.....	2,342	1,997	345
IN.....	644	188	456	TX.....	1,212	626	586
KS.....	116	108	8	UT.....	1,994	753	1,241
KY.....	2,102	665	1,436	VT.....	9,128	8,041	1,087
LA.....	1,022	601	422	WA.....	630	326	303
ME.....	94	53	40	WV.....	3,226	1,639	1,587
MI.....	4,872	2,803	2,069	WI.....	10,049	9,150	899
MN.....	5,467	2,808	2,659	WY.....	1,861	1,021	840
MS.....	2,310	1,148	1,162		2,023	1,510	513
MO.....	3,082	1,473	1,608		9,704	9,255	449
MT.....	19,101	16,798	2,303	PR.....	56	28	28
				VI.....	(z)	(z)	-

- Represents zero. Z Less than 500 acres. ¹ Comprises all publicly and privately owned land within authorized boundaries of National forests, Purchase units, National grasslands, Land utilization projects, Research and experimental areas, and Other areas. ² Federally owned land within the "Gross area within unit boundaries."

Source: U.S. Forest Service, *Land Areas of the National Forest System*, annual.

NO. 1173. FOREST LAND—TOTAL AND TIMBERLAND AREA, VOLUME OF SAWTIMBER, AND GROWING STOCK: 1952 TO 1987

[As of Jan. 1. For composition of regions, see table 1170]

YEAR AND REGION	TIMBERLAND, OWNERSHIP ¹					SAWTIMBER, NET VOLUME ³		GROWING STOCK, NET VOLUME ⁴		
	Total forest land (mil. acres)	All ownerships (mil. acres)	Federal-ly owned or managed ² (mil. acres)	State, county, and municipal (mil. acres)	Private		Total (bil. bd. ft.)	Softwood (bil. bd. ft.)	Total (bil. cu. ft.)	Softwood (bil. cu. ft.)
					Total (mil. acres)	Per cent of total				
United States, 1952	664	509	125	27	356	70.0	2,520	2,089	610	430
North.....	209	158	13	18	127	80.0	231	62	106	28
South.....	197	205	15	3	187	91.4	411	198	143	59
West.....	258	146	97	6	42	29.1	1,878	1,829	361	343
United States, 1962	759	515	125	27	363	70.4	2,558	2,062	659	448
North.....	178	160	13	18	130	80.9	268	74	131	35
South.....	220	209	15	3	191	91.4	494	250	168	73
West.....	360	146	97	6	42	28.9	1,795	1,738	361	340
United States, 1970	754	504	122	29	354	70.2	2,587	2,035	694	458
North.....	186	158	13	18	127	80.5	305	87	148	40
South.....	212	203	15	3	185	90.9	569	302	191	87
West.....	355	143	94	7	42	29.2	1,713	1,646	355	331
United States, 1977	737	491	113	31	347	70.6	2,635	2,021	725	465
North.....	178	157	12	19	126	80.4	350	102	166	46
South.....	207	198	15	3	180	90.6	648	345	215	99
West.....	352	136	85	9	41	30.1	1,637	1,574	344	320
United States, 1987	731	483	103	34	347	71.8	2,829	2,032	756	451
North.....	170	158	13	19	126	79.6	471	133	190	49
South.....	203	195	16	4	176	89.9	757	380	238	104
West.....	358	130	74	11	45	34.9	1,601	1,519	327	298

¹ Timberland is forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. Areas qualifying as timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included.

² Includes Indian lands. ³ Sawtimber is timber suitable for sawing into lumber. 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 diameter, and hardwood trees must be at least 11.0-inches diameter at 4 1/2 feet above ground. International 1/4-inch rule. ⁴ Live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. Includes only trees 5.0-inches diameter or larger at 4 1/2 feet above ground.

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States: 1989-2040*, forthcoming.

NO. 1174. FOREST LAND—TOTAL AND TIMBERLAND AREA, VOLUME OF SAWTIMBER, AND GROWING STOCK, BY STATE: 1987

[As of January 1]

STATE	Total forest land (1,000 acres)	TIMBERLAND, OWNERSHIP ¹ (1,000 acres)				SAWTIMBER NET VOLUME ³		GROWING STOCK, NET VOLUME ⁴	
		Total	Federally owned or managed ²	State, county, municipal	Private	Total (mil. bd. ft.)	Softwood (mil. bd. ft.)	Total (mil. cu. ft.)	Softwood (mil. cu. ft.)
U.S.	731,377	483,319	102,631	33,722	346,966	2,829,270	2,031,612	755,935	450,881
North	169,701	158,215	12,986	19,246	126,003	471,013	132,538	190,420	48,312
Northeast	85,251	80,102	3,058	6,712	70,332	252,183	80,476	109,135	31,391
CT	1,815	1,778	16	230	1,530	7,602	1,464	2,707	414
DE	398	388	—	14	374	1,774	529	642	173
ME	17,713	17,174	194	419	16,561	46,846	32,859	22,448	14,510
MD	2,632	2,462	22	258	2,182	13,410	2,250	4,490	805
MA	3,097	3,010	40	434	2,536	11,597	5,719	4,729	1,689
NH	5,021	4,803	536	252	4,015	17,748	9,481	7,879	3,408
NJ	1,985	1,914	246	287	1,381	3,978	1,236	1,895	563
NY	18,775	15,798	123	1,092	14,583	49,412	14,017	20,089	4,935
PA	16,997	16,186	253	2,992	12,641	52,232	4,869	21,748	1,765
RI	399	368	7	75	286	916	187	428	59
VT	4,479	4,224	251	409	3,764	13,844	5,117	6,243	2,010
WV	11,942	11,799	1,070	250	10,479	32,824	2,754	15,637	1,060
North Central	80,221	74,584	8,832	12,385	53,367	207,088	45,255	77,905	16,009
IL	4,265	4,030	292	97	3,641	17,494	338	4,895	118
IN	4,439	4,296	329	206	3,761	19,217	617	5,216	201
IA	1,562	1,460	43	59	1,358	4,283	19	1,251	7
MI	18,220	17,364	2,542	3,768	11,054	52,491	18,442	20,972	6,558
MN	16,583	13,572	2,291	4,988	6,293	30,997	11,196	13,731	4,086
MO	12,523	11,995	1,390	267	10,338	21,310	2,073	7,935	601
OH	7,309	7,141	171	252	6,718	22,358	976	7,553	326
WI	15,319	14,726	1,774	2,748	10,204	38,938	11,594	16,412	4,112
Great Plains	4,229	3,529	1,076	149	2,304	11,742	6,807	3,380	1,912
KS	1,358	1,207	41	9	1,157	2,990	14	853	6
NE	722	537	98	26	473	1,944	759	489	177
ND	460	398	43	24	271	576	7	242	3
SD	1,690	1,447	954	90	403	6,232	6,027	1,796	1,726
South	203,485	195,384	16,017	3,666	175,701	757,162	380,139	238,034	103,798
Southeast	87,744	84,594	7,043	1,729	75,822	352,538	189,086	114,166	50,804
FL	16,721	15,238	1,583	583	13,072	40,532	25,677	13,836	8,735
GA	23,907	23,384	1,421	188	21,775	82,311	52,894	30,694	16,097
NC	18,891	18,358	1,418	412	16,528	91,879	38,949	28,951	11,240
SC	12,257	12,179	914	260	11,005	60,779	34,079	17,733	8,835
VA	15,968	15,455	1,707	286	13,442	67,037	17,467	22,842	5,897
South Central	115,741	110,790	8,974	1,937	99,879	404,624	211,053	123,868	52,994
AL	21,725	21,659	951	210	20,498	64,513	39,787	21,812	11,328
AR	16,987	16,673	2,659	352	13,662	64,508	35,701	19,241	8,586
KY	12,256	11,909	856	34	11,019	34,146	2,464	14,610	1,110
LA	13,883	13,872	833	498	12,541	70,736	45,446	18,992	10,552
MS	16,693	16,674	1,493	232	14,949	68,568	38,427	19,815	9,746
OK	7,283	4,749	510	122	4,117	6,688	3,680	2,219	998
TN	13,258	12,840	958	402	11,480	43,456	8,861	14,292	2,710
TX	13,656	12,414	714	87	11,613	52,009	36,887	12,887	7,964
West	358,191	129,720	73,648	10,810	45,262	1,601,095	1,518,935	327,481	297,771
Pacific Northwest	178,958	54,697	24,137	7,821	22,739	886,738	842,838	168,831	153,074
AK	129,045	15,763	4,958	4,642	6,163	176,144	168,317	41,260	37,051
OR	28,057	22,085	12,777	929	8,379	378,638	363,862	65,951	61,006
WA	21,856	16,849	6,402	2,250	8,197	333,954	310,659	61,620	55,017
Pacific Southwest	41,129	17,412	9,150	445	7,817	313,163	289,193	54,051	46,311
CA	39,381	16,712	9,150	107	7,455	311,967	289,175	53,771	46,307
HI	1,748	700	—	338	362	1,196	18	280	4
Rocky Mountains	138,104	57,611	40,361	2,544	14,706	399,196	386,904	104,599	98,386
AZ	19,384	3,789	3,734	12	43	30,379	29,102	6,316	5,980
CO	21,338	11,740	8,194	320	3,226	67,112	61,652	19,448	16,226
ID	21,818	14,534	10,348	1,087	3,099	140,565	139,582	32,591	32,088
MT	21,910	14,737	9,364	640	4,733	92,962	91,678	28,016	27,611
NV	8,928	221	106	3	112	2,097	2,059	419	390
NM	18,526	5,180	3,474	112	1,594	25,134	23,842	6,124	5,628
UT	16,234	3,078	2,344	167	567	16,072	14,631	4,794	3,913
WY	9,966	4,332	2,797	203	1,332	24,875	24,358	6,891	6,550

- Represents zero. ¹ Timberland is forest land that is producing or is capable of producing crops of industrial wood and not withdrawn from timber utilization by statute or administrative regulation. Areas qualifying as timberland have the capability of producing in excess of 20 cubic feet per acre per year of industrial wood in natural stands. Currently inaccessible and inoperable areas are included. ² Includes Indian lands. ³ Sawtimber is timber suitable for sawing into lumber. Live trees of commercial species containing at least one 12-foot sawlog or two noncontiguous 8-foot logs, and meeting regional specifications for tree form from defect. Softwood trees must be at least 9.0-inches diameter, and hardwood trees must be at least 11.0 diameter at 4 feet above ground. International 1/4-inch rule. ⁴ Live trees of commercial species meeting specified standards of quality or vigor. Cull trees are excluded. Includes only trees 5.0-inches diameter or larger at 4 1/2 feet above ground.

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States: 1989-2040*, forthcoming.

**NO. 1175. TIMBER-BASED INDUSTRIES—EMPLOYMENT AND AVERAGE HOURLY EARNINGS:
1970 TO 1988**

[Data for production workers. See also *Historical Statistics, Colonial Times to 1970*, series L 212-223]

SIC ¹ code	ITEM	EMPLOYEES (1,000)						EARNINGS (dollars)					
		1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
24	Lumber and wood products ²	554	578	584	597	620	637	2.96	6.55	8.22	8.34	8.40	8.61
241	Logging camps and contractors.....	(NA)	71	67	71	71	75	(NA)	8.64	10.92	10.82	10.68	10.84
242	Sawmills and planing mills.....	196	190	172	171	178	182	2.84	6.70	8.52	8.58	8.58	8.76
243	Millwork, plywood, and structural members.....	(NA)	164	190	202	216	221	(NA)	6.41	8.06	8.20	8.33	8.60
26	Paper and allied products.....	543	523	512	511	516	524	3.44	7.84	10.83	11.18	11.43	11.65
25	Furniture and fixtures.....	362	376	394	398	413	423	2.77	5.49	7.17	7.46	7.67	7.94

NA Not available. ¹ Standard Industrial Classification; see text, section 27. ² Includes other industries, not shown separately.

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

**NO. 1176. TIMBER PRODUCTS—PRODUCTION, FOREIGN TRADE, AND CONSUMPTION, BY TYPE OF
PRODUCT: 1970 TO 1987**

[In millions of cubic feet, roundwood equivalent. See also *Historical Statistics, Colonial Times to 1970*, series L 72-86]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Industrial roundwood:										
Domestic production ¹	11,105	10,575	12,120	11,150	10,910	12,065	12,725	12,515	13,845	14,575
Softwoods.....	8,635	8,380	9,290	8,515	8,450	9,285	9,790	9,690	10,595	11,305
Hardwoods.....	2,470	2,195	2,825	2,640	2,465	2,780	2,935	2,825	3,250	3,270
Imports.....	2,430	2,215	3,250	3,185	3,015	3,710	4,165	4,340	4,375	4,590
Exports.....	1,540	1,685	2,350	2,090	1,995	2,110	2,060	2,070	2,300	2,655
Consumption ²	11,995	11,105	13,020	12,225	11,930	13,665	14,830	14,790	15,920	16,510
Softwoods.....	9,425	8,875	10,345	9,685	9,575	10,975	11,965	11,980	12,735	13,350
Hardwoods.....	2,565	2,230	2,675	2,540	2,355	2,690	2,865	2,825	3,180	3,155
Lumber:										
Domestic production.....	5,215	4,890	5,300	4,780	4,635	5,370	5,770	5,665	6,545	6,990
Imports.....	955	930	1,540	1,490	1,460	1,915	2,130	2,345	2,285	2,380
Exports.....	195	255	395	380	320	360	340	305	385	515
Consumption.....	5,970	5,565	6,450	5,885	5,780	6,925	7,560	7,700	8,445	8,855
Plywood and veneer:										
Domestic production.....	1,020	1,165	1,175	1,180	1,135	1,365	1,400	1,420	1,555	1,560
Imports.....	170	170	120	140	115	160	145	165	180	180
Exports.....	15	70	45	70	50	65	45	40	65	80
Consumption.....	1,170	1,265	1,250	1,250	1,200	1,460	1,500	1,550	1,625	1,670
Pulp products:										
Domestic production.....	3,835	3,485	4,390	4,125	3,980	4,165	4,355	4,165	4,545	4,670
Imports.....	1,280	1,105	1,565	1,515	1,415	1,605	1,860	1,810	1,895	2,000
Exports.....	720	715	1,070	995	900	965	930	920	1,080	1,200
Consumption.....	4,400	3,875	4,885	4,645	4,495	4,805	5,290	5,055	5,360	5,475
Logs:										
Imports.....	25	15	25	20	20	30	30	20	15	15
Exports.....	465	455	560	425	550	565	600	655	620	705
Pulpwood chips, exports.....	145	195	275	220	175	155	145	145	150	160
Other industrial prod. ³ consumption.....	425	385	415	425	435	445	455	465	475	490
Fuelwood consumption.....	540	570	3,105	3,180	3,355	3,235	3,620	3,450	3,115	3,035

¹ Includes log exports. ² Includes log imports. ³ Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.

NO. 1177. TIMBER PRODUCTS—PER CAPITA CONSUMPTION: 1970 TO 1987

[Based on total population estimated as of July 1. See also *Historical Statistics, Colonial Times to 1970*, series L 87-97]

PRODUCT	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
All products.....	Cu. ft.....	61.1	54.1	70.8	66.9	65.7	72.0	77.9	76.2	78.8	80.1
Industrial roundwood.....	Cu. ft.....	58.5	51.4	57.2	53.1	51.3	58.2	62.6	61.8	65.9	67.7
Lumber.....	Cu. ft.....	29.1	25.8	28.3	25.6	24.9	29.5	31.9	32.2	35.0	36.3
Plywood and veneer.....	Cu. ft.....	5.7	5.9	5.5	5.4	5.2	6.2	6.3	6.5	6.7	6.8
Pulp products.....	Cu. ft.....	21.4	17.9	21.4	20.2	19.3	20.5	22.3	21.1	22.2	22.4
Other products.....	Cu. ft.....	2.1	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0
Fuelwood.....	Cu. ft.....	2.6	2.6	13.6	13.8	14.4	13.8	15.3	14.4	12.9	12.4
Lumber.....	Bd. ft.....	193	171	188	169	161	190	205	207	224	233
Plywood and veneer.....	Bd. ft.....	34	32	30	29	28	34	34	35	37	37
Pulp products.....	Cords (128 cu. ft.).....	.3	.2	.3	.3	.2	.3	.3	.3	.3	.3

Source of tables 1176 and 1177: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-87*, annual.

No. 1178. LUMBER CONSUMPTION, BY SPECIES GROUP AND END USE: 1962 TO 1986

[In million board feet, except per capita in board feet. Per capita consumption based on estimated resident population as of July 1]

ITEM	1962	1970	1976	1986	END-USE	1962	1970	1976	1986
						1962	1970	1976	1986
Total	39,078	39,869	44,653	57,203	New housing	14,160	13,350	17,000	19,320
Per capita	210	194	205	237	Residential upkeep and improvements.....	4,330	4,980	6,260	9,930
Species group:					New non-residential construction ¹	4,200	4,700	4,470	5,310
Softwoods.....	30,773	31,959	36,627	47,094	Manufacturing.....	4,540	4,670	4,865	4,805
Hardwoods.....	8,305	7,910	8,026	10,109	Shipping.....	4,550	5,725	5,915	6,785
					Other ²	7,298	6,444	6,143	11,053

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

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States: 1989-2040*, forthcoming.

No. 1179. SELECTED TIMBER PRODUCTS—PRODUCER PRICE INDEXES: 1980 TO 1988

[See also *Historical Statistics, Colonial Times to 1970*, series L 206-210]

PRODUCT	Unit	1980	1985	1986	1987	1988
		1980	1985	1986	1987	1988
Lumber and wood products, except furniture.....	Dec. 1984 = 100..	(NA)	100.3	101.5	105.3	109.2
Logging camps and logging contractors.....	Dec. 1981 = 100..	(NA)	94.8	93.1	100.3	112.2
Sawmills and planing mills.....	Dec. 1984 = 100..	(NA)	99.7	100.7	106.7	110.3
Milwork, veneer, and plywood ¹	Dec. 1984 = 100..	(NA)	99.9	101.7	105.4	107.7
Softwood plywood.....	Dec. 1980 = 100..	91.4	90.0	91.5	93.8	93.1
Wood containers.....	June 1985 = 100..	(NA)	(NA)	100.4	101.3	103.8
Wood buildings and mobile homes.....	Dec. 1984 = 100..	(NA)	100.6	102.1	103.6	107.9
Particleboard.....	Dec. 1982 = 100..	91.6	110.0	111.8	120.3	124.6
Paper and allied products.....	Dec. 1984 = 100..	(NA)	98.8	99.5	104.8	113.7
Pulp mills.....	Dec. 1982 = 100..	105.5	109.9	103.1	117.0	141.6
Paper mill products except building paper.....	June 1981 = 100..	93.5	109.5	110.4	115.7	127.6
Paperboard mills.....	Dec. 1982 = 100..	97.3	112.0	113.1	126.5	141.7
Converted paper and paperboard products ²	Dec. 1984 = 100..	(NA)	100.3	101.8	104.9	112.0
Paperboard containers and boxes.....	Dec. 1984 = 100..	(NA)	98.4	97.3	104.2	111.7
Building paper and building board mills.....	Dec. 1985 = 100..	(NA)	(NA)	101.6	104.2	108.7

NA Not available. ¹ Includes structural wood members. ² Excludes containers and boxes.

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

No. 1180. SELECTED SPECIES—STUMPAGE PRICES IN CURRENT AND CONSTANT (1982) DOLLARS: 1970 TO 1988

[In dollars per 1,000 board feet. Stumpage prices are based on sales of sawtimber from National Forests. See also *Historical Statistics, Colonial Times to 1970*, series L 199-205]

SPECIES	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CURRENT DOLLARS												
Softwoods:												
Douglas-fir ¹	41.90	169.50	394.40	432.20	350.20	118.20	161.60	132.90	126.20	160.70	190.20	256.00
Southern pine ²	44.10	57.00	155.20	155.40	172.00	127.20	140.60	139.40	90.70	103.60	135.70	141.90
Sugar pine ³	38.50	99.20	365.00	666.60	225.20	71.90	137.70	84.30	109.70	169.60	287.60	260.40
Ponderosa pine ^{3 4}	32.10	71.20	239.00	206.10	195.20	66.90	104.00	122.70	101.40	156.60	209.30	182.10
Western hemlock ⁵	20.50	68.80	200.80	212.70	163.40	44.50	62.20	61.80	50.50	74.70	105.40	162.90
Hardwoods:												
All eastern hardwoods ⁶	26.90	33.90	46.80	52.40	50.90	56.40	60.10	90.10	65.40	69.90	88.10	151.30
Oak, white, red, and black ⁶	26.60	29.70	66.80	65.60	63.20	70.80	87.90	145.00	94.50	108.10	146.80	146.30
Maple, sugar ⁷	(NA)	42.10	68.90	70.10	67.80	71.10	55.10	80.50	70.00	66.20	80.50	108.40
CONSTANT (1982) DOLLARS ⁸												
Softwoods:												
Douglas-fir ¹	113.60	290.20	501.10	481.30	357.30	118.20	159.50	128.20	122.30	160.40	185.00	239.50
Southern pine ²	119.50	97.60	197.20	173.10	175.50	127.20	138.80	134.40	87.90	103.40	132.00	132.70
Sugar pine ³	104.30	169.80	463.80	742.30	229.80	71.90	135.90	81.30	106.30	169.30	279.80	243.60
Ponderosa pine ^{3 4}	87.00	121.90	303.70	229.50	199.20	66.90	102.70	118.30	98.30	158.30	203.60	170.90
Western hemlock ⁵	55.60	117.80	255.10	236.90	166.70	44.50	61.40	59.60	48.90	74.60	102.50	152.40
Hardwoods:												
All eastern hardwoods ⁶	72.90	58.00	59.50	58.40	51.90	56.40	59.30	86.90	63.40	69.80	85.70	141.50
Oak, white, red, and black ⁶	72.10	50.90	87.40	73.10	64.50	70.80	86.80	139.80	91.60	107.90	142.80	136.90
Maple, sugar ⁷	(NA)	72.10	87.50	78.10	69.20	71.10	54.40	77.60	67.80	66.10	78.30	101.40

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

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88*, annual, forthcoming.

No. 1181. LUMBER PRODUCTION AND CONSUMPTION, BY KIND OF WOOD: 1970 to 1988

[In millions of board feet, except as indicated. Based on sample survey; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1970*, series L 98-112 and L 122-137]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total production	34,668	32,619	35,354	31,672	30,010	34,572	37,065	36,445	41,999	44,893	
Softwoods ^{1 2}	27,530	26,747	28,239	25,420	24,949	28,927	30,801	30,479	34,815	37,422	
Cedar.....	633	821	722	757	470	744	752	759	860	920	
Douglas fir.....	7,727	7,329	6,853	5,868	4,842	6,434	7,809	7,751	9,800	10,406	
Hemlock.....	1,980	2,020	1,855	1,501	1,284	1,316	(NA)	(NA)	(NA)	(NA)	
Ponderosa pine.....	3,429	3,544	3,269	2,894	2,350	2,869	3,679	3,773	3,967	4,123	
Redwood.....	1,078	1,054	770	730	760	852	999	1,155	984	1,157	
Southern yellow pine ³	7,063	6,967	8,217	8,415	8,754	10,181	10,648	10,230	11,443	12,068	
White fir.....	2,063	2,012	1,643	1,253	974	1,316	2,017	2,272	2,659	2,891	
White pine.....	898	947	(s)	502	272	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Hardwoods ^{1 2}	7,138	5,872	7,115	6,252	5,061	5,644	6,264	5,966	7,184	7,471	(NA)
Ash.....	159	124	(s)	130	122	224	219	218	257	265	42
Beech.....	188	136	183	95	86	112	111	89	125	116	
Cottonwood and aspen.....	229	253	303	155	105	197	133	216	247	239	
Elm.....	155	117	149	77	57	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Maple.....	742	531	³ 225	426	367	524	538	532	587	635	
Oak.....	3,250	2,724	3,356	1,922	1,855	2,163	2,786	2,793	3,410	3,667	
Sweet gum ⁴	376	245	371	231	193						
Tupelo and black gum.....	335	251	(s)	79	64	278	300	293	375	329	
Yellow poplar.....	606	555	661	409	399	475	569	544	724	800	
Domestic consumption ⁵	38,073	36,100	44,536	42,555	39,240	48,674	52,661	53,466	57,448	61,754	57,662
Percent net imports ⁶	12.7	12.2	16.6	16.8	18.7	18.5	21.8	24.4	21.2	19.4	16.8
Softwoods.....	31,959	30,466	33,812	32,049	31,168	39,611	42,832	44,240	47,492	50,558	47,341
Per capita (bd. ft.) ⁷	157	141	149	140	134	169	181	185	197	208	193
Mill stocks, yearend.....	4,340	4,063	4,228	4,167	4,270	4,606	4,594	4,765	4,905	4,840	4,945
Exports.....	1,152	1,373	1,956	1,878	1,630	1,745	1,599	1,515	1,877	2,423	3,264
Imports.....	5,769	5,711	9,540	9,205	9,119	11,977	13,270	14,608	14,238	14,680	13,806
Hardwoods.....	7,910	7,343	10,724	10,508	8,072	9,063	9,829	9,228	9,956	11,196	10,321
Per capita (bd. ft.) ⁷	39	34	47	46	35	39	42	39	41	46	42
Mill stocks, yearend.....	1,144	875	1,572	1,727	1,539	1,934	1,561	1,719	1,636	(NA)	(NA)
Exports.....	138	165	379	406	356	478	467	397	498	775	1,232
Imports.....	347	224	293	291	211	261	328	364	347	511	390

NA Not available. S Figure does not meet publication standards. ¹ Includes types not shown separately. ² Beginning 1986, data not directly comparable to previous years due to inclusion of 200 sawmills in the survey for the first time; see source. ³ Excludes hard maple. ⁴ Red and sap. ⁵ Source: 1970, Copeland Economics Group, Inc., Stamford, CT; thereafter, National Forest Products Association, Washington, DC. *The Statistical Roundup*, quarterly edition (copyright). ⁶ Imports minus exports. ⁷ Based on estimated resident population as of July 1.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

No. 1182. LUMBER PRODUCTION, BY GEOGRAPHIC AREA: 1970 to 1987

[In billion board feet. Data based in part on a sample of sawmills and are subject to sampling variability; see source. For composition of divisions, see fig. 1, inside front cover. See *Historical Statistics, Colonial Times to 1970*, series L 113-121, for data by regions]

SECTION AND DIVISION	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
United States	34.7	32.6	¹ 38.4	¹ 40.5	¹ 40.6	¹ 35.4	¹ 31.7	30.0	34.6	37.1	36.4	42.0	44.9
North ^{2 3}	4.4	4.1	(NA)	(NA)	(NA)	(NA)	(NA)	3.8	4.3	4.5	4.2	4.9	5.3
Hardwood.....	3.4	3.0	(NA)	(NA)	(NA)	(NA)	(NA)	2.7	3.0	3.3	3.0	3.6	3.8
Softwood.....	1.0	1.1	(NA)	(NA)	(NA)	(NA)	(NA)	1.1	1.3	1.2	1.2	1.4	1.5
South ²	10.8	9.7	(NA)	(NA)	(NA)	(NA)	(NA)	10.8	12.7	13.4	13.0	15.1	15.7
Hardwood.....	3.6	2.7	(NA)	(NA)	(NA)	(NA)	(NA)	2.0	2.4	2.8	2.7	3.4	3.4
Softwood.....	7.2	7.0	(NA)	(NA)	(NA)	(NA)	(NA)	8.8	10.3	10.7	10.2	11.7	12.3
West ²	19.4	18.8	21.8	21.7	21.1	17.2	(NA)	15.4	17.6	19.1	19.3	22.0	23.9
Hardwood.....	1	1	2	2	2	3	(NA)	2	2	2	2	2	3
Softwood.....	19.3	18.6	21.6	21.4	20.9	16.9	(NA)	15.1	17.4	19.0	19.1	21.7	23.6
New England.....	.7	.8	.9	1.0	1.0	1.1	.7	1.0	1.2	1.1	1.1	1.2	1.3
Middle Atlantic.....	.8	.7	.9	.9	.9	.9	.5	.8	.8	.8	.7	.9	.9
East North Central.....	1.2	1.1	1.3	1.4	1.4	1.3	1.0	1.1	1.2	1.3	1.3	1.5	1.6
West North Central.....	.6	.5	.6	.7	.6	.6	.2	.3	.4	.4	.6	.7	.8
South Atlantic.....	5.2	4.7	5.3	5.4	5.8	5.2	4.4	5.4	6.5	6.7	6.4	7.4	7.7
East South Central.....	3.4	3.0	3.6	3.7	3.6	3.2	2.8	3.2	3.8	4.2	4.1	5.0	5.3
West South Central.....	3.2	3.0	3.5	3.6	3.2	2.9	2.3	2.6	3.1	3.3	3.1	3.4	3.7
Mountain.....	4.2	3.9	4.7	4.7	4.5	3.8	3.3	3.3	3.8	4.4	4.3	4.6	4.8
Pacific.....	15.3	14.8	17.1	17.0	16.6	13.4	11.2	12.2	13.6	14.8	14.8	17.0	23.7

NA Not available. ¹ Includes amounts not specified by division. ² Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-87*, annual. Sections are as defined by the Forest Service. ³ Includes Kentucky.

Source: Except as noted, U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

NO. 1183. WOOD PRODUCTS—PRODUCTION: 1970 TO 1988

ITEM	Unit	Year											
		1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.	
Hardwood flooring.....	Mil. bd. ft.	307	99	78	83	75	98	110	122	145	174	193	
Softwood plywood.....	Bil. sq. ft., % basis	14.1	15.1	15.5	15.5	15.1	18.3	18.9	19.3	20.4	21.1	20.9	
Insulation boards ²	1,000 short tons	1,219	1,249	1,051	845	593	713	785	735	732	3,688	1,654	
Hardboard ²	Mil. sq. ft., 3/4" basis	4,340	5,681	6,140	6,104	5,587	7,303	6,837	6,300	5,822	5,458	5,118	
Particleboard.....	Mil. sq. ft., 3/4" basis	1,731	2,503	2,950	2,869	2,393	3,009	3,196	3,331	3,603	3,706	3,829	

¹ Estimated. ² Beginning 1982, data are for shipments.

Source: U.S. Dept. of Commerce, International Trade Administration, *Forest Products Review*, monthly (discontinued April 1983); and unpublished data. Based on reports of U.S. Bureau of the Census, National Oak Flooring Manufacturers Association and National Particleboard Association.

NO. 1184. PAPER AND PAPERBOARD—PRODUCTION AND CONSUMPTION: 1970 TO 1988

[In millions of short tons. See also *Historical Statistics, Colonial Times to 1970*, series L 172, L 174, and L 178-191]

ITEM	PRODUCTION						CONSUMPTION ¹					
	1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
Total paper and paperboard.....	51.7	63.5	68.7	72.7	75.0	78.1	56.0	67.2	76.1	79.7	83.6	85.8
Paper: Newspaper.....	3.5	4.7	5.4	5.6	5.8	6.0	9.8	11.4	12.8	13.0	13.7	13.7
Coated printing, converting.....	3.2	4.6	5.9	6.3	6.9	7.4	3.2	4.6	6.3	6.7	7.4	8.1
Uncoated free sheet.....	5.1	8.0	9.7	10.4	11.0	11.3	5.1	8.0	10.0	10.8	11.3	11.8
Other printing, writing, etc.....	2.6	2.9	2.9	3.0	3.0	3.2	2.8	3.5	4.3	4.5	4.7	5.0
Packaging and industrial converting.....	5.3	5.5	5.2	5.1	5.1	5.2	5.1	5.2	5.1	5.1	5.1	5.2
Tissue and other machine creped.....	3.7	4.4	4.9	5.1	5.3	5.5	3.7	4.4	5.0	5.1	5.3	5.5
Paperboard: Unbleached kraft.....	11.5	15.3	16.4	17.7	18.9	19.1	9.9	13.0	14.6	15.6	16.7	16.9
Bleached kraft.....	3.3	3.9	3.9	4.2	4.4	4.5	3.2	3.9	3.4	3.6	3.8	3.9
Semichemical.....	3.5	4.7	5.1	5.4	5.5	5.7	3.4	4.4	5.0	5.3	5.5	5.7
Recycled finish.....	7.0	7.1	7.6	8.1	8.6	8.8	7.0	7.0	7.6	8.1	8.7	8.8
Construction paper and board².....	3.0	2.6	³ 1.7	³ 1.6	³ 1.6	³ 1.6	3.0	3.0	³ 2.0	³ 1.8	³ 1.8	³ 1.8

¹ Total consumption of paper and paperboard includes net imports of paper and paperboard converted products; not available by grade. ² Source: 1970-1980 U.S. Bureau of the Census, *Current Industrial Reports*. Includes wet machine board, approximately 100,000-160,000 tons per year. ³ Estimated.

Source: Except as noted, American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual.

NO. 1185. NEWSPRINT—PRODUCTION, STOCKS, CONSUMPTION, IMPORTS, AND PRICE INDEX: 1970 TO 1988

[In thousands of metric tons, except price index and imports (imports shown in short tons). See also *Historical Statistics, Colonial Times to 1970*, series L 192-198]

COUNTRY AND ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Canada: Production.....	7,808	6,966	8,625	8,950	8,109	8,486	9,013	8,988	9,289	9,669	9,969
Shipments from mills.....	7,795	7,010	8,622	8,915	8,054	8,439	9,018	8,996	9,302	9,757	9,867
Stocks at mills, end of year.....	214	86	165	194	256	303	298	290	277	189	291
United States: Estimated consumption ¹	8,805	8,395	10,068	10,164	10,107	10,589	11,431	11,587	11,937	12,322	12,336
Production.....	3,142	3,348	4,239	4,752	4,574	4,688	5,025	4,924	5,107	5,300	5,427
Shipments from mills.....	3,136	3,347	4,234	4,735	4,526	4,674	5,065	4,927	5,115	5,310	5,415
Stocks, end of year: At mills.....	30	19	21	38	86	99	60	57	49	36	48
At and in transit to publishers.....	680	666	732	961	854	790	874	910	849	900	932
Imports ²	6,635	5,847	7,280	6,978	6,531	6,919	7,899	8,472	8,589	8,978	8,592
Producer price index (1982=100).....	34.1	58.3	³ 88.5	³ 97.5	100.0	95.9	102.3	105.3	103.3	112.3	127.6

¹ By all users. Based on American Paper Institute data. ² Source: Reports of U.S. Bureau of the Census. Includes Puerto Rico and beginning 1981, Virgin Islands. ³ Average for 11 months.

Source: Except as noted, U.S. Bureau of Economic Analysis, *Survey of Current Business*, monthly. Data from American Paper Institute, Inc., New York, NY, and Canadian Pulp & Paper Association.

NO. 1186. WASTEPAPER UTILIZATION AND RECOVERY RATES: 1970 TO 1988

[In millions of short tons, except percent. Recovery rate is ratio of total wastepaper recovered to new supply. Wastepaper utilization is the ratio of wastepaper consumption at paper and board mills to paper and board production. See *Historical Statistics, Colonial Times to 1970*, series L 175, for U.S. wastepaper consumption]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Paper and board, production ¹	51.7	51.0	63.5	64.3	61.0	66.8	70.3	68.7	72.5	76.0	78.1
Wastepaper consumption.....	11.8	11.7	14.9	15.0	14.4	15.6	16.7	16.4	17.9	18.7	19.6
Wastepaper utilization rate (percent).....	22.8	23.0	23.4	23.4	23.7	24.4	23.8	23.8	24.7	24.6	25.0
Other wastepaper uses ².....	.42	.54	.47	.48	.49	.48	.46	.48	.49	.51	.51
Wastepaper exports.....	.41	.86	2.86	2.21	2.13	2.57	3.24	3.29	3.75	4.42	5.94
Total wastepaper recovered.....	12.6	13.1	16.0	17.7	17.0	18.6	20.3	20.0	22.1	23.5	25.5
Paper and board, new supply ³	56.0	54.1	67.2	68.9	64.7	71.2	77.0	78.1	79.7	83.6	85.6
Recovery rate (percent).....	22.4	24.2	26.8	26.0	26.2	26.1	26.4	26.3	27.7	28.1	29.9

¹ Excludes hard pressed board; includes construction paper and board, and wet machine board. ² Estimated. ³ Excludes production of hard pressed board.

Source: American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp*, annual, and unpublished data.

Wood Products—Timber Products Imports and Exports

677

NO. 1187. SELECTED WOOD PRODUCTS—PRODUCTION AND CONSUMPTION: 1970 TO 1987

[See also *Historical Statistics of the United States, Colonial Times to 1970*, series L 151-170]

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987
PULPWOOD										
Receipts, total.....	Mil. cords ¹	68.9	65.4	81.0	77.3	83.4	88.0	85.4	90.6	94.5
Softwood.....	Mil. cords ¹	52.4	49.3	60.2	56.4	59.8	62.9	60.2	63.3	65.6
Hardwood.....	Mil. cords ¹	16.5	16.2	20.8	20.9	23.6	25.2	25.1	27.3	28.7
Consumption, total.....	Mil. cords ¹	67.6	65.4	79.7	77.6	83.5	87.0	84.8	91.1	92.9
Softwood.....	Mil. cords ¹	51.3	48.9	58.8	56.4	59.9	62.0	59.7	63.1	64.7
Hardwood.....	Mil. cords ¹	16.3	16.5	20.9	21.1	23.6	24.9	25.1	28.1	28.3
Inventories ²	Mil. cords ¹	6.6	6.6	6.7	5.4	5.2	5.2	5.1	4.7	5.5
WOODPULP										
Production.....	Mil. short tons	43.9	43.1	53.0	51.0	54.1	57.8	57.7	60.6	62.4
Consumption, ³ total.....	Mil. short tons	43.2	42.4	52.4	50.2	54.0	57.5	56.6	60.0	61.5
Own pulp.....	Mil. short tons	38.9	38.5	46.6	44.6	47.7	50.3	49.7	52.6	53.9
Purchased pulp.....	Mil. short tons	4.3	3.9	5.9	5.6	6.3	7.2	7.0	7.5	7.6
PLYWOOD										
Softwood:										
Production.....	Mil. sq. ft. ⁴	14,149	15,706	15,483	15,134	18,281	18,865	19,341	20,363	21,052
Consumption, total.....	Mil. sq. ft. ⁴	(NA)	(NA)	15,145	14,741	17,737	18,526	19,122	19,880	20,469
Value.....	Mil. dol.	949	(NA)	2,582	2,177	2,877	2,995	3,080	3,237	3,296
Hardwood:										
Production.....	Mil. sq. ft. ⁵	1,904	1,280	1,311	1,163	1,248	1,185	1,016	1,088	1,173
Consumption, total.....	Mil. sq. ft. ⁵	5,772	4,970	3,416	3,173	4,324	3,831	4,311	4,884	5,090
Value.....	Mil. dol.	516	586	977	920	1,131	1,199	1,192	1,320	1,579

NA Not available. ¹ Standard cords. 128 cubic feet roughwood bases. ² As of Dec. 31. ³ In the manufacture of paper and board. ⁴ % basis. ⁵ Surface measure.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA26-A, MA24-H and MA24-F.

NO. 1188. SELECTED TIMBER PRODUCTS—IMPORTS AND EXPORTS: 1970 TO 1988

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
IMPORTS ¹											
Lumber, total ²	Mil. bd. ft.	6,114	9,866	9,523	9,360	12,254	13,632	14,996	14,619	15,234	14,231
From Canada.....	Percent	96.0	97.5	97.5	98.2	98.3	97.9	97.6	97.5	96.9	97.5
Softwoods.....	Mil. bd. ft.	5,778	9,573	9,232	9,150	11,993	13,304	14,632	14,272	14,723	13,841
Value.....	Mil. dol.	434	1,826	1,763	1,624	2,569	2,881	2,898	2,969	3,060	2,939
Hardwoods.....	Mil. bd. ft.	337	293	291	211	260	328	364	347	511	390
Value.....	Mil. dol.	62	152	154	104	134	173	180	168	273	239
Logs, total.....	Mil. bd. ft. ³	144	128	101	117	165	147	99	78	83	68
From Canada.....	Percent	79.6	97.4	98.3	98.6	97.9	97.4	81.8	77.9	91.6	91.9
Softwoods.....	Mil. bd. ft. ³	107	114	88	99	142	117	71	52	69	56
Value.....	Mil. dol.	9	17	23	24	15	7	7	7	19	15
Hardwoods.....	Mil. bd. ft. ³	38	13	14	18	23	30	28	26	14	12
Value.....	Mil. dol.	5	3	3	3	3	5	4	4	3	3
Paper and board ⁴	1,000 tons	7,115	8,780	8,339	8,024	8,986	11,075	11,522	11,936	12,837	13,110
Value.....	Mil. dol.	1,039	3,418	3,672	3,682	4,019	5,324	5,698	6,036	6,928	8,003
Woodpulp.....	1,000 tons	3,518	4,051	4,087	3,656	4,093	4,490	4,466	4,594	4,848	4,938
Value.....	Mil. dol.	483	1,684	1,764	1,493	1,472	1,845	1,521	1,606	2,069	2,608
Plywood.....	Mil. sq. ft.	4,171	2,477	3,047	2,270	3,393	3,056	3,609	3,941	4,094	3,358
Value.....	Mil. dol.	208	409	465	321	451	438	463	519	638	577
EXPORTS											
Lumber, total ²	Mil. bd. ft.	1,243	2,494	2,406	2,021	2,270	2,150	1,945	2,427	3,217	4,528
To: Canada.....	Percent	21.7	25.3	30.3	20.7	27.9	25.8	23.7	22.0	20.9	27.6
Japan.....	Percent	30.8	26.0		31.1	27.8	28.0	32.1	36.4	36.8	34.5
Europe.....	Percent	24.1	23.8	16.6	20.3	20.2	16.0	15.1	16.6	18.9	20.5
Softwoods.....	Mil. bd. ft.	1,115	2,007	1,928	1,635	1,756	1,624	1,518	1,878	2,424	3,266
Value.....	Mil. dol.	163	789	864	582	609	541	497	644	856	1,143
Hardwoods.....	Mil. bd. ft.	128	487	479	386	514	527	427	548	793	1,262
Value.....	Mil. dol.	31	272	269	229	305	300	263	350	493	683
Logs, total.....	Mil. bd. ft. ³	2,741	3,261	2,489	3,208	3,307	3,495	3,843	3,627	4,110	4,798
To: Canada.....	Percent	10.6	9.7	9.9	9.4	10.5	12.1	11.6	12.2	10.3	7.9
Japan.....	Percent	86.3	78.0	71.3	61.7	55.4	50.4	49.4	57.3	58.3	50.3
China, Mainland.....	Percent	(NA)	2.7	8.9	17.1	21.9	24.8	27.8	17.0	14.1	23.4
Softwoods.....	Mil. bd. ft. ³	2,672	3,109	2,377	3,115	3,196	3,369	3,732	3,488	3,980	4,594
Value.....	Mil. dol.	320	1,452	1,003	1,174	1,068	1,079	1,169	1,129	1,526	2,090
Hardwoods.....	Mil. bd. ft. ³	69	112	92	92	112	126	111	139	149	204
Value.....	Mil. dol.	36	129	92	84	98	101	91	97	118	180
Paper and board ⁴	1,000 tons	2,817	5,214	4,641	4,246	4,569	4,387	4,071	4,687	5,304	5,691
Value.....	Mil. dol.	602	2,773	2,891	2,589	2,481	2,552	2,266	2,540	3,104	3,753
Woodpulp.....	1,000 tons	3,095	3,806	3,678	3,395	3,644	3,594	3,796	4,459	4,869	5,528
Value.....	Mil. dol.	464	1,652	1,661	1,415	1,362	1,502	1,354	1,663	2,251	2,915
Plywood.....	Mil. sq. ft.	183	420	741	493	615	407	365	656	855	1,108
Value.....	Mil. dol.	16	108	178	117	143	94	86	145	194	250

NA Not available. ¹ Customs value of imports; see text, section 28. ² Includes railroad ties. ³ Log scale. ⁴ Includes paper and board products. Excludes hardboard.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics: 1960-88*, forthcoming.

NO. 1189. FISHERY PRODUCTS—DOMESTIC CATCH AND IMPORTS, SUMMARY: 1970 TO 1988

[Live weight, in millions of pounds, except percent. 1978–1988 preliminary. For data on commercial catch for selected countries, see table 1475, section 31. See *Historical Statistics, Colonial Times to 1970*, series L 224–226, for domestic catch]

ITEM	1970	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	11,474	11,509	11,831	11,357	11,353	12,011	12,352	12,552	15,150	14,368	15,744	14,628
For human food.....	6,213	8,135	8,251	8,006	8,267	7,968	8,413	8,498	9,337	9,620	10,561	10,505
Finfish.....	(NA)	6,263	6,324	6,139	6,316	6,090	6,358	6,303	6,991	7,087	7,919	7,786
Shellfish ¹	(NA)	1,872	1,927	1,867	1,951	1,878	2,055	2,195	2,346	2,533	2,642	2,719
For industrial use.....	5,261	3,374	3,580	3,351	3,086	4,043	3,939	4,054	5,813	4,748	5,183	4,123
Domestic catch	4,917	6,028	6,267	6,482	5,977	6,367	6,439	6,438	6,258	6,031	6,896	7,192
Percent of total.....	42.8	52.4	53.0	57.1	52.7	53.0	52.1	51.3	41.3	42.0	43.8	49.2
For human food.....	2,537	3,177	3,318	3,654	3,547	3,285	3,238	3,320	3,294	3,393	3,946	4,588
Finfish.....	(NA)	2,019	2,204	2,516	2,414	2,324	2,351	2,348	2,273	2,240	2,759	3,306
Shellfish ¹	(NA)	1,159	1,114	1,138	1,133	961	887	972	1,021	1,153	1,177	1,282
For industrial use.....	2,380	2,851	2,949	2,828	2,430	3,082	3,201	3,118	2,964	2,638	2,950	2,604
Imports ²	6,557	5,481	5,564	4,875	5,376	5,644	5,913	6,114	8,892	8,337	8,848	7,436
Percent of total.....	57.2	47.6	47.0	42.9	47.3	47.0	47.9	48.7	58.7	58.0	56.2	50.8
For human food.....	3,676	4,958	4,933	4,352	4,720	4,683	5,175	5,178	6,043	6,227	6,815	5,917
Finfish.....	(NA)	4,245	4,120	3,623	3,902	3,766	4,007	3,955	4,718	4,847	5,150	4,480
Shellfish ¹	(NA)	713	813	729	818	917	1,168	1,223	1,325	1,380	1,465	1,437
For industrial use ³	2,881	523	631	523	656	961	738	936	2,849	2,110	2,233	1,519

NA Not available. ¹ For univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.), the weight of meats, excluding the shell, is reported. ² Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. ³ Fish meal and sea herring.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

NO. 1190. FISHERIES—EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS: 1970 TO 1987

[In thousands. As of Dec. 31. 1978–1987 preliminary. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970*, series L 254–261]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Persons employed in U.S.	227	260	280	257	267	296	303	314	333	340	351	347	359
Fishermen.....	140	168	182	172	184	193	198	216	223	230	239	247	256
Shore workers ¹	87	92	98	85	83	103	105	98	110	110	112	100	103
Craft used	88	103	107	104	103	113	115	123	127	127	130	128	2 ² 83
Vessels, 5 net tons and over.....	14	16	17	18	18	19	20	20	21	24	24	36	² 23
Motorboats.....	72	85	88	84	84	93	93	102	105	102	104	88	² 68
Other boats.....	2	2	2	2	1	1	2	1	1	1	2	2	² 2
Fishery shore establishments	3.7	3.6	3.6	3.3	3.4	3.6	3.6	3.6	3.9	4.0	4.0	4.0	4.2

¹ Seasonal average for processors and wholesaling plants. ² Excludes Maryland and Virginia.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

NO. 1191. FISHERIES—QUANTITY AND VALUE OF DOMESTIC CATCH: 1960 TO 1988

[1978–1988 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series L 224–226, L 229, and L 310]

YEAR	QUANTITY (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)	YEAR	QUANTITY (mil. lb. ¹)			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial products ²				Total	For human food	For industrial products ²		
1960.....	4,942	2,498	2,444	354	7.2	1979.....	6,267	3,318	2,949	2,234	35.6
1965.....	4,777	2,587	2,190	446	9.3	1980.....	6,482	3,654	2,828	2,237	34.5
1970.....	4,917	2,537	2,380	613	12.5	1981.....	5,977	3,547	2,430	2,388	40.0
1972.....	4,806	2,435	2,371	748	15.6	1982.....	6,367	3,285	3,082	2,390	37.5
1973.....	4,858	2,398	2,460	937	19.3	1983.....	6,439	3,238	3,201	2,355	36.6
1974.....	4,967	2,496	2,471	932	18.7	1984.....	6,438	3,320	3,118	2,350	36.5
1975.....	4,877	2,465	2,412	977	20.0	1985.....	6,258	3,294	2,964	2,326	37.2
1976.....	5,388	2,775	2,613	1,349	25.0	1986.....	6,031	3,393	2,636	2,763	45.8
1977.....	5,271	2,952	2,319	1,554	29.5	1987.....	6,896	3,946	2,950	3,115	45.2
1978.....	6,028	3,177	2,851	1,854	30.7	1988.....	7,192	4,588	2,604	3,520	48.9

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

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

NO. 1192. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATE, AND CATCH OF PRINCIPAL SPECIES, BY AREA: 1980 TO 1988

[Catch in millions of pounds, live weight, except as indicated; value in millions of dollars. Preliminary. See also *Historical Statistics, Colonial Times to 1970, series L 262-293*]

AREA, STATE, CATCH, AND VALUE	1980	1985	1987	1988	AREA, STATE, CATCH, AND VALUE	1980	1985	1987	1988
Total:					South Atlantic—Con.				
Catch.....	6,482	6,258	6,896	7,192	Georgia:				
Value.....	2,237	2,326	3,115	3,520	Catch.....	19	17	15	17
New England:					Value.....	20	21	20	21
Catch.....	788	590	545	570	Florida (east coast):				
Value.....	327	419	512	494	Catch.....	77	66	48	56
Maine:					Value.....	39	57	45	55
Catch.....	245	175	170	157	Catch for certain species:				
Value.....	93	101	132	124	Menhaden.....	218	105	57	75
New Hampshire:					Shrimp.....	33	28	23	24
Catch.....	19	8	8	11	Crabs.....	55	48	47	54
Value.....	5	5	8	9	Scallops.....	1	13	10	14
Massachusetts:					Gulf States:				
Catch.....	438	296	258	287	Catch.....	1,979	2,412	2,501	1,937
Value.....	178	232	279	274	Value.....	463	597	720	708
Rhode Island:					Florida (west coast):				
Catch.....	81	104	100	106	Catch.....	115	117	124	126
Value.....	46	70	77	69	Value.....	86	114	111	114
Connecticut:					Alabama:				
Catch.....	5	7	9	9	Catch.....	25	30	24	24
Value.....	5	12	16	17	Value.....	25	41	45	40
Catch for certain species:					Mississippi:				
Clams.....	15	22	18	17	Catch.....	232	471	436	336
Cod.....	118	83	59	75	Value.....	25	40	48	61
Crabs.....	7	8	6	13	Louisiana:				
Flounder.....	118	98	68	59	Catch.....	1,412	1,693	1,804	1,356
Haddock.....	55	14	7	6	Value.....	174	225	316	317
Herring, sea.....	184	52	84	89	Texas:				
Lobster, American.....	36	44	43	45	Catch.....	94	103	111	96
Ocean perch, Atlantic.....	24	10	4	2	Value.....	153	177	200	178
Pollock.....	40	43	45	33	Catch for certain species:				
Scallops, sea.....	17	10	18	18	Crabs.....	45	53	71	83
Squid.....	6	15	18	44	Mullet.....	31	17	26	27
Whiting.....	18	31	26	25	Oysters (meats).....	17	25	18	16
Middle Atlantic:					Shrimp.....	208	263	257	226
Catch.....	244	151	163	156	Great Lakes:¹				
Value.....	97	101	128	129	Catch.....	44	54	42	40
New York:					Value.....	14	15	17	19
Catch.....	39	39	41	38	Mississippi River and				
Value.....	45	38	53	54	tributaries:				
New Jersey:					Catch.....	85	92	110	(NA)
Catch.....	201	108	116	113	Value.....	21	29	39	(NA)
Value.....	50	61	73	72	Pacific Coast:				
Delaware:					Catch.....	2,140	1,816	2,493	3,457
Catch.....	4	5	6	6	Value.....	1,025	863	1,360	1,809
Value.....	2	2	2	3	Washington:				
Catch for certain species:					Catch.....	156	167	205	174
Clams (meats).....	40	73	68	62	Value.....	86	93	150	172
Scup or porgy.....	8	2	8	4	Oregon:				
Squid.....	3	8	20	17	Catch.....	126	101	139	149
Chesapeake Bay:					Value.....	56	46	95	98
Catch.....	717	815	791	731	California:				
Value.....	130	124	160	148	Catch.....	804	363	452	496
Maryland:					Value.....	323	133	173	199
Catch.....	80	92	81	80	Alaska:				
Value.....	45	47	52	44	Catch.....	1,054	1,185	1,697	2,639
Virginia:					Value.....	560	591	942	1,339
Catch.....	637	723	710	651	Catch for certain species:				
Value.....	85	76	106	104	Anchovies.....	107	15	13	12
Catch for certain species:					Bonito.....	14	5	11	9
Crabs.....	65	91	76	78	Cod.....	20	120	171	287
Clams.....	36	47	44	47	Crabs.....	347	129	174	217
Scallops, sea.....	6	3	7	7	Flounder.....	60	68	106	133
Flounder.....	10	6	6	8	Hake.....	12	16	39	16
Oysters.....	21	8	9	5	Halibut.....	19	61	76	81
South Atlantic:					Herring, sea.....	107	142	123	131
Catch.....	473	311	235	280	Jack mackerel.....	44	21	27	23
Value.....	148	156	150	174	Mackerel.....	65	75	94	100
North Carolina:					Oysters.....	7	8	10	10
Catch.....	356	215	157	191	Pollock.....	3	93	552	1,257
Value.....	69	65	63	76	Rockfish.....	106	82	118	124
South Carolina:					Sablefish.....	22	63	103	108
Catch.....	21	13	15	16	Salmon.....	614	727	552	562
Value.....	20	14	22	21	Shrimp.....	98	35	72	74
					Tuna.....	387	64	69	73
					Hawaii:				
					Catch.....	11	17	16	21
					Tuna catch.....	7	11	10	11
					Value.....	12	22	29	40

NA Not available. ¹ Collected largely by State fishery agencies, and compiled by National Marine Fisheries Service. Includes, in addition to the Great Lakes, small amounts for Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

**NO. 1193. FISHERIES—DOMESTIC CATCH AND VALUE BY SELECTED MAJOR U.S. PORTS:
1984 TO 1988**

[See *Historical Statistics, Colonial Times to 1970*, series L 236-253, for data on quantity and value of catch]

PORT	CATCH (mil. lb.)					VALUE (mil. dol.)				
	1984	1985	1986	1987	1988	1984	1985	1986	1987	1988
Cameron, LA.....	679.2	673.6	616.8	672.4	438.9	38.2	29.9	34.8	31.9	33.2
Dutch Harbor-Unalaska, AK.....	46.9	106.3	88.3	128.2	377.3	20.3	21.3	37.2	62.7	100.9
Kodiak, AK.....	113.6	96.1	141.2	204.1	304.6	69.9	65.8	89.8	132.1	186.3
Empire-Venice, LA.....	383.5	224.5	317.6	357.4	287.2	41.6	34.3	47.1	60.1	67.7
Pascagoula-Moss Point, MS.....	425.3	423.2	365.5	391.8	292.0	25.0	18.4	20.4	20.3	28.2
Dulac-Chauvin, LA.....	327.2	398.6	294.6	331.7	244.1	59.7	59.9	71.0	65.6	56.5
Los Angeles, CA.....	237.0	150.3	187.4	203.1	292.0	84.6	52.5	29.5	55.6	34.0
Intercoastal City, LA.....	(NA)	(NA)	298.9	314.3	209.7	(NA)	(NA)	11.3	13.4	14.7
Beaufort-Morehead City, NC.....	185.3	133.2	98.9	85.7	110.0	21.6	22.7	24.7	22.7	27.0
Gloucester, MA.....	179.1	116.5	110.0	93.0	107.3	37.1	37.1	37.8	34.0	30.8
New Bedford, MA.....	99.5	90.6	65.8	78.7	90.4	10.7	10.3	10.6	143.7	140.9
Port Hueme-ne-Oxnard-Ventura, CA.....	9.4	19.9	31.0	42.3	55.0	(NA)	5.4	5.8	8.1	10.0
Petersburg, AK.....	54.1	(NA)	85.2	42.4	50.4	24.9	(NA)	38.1	36.9	58.5
Point Judith, RI.....	69.9	56.8	52.1	46.6	49.6	27.3	28.0	28.5	27.4	25.4
Cape May-Wildwood, NJ.....	34.1	30.3	36.8	56.8	47.9	21.4	18.1	20.9	30.5	28.4
Astoria, OR.....	23.1	25.5	36.8	46.5	44.2	9.2	9.5	16.4	24.6	24.3
Portland, ME.....	37.0	36.1	34.9	43.8	43.9	14.5	17.2	22.4	35.8	30.4
Cordova, AK.....	(NA)	(NA)	(NA)	69.6	42.5	(NA)	(NA)	(NA)	41.9	46.4
Rockland, ME.....	42.9	58.6	43.4	38.7	40.6	9.4	11.1	9.1	8.1	6.7
Bellingham, WA.....	34.0	38.8	45.9	47.5	35.3	14.9	16.6	28.8	27.4	30.1

NA Not available. ¹ Record.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

NO. 1194. DOMESTIC FISH AND SHELLFISH CATCH AND VALUE, BY SPECIES: 1983 TO 1988

SPECIES	QUANTITY (1,000 lb.)					VALUE (\$1,000)			
	1983-88 5 year average	1985	1986	1987	1988	1985	1986	1987	1988
Total	(x)	6,257,642	6,030,634	6,895,726	7,192,553	2,326,237	2,762,823	3,114,713	3,520,259
Fish, total ¹	(x)	5,214,363	4,870,763	5,708,215	5,905,561	1,832,427	1,319,134	1,629,041	2,023,230
Anchovies.....	16,192	14,566	13,436	12,857	12,425	2,704	2,523	2,706	2,615
Bluefish.....	14,474	13,743	13,968	15,226	16,853	2,363	2,413	3,254	3,012
Butterfish.....	15,432	10,338	9,880	10,315	5,441	3,537	6,576	6,436	3,407
Cod: Atlantic.....	82,461	82,823	61,134	59,100	76,073	35,140	36,142	44,179	42,941
Pacific.....	123,985	120,275	104,443	170,611	267,205	18,556	11,337	31,443	38,429
Croaker.....	10,682	11,088	12,382	11,044	10,604	3,658	3,883	4,396	4,596
Flounders.....	207,600	195,718	169,050	199,711	228,620	129,121	124,586	145,080	140,142
Haddock.....	18,123	14,416	10,968	6,673	6,429	13,545	10,911	8,522	7,030
Halibut.....	61,591	61,032	77,691	76,107	81,608	38,376	82,925	88,254	72,718
Herring, sea:									
Atlantic.....	69,219	57,133	79,381	84,536	90,397	2,968	4,314	4,368	5,229
Herring, sea, Pacific.....	125,883	142,074	130,764	122,598	131,432	47,025	44,598	47,916	57,431
Jack mackerel.....	26,829	20,852	23,672	26,671	22,546	1,770	1,775	1,831	1,685
Mackerel, Pacific.....	64,185	75,453	85,444	93,755	100,342	6,324	6,408	6,433	7,498
Menaden.....	2,739,387	2,739,401	2,391,363	2,712,285	2,086,068	100,680	93,782	104,425	105,704
Mullet.....	24,261	21,205	21,646	30,125	32,642	5,720	6,043	8,224	11,218
Ocean perch:									
Atlantic.....	9,213	9,666	6,576	4,202	2,350	3,179	3,160	2,709	1,467
Pacific.....									
Pollock, Atlantic.....	11,731	9,034	15,585	19,982	11,919	1,757	3,116	4,478	2,546
Pollock, Alaska.....	42,789	43,477	54,469	45,645	33,052	6,978	14,044	17,916	11,071
Rockfish.....	160,473	92,833	130,424	552,048	1,257,251	5,409	7,167	45,849	95,252
Sablefish.....	95,381	82,109	92,029	117,881	124,026	23,107	28,285	38,153	38,863
Salmon.....	68,226	63,390	84,868	102,698	107,511	28,692	45,879	58,107	91,779
Scup or porgy.....	655,637	726,946	658,521	562,018	606,148	439,795	493,937	596,376	910,673
Sea trout, gray.....	16,752	15,966	16,181	14,295	14,269	9,338	9,476	9,810	9,672
Shark, Dogfish.....	18,440	16,400	20,602	17,927	20,533	7,330	7,086	7,499	7,948
Snapper, red.....	11,474	11,563	11,114	14,167	10,070	842	964	1,573	1,975
Swordfish.....	5,219	5,181	4,489	3,732	4,154	10,661	9,820	8,661	9,496
Tuna.....	11,292	12,258	9,671	9,761	12,818	33,191	30,508	34,974	42,703
Whiting.....	154,089	83,054	87,811	100,058	111,349	52,515	54,575	95,803	120,990
Whiting.....	40,571	43,455	39,924	34,673	35,569	8,274	8,312	11,584	8,621
Shellfish, total ¹	(x)	1,043,279	1,159,871	1,187,511	1,286,992	1,132,810	1,443,689	1,485,672	1,497,029
Clams.....	135,725	150,551	145,393	134,357	131,740	128,349	134,910	132,891	134,781
Crabs.....	341,921	307,632	355,860	386,368	455,629	203,044	270,138	321,875	383,590
Lobsters: American.....	45,187	46,152	46,053	45,558	48,643	114,885	120,556	133,554	145,236
Oysters.....	44,594	44,173	40,544	39,807	31,892	70,053	78,068	92,423	78,498
Scallops: Calico.....	14,244	12,513	1,616	8,155	11,868	12,524	3,087	8,889	12,462
Sea.....	21,353	15,829	19,992	32,038	30,557	74,562	97,415	132,263	128,243
Shrimp.....	329,597	333,691	400,185	363,142	330,873	472,850	662,744	578,084	506,034
Squid: Atlantic.....	32,604	7,157	33,145	38,883	46,739	7,256	10,279	12,493	16,220
Pacific.....	22,864	22,276	42,262	43,166	80,428	4,047	4,368	4,300	7,689

X Not applicable. ¹ 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.

No. 1195. DISPOSITION OF U.S. DOMESTIC CATCH: 1970 TO 1988

[Live weight catch in millions of pounds, 1979-1988 preliminary. In addition to whole fish, a large portion of waste (400-500 million lb.) derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970*, series L 305-310, for similar but not entirely comparable data]

DISPOSITION	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	4,917	4,877	6,267	6,482	5,977	6,367	6,439	6,438	6,258	6,031	6,896	7,192
Fresh and frozen.....	1,595	1,744	2,394	2,621	2,547	2,550	2,304	2,336	2,242	2,487	3,157	3,813
Canned.....	1,150	907	1,046	1,161	1,118	891	1,087	1,128	1,232	1,134	1,009	1,017
Cured.....	71	55	94	96	90	85	80	82	70	60	89	86
Reduced to meal, oil, etc.....	2,101	2,171	2,733	2,604	2,222	2,841	2,968	2,892	2,714	2,350	2,641	2,276

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1196. JOINT VENTURE CATCHES IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ) BY SPECIES: 1985 TO 1988

[Joint venture—An operation authorized under the Magnuson Fishery Conservation and Management Act (MFCMA) in which a permitted foreign vessel receives fish in the U.S. Exclusive Economic Zone (EEZ) from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest]

SPECIES	QUANTITY (1,000 lb.)				VALUE (\$1,000)			
	1985	1986	1987	1988	1985	1986	1987	1988
Total	2,008,889	2,888,879	3,286,604	3,201,487	104,320	154,899	202,133	221,090
Atka mackerel.....	88,047	70,527	66,206	43,253	6,109	4,828	4,775	3,571
Cod.....	80,189	145,537	131,220	245,871	7,799	14,449	15,334	30,429
Flourders.....	396,084	475,924	494,381	727,778	24,833	28,847	33,272	53,763
Hake, Pacific.....	(D)	179,981	233,681	299,343	(D)	8,736	11,653	14,660
Ocean perch.....	619	602	1,226	—	56	72	173	—
Mackerel, Atlantic.....	8,350	(D)	17,863	12,533	584	(D)	1,058	760
Pollock, Alaska.....	1,354,368	1,993,203	2,330,956	1,822,242	59,730	95,294	134,302	116,102
Rockfishes.....	154	474	705	4,636	14	57	100	705
Sablefish.....	207	956	271	112	30	137	37	14
Whiting.....	—	144	11	—	—	9	(Z)	—
Squid.....	7,987	(D)	9,112	(D)	1,194	(D)	1,373	(D)
Other.....	72,884	21,531	1,124	45,719	3,971	2,470	56	1,096

- Represents zero. D Figure withheld to avoid disclosure. Z Less than \$500. ¹ Includes alewives (48,000 pounds) not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1197. U.S. CATCH AND VALUE OF FISH AND SHELLFISH, BY DISTANCE CAUGHT OFF U.S. SHORES—SELECTED SPECIES: 1988

[Preliminary. Catch is shown in live weight, except as indicated. Includes landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States and joint venture catches, therefore will not agree with other tables; see table 1196]

SPECIES	Total U.S. catch (mil. lb.)	BY DISTANCE FROM U.S. SHORES						Value of U.S. catch ¹ (mil. dol.)	PERCENT OF TOTAL VALUE, BY DISTANCE CAUGHT OFF U.S. SHORES		
		Catch (mil. lb.)			Percent of U.S. catch				3 miles or less ¹	3 to 200 miles	International waters ²
		3 miles or less ¹	3 to 200 miles	International waters ²	3 miles or less ¹	3 to 200 miles	International waters ²				
Total	10,968	3,885	6,510	573	35.4	59.4	5.2	4,010	50.5	41.7	7.8
Fish ³	9,676	3,176	5,928	573	32.8	61.3	5.9	2,506	48.8	38.7	12.5
Cod.....	589	41	547	1	7.0	99.9	(Z)	112	5.8	93.9	.3
Flounder.....	958	99	851	6	10.3	82.0	.7	194	16.5	80.9	2.6
Halibut.....	82	30	51	1	36.6	62.2	1.2	73	35.6	63.7	.7
Herring, sea.....	222	168	54	(Z)	75.7	24.3	(Z)	63	95.2	4.8	(Z)
Mackerel.....	136	4	133	—	2.7	97.3	—	17	11.8	88.2	—
Menhaden.....	2,203	1,742	461	—	79.1	20.9	—	108	81.8	18.2	—
Pollock.....	3,113	189	2,924	(Z)	6.0	94.0	(Z)	222	6.5	93.5	(Z)
Salmon, Pacific.....	606	592	14	—	97.7	2.3	—	911	95.9	4.1	—
Tuna.....	809	1	47	561	(Z)	7.7	92.3	361	5	21.8	77.7
Shellfish ³	1,291	709	582	(Z)	54.9	45.1	(Z)	1,505	53.5	46.5	(Z)
Clams (meats).....	132	34	98	—	25.8	74.2	—	135	71.8	28.2	—
Crabs.....	456	281	175	(Z)	61.8	38.4	(Z)	384	50.6	49.4	(Z)
Lobsters.....	56	44	12	(Z)	78.4	21.5	(Z)	168	76.0	23.9	(Z)
Scallops (meats).....	43	2	41	—	4.1	95.9	—	144	5.7	94.3	—
Shrimp.....	331	163	168	—	49.2	50.8	—	506	46.8	53.2	—
Squid.....	127	51	76	—	39.9	60.1	—	24	30.6	69.4	—

- Represents zero. Z Less than 500,000 pounds or .05 percent. ¹ Includes all landings in Great Lakes and other inland waters. ² Greater than 200 nautical miles seaward from the U.S. shores except for 2 States. The boundaries for the Gulf Coast of Florida and Texas are 9 nautical miles. ³ Includes other species not shown separately.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual and *Fisheries of the United States*, annual.

NO. 1198. U.S. PRIVATE AQUACULTURE—PRODUCTION AND VALUE: 1980 TO 1987

[Production is shown in live weight, except as indicated. Aquaculture is the commercial growing of fish or other aquatic life in a controlled environment]

SPECIES	PRODUCTION (1,000 lbs.)					VALUE (\$1,000)				
	1980	1984	1985	1986	1987	1980	1984	1985	1986	1987
Total	203,178	455,733	535,764	619,959	721,089	191,977	398,168	422,736	496,329	613,753
Baitfish ¹	22,046	23,598	24,807	25,247	26,000	44,000	47,045	51,280	51,522	71,500
Catfish.....	76,842	239,800	271,357	326,979	372,000	53,572	191,840	189,194	228,886	277,000
Clams ²	561	1,698	1,588	2,508	2,215	2,295	4,178	4,717	8,307	9,243
Crawfish.....	23,917	59,400	64,999	97,500	95,000	12,951	29,700	32,500	48,750	35,525
Freshwater prawns.....	300	317	267	178	200	1,200	1,698	1,540	893	1,250
Mussels ²	(NA)	817	928	1,206	1,077	(NA)	1,584	1,248	1,725	1,746
Oysters ²	23,755	24,549	22,473	24,090	24,315	37,085	38,970	39,977	42,787	43,756
Pacific salmon.....	7,616	45,086	84,305	74,398	124,308	3,400	17,252	25,439	32,751	55,906
Shrimp.....	-	528	440	1,354	2,655	-	1,568	1,687	3,408	7,206
Trout.....	48,141	49,940	50,600	51,000	56,247	37,474	54,435	55,154	55,590	57,338
Other species.....	(NA)	9,900	14,000	15,500	17,072	(NA)	8,900	20,000	21,700	³ 53,285

- Represents zero. NA Not available. ¹Not used for food consumption. ²Production is shown in meat weight. ³Includes tropical fish or ornamentals; production of 22,000 pounds and value of \$21 million.

Source: U.S. Dept. of Agriculture, Office of Aquaculture, *Agricultural Outlook*, June 1989.

NO. 1199. SUPPLY OF SELECTED FISHERY ITEMS: 1979 TO 1988

[In millions of pounds. Totals available for U.S. consumption are supply minus exports plus imports. Round weight is the complete or full weight as caught. Data are preliminary]

ITEM	unit	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Sardines, canned.....	Canned weight.....	78	69	84	67	46	58	76	68	77	63
Salmon, canned.....	Canned weight.....	98	126	151	71	127	150	113	87	76	58
Tuna, canned.....	Canned weight.....	674	668	696	626	713	777	759	873	866	943
Clams.....	Meat weight.....	93	102	130	119	126	144	164	162	151	145
King crab.....	Round weight.....	86	133	60	28	23	13	11	19	14	10
Snow crab.....	Round weight.....	44	54	43	25	30	23	45	49	29	31
Crab meat, canned.....	Canned weight.....	7	9	7	7	8	7	8	9	8	8
American lobster.....	Round weight.....	66	69	78	81	93	100	108	113	115	121
Spiny lobster.....	Round weight.....	157	127	134	127	137	153	154	152	151	139
Oysters.....	Meat weight.....	75	71	76	82	81	84	90	91	92	78
Scallops.....	Meat weight.....	59	51	72	55	67	87	72	70	81	75
Shrimp.....	Heads-off weight.....	424	425	434	458	541	584	633	706	773	767

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

NO. 1200. CANNED, FRESH AND FROZEN FISHERY PRODUCTS—PRODUCTION AND VALUE: 1980 TO 1988

[Fresh fishery products exclude Alaska and Hawaii. Canned fishery products data are for natural pack only. See also *Historical Statistics, Colonial Times to 1970*, series L 338-357 (production data in cases) and L 356]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1984	1985	1986	1987	1988 ¹	1980	1984	1985	1986	1987	1988 ¹
CANNED												
Total ²	1,516	1,411	1,161	1,332	1,186	1,130	1,928	1,578	1,360	1,485	1,562	1,478
Tuna.....	602	614	545	637	654	598	1,144	872	821	882	1,016	960
Salmon.....	200	200	159	142	105	88	376	322	228	265	262	217
Clam products.....	77	114	117	116	117	128	66	95	109	118	88	98
Mackerel ³	38	31	15	17	15	18	12	13	7	6	6	9
Sardines, Maine.....	20	15	20	16	13	19	32	25	38	28	22	24
Shrimp.....	16	7	4	5	4	4	80	36	19	23	22	25
Crabs.....	5	1	1	1	(Z)	(Z)	19	5	2	2	1	2
Squid.....	4	(NA)	4	(NA)	(NA)	(NA)	1	(NA)	1	(NA)	(NA)	(NA)
Oysters ⁴	(Z)	6	2	3	4	3	(Z)	5	2	4	2	2
FRESH AND FROZEN												
Total	202	252	246	280	356	384	261	410	440	564	753	777
Fish fillets and steaks ⁵	31	70	57	77	78	62	43	97	89	142	165	136
Cod.....	49	79	69	64	58	51	87	159	157	169	168	156
Flounder.....	17	9	8	8	9	8	29	19	19	25	32	30
Haddock.....	7	3	2	3	3	2	9	3	3	6	6	5
Ocean perch, Atlantic.....	14	18	17	18	18	32	13	23	25	24	27	46
Rockfish.....	9	11	15	16	18	14	9	11	17	21	30	21
Pollock, Atlantic.....	(NA)	4	11	24	75	110	(NA)	4	24	25	82	110
Pollock, Alaska.....	74	59	66	71	97	105	71	95	106	152	243	273
Other.....												

NA Not available. Z Less than 500,000 pounds or \$500,000. ¹Preliminary. ²Includes other products, not shown separately. ³Includes Jack and a small amount of Pacific mackerel. ⁴Includes oyster specialties. ⁵Fresh and frozen.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

NO. 1201. PROCESSED FISHERY PRODUCTS—PRODUCTION AND VALUE: 1980 TO 1988

[Includes Puerto Rico and American Samoa. See *Historical Statistics, Colonial Times to 1970*, series L 362-365, for meal, scrap, and oil]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1984	1985	1986	1987	1988 ¹	1980	1984	1985	1986	1987	1988 ¹
Total²	(x)	(x)	(x)	(x)	(x)	(x)	4,456	5,211	4,936	5,263	5,951	5,369
Fresh and frozen ³	(x)	(x)	(x)	(x)	(x)	(x)	2,110	3,234	3,242	3,481	4,041	3,562
Filletts.....	197	241	232	266	338	362	247	384	408	527	696	707
Steaks.....	5	11	13	14	18	22	14	27	32	37	58	70
Fish sticks.....	88	92	96	87	99	80	89	110	111	94	143	114
Fish portions.....	344	333	330	342	324	287	388	414	368	394	446	400
Breaded shrimp.....	85	95	85	108	109	80	254	359	355	358	372	245
Canned products ⁴	1,516	1,411	1,161	1,332	1,186	1,130	1,928	1,577	1,360	1,485	1,562	1,478
Fish and shellfish.....	1,009	1,042	913	1,011	965	907	1,782	1,436	1,269	1,395	1,476	1,385
Animal food.....	507	369	248	321	221	223	146	141	91	100	85	93
Industrial products.....	(x)	(x)	(x)	(x)	(x)	(x)	270	234	182	175	212	236
Meal and scrap.....	724	752	722	702	787	644	134	113	84	83	121	131
Oil (body and liver).....	312	373	285	337	298	225	58	61	42	44	36	44
Solubles.....	267	252	323	195	249	223	14	15	19	12	17	15
Other.....	(x)	(x)	(x)	(x)	(x)	(x)	64	45	37	36	38	47

X Not applicable. ¹ Preliminary. ² Includes cured fish. ³ Includes items not shown (dressed fish, shellfish not breaded, specialties). ⁴ Includes salmon eggs for bait.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual.

NO. 1202. IMPORTS AND EXPORTS: 1970 TO 1988

[Imports include landings of tuna by foreign vessels at American Samoa. See also *Historical Statistics, Colonial Times to 1970*, series L 227-235]

YEAR	IMPORTS					EXPORTS				
	Total U.S. value (mil. dol.)	Total value (mil. dol.)	Fishery products		Total U.S. value (mil. dol.)	Total value (mil. dol.)	Fishery products		Non-edible, value (mil. dol.)	
			Edible products	Non-edible, value (mil. dol.)			Edible products	Non-edible, value (mil. dol.)		
										Quantity (mil. lb.)	Value (mil. dol.)	Quantity (mil. lb.)	Value (mil. dol.)
1970.....	39,756	1,037	1,873	813	225	43,224	118	140	94	24
1980.....	244,007	3,648	2,145	2,687	962	220,783	1,006	574	904	102
1985.....	343,553	6,679	2,754	4,064	2,614	213,146	1,084	648	1,010	73
1986.....	368,657	7,626	2,978	4,813	2,813	217,304	1,356	735	1,290	66
1987.....	402,066	8,818	¹ 3,201	¹ 5,711	¹ 3,106	252,866	1,660	783	1,577	83
1988, prel.....	437,140	¹ 8,872	2,971	5,459	¹ 3,413	320,385	¹ 2,275	¹ 1,064	¹ 2,162	113

¹ Record.

NO. 1203. SELECTED FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1984 TO 1988

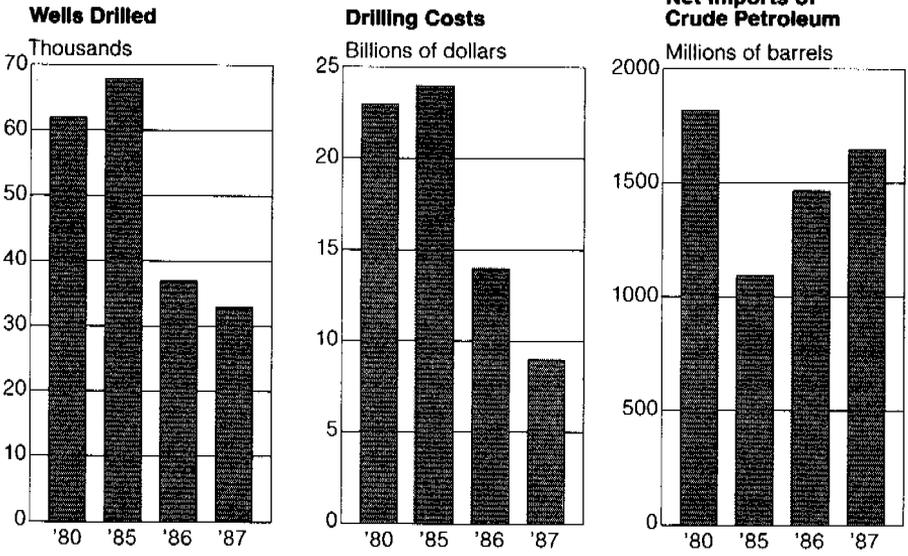
[See *Historical Statistics, Colonial Times to 1970*, series L 312-318, for selected imports]

PRODUCT	QUANTITY (mil. lb.)					VALUE (mil. dol.)				
	1984	1985	1986	1987	1988, prel.	1984	1985	1986	1987	1988, prel.
IMPORTS										
Edible¹	2,454.3	2,754.0	2,978.9	3,201.1	2,970.9	3,742.3	4,064.3	4,813.5	5,711.2	5,459.4
Fresh or frozen ¹	2,057.1	2,229.0	2,423.7	2,661.6	2,443.3	3,281.3	3,461.6	4,150.0	5,021.9	4,712.8
Salmon ²	21.1	27.0	40.5	41.9	50.1	56.5	75.6	100.7	113.0	155.2
Tuna ³	404.2	473.9	563.8	572.5	550.1	215.9	266.3	298.8	330.8	372.3
Groundfish fillets, blocks ⁴	624.0	639.8	651.0	630.4	500.8	631.1	655.3	790.6	1,003.5	759.4
Other fillets and steaks.....	165.7	231.0	251.4	394.2	320.1	238.3	333.7	416.1	651.0	533.0
Scallops (meats).....	27.3	42.0	47.9	39.9	32.0	117.3	147.1	192.6	162.3	115.7
Lobster, American, spiny.....	73.4	77.4	79.3	80.9	77.5	435.7	464.9	464.9	575.9	546.7
Shrimp and prawn.....	328.9	342.8	384.3	461.2	489.7	1,189.9	1,120.7	1,404.9	1,676.8	1,725.9
Canned ¹	316.4	414.4	438.8	428.7	428.7	372.9	465.8	500.4	515.9	586.9
Sardines and herring ⁵	31.5	39.8	36.0	43.3	37.1	24.8	30.3	30.4	34.2	33.4
Tuna.....	162.3	213.9	236.6	211.7	244.5	167.3	209.1	228.6	206.9	298.7
Oysters.....	23.0	28.9	32.1	32.7	27.5	26.2	30.2	32.3	36.1	39.8
Pickled or salted.....	61.1	57.1	61.4	57.4	55.6	55.5	53.4	62.2	74.6	66.9
Cod, haddock, hake, pollock, cusk.....	38.0	34.7	36.9	31.9	31.4	42.3	41.2	49.5	60.5	52.7
Nonedible scrap and meal.....	166.9	510.7	370.0	393.7	265.3	26.5	61.7	47.2	52.5	49.6
EXPORTS										
Canned salmon.....	49.0	48.2	59.4	35.9	32.9	86.8	83.1	101.2	85.8	91.6
Fish oil, nonedible.....	399.4	279.1	192.2	249.1	149.3	71.0	36.8	20.8	23.3	21.9

X Not applicable. ¹ Includes products not shown separately. ² Excludes fillets. ³ Includes landings of tuna by foreign vessels at American Samoa. ⁴ Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting. ⁵ Not in oil.

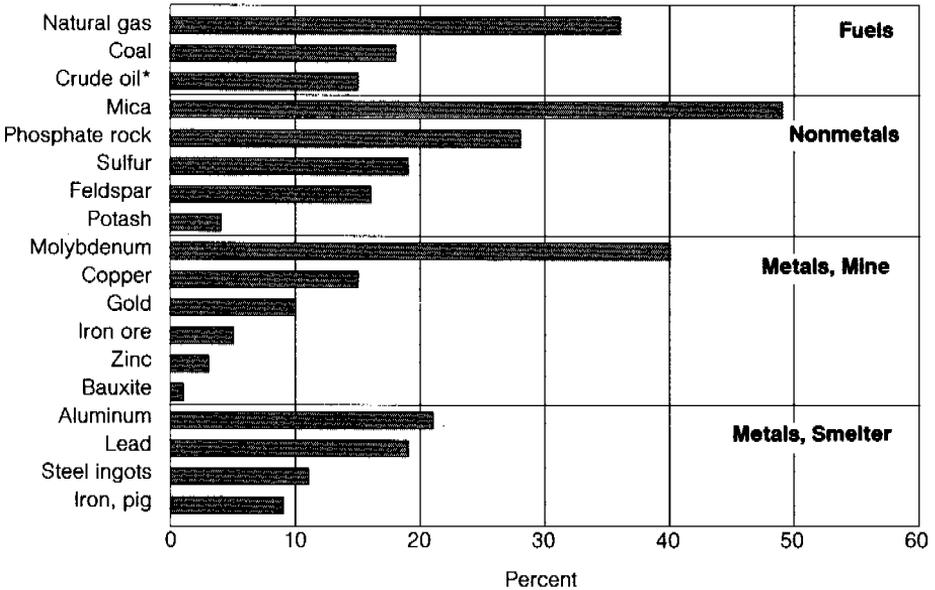
Source of tables 1202 and 1203: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.

Figure 25.1
Wells Drilled and Drilling Costs for Crude Petroleum and Natural Gas: 1980 to 1987



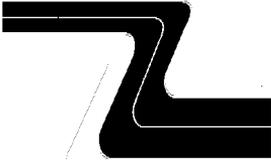
Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1220 and 1222.

Figure 25.2
U.S. Mineral Production as a Percentage of World: 1987



* Includes natural gas liquids.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1214.



Section 25

Mining and Mineral Products

This section 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 27 and 31 of this *Abstract*; data on mining employment may be found in section 13.

"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*, published by the Bureau of Mines, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. See text, section 19 for list of Department of Energy publications. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Non-government 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 Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel minerals produced, sold or used by producers, or shipped; quantity of minerals stocked; crude materials treated and prepared minerals recovered; and consumption of mineral raw materials. The U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, accidents, and injuries in the mineral industries, except petroleum and natural gas. In October 1977, mineral fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every fifth year for years ending in "2" and "7." 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 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 table 1208. 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.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

NO. 1204. SUMMARY OF MINERAL OPERATIONS: 1958 TO 1987

[Represents mineral operations only. Beginning 1967, excludes single unit establishments without paid employees. See also *Historical Statistics, Colonial Times to 1970*, series M 1-11]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Establishments.....	Number..	36,992	38,651	28,579	25,269	31,359	42,092	33,821
With 20 or more employees.....	Number..	6,045	5,499	5,662	5,312	6,632	(NA)	6,333
Including all operations in manufactures.....	Number..	37,966	40,532	29,688	26,176	31,967	42,436	(NA)
Excluding oil and gas extraction.....	Number..	19,444	19,290	13,330	11,680	13,520	12,118	10,857
Employees, total.....	1,000.....	734	616	567	595	799	1,114	704
Production workers ¹	1,000.....	565	482	433	443	593	762	453
All other.....	1,000.....	169	134	134	152	206	352	251
Worker-hours, production workers ¹	Million.....	1,061	973	892	909	1,183	1,578	946
Workerhours per production workers.....	1 000.....	1.9	2.0	2.1	2.1	2.0	2.1	2.1
Payroll, total.....	Mil. dol.....	3,749	3,743	4,187	6,226	13,167	28,637	21,931
Wages, production workers ¹	Mil. dol.....	2,623	2,680	2,868	4,250	9,082	18,030	12,501
Salaries, all other employees.....	Mil. dol.....	1,126	1,063	1,299	1,976	4,085	10,607	9,430
Cost of supplies, etc. ²	Mil. dol.....	7,521	8,974	10,576	14,884	46,079	109,697	61,189
Value added in mining.....	Mil. dol.....	13,385	15,910	19,330	26,471	68,013	188,056	111,121
Metal mining.....	Mil. dol.....	1,180	1,418	1,557	2,382	3,504	3,215	4,462
Coal mining.....	Mil. dol.....	1,780	1,727	2,091	3,754	11,266	18,631	17,050
Oil and gas extraction.....	Mil. dol.....	9,033	11,020	13,394	17,612	48,587	159,937	80,225
Nonmetallic minerals mining.....	Mil. dol.....	1,392	1,745	2,288	2,723	4,656	6,273	9,384
Value of shipments and receipts ³	Mil. dol.....	16,373	18,804	22,784	38,319	96,375	250,000	157,169
Capital expenditures.....	Mil. dol.....	2,804	3,264	4,058	5,036	17,718	47,753	15,141

NA Not available. ¹ See footnote 4, table 1207. ² Includes purchased machinery installed. ³ See footnote 6, table 1207.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1972, 1977, 1982, and 1987*.

NO. 1205. GROSS NATIONAL PRODUCT IN MINING: 1970 TO 1987

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

MINING INDUSTRY	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Current dollars, total.....	18.7	41.3	50.2	56.5	72.7	107.3	143.7	132.1	118.4	119.4	114.2	82.1	85.4
Percent of total gross national product.....	1.8	2.6	2.5	2.5	2.9	3.9	4.7	4.2	3.5	3.2	2.8	1.9	1.9
Metal mining.....	1.5	1.6	1.9	2.2	3.3	3.8	3.9	2.3	2.5	2.2	1.8	2.1	2.2
Coal mining.....	3.0	9.1	9.8	10.2	11.4	12.9	13.8	15.1	14.3	14.6	13.9	13.2	12.7
Oil and gas extraction.....	12.2	27.4	34.9	38.6	53.1	84.8	120.8	110.2	96.4	96.4	92.4	60.3	65.0
Nonmetallic minerals, exc. fuels.....	1.9	3.2	3.8	4.4	4.8	5.6	5.2	4.5	5.1	6.2	6.1	6.5	5.5
Constant (1982) dollars, total.....	134.5	125.6	126.2	128.8	130.0	135.6	139.8	132.1	125.4	133.0	130.1	115.7	117.5
Metal mining.....	4.0	3.5	3.4	3.4	3.6	3.5	3.8	2.3	2.2	2.5	2.4	2.4	2.7
Coal mining.....	11.2	11.9	12.6	12.1	14.1	14.9	14.8	15.1	14.3	16.1	16.0	16.0	16.6
Oil and gas extraction.....	115.2	105.7	105.3	108.0	106.9	111.7	115.5	110.2	104.1	108.9	106.2	91.9	92.7
Nonmetallic minerals, exc. fuels.....	4.2	4.5	4.9	5.3	5.4	5.5	5.6	4.5	4.9	5.4	5.6	5.3	5.5

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82, and Survey of Current Business*, July issues.

NO. 1206. MINING AND PRIMARY METAL PRODUCTION INDEXES: 1970 TO 1988

[1977=100. See also *Historical Statistics, Colonial Times to 1970*, series M 69-71]

INDUSTRY GROUP	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Mining.....	98.9	96.6	103.6	106.4	112.4	117.5	109.3	102.9	111.1	108.8	100.4	100.7	103.4
Coal.....	88.2	93.8	96.0	111.6	118.4	117.8	119.9	113.3	128.1	126.8	127.7	131.8	137.9
Anthracite.....	165.5	105.7	85.8	82.0	102.5	92.2	78.0	70.0	70.6	66.6	65.9	66.0	69.8
Bituminous.....	87.1	93.7	96.1	112.0	118.6	118.0	120.3	113.8	128.7	127.4	128.4	132.5	138.7
Oil and gas extraction.....	100.2	97.3	104.5	104.2	111.5	117.8	110.9	102.8	109.1	106.2	99.9	92.7	92.9
Crude oil and natural gas.....	115.9	101.9	102.8	101.8	103.2	102.1	100.1	96.8	99.9	99.5	98.8	94.6	93.9
Oil and gas drilling.....	48.7	82.0	117.6	119.5	164.1	214.3	178.8	139.9	165.5	147.5	76.2	79.1	84.0
Metal mining.....	127.3	104.6	107.3	113.4	103.8	113.2	71.4	65.2	77.0	75.0	74.2	77.6	93.2
Iron ore.....	162.8	144.1	146.5	154.5	125.4	134.9	66.4	68.8	92.1	87.7	70.8	83.0	100.6
Nonferrous ores.....	116.3	92.5	90.6	95.9	94.6	104.0	73.5	63.7	70.6	69.6	75.6	75.1	90.1
Copper ore.....	112.9	92.9	98.5	104.8	85.2	110.9	82.6	75.9	78.6	79.4	83.4	92.1	104.1
Lead and zinc ores.....	105.7	104.4	88.0	83.4	91.7	78.6	86.2	75.9	60.3	66.0	56.8	55.0	65.8
Primary metals, manufacturing.....	84.8	88.2	107.0	108.5	90.4	95.0	65.8	73.0	82.3	80.5	75.1	81.3	89.2
Nonferrous metals.....	82.9	81.0	106.1	109.6	86.3	92.7	81.4	88.2	90.2	89.7	97.2	101.6	110.2
Copper.....	126.7	95.7	106.5	114.5	88.6	106.4	77.3	80.1	80.2	92.1	91.9	93.0	105.4
Aluminum.....	87.6	85.5	105.8	110.7	112.7	109.1	79.6	81.4	89.3	84.9	73.8	81.2	95.5
Iron and steel.....	102.1	92.0	107.5	108.0	86.3	92.5	57.5	66.1	73.4	70.4	63.4	70.6	78.1

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

Mineral Industries

NO. 1207. MINERAL INDUSTRIES—SUMMARY: 1977 TO 1987

["N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series M1-12]

	1977			1982			1987 (prel.)			Value added in mining, (mil. dol.)	Value of shipments and receipts, (mil. dol.)	Capital expenditures, (mil. dol.)		
	Estab-lish-ments	All employ-ees, payroll (mil. dol.)	Value added in mining, (mil. dol.)	Estab-lish-ments	All employ-ees	Value added in mining, (mil. dol.)	Estab-lish-ments	All employ-ees	Pay-ment to workers, (mil. dol.)				Hours (1,000)	Wages (mil. dol.)
MINERAL INDUSTRY	31,359	13,167	68,013	42,092	1,114	28,637	33,822	704	21,931	453	12,501	111,121	157,169	15,141
All industries														
Metal mining	1,206	1,485	3,504	1,287	68	1,860	1,144	264	1,351	34	964	4,462	6,756	871
Iron ores.....	97	372	1,046	78	40	12	340	52	16	6	11	172	2,244	24
Copper ores.....	133	544	1,067	81	51	22	604	63	34	11	21	788	1,269	206
Lead and zinc ores.....	88	105	329	71	28	4	112	38	19	3	40	191	261	12
Gold and silver ores.....	175	71	161	371	80	10	263	381	97	21	289	1,637	2,128	529
Gold ores.....	126	40	78	286	59	8	188	479	323	11	365	1,532	1,971	523
Silver ores.....	49	32	83	85	21	3	75	171	10	2	33	105	157	7
Ferrous ores, except vanadium.....	56	107	236	69	16	5	150	146	7	1	26	111	163	6
Metal mining services.....	270	52	122	196	10	1	61	290	42	3	5	61	278	254
Miscellaneous metal ores.....	387	234	533	451	91	12	332	249	4	4	84	276	436	65
Coal mining	5,451	4,171	11,266	5,085	(NA)	251	8,805	1,831	6,575	129	4,261	17,050	25,951	1,613
Bituminous coal and lignite mining.....	4,944	4,005	10,637	4,513	1,787	241	6,570	1,804	5,415	124	4,132	16,651	25,333	1,559
Anthracite mining.....	156	48	116	152	40	3	67	172	26	3	36	109	206	12
Coal mining services	351	119	313	420	(NA)	7	168	418	119	3	96	290	411	42
Oil and gas extraction	18,447	5,902	48,587	29,974	(NA)	685	17,693	159,937	31,883	381	12,079	80,225	111,456	11,507
Crude petroleum and natural gas.....	8,573	2,738	38,927	12,087	(NA)	264	8,084	126,035	10,225	202	7,617	70	143	2,162
Natural gas liquids.....	692	227	3,286	793	236	14	402	8,865	716	210	13	433	4,129	406
Oil and gas field services.....	9,182	2,936	6,974	17,094	(NA)	406	9,207	25,037	12,023	1,768	2,814	2,814	8,062	783
Drilling oil and gas wells.....	2,625	1,317	3,307	4,385	(NA)	166	4,007	11,316	2,592	620	55	1,319	1,011	1,011
Oil and gas exploration services.....	1,252	220	545	2,934	(NA)	42	810	2,307	145	17	455	13	27	31
Oil and gas field services, n.e.c.....	5,305	1,399	3,122	9,775	(NA)	199	4,391	11,415	7,008	1,023	95	2,255	3,624	389
Nonmetallic minerals mining	6,255	1,609	4,656	5,746	(NA)	110	2,278	6,273	5,825	83	179	1,978	9,388	1,150
Dimension stone.....	209	19	39	154	22	2	21	50	152	20	2	18	65	4
Crushed and broken stone.....	2,055	543	1,601	1,952	567	37	701	1,999	716	45	179	33	74	383
Sand and gravel.....	2,957	148	1,916	2,336	345	29	320	1,356	468	33	257	5	12	527
Clay and ceramic minerals.....	237	108	316	278	114	10	187	217	167	12	12	182	613	114
Chemical and fertilizer minerals.....	205	372	1,433	196	114	26	68	2,237	171	17	536	20	2,142	192
Nonmetallic minerals, n.e.c.....	176	46	70	167	(NA)	2	35	70	176	23	3	29	108	156
Miscellaneous.....	548	87	238	315	72	6	109	283	69	7	164	101	453	644

NA, Not available. Z, Less than 500 or 500,000. ¹ Gross earnings paid to all employees on payroll. ² Computed by subtracting cost of supplies, minerals received for preparation, purchased fuel and electric light and heat, purchased machinery, repairs and maintenance, and capital expenditures, from the net shipments and receipts. ³ Includes value of minerals sold to other establishments. ⁴ Represents value of work performed by employees on the job through the working year. ⁵ Includes value of shipments of primary and secondary products of the industry, and amount received for services performed for other establishments on a contract, fee, or other basis. ⁶ Redefined to conform to 1987 and pre-1982 definition of establishment for detail. See source. ⁷ Excludes data for mining included in establishments classified in manufacturing industries. ⁸ Excludes data for dimension stone quarries operated in conjunction with dressing plants. ⁹ Excludes data for mining included in establishments classified in manufacturing industries.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1977 and 1982*, final industry series reports; and 1987 preliminary summary report.

No. 1208. MINERAL PRODUCTION AND VALUE, 1980 TO 1987,

[Data represent production as measured by mine shipments, mine sales, or marketable production]

	MINERAL	PRODUCTION QUANTITY							
		Unit	1980	1982	1983	1984	1985	1986	1987
1	Total mineral production	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
2	Mineral fuels	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
3	Coal: Bituminous and lignite	Mil. sh. ton	824	834	778	892	879	886	915
4	Pennsylvania anthracite.....	Mil. sh. ton	6	5	4	4	5	4	4
5	Natural gas (wet).....	Tril. cu. ft.	20.18	18.52	16.82	18.23	17.20	16.79	17.35
6	Petroleum (crude).....	Mil. bbl. ¹	3,146	3,157	3,171	3,250	3,274	3,168	3,047
7	Uranium ²	Mil. lb.	43.7	26.9	21.2	14.9	11.3	13.5	13.0
8	Industrial minerals	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
9	Abrasive stone ³	Sh. ton	631	1,285	1,101	1,290	1,157	(d)	12,773
10	Asbestos.....	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	57	51	51
11	Asphalt and related bitumens (native) ⁴	1,000 sh. ton	1,252	(d)	(d)	(d)	(d)	(d)	(d)
12	Barite.....	1,000 sh. ton	2,245	1,845	754	775	739	297	448
13	Boron minerals.....	1,000 sh. ton	1,545	1,234	1,303	1,367	1,269	1,251	1,385
14	Bromine.....	Mil. lb.	378	401	370	385	320	310	335
15	Calcium chloride.....	1,000 sh. ton	581	617	(d)	838	(d)	(d)	(d)
16	Carbon dioxide, natural (estimate).....	Mil. cu. ft.	1,628	2,068	(d)	(d)	(d)	(d)	(d)
17	Cement: Portland.....	Mil. sh. ton	71.6	61.1	67.2	74.4	74.3	75.2	74.9
18	Masonry.....	Mil. sh. ton	3.0	2.4	2.9	3.3	3.2	3.5	3.7
19	Clays.....	Mil. sh. ton	48.8	35.3	40.9	43.7	45.0	44.6	47.7
20	Diatomite.....	1,000 sh. ton	689	613	619	627	635	628	658
21	Feldspar.....	1,000 sh. ton	710	615	710	710	700	735	720
22	Fluorspar.....	1,000 sh. ton	93	77	61	72	66	78	69
23	Garnet (abrasive).....	1,000 sh. ton	26.9	27.3	29.8	29.6	36.7	32.3	42.3
24	Gem stones (estimate).....	(x)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
25	Gypsum.....	Mil. sh. ton	12.4	10.5	12.9	14.3	14.4	15.4	15.6
26	Helium ⁵	Mil. cu. ft.	1,458	1,248	1,299	1,642	1,865	1,841	2,230
27	Lime.....	Mil. sh. ton	19.0	14.9	14.9	15.9	15.7	14.5	15.7
28	Magnesium compounds ⁷	1,000 sh. ton	(d)	(d)	618	(d)	(d)	(d)	(d)
29	Mica: Scrap.....	1,000 sh. ton	116	106	140	161	138	148	161
30	Peat.....	1,000 sh. ton	788	769	725	814	882	1,038	958
31	Perlite.....	1,000 sh. ton	638	506	474	498	507	507	533
32	Phosphate rock.....	Mil. metric ton	(NA)	(NA)	(NA)	(NA)	50.8	40.3	41.0
33	Potassium salts (K ₂ O equivalent).....	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	1,266	1,147	1,485
34	Pumice.....	1,000 sh. ton	543	416	449	502	508	554	392
35	Pyrite.....	1,000 lg. ton	834	665	(d)	(d)	(d)	(d)	(d)
36	Salt (common).....	Mil. sh. ton	40.4	37.9	34.6	39.2	40.1	36.7	36.5
37	Sand and gravel.....	Mil. sh. ton	793	621	682	803	830	910	924
38	Sodium carbonate (natural).....	1,000 sh. ton	(d)	(d)	(d)	(d)	(d)	(d)	8,891
39	Sodium sulfate (natural).....	1,000 sh. ton	583	(d)	423	435	389	396	382
40	Stone ⁸	Mil. sh. ton	982	791	863	957	1,002	1,024	1,201
41	Sulfur: Frasch mines (shipments).....	1,000 metric ton	(NA)	(NA)	(NA)	(NA)	4,678	4,180	3,610
42	Talc, soapstone, pyrophyllite.....	1,000 sh. ton	1,473	1,135	1,066	1,127	1,269	1,302	1,348
43	Tripoli.....	1,000 sh. ton	121	113	111	124	(d)	117	115
44	Vermiculite.....	1,000 sh. ton	337	316	282	315	314	317	303
45	Nonmetallic minerals, undistributed ⁹	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
46	Metals	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)
47	Antimony ore and concentrate.....	Metric ton ¹⁰	311	456	760	505	(d)	(d)	(d)
48	Bauxite (dried).....	1,000 metric ton ¹²	1,559	732	679	856	674	510	576
49	Copper ²	1,000 metric ton	1,181	1,147	1,038	1,103	1,106	1,147	1,256
50	Gold ²	1,000 troy oz.	970	1,466	2,003	2,085	2,427	3,739	4,966
51	Iron ore, usable ¹³	Mil. lg. ton ¹⁴	69.6	35.8	44.6	50.9	49.4	41.3	47.1
52	Lead ²	1,000 metric ton	550	513	449	322	414	340	311
53	Manganiferous ore ¹⁵	1,000 sh. ton ¹⁴	174	32	34	88	20	14	19
54	Mercury.....	76 lb. flasks	30,657	25,760	25,070	19,048	16,530	(d)	(d)
55	Molybdenum ¹⁶	Mil. lb.	149	76	49	102	112	95	70
56	Nickel ¹⁷	1,000 sh. ton	11	3	(NA)	10	6	2	-
57	Silver ²	Mil. troy oz.	32.3	40.2	43.4	44.6	39.4	34.5	39.8
58	Titanium concentrate: Ilmenite ²	1,000 metric ton ¹⁴	539	211	(d)	(d)	(d)	(d)	(d)
59	Tungsten ore and concentrate.....	Metric ton ¹⁸	(NA)	(NA)	(NA)	(NA)	983	817	(d)
60	Vanadium ²	Sh. ton	4,806	4,098	2,171	1,617	(d)	(d)	(d)
61	Zinc mine production ²	1,000 metric ton	317	303	275	253	227	203	217
62	Metals, undistributed ⁹	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable.
¹ 42 gal. bbl. ² Recoverable content of ores, etc. ³ Crude production. Grindstones, pulpstones, millstones, grinding pebbles, sharpening stones, and tubemill liners. ⁴ Contains bituminous limestone and sandstone, and gilsonite. ⁵ Value included in "Industrial minerals, undistributed." ⁶ 1980, crude and refined; thereafter, refined only. ⁷ From sea water and brines, except for metals (M₂O equiv.). ⁸ Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table. Includes calcareous marl and slate.

AND PRINCIPAL PRODUCING STATES, 1987

(including consumption by producers). See *Historical Statistics, Colonial Times to 1970*, series M 13-37 for selected values)

PRODUCTION VALUE (mil. dol.)							Principal producing States ranked by quantity, 1987
1980	1982	1983	1984	1985	1986	1987	
146,750.0	179,137.9	168,868.4	179,201.0	167,978.5	117,265.7	123,808.2	(x)
121,616.0	159,470.9	147,748.4	156,040.0	144,671.5	93,801.7	97,462.2	(x)
20,200.0	22,620.0	20,110.0	22,749.8	22,062.9	21,000.6	21,049.6	KY, WY, WV, PA, IL.
260.0	230.0	210.0	202.5	215.3	189.6	155.4	PA.
32,090.0	45,560.0	43,570.0	48,491.8	43,167.0	32,574.5	28,972.1	TX, LA, OK, NM.
67,930.0	90,030.0	83,050.0	84,110.0	78,707.0	39,631.7	46,929.6	TX, AK, CA, LA.
1,136.0	1,030.9	808.4	485.9	355.6	405.3	355.5	WY, NM, TX.
16,213.0	14,150.0	15,263.0	17,157.0	17,678.0	17,647.0	18,899.0	(x)
1.9	.6	.5	.6	.5	(D)	(D)	OH, AR, IN, WI.
30.6	24.9	27.9	24.2	20.5	17.4	17.2	CA and VT.
25.0	(D)	(⁹)	(⁹)	(⁹)	(NA)	(NA)	(NA)
66.0	69.5	29.2	25.4	21.5	12.3	15.8	NV, GA, MO, CA.
366.8	384.6	439.2	456.7	404.8	426.1	475.1	CA, NV, NM, TX.
95.4	102.6	91.0	95.0	80.0	93.0	107.0	AR and MI.
47.9	61.5	(⁹)	93.0	(⁹)	(NA)	(NA)	MI, CA, WA.
2.6	3.4	-	-	-	(NA)	(NA)	(x)
3,613.3	3,084.4	3,315.7	3,810.4	3,817.3	3,759.9	3,646.6	CA, TX, PA, MO.
188.5	145.2	186.2	219.9	213.1	231.8	259.9	IN, PA, FL, AL.
898.9	825.1	931.1	1,032.1	1,011.4	1,095.2	1,202.3	GA, TX, NC, OH.
100.8	107.6	114.3	120.9	127.0	128.4	134.2	CA, NV, WA, OR.
23.2	20.3	22.5	23.5	22.8	26.1	26.1	NC, CT, CA, GA.
12.6	13.3	10.0	(⁹)	(D)	11.7	11.7	IL and NV.
1.9	2.3	2.5	2.5	3.0	2.6	4.4	ID, NY, ME.
6.9	7.2	7.4	7.5	7.4	9.2	21.4	(x)
103.1	89.1	101.4	113.7	111.8	99.6	107.0	MI, IA, TX, OK.
30.2	42.4	45.5	61.6	69.9	72.8	82.5	KS, WY, TX, NM.
842.9	696.2	757.6	811.2	809.0	757.9	786.1	OH, MO, PA, KY.
(⁹)	(⁹)	182.5	(⁹)	(⁹)	(⁹)	(NA)	MI, CA, UT, DE.
6.3	6.4	6.5	7.1	6.3	7.1	8.2	NC, SD, NM, SC.
16.2	16.9	18.7	19.9	21.9	24.0	26.2	FL, MI, IL, CA.
16.5	16.0	15.7	16.6	17.2	15.6	16.5	NM, AZ, CA, ID.
1,256.9	950.3	1,021.1	1,182.2	1,235.8	897.1	793.3	FL, NC, ID, TN.
(NA)	(NA)	(NA)	(NA)	178.4	152.0	195.7	NM, UT, CA.
4.3	3.8	4.5	4.9	4.6	5.8	4.5	OR, NM, CA, ID.
13.8	41.9	(⁹)	(⁹)	(⁹)	(NA)	(NA)	TN, AZ, CO, NM.
656.2	671.4	597.1	675.1	739.6	665.4	684.2	LA, TX, NY, OH.
2,289.0	1,997.8	2,270.2	2,621.2	2,812.1	3,106.5	3,366.6	CA, TX, MI, AZ.
(⁹)	(⁹)	(⁹)	(⁹)	(⁹)	(D)	593.7	WY and CA.
36.4	(⁹)	39.4	40.1	35.9	34.1	33.1	CA and TX.
3,393.5	3,056.0	3,474.8	3,910.5	4,053.0	4,255.0	5,248.6	PA, TX, FL, GA.
720.5	434.7	414.2	546.1	573.6	508.5	386.8	TX and LA.
25.6	20.7	20.3	23.2	29.2	31.2	28.8	MT, VT, TX, NY.
7	7	7	7	(D)	9	1.0	IL, OK, AR, PA.
23.5	28.5	27.2	31.5	32.4	34.4	33.1	SC, MT, VA.
941.2	959.3	867.5	937.9	1,046.0	994.4	374.1	(x)
5,921.0	5,517.0	5,857.0	6,004.0	5,629.0	5,817.0	7,447.0	(x)
(¹¹)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	(NA)	(NA)
22.4	12.3	11.3	15.6	12.9	10.4	10.9	AR, AL, GA.
2,666.9	1,840.9	1,751.5	1,625.1	1,632.5	1,670.7	2,284.2	AZ, NM, MI, MT.
594.1	551.0	849.1	751.8	771.0	1,376.9	2,224.7	NV, CA, SD, UT.
2,544.1	1,491.8	1,945.0	2,247.7	2,076.7	1,472.5	1,503.1	MN, MI, MO, UT.
515.2	288.6	214.7	181.7	174.0	165.2	248.7	MO, CO, ID, MT.
2.4	.3	.2	.9	(D)	(D)	(D)	SC.
11.9	(¹¹)	(¹¹)	(¹¹)	(D)	(D)	(D)	NV, UT, CA.
1,344.2	504.1	166.6	326.8	347.8	240.5	179.3	CO, ID, AZ, MT.
(¹¹)	(¹¹)	-	(¹¹)	(D)	(D)	-	(x)
667.3	320.0	496.9	363.0	242.2	188.8	278.9	NV, ID, MT, UT.
32.0	19.1	(¹¹)	(¹¹)	(¹¹)	(¹¹)	(NA)	FL.
50.6	22.1	10.5	13.4	9.1	5.8	(D)	CA.
64.4	52.6	30.7	30.7	(¹¹)	(¹¹)	(NA)	ID, CO, UT.
261.7	257.1	251.2	270.8	201.6	170.1	200.5	TN, NY, MO, CO.
144.8	157.6	135.6	2,428.0	2,234.9	1,562.6	1,636.7	(x)

⁹ Comprises value of items that cannot be disclosed. ¹⁰ Antimony content. ¹¹ Included with "Metals, undistributed."
¹² Dried equivalent. ¹³ Represents shipments; includes byproduct ores. ¹⁴ Gross weight. ¹⁵ 5 to 35 percent manganese-
 erous ore. ¹⁶ Content of concentrate. ¹⁷ Content of ore and concentrate. ¹⁸ Tungsten content.

Source: U.S. Bureau of Mines, *Minerals Yearbook*. Mineral fuels: U.S. Energy Information Administration, *Annual Energy Review*, *Uranium Industry Annual*; *Petroleum Supply Annual*, vol. 1; *Natural Gas Annual*; and *Quarterly Coal Report*.

NO. 1209. NONFUEL MINERAL COMMODITIES—SUMMARY: 1988

[Estimated]

MINERAL	MINERAL DISPOSITION					Average price per unit (dollars)	Employment (number)
	Unit	Production	Exports	Net import reliance ¹ (percent)	Consumption, apparent		
Aluminum	1,000 metric ton	² 3,900	1,100	10	5,400	110.0	² 15,000
Antimony	Sh. ton	² 21,000	2,000	65	46,000	107.00	110
Arsenic	Metric ton	—	490	100	23,700	(NA)	(NA)
Asbestos	1,000 metric ton	18	30	78	83	434.00	58
Barite	1,000 sh. ton	406	1	71	1,405	33.69	400
Bauxite	1,000 metric ton	560	85	97	4,300	15.00-20.00	68
Beryllium	Sh. ton	280	50	13	320	³ 225.00	400
Bismuth	1,000 lb.	(d)	150	(b)	(NA)	5.73	30
Boron (B ₂ O ₃ content)	1,000 sh. ton	624	650	(*)	465	226.00	1,250
Bromine	Mil. lb.	360	28	(*)	356	.43-.46	300
Cadmium	Metric ton	1,900	600	47	3,700	⁵ 6.90	200
Cement	1,000 sh. ton	78,100	100	19	92,000	51.00	20,900
Cesium	Lb.	(d)	(NA)	100	(NA)	⁶ 400.00	25
Chromium	1,000 metric ton	—	5	75	526	⁷ 180.00	(NA)
Clays	1,000 sh. ton	48,466	3,600	(*)	44,902	(NA)	11,300
Columbium	1,000 lb.	—	80	100	7,500	⁸ 2.25	450
Copper	1,000 metric ton	1,440	540	13	2,280	⁹ 120.00	12,000
Diamond (industrial)	Mil. carats	(d)	1	(*)	(d)	.88	(NA)
Diatomite	1,000 sh. ton	687	157	(*)	534	208.00	1,000
Feldspar	1,000 sh. ton	700	14	(*)	693	37.14	450
Fluorspar	1,000 sh. ton	70	3	91	750	173.00	200
Gallium	kilograms	—	(NA)	(NA)	(NA)	525.00	20
Garnet (industrial)	Sh. ton	46,325	8,800	(*)	40,850	¹⁰ 60-2,000	130
Gem stones	Mil. dol	57.3	1,347	98	3,170	(NA)	600
Germanium	Kilograms	21,000	(NA)	(NA)	40,000	¹¹ 1,060.00	90
Gold	Mil. troy oz.	6.6	12.6	(NA)	3.3	439.00	12,800
Graphite	1,000 sh. ton	(d)	20	(d)	(d)	¹² 675.00	(d)
Gypsum	1,000 sh. ton	14,000	4	40	25,000	¹³ 7.00	6,800
Indium	1,000 troy oz.	(NA)	(NA)	(NA)	900	9.92	(NA)
Iodine	1,000 lb.	(d)	(NA)	(d)	(d)	7.55	50
Iron ore	Mil. lg. ton	58.4	4.9	22	75.1	58-.87	7,100
Iron and steel scrap	Mil. sh. ton	85.8	10.7	(*)	75.9	109.33	20,000
Iron and steel slag	1,000 sh. ton	21,187	(NA)	(NA)	(NA)	5.47	1,000
Lead	1,000 metric ton	390	15	14	1,170	¹⁴ .37	1,400
Lime	1,000 sh. ton	16,700	11	1	16,847	50.00	5,400
Magnesium metal	1,000 sh. ton	155	55	(*)	151	1.58	450
Magnesium compounds	1,000 sh. ton	480	35	29	675	(NA)	700
Manganese	1,000 sh. ton	—	89	100	825	1.80	(NA)
Mercury	76 lb. flasks	(d)	(NA)	(d)	(d)	350.00	20
Mica, scrap and flake	1,000 sh. ton	147	7	6	127	51.00	80
Molybdenum	1,000 lb.	75,000	50,000	(*)	37,000	3.30	1,000
Nickel	Sh. ton	—	3,000	75	200,000	6.00	—
Nitrogen	1,000 sh. ton	14,000	800	11	15,753	100.00	2,500
Peat	1,000 sh. ton	1,050	—	36	1,651	23.20	790
Perlite	1,000 sh. ton	547	35	5	577	30.16	125
Phosphate rock	1,000 metric ton	46,000	8,000	(*)	40,600	24.50	7,300
Platinum-group metals	1,000 troy oz.	(d)	1,000	93	2,700	500.00	400
Potash	1,000 metric ton	1,520	500	69	4,925	97.00	1,660
Pumice and pumicite	1,000 sh. ton	440	2	47	825	11.15	80
Rare-earth metals	Metric ton	¹⁵ 17,000	3,862	(*)	15,900	2.31	300
Salt	1,000 sh. ton	37,800	750	11	42,450	¹⁶ 93.50	4,300
Sand and gravel:							
Construction	1,000 sh. ton	881,200	1,100	(*)	880,350	3.50	47,000
Industrial	1,000 sh. ton	27,000	1,100	(*)	26,196	13.93	1,600
Silicon	1,000 sh. ton	445	25	30	640	¹⁷ 5.1	2,700
Silver	Mil. troy oz.	45	30	(NA)	126	6.55	2,500
Sodium carbonate	1,000 sh. ton	9,550	2,300	(*)	7,469	70.00	2,800
Sodium sulfate	1,000 sh. ton	410	135	(*)	840	87.00	350
Stone (crushed)	Mil. sh. ton	1,220	3	—	1,220	4.60	55,000
Sulfur (all forms)	1,000 metric ton	10,550	1,050	14	12,200	89.87	3,200

— Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. ¹ Net import reliance as a percent of consumption. ² Primary. ³ Domestic, metal, vacuum-cast ingot, per pound. ⁴ Net exporter. ⁵ Average dollars per pound, 1 to 5 short ton lots. ⁶ Cesium oxide, per pound. ⁷ Turkish, dollars per metric ton. ⁸ Columbite, dollars per pound. ⁹ Domestic producer cathode, cents per pound. ¹⁰ Represents range of values. ¹¹ Producer price, zone refined, first reduction. ¹² Flake. ¹³ Crude, free on board (f.o.b.) mine. ¹⁴ U.S. price. ¹⁵ Bastnasite only. ¹⁶ Vacuum and open pit. ¹⁷ Average cents per pound.

Source: U.S. Bureau of Mines, *Mineral Commodity Summaries*, annual.

NO. 1210. MINERAL PRODUCTION—VALUE, 1980 TO 1987, AND PRINCIPAL MINERALS IN ORDER OF VALUE, 1987, BY STATE

[In millions of dollars. Data for States may not add to total because State and U.S. totals were independently derived. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	1980	1984	1985	1986	1987			Principal minerals in order of value
					Total	Fuels	Non-fuels	
U.S.	146,750	179,201	167,905	(NA)	(NA)	97,014	26,346	Petroleum, natural gas (wet), coal.
N.E.	268	305	325	390	510	-	510	(x)
ME.....	37	38	41	53	65	-	65	Cement, sand and gravel, crushed stone.
NH.....	25	23	33	39	55	-	55	Sand and gravel, dimension stone, crushed stone.
VT.....	43	45	50	55	72	-	72	Dimension stone, crushed stone, sand and gravel.
MA.....	91	107	117	149	177	-	177	Crushed stone, sand and gravel, dimension stone.
RI.....	6	12	12	14	19	-	19	Sand and gravel, crushed stone.
CT.....	66	80	72	80	122	-	122	Stone, sand and gravel, feldspar.
M.A.	4,442	4,826	4,682	4,416	4,436	2,556	1,880	(x)
NY.....	557	736	790	792	713	63	650	Stone, cement, salt.
NJ.....	149	156	178	186	214	-	214	Crushed stone, sand and gravel.
PA.....	3,736	3,934	3,714	3,438	3,509	2,493	1,016	Coal, crushed stone, natural gas.
E.N.C.	9,005	10,423	9,836	(D)	8,940	5,732	3,208	(x)
OH.....	2,390	2,867	2,746	2,507	2,493	1,724	769	Coal, natural gas, crushed stone.
IN.....	1,106	1,391	1,327	1,200	1,272	908	364	Coal, crushed stone, cement.
IL.....	2,770	3,212	3,101	2,714	2,680	2,163	517	Coal, petroleum, crushed stone.
Mi.....	2,587	2,824	2,537	2,104	2,303	937	1,366	(D)
WI.....	152	129	125	165	192	-	192	Sand and gravel, crushed stone, lime.
W.N.C.	7,281	8,425	7,831	(D)	(D)	(D)	3,010	(x)
MN.....	1,782	1,676	1,548	1,128	1,143	-	1,143	Iron ore, sand and gravel, crushed stone.
IA.....	265	266	243	262	317	12	305	Crushed stone, cement, sand and gravel.
MO.....	1,172	906	893	(D)	(D)	(D)	863	(NA)
ND.....	801	1,887	1,700	962	1,031	1,005	26	Petroleum, coal, natural gas.
SD.....	250	244	254	261	302	39	263	(NA)
NE.....	272	285	283	191	197	107	90	(D)
KS.....	2,740	3,161	2,910	1,881	1,949	1,629	320	Petroleum, natural gas, cement.
S.A.	10,528	(D)	10,580	(D)	(D)	(D)	4,332	(x)
DE.....	2	3	4	4	6	-	6	Sand and gravel, magnesium compounds.
MD.....	293	356	338	413	440	95	345	Crushed stone, coal, sand and gravel.
VA.....	1,708	1,614	1,649	(D)	(D)	(D)	461	(NA)
WV.....	4,860	5,157	5,005	4,699	4,769	4,625	144	Coal, natural gas, crushed stone.
NC.....	380	451	433	467	477	-	477	Crushed stone, phosphate, sand and gravel.
SC.....	195	276	276	296	341	-	341	Cement, crushed stone, clays.
GA.....	771	(D)	946	1,091	1,212	-	1,212	Clays, stone, cement.
FL.....	2,317	1,990	1,929	(D)	(D)	(D)	1,346	(D)
E.S.C.	8,318	9,790	9,486	(D)	1,375	(D)	1,375	(x)
KY.....	4,498	4,931	4,880	4,482	4,795	4,505	290	(D)
TN.....	874	734	715	(D)	(D)	(D)	528	(NA)
AL.....	1,994	2,531	2,550	2,062	2,175	1,728	447	Coal, natural gas, petroleum.
MS.....	1,150	1,534	1,341	803	875	765	110	Petroleum, natural gas, sand and gravel.
W.S.C.	59,228	(D)	(D)	(D)	48,527	46,185	2,342	(x)
AR.....	787	(D)	(D)	(D)	(D)	(D)	264	(NA)
LA.....	16,396	31,715	(D)	(D)	(D)	(D)	424	(NA)
OK.....	7,336	10,693	9,361	5,749	5,643	5,420	223	Natural gas, petroleum, coal.
TX.....	34,710	43,418	40,178	24,649	24,518	23,087	1,431	Petroleum, natural gas, coal.
Mt.	18,862	(D)	(D)	(D)	(D)	(D)	6,331	(x)
MT.....	1,331	1,650	1,517	1,135	1,291	923	368	Coal, petroleum, gold.
ID.....	522	412	348	247	269	-	269	Silver, phosphate, gold.
WY.....	5,133	7,143	6,572	3,597	4,819	4,174	645	Petroleum, coal, natural gas.
CO.....	2,544	2,255	2,125	1,464	1,491	1,118	373	Petroleum, coal, natural gas.
NM.....	4,789	5,924	5,650	3,462	3,769	3,031	738	(D)
AZ.....	2,476	(D)	(D)	(D)	(D)	(D)	1,791	(NA)
UT.....	1,661	2,134	1,843	1,462	1,824	1,124	700	(D)
NV.....	408	685	710	(D)	(D)	(D)	1,447	(NA)
Pac.	20,400	(D)	(D)	(D)	(D)	(D)	3,348	(x)
WA.....	297	(D)	(D)	(D)	(D)	(D)	438	(NA)
OR.....	152	128	140	135	5,661	5,500	161	(D)
CA.....	10,483	12,907	(D)	8,262	(D)	(D)	2,551	Petroleum, natural gas, sand and gravel.
AK.....	9,498	(D)	(D)	(D)	(D)	(D)	125	Petroleum, natural gas, sand and gravel.
HI.....	60	51	53	70	73	-	73	Lime, crushed stone, cement.

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable.
 * Partial data only.

Source: U.S. Bureau of the Census. Compiled from data from U.S. Bureau of Mines and U.S. Energy Information Administration.

NO. 1211. MINERAL INDUSTRIES—GROSS ASSETS AND CAPITAL EXPENDITURES: 1972 TO 1982

(In millions of dollars)

INDUSTRY AND YEAR	END OF YEAR GROSS VALUE OF DEPRECIABLE ASSETS					CAPITAL EXPENDITURES					
	Total ¹	Buildings and other structures	Machinery and equipment	Mineral exploration and development ¹	Mineral land and rights ¹	Total ²	New buildings and other structures	New machinery and equipment	Used buildings and other structures	Used machinery and equipment	Mineral exploration and development ²
Mineral industries: ³											
1972.....	21,690	4,244	15,038	(*)	† 2,409	2,802	317	1,407	(*)	† 128	230
1977.....	44,664	6,099	33,068	2,625	2,871	6,902	785	5,068	30	399	520
1982.....	94,613	10,228	73,419	5,036	5,930	13,472	1,229	10,551	78	937	677
Crude petroleum, natural gas:											
1972.....	47,500	(NA)	(NA)	(NA)	(NA)	2,954	403	842	(*)	4 44	1,666
1977.....	94,414	(NA)	(NA)	(NA)	(NA)	10,916	571	2,269	14	93	7,969
1982.....	233,052	(NA)	(NA)	(NA)	(NA)	34,281	967	5,550	20	215	26,529

NA Not available. ¹ Excludes data for mineral exploration and development, and mineral land and rights portions for mining service industries and natural gas liquids industry. ² Excludes data for mineral exploration and development portion for mining service industries and natural gas liquids industry. ³ Excludes crude petroleum and natural gas. ⁴ Not collected separately. Data for mineral exploration and development are combined with mineral land and rights. Data for used buildings and other structures are combined with used machinery and equipment.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1982*.

NO. 1212. MINERAL INDUSTRIES—EMPLOYMENT, HOURS, AND EARNINGS: 1985 TO 1988

ITEM	Unit	1985	1986	1987	1988	ITEM	Unit	1985	1986	1987	1988
All mining:						Metal mining:					
All employees.....	1,000.....	927	777	717	721	All employees.....	1,000.....	46	41	44	51
Production workers.....	1,000.....	658	545	511	519	Production workers.....	1,000.....	34	31	33	40
Average weekly hours.....	No.....	43.4	42.2	42.4	42.3	Average weekly hours.....	No.....	40.9	41.1	41.9	42.2
Avg. weekly earnings.....	Dol.....	520	526	532	539	Avg. weekly earnings.....	Dol.....	547	542	542	560
Coal mining:						Nonmetallic minerals, except fuels:					
All employees.....	1,000.....	187	176	162	151	All employees.....	1,000.....	110	110	110	113
Production workers.....	1,000.....	153	144	132	123	Production workers.....	1,000.....	84	83	85	86
Average weekly hours.....	No.....	41.3	40.8	42.2	42.3	Average weekly hours.....	No.....	44.5	44.5	45.4	45.4
Avg. weekly earnings.....	Dol.....	626	625	662	672	Avg. weekly earnings.....	Dol.....	453	462	481	497
Oil and gas extraction:											
All employees.....	1,000.....	583	451	402	406						
Production workers.....	1,000.....	367	287	261	269						
Average weekly hours.....	No.....	44.2	42.6	41.7	41.3						
Avg. weekly earnings.....	Dol.....	489	495	481	488						

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly.

NO. 1213. SELECTED MINERAL PRODUCTS—AVERAGE PRICES: 1970 TO 1988

(Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970*, series M 96, M 139, M 209, M 248, and M 262, for bituminous coal, crude petroleum, iron ore, lead, and aluminum, respectively)

YEAR	Tantalum (dol. per lb.) ¹	Copper, electrolytic ² (cents per lb.)	Platinum ³ (dol./ troy oz.)	Gold (dol./ fine oz.)	Silver (dol./ fine oz.)	Lead ⁴ (cents per lb.)	Tin (New York) ⁵ (cents per lb.)	Zinc ⁶ (cents per lb.)	Sulfur, crude ⁷ (dol./ metric ton)	Bituminous coal ⁸ (dol./ short ton)	Crude petroleum ⁶ (dol./ bbl.)	Natural gas ⁸ (dol./ 1,000 cu. ft.)
1970.....	9.15	58.2	133	36	1.77	15.7	174.2	15.3	9 22.77	6.26	3.18	.17
1975.....	18.32	64.2	164	161	4.42	21.5	339.8	39.0	9 44.91	19.23	7.67	.45
1976.....	20.31	69.6	162	125	4.35	23.1	379.8	37.1	9 45.72	19.43	8.19	.58
1977.....	25.64	66.8	162	148	4.62	30.7	534.6	34.4	9 44.38	19.82	8.57	.79
1978.....	34.19	66.5	237	194	5.40	33.7	629.6	31.0	45.17	21.78	9.00	.91
1979.....	80.00	93.3	352	308	11.09	52.6	753.9	37.3	55.75	23.65	12.64	1.18
1980.....	126.37	101.3	439	613	20.64	42.5	846.0	37.4	89.06	24.52	21.59	1.59
1981.....	99.51	84.2	475	460	10.52	36.5	733.0	44.6	111.48	26.29	31.77	1.98
1982.....	49.95	72.8	475	376	7.95	25.5	653.9	38.5	108.27	27.14	28.52	2.46
1983.....	30.60	76.5	475	424	11.44	21.7	654.8	41.4	87.24	25.85	26.19	2.59
1984.....	37.44	66.8	475	361	8.14	25.6	623.8	48.6	94.31	25.51	25.88	2.66
1985.....	33.68	67.0	475	318	6.14	19.1	596.0	40.4	106.46	25.10	24.09	2.51
1986.....	23.74	66.1	519	368	5.47	22.1	383.2	38.0	105.22	23.70	12.51	1.94
1987.....	27.08	82.5	600	448	7.01	35.9	418.8	41.9	89.78	23.00	15.40	1.67
1988, prel.....	97.37	120.5	600	438	6.54	37.1	441.4	60.2	85.95	22.00	12.57	1.71

¹ Dollars per pound of tantalum content. ² Domestic market. ³ Average annual producer prices. ⁴ 1970, New York prices; beginning 1975, nationwide delivered basis. ⁵ Straits tin through 1975; thereafter, composite price. ⁶ Prime western. Beginning 1975, delivered price. ⁷ F.O.B. works. ⁸ Average value at the point of production. Source: U.S. Energy Information Administration, *Annual Energy Review*. ⁹ Per long ton.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Facts and Problems*, 1980 edition, and *Mineral Commodity Summaries*, annual.

NO. 1214. PRINCIPAL FUELS, NONMETALS, AND METALS—U.S. PRODUCTION AS PERCENT OF WORLD PRODUCTION: 1980 TO 1987

MINERAL	Unit	WORLD PRODUCTION						PERCENT U.S. OF WORLD					
		1980	1983	1984	1985	1986	1987, prel.	1980	1983	1984	1985	1986	1987, prel.
Fuels:													
Coal	Bil. sh. ton	4.2	4.4	4.7	4.9	5.0	5.2	20	18	19	17	18	18
Petroleum (crude)	Bil. bbl.	21.8	19.3	19.8	19.6	20.4	20.5	14	16	16	17	16	15
Natural gas (dry, marketable)	Tril. cu. ft.	53.3	55.0	60.0	62.0	63.5	68.1	36	29	29	26	25	24
Natural gas plant liquids	Bil. bbl.	1.3	1.4	1.6	1.6	1.6	1.6	44	40	37	36	35	36
Nonmetals:													
Asbestos	Mil. metric ton	4.7	4.4	4.3	4.3	4.1	4.1	2	2	1	1	1	1
Barite	Mil. short ton	8.3	5.9	6.4	6.6	5.2	5.1	27	13	12	11	6	9
Feldspar	Mil. short ton	3.5	4.0	4.2	4.5	4.6	4.5	20	18	17	16	16	16
Fluorspar	Mil. short ton	5.3	4.7	5.3	5.4	5.2	5.2	2	1	1	1	1	1
Gypsum	Mil. short ton	86.5	88.9	93.8	94.3	95.3	98.9	13	15	15	15	16	16
Mica (incl. scrap)	1,000 short ton	251	268	305	280	318	327	46	52	53	49	47	49
Nitrogen, agricultural ²	Mil. short ton	81.4	86.7	96.9	98.9	99.3	102.7	20	13	14	13	12	13
Phosphate rock	Mil. metric ton	139	141	152	149	139	145	39	30	33	34	28	28
Potash (K ₂ O equiv.)	Mil. metric ton	27.9	27.4	29.3	29.2	28.8	29.8	8	5	5	4	4	4
Sulfur, elemental	Mil. metric ton	54.9	49.8	51.9	54.3	54.1	54.2	22	19	21	21	21	19
Metals, mine basis:													
Bauxite	Mil. metric ton	89.2	78.7	87.8	84.5	86.1	90.3	2	1	1	1	1	1
Columbian concentrates (Columbian content)	Mil. lb.	33.4	46.6	73.7	78.6	76.7	70.4	-	-	-	-	-	-
Copper ³	Mil. metric ton	7.7	7.7	8.0	8.1	8.1	8.5	15	14	14	14	14	15
Gold	Mil. troy oz.	39.2	45.2	46.8	49.2	51.6	52.5	2	4	5	5	5	10
Iron ore	Mil. long ton	877	728	823	845	855	869	8	5	6	6	5	5
Lead ⁴	Mil. metric ton	3.4	3.4	3.3	3.4	3.4	3.5	16	14	10	12	11	9
Mercury	1,000 flasks ⁴	197	181	195	198	179	179	18	14	10	8	(NA)	(NA)
Molybdenum ⁵	Mil. lb.	242	141	214	216	203	186	62	24	48	50	46	40
Nickel ⁶	1,000 short ton	858	712	785	804	862	892	2	5	6	5	2	-
Silver	Mil. troy oz.	344	388	414	422	416	429	9	11	11	9	8	9
Tantalum concentrates (tantalum content)	Mil. lb.	1.2	.7	.7	.7	.4	.5	-	-	-	-	-	-
Titanium concentrates, ilmenite	Mil. short ton	4.1	2.9	3.8	3.9	3.7	4.1	14	(NA)	(NA)	(NA)	(NA)	(NA)
Tungsten	Mil. lb.	114.6	80.2	102	103	94.0	88.7	5	2	3	2	2	1
Vanadium ⁷	1,000 short ton	38.3	30.9	34.3	33.3	32.5	34.3	13	7	5	(NA)	(NA)	(NA)
Zinc ⁸	Mil. metric ton	6.0	6.3	6.5	6.8	6.8	7.1	5	5	4	4	3	3
Metals, smelter basis:													
Aluminum	Mil. short ton	16.9	15.3	17.3	17.0	16.9	17.7	30	24	26	23	20	21
Cadmium	Mil. lb.	40.2	38.9	42.9	41.3	40.8	40.9	9	8	9	9	8	8
Copper	Mil. metric ton	7.9	8.1	8.4	8.7	8.7	8.9	13	12	14	14	14	14
Iron, pig (incl. ferroalloys)	Mil. short ton	565	524	563	572	570	582	12	10	9	9	8	9
Lead	Mil. metric ton	5.4	5.2	5.4	5.6	5.5	5.6	23	20	19	20	18	19
Magnesium	1,000 short ton	348	287	360	362	382	355	49	40	44	41	38	39
Steel ingots and castings	Mil. short ton	787	731	783	790	783	805	14	12	12	11	10	11
Tin	1,000 metric ton	249	200	202	198	191	190	1	1	2	2	2	2
Zinc	Mil. metric ton	6.0	6.2	6.5	6.9	6.8	7.0	6	5	5	5	5	5

- Represents zero. NA Not available. ¹ Source: Energy Information Administration, *International Energy Annual*.

² For fiscal years ending in year shown; see text, section 9. U.S. production includes Puerto Rico. ³ Content of ore and concentrate. ⁴ 76-lb. flasks.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*, annual.

NO. 1215. FEDERAL STRATEGIC AND CRITICAL MATERIALS INVENTORY: 1980 TO 1988

[As of Dec. 31. Covers strategic and critical materials essential to military and industrial requirements in time of national emergency. Market values are estimated current trade values of similar materials and not necessarily amounts that would be realized at time of sale]

MINERAL	Unit	QUANTITY ¹					VALUE (mil. dol.)				
		1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
Tin	1,000 lg. ton	200	185	181	177	174	3,158	2,324	1,129	1,241	1,316
Silver	1,000 troy oz.	139,500	136,006	132,508	111,582	104,921	2,288	801	712	759	640
Cobalt	Mil. lb.	41	53	53	53	53	1,020	590	600	350	398
Bauxite ²	1,000 lg. ton	14,333	17,957	18,032	18,032	18,031	583	871	888	888	888
Manganese ³	1,000 sh. ton	5,130	4,470	4,396	4,172	4,146	599	520	541	458	665
Tungsten ⁴	Mil. lb.	97	87	88	86	85	817	369	260	309	516
Zinc	1,000 sh. ton	380	378	378	378	378	317	268	336	343	570
Titanium	1,000 sh. ton	43	48	48	48	48	432	405	278	306	314
Platinum	1,000 troy oz.	466	466	466	466	466	215	154	217	227	261
Chromium ⁵	1,000 sh. ton	804	854	939	939	997	773	836	897	883	920
Diamond:											
Stones	Carat.	19,224	12,549	19,551	8,549	7,777	349	336	288	273	267
Industrial, bort	Carat.	23,693	22,001	22,001	22,001	22,001	73	39	39	39	39

¹ Consists of stockpile and nonstockpile grades and reflects uncommitted balances. ² Consists of abrasive grade, metallic grade Jamaica, metallic grade Suriname, and refractory. ³ Consists of chemical grade, dioxide battery natural, dioxide battery synthetic, electrolytic, ferro-high carbon, ferro-med. carbon, ferro-silicon, and metal. ⁴ Consists of carbide powder, ferro, metal powder, and ores and concentrates. ⁵ Consists of ferro-high carbon, ferro-low carbon, ferro-silicon, and metal.

Source: U.S. Defense Logistics Agency, *Statistical Supplement, Stockpile Report to the Congress* (AP-3).

NO. 1216. SELECTED MINERAL AND METAL PRODUCTS—QUANTITY AND VALUE OF IMPORTS AND EXPORTS: 1980 TO 1987

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries]

PRODUCT	Unit	QUANTITY					VALUE (mil. dol.)				
		1980	1984	1985	1986	1987	1980	1984	1985	1986	1987
IMPORTS											
Petroleum (crude) ¹	Mil. bbl.	1,975	1,317	1,625	1,626	(NA)	61,899	37,859	22,608	22,608	(NA)
Gem stones: Diamonds	Mil. carat.	4.2	8.2	8.2	9.2	9.1	2,251	2,905	3,007	3,460	3,423
Ores and concentrates:											
Chromium (Cr ₂ O ₃ content)	1,000 metric ton	372	122	160	194	207	57	15	20	22	24
Copper	1,000 metric ton	25.1	17.2	15.8	16.7	16.6	773	529	452	460	409
Iron	Mil. lg. ton	11.4	12.8	10.5	5.6	9.7	87	52	37	14	24
Tungsten	Mil. lb.										
Metals:											
Aluminum	1,000 sh. ton	581	972	958	1,487	(NA)	778	1,293	1,017	1,683	1,852
Cobalt ²	Mil. lb.	15.0	23.3	16.6	11.7	18.6	359	203	181	83	123
Copper refined ingots, etc	1,000 metric ton	427	445	378	502	(NA)	935	621	492	677	735
Gold (bullion)	1,000 troy oz.	4,090	6,032	6,361	13,800	(NA)	2,507	2,294	2,109	5,107	1,053
Iron and steel products											
(major)	Mil. sh. ton	15.5	26.2	24.3	20.7	20.4	7,713	11,356	10,874	9,196	8,567
Platinum group ³	1,000 troy oz.	3,502	4,474	3,990	4,477	(NA)	1,177	1,118	1,026	1,347	1,240
Silver (bullion)	Mil. troy oz.	64.9	93.5	137.4	125.4	(NA)	1,332	785	856	688	460
Zinc: Blocks, pigs, slabs	1,000 sh. ton	452	705	673	733	(NA)	319	636	508	487	581
EXPORTS											
Fuels: ¹											
Bituminous coal	Mil. sh. ton	89.9	80.8	84.0	84.0	(NA)	4,523	4,090	3,862	3,862	(NA)
Petroleum (crude)	Mil. bbl.	30.6	5.8	6.0	6.0	(NA)	751	185	117	117	(NA)
Nonmetallic minerals:											
Gem stones: Diamonds	Mil. carat.	1.3	2.3	2.4	2.5	2.5	1,041	575	571	788	968
Nitrogen compounds (maj.)	Mil. sh. ton	11.1	10.4	10.8	7.8	10.9	1,842	1,635	1,553	(NA)	(NA)
Phosphatic fertilizers ⁴	Mil. sh. ton	7.2	8.2	6.1	5.8	6.8	1,363	1,350	1,225	797	1,083
Metals:											
Aluminum: Ingots, slabs, crude	1,000 sh. ton	715	286	383	231	(NA)	1,107	397	442	283	415
Plates, sheets, bars, etc	1,000 sh. ton	308	219	185	198	(NA)	716	497	411	443	648
Gold (refined bullion)	1,000 troy oz.	4,702	3,482	2,888	3,554	(NA)	2,787	1,285	919	1,307	1,034
Iron and steel products											
(major)	Mil. sh. ton	4.1	1.0	.9	.9	1.1	3,504	1,418	1,321	1,300	950
Magnesium ⁵	1,000 sh. ton	56.8	48.3	40.3	44.0	(NA)	128	137	114	122	131
Molybdenum ⁶	1,000 lb.	614	306	574	1,000	513	5	1	2	3	4
Silver (refined bullion)	Mil. troy oz.	57.2	10.3	12.6	10.1	(NA)	1,327	86	82	57	79
Scrap exports:											
Aluminum	1,000 sh. ton	445	285	413	387	(NA)	483	276	351	333	410
Iron and steel	Mil. sh. ton	11.4	9.8	10.2	12.0	10.7	1,257	938	940	1,082	996

NA Not available. ¹ Source: U.S. Bureau of the Census, *U.S. Imports for Consumption and General Imports, TSUSA Commodity and Country*, FT 246, annual; and *U.S. Exports, Schedule B Commodity and Country*, FT 446, annual. ² Unwrought and semimanufactured. ³ Includes unwrought metal, waste and scrap. ⁴ Superphosphates and ammonium phosphates. ⁵ Metal and alloys, scrap, semimanufactured forms. ⁶ Metals and alloys, crude and scrap.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1217. MINERAL INDUSTRIES—LOST WORKDAY INJURIES AND FATALITIES: 1980 TO 1988

[Excludes office workers. Lost workday injuries are nonfatal occurrences that result in days away from work, days of restricted work activity or a permanent disability. Data for all years includes injuries to independent contractors at mine sites. Beginning with 1985, rates for the non-coal industries are based only on employment and hours worked by mine employees. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286]

ITEM	1980	1985	1987	1988 ¹	ITEM	1980	1985	1987	1988 ¹
Coal mining:					Quarrying and related industries—Con.				
Injuries, total	18,822	9,141	12,400	12,022	Injuries, total	6,923	2,234	3,030	3,740
Fatal	133	68	63	53	Fatal	46	22	25	21
Percent of total	.7	.7	.5	.4	Percent of total	.7	1.0	.8	.6
Rate per million work-hours:					Rate per million work-hours:				
Fatal	.3	.2	.2	.2	Fatal	.2	.2	.2	.2
Nonfatal	43	27	41	42	Nonfatal	28	17	24	27
Fatalities per 1,000 employed ²	.55	.36	.38	.34	Fatalities per 1,000 employed ²	.3	.3	.4	.3
Quarrying and related industries: ³					Metal and nonmetal mining: ⁴				
Injuries, total	3,551	2,571	3,315	3,578	Injuries, total	6,923	2,234	3,030	3,740
Fatal	42	26	24	19	Fatal	46	22	25	21
Percent of total	1.2	1.0	.7	.5	Percent of total	.7	1.0	.8	.6

¹ Preliminary. ² Average number of persons at work each day mines were active. ³ Includes cement. ⁴ Nonmetal mines exclude extraction of Frasch process sulfur.

Source: U.S. Mine Safety and Health Administration, Denver, CO, unpublished data.

NO. 1218. NET U.S. IMPORTS OF SELECTED MINERALS AND METALS AS PERCENT OF APPARENT CONSUMPTION, 1980 TO 1987, AND BY MAJOR FOREIGN SOURCES, 1982-1987

(In percent. Figures based on net imports which equal the difference between imports and exports plus or minus government stockpile and industry stock changes)

MINERAL	1980	1982	1983	1984	1985	1986	1987	Rank of major foreign sources, 1982-1987
Columbium	100	100	100	100	100	100	100	Brazil, Canada, Thailand.
Mica (sheet)	100	100	100	100	100	100	100	India, Belgium, France.
Strontium	100	100	100	100	100	100	100	Mexico, Spain, China: Mainland.
Manganese	98	99	99	98	100	100	100	Gabon, Brazil, Australia.
Bauxite ¹	94	96	96	96	96	96	97	Bauxite: Guinea, Jamaica, Brazil. Alumina: Australia, Jamaica, Suriname.
Platinum group	88	81	89	89	92	92	93	South Africa, United Kingdom, Soviet Union.
Tantalum	90	92	97	92	89	91	89	Thailand, Brazil, Australia.
Cobalt	93	92	95	95	94	85	84	Zaire, Zambia, Canada.
Tungsten	53	42	52	70	68	70	79	China: Mainland, Canada, Bolivia.
Asbestos	78	74	65	75	71	61	78	Canada, South Africa.
Potassium	65	65	75	74	77	75	75	Canada, Israel.
Chromium	91	85	76	80	75	79	75	South Africa, Turkey, Zimbabwe.
Nickel	71	76	75	68	72	75	75	Canada, Norway, Australia.
Tin	79	68	73	74	72	74	73	Brazil, Thailand, Indonesia.
Zinc	60	58	65	68	70	73	70	Canada, Peru, Honduras.
Barium	44	55	65	69	74	71	65	Canada, India, Morocco.
Titanium ²	32	74	(D)	(D)	(D)	(D)	(D)	Australia, Canada, South Africa.
Silver	7	55	59	58	59	71	(NA)	Mexico, Canada, Peru.
Antimony	48	50	54	58	63	64	63	China: Mainland, Mexico, Hong Kong.
Mercury	26	32	30	57	50	(D)	(D)	Spain, China: Mainland, Algeria.
Cadmium	55	73	72	51	57	66	64	Canada, Australia, Mexico.
Selenium	59	55	39	47	(D)	(D)	(D)	Canada, United Kingdom, Japan.
Vanadium	35	24	26	54	(D)	(D)	(D)	South Africa, Venezuela, E.E.C. ³
Gypsum	35	36	40	38	38	36	38	China: Mainland, Mexico, Spain.
Petroleum ⁴ *	39	30	30	32	29	36	35	Mexico, Canada, Venezuela.
Copper	14	1	19	23	28	27	26	Canada, Chile, Peru.
Iron ore	25	34	37	19	21	33	22	Canada, Brazil, Venezuela.
Aluminum	(9)	7	17	7	16	26	23	Canada, Japan, Venezuela.
Iron and steel	15	20	16	23	22	21	19	E.E.C. ³ , Japan, Canada.
Sulfur	14	4	15	16	5	6	7	Canada, Mexico.
Natural gas ⁵	5	5	5	4	5	4	5	Canada, Algeria.

D Withheld to avoid disclosure. NA Not available. ¹ Includes alumina. ² Ilmenite. ³ European Economic Community. ⁴ Includes crude and products. ⁵ Source: Energy Information Administration, *International Energy Annual and Monthly Energy Review*. * Net exports.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Commodity Summaries*; import and export data from U.S. Bureau of the Census.

NO. 1219. PETROLEUM INDUSTRY—SUMMARY: 1970 TO 1987

ITEM	1970 ¹	1973	1975	1980	1981	1982	1983, est.	1984, est.	1985, est.	1986, est.	1987, prel.
Crude oil producing wells, total (Dec. 31) (1,000)	531	497	500	548	557	580	603	621	647	623	620
Daily output per well (bbl.)	18.0	18.3	16.8	15.9	15.4	14.9	14.4	14.3	13.9	13.9	13.4
Completed wells drilled, total (1,000)	28	28	39	70	90	84	75	84	69	38	34
Crude oil (1,000)	13	10	17	32	43	39	37	42	35	18	16
Gas (1,000)	4	7	8	17	20	19	14	17	14	8	8
Dry (1,000)	11	10	14	20	27	26	23	25	20	12	11
Crude oil production, total (mil. bbl.)	3,517	3,361	3,057	3,146	3,129	3,157	3,171	3,250	3,275	3,168	3,047
Value at wells (bil. dol.)	11.2	13.1	23.5	67.9	99.4	90.0	83.1	84.1	78.9	40.0	46.7
Average price per barrel (dol.)	3.18	3.89	7.67	21.59	31.77	28.52	26.19	25.88	24.09	12.51	15.41
Refinery input of crude oil	3,968	4,537	4,541	4,934	4,552	4,297	4,265	4,408	4,381	4,641	4,692
Imports: Crude oil (mil. bbl.)	483	1,184	1,498	1,926	1,605	1,273	1,215	1,254	1,168	1,525	1,706
Refined petroleum products (mil. bbl.)	765	1,099	712	603	584	593	629	736	681	747	731
Import value (mil. dol.)	2,743	7,738	25,059	74,440	75,576	59,587	51,333	54,310	50,368	34,790	44,279
Export value (mil. dol.)	520	575	1,007	2,871	3,815	6,330	5,100	4,801	5,121	3,883	3,922
Operable refineries, number	276	268	279	319	324	301	258	247	223	216	219
Capacity (Jan. 1) (mil. bbl.)	4,388	4,979	5,461	6,584	6,796	6,506	6,154	5,907	5,716	5,643	5,683
Output (mil. bbl.)	4,421	5,057	4,995	5,352	5,106	4,888	4,795	5,007	5,019	5,301	5,339
Utilization rate (per cent)	92.6	93.9	85.5	75.4	68.6	69.9	71.7	76.2	77.6	82.9	82.6
Proved reserves (bil. bbl.)	39.0	35.3	32.7	29.8	29.4	27.9	27.7	28.4	28.4	26.9	(NA)

NA Not available. ¹ Represents peak year for U.S. crude oil production.

Source: U.S. Energy Information Administration, *Annual Energy Review*, and *Petroleum Supply Annual*.

NO. 1220. U.S. PETROLEUM BALANCE: 1980 TO 1987

(In millions of barrels)

ITEM	1980	1981	1982	1983	1984	1985	1986	1987
Petroleum products supplied	6,242	5,861	5,583	5,559	5,756	5,740	5,942	6,083
New supply of products.....	6,249	5,828	5,499	5,471	5,800	5,676	5,995	6,053
Production of products.....	5,765	5,432	5,204	5,160	5,392	5,363	5,604	5,680
Crude input to refineries.....	4,934	4,552	4,297	4,265	4,408	4,381	4,641	4,692
Oil, field production.....	3,146	3,129	3,157	3,171	3,250	3,275	3,168	3,047
Alaska.....	592	587	619	626	631	666	681	716
Lower 48 States.....	2,555	2,541	2,538	2,545	2,619	2,608	2,487	2,331
Net imports.....	1,821	1,522	1,187	1,155	1,188	1,094	1,468	1,851
Imports (gross excluding SPR) ¹	1,910	1,511	1,213	1,130	1,182	1,125	1,507	1,679
SPR ¹ imports.....	16	93	60	85	72	43	18	27
Exports.....	105	83	86	60	66	75	56	55
Other sources.....	33	-98	-46	61	29	12	4	7
Natural gas plant liquids (NGPL), supply.....	577	593	578	570	596	604	575	585
Other liquids.....	253	287	328	326	371	378	388	403
Net imports of refined products.....	484	387	295	311	407	313	391	373
Imports.....	578	531	506	520	604	523	621	596
Exports.....	94	134	211	210	197	210	229	223
Stock withdrawal, refined products.....	-7	33	84	88	44	64	-53	30
Ending stocks, all oils.....	1,392	1,484	1,430	1,454	1,556	1,519	1,593	1,807
Crude oil and lease condensate.....	358	363	350	344	345	321	331	349
Strategic petroleum reserve (SPR) ¹	108	230	294	379	451	493	512	541
Unfinished oils.....	124	111	105	108	94	107	94	93
Gasoline blending components.....	17	50	42	38	39	33	39	38
Petanes plus.....	(NA)	16	11	16	8	8	7	7
Finished refined products.....	785	713	628	569	621	557	609	580
PRODUCT TYPE SUPPLIED								
Total products	6,242	5,861	5,583	5,559	5,756	5,740	5,942	6,083
Finished motor gasoline.....	2,407	2,404	2,387	2,417	2,449	2,493	2,567	2,630
Distillate fuel oil.....	1,049	1,032	975	982	1,041	1,047	1,064	1,086
Residual fuel oil.....	918	762	627	519	501	439	518	462
Liquefied petroleum gases ²	414	535	547	551	576	584	552	588
Pentanes plus, other liquids, etc.....	1,454	1,128	1,047	1,067	1,165	1,155	1,223	1,304
Crude oil.....	(NA)	(NA)	(NA)	24	23	22	18	12

NA Not available. ¹ SPR - Strategic petroleum reserve. For more information, see table 961. ² Includes ethane.Source: U.S. Energy Information Administration, *Petroleum Supply*, annual.

NO. 1221. CRUDE PETROLEUM AND NATURAL GAS—PRODUCTION, BY STATE: 1980 TO 1987

[See *Historical Statistics, Colonial Times to 1970*, series M 138 and M 142 for petroleum production, and series M 147-161 for natural gas production]

STATE	CRUDE PETROLEUM PRODUCTION (mil. bbl.)							NATURAL GAS MARKETED PRODUCTION ¹ (bil. cu. ft.)						
	1980	1982	1983	1984	1985	1986	1987	1980	1982	1983	1984	1985	1986	1987, prel.
Total ²	3,147	3,157	3,171	3,241	3,274	3,168	3,047	20,180	18,520	16,822	18,230	17,198	16,791	17,155
AL.....	22	20	19	20	22	21	21	65	75	91	102	107	107	117
AK.....	592	619	626	630	666	681	716	231	264	277	289	321	305	360
AR.....	18	19	19	19	19	16	14	112	125	128	135	155	131	132
CA.....	357	402	405	412	424	407	365	310	384	415	476	491	462	428
CO.....	30	31	29	29	30	29	29	188	210	164	173	178	164	163
FL.....	43	26	19	14	11	9	8	41	23	21	13	11	9	8
IL.....	23	28	29	29	30	27	24	2	1	2	1	2	(NA)	2
IN.....	5	6	5	6	5	5	4	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(NA)
KS.....	60	71	72	76	75	67	60	735	430	435	466	513	466	395
KY.....	6	7	8	8	8	6	6	57	52	47	62	73	80	(NA)
LA.....	469	458	480	515	508	512	437	6,639	6,172	5,332	5,825	5,014	4,895	5,096
MI.....	34	31	32	31	27	26	26	158	153	139	145	132	127	162
MS.....	36	33	31	33	31	30	28	175	167	151	158	144	141	138
MT.....	30	31	29	30	30	27	25	52	57	52	51	52	47	46
NE.....	6	7	6	6	7	7	6	3	2	2	2	2	1	(NA)
NM.....	75	71	75	79	79	76	72	1,150	991	895	957	905	703	818
NY.....	1	1	1	1	1	1	1	16	16	18	25	32	30	(NA)
ND.....	40	47	51	53	51	46	41	42	54	69	70	73	55	63
OH.....	13	15	15	15	15	13	12	139	138	151	186	182	182	(NA)
OK.....	150	159	159	168	163	149	134	1,892	1,934	1,730	1,986	1,936	1,917	1,987
PA.....	3	4	4	4	5	4	3	97	121	118	166	150	160	(NA)
TX.....	977	925	903	905	889	840	761	7,116	6,469	5,939	6,185	6,053	6,152	6,061
UT.....	25	22	30	35	41	39	36	88	94	63	75	83	90	93
WV.....	2	3	4	4	4	3	3	157	151	130	144	145	135	116
WY.....	126	118	118	124	129	121	115	410	425	444	517	417	403	441

NA Not available. Z Less than 500 million cubic feet. ¹ Excludes nonhydrocarbon gases.² Includes other States not shown separately. State production does not include State offshore production.Source: U.S. Energy Information Administration, *Natural Gas Annual*, *Natural Gas Monthly*, *Energy Data Reports*, and *Petroleum Supply Annual*.

NO. 1222. CRUDE PETROLEUM AND NATURAL GAS—WELLS DRILLED, FOOTAGE, AND DRILLING COST, 1970 TO 1988, AND BY TYPE OF WELL, 1988

[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]

YEAR	WELLS DRILLED		Foot- age drilled (mil. ft.)	DRILLING COST (mil. dol.)		Average depth per well (ft.)	AVERAGE COST PER WELL (\$1,000)		Average cost per ft. (dol.)
	Total	Off- shore		Total	Off- shore		Total	Off- shore	
Wells, total:									
1970	27,177	1,058	136.9	2,579	599	5,037	95	566	18.84
1975	36,960	1,028	177.6	6,571	1,174	4,806	178	1,142	36.99
1980	62,011	1,272	296.0	22,800	3,846	4,773	368	3,024	77.02
1981	80,816	1,476	388.8	36,665	5,551	4,811	454	3,761	94.30
1982	76,652	1,464	362.6	39,428	6,154	4,731	514	4,203	108.73
1983	67,536	1,270	301.2	25,105	4,961	4,460	372	3,906	83.34
1984	77,210	1,421	350.6	25,206	5,024	4,541	326	3,536	71.90
1985	67,821	1,247	314.5	23,697	5,079	4,637	349	4,073	75.35
1986	37,173	898	176.3	13,552	3,596	4,742	365	4,004	76.88
1987	33,041	709	157.4	9,239	2,053	4,762	280	2,896	58.71
1988	33,041	709	157.4	9,238	2,053	4,764	280	2,896	58.69
Oil wells	15,326	224	64.6	3,769	696	4,215	246	3,107	58.35
Gas wells	7,255	142	39.7	2,759	421	5,469	360	2,967	89.55
Dry holes	10,460	343	53.1	2,710	936	5,075	259	2,729	51.05

Source: American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association, *Joint Association Survey on Drilling Costs*, annual.

NO. 1223. FEDERAL OFFSHORE LEASING, EXPLORATION, PRODUCTION, AND REVENUE: 1975 TO 1988

[See source for explanation of terms and for reliability statement]

ITEM	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Tracts offered	Number	1,374	666	483	1,398	1,410	21,689	27,984	15,754	10,724	10,926	33,376
Tracts leased	Number	321	351	218	430	357	1,251	1,400	667	142	640	1,856
Acres offered	1,000	7,247	3,412	2,563	7,680	7,637	120,054	154,384	87,029	58,670	59,782	185,366
Acres leased	1,000	1,680	1,767	1,134	2,265	1,866	6,588	7,495	3,512	734	45,075	10,440
Bonus paid for leased tracts	Bil. dol.	1.1	5.1	4.2	6.6	4.0	5.7	4.0	1.5	.2	.5	1.2
New wells being drilled:												
Active	Number	97	175	191	173	166	134	253	195	95	142	116
Suspended	Number	292	603	739	724	701	597	313	348	279	265	289
Wells completed	Number	5,104	8,964	9,638	10,308	11,164	11,990	13,012	12,285	12,536	12,736	12,827
Wells plugged and abandoned	Number	5,617	7,576	8,057	8,704	8,913	9,374	9,903	10,487	11,909	12,373	13,164
Revenue, total ¹	Bil. dol.	1.7	6.6	6.4	9.9	7.8	9.2	8.0	5.2	2.8	2.9	3.4
Bonuses	Bil. dol.	1.1	5.1	4.2	6.6	4.0	5.7	4.0	1.5	.2	.5	1.2
Oil and gas royalties ²	Bil. dol.	.6	1.5	2.1	3.3	3.8	3.4	4.0	3.6	2.6	2.3	2.1
Rentals	Bil. dol.	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
Production, value ²	Bil. dol.	3.9	9.3	13.1	20.2	22.6	21.0	24.0	22.2	15.7	14.6	12.9
Crude oil	Bil. dol.	2.2	2.9	4.8	8.8	8.9	9.1	9.6	9.6	5.8	5.6	4.2
Condensate	Bil. dol.	.2	.3	.4	.8	1.2	1.1	1.2	1.0	.7	.7	.7
Natural gas	Bil. dol.	1.5	6.1	7.9	10.5	12.4	11.0	13.2	11.5	9.3	8.1	7.9
Production: ³												
Crude oil	Mil. bbls	303	262	259	263	284	304	330	352	350	325	279
Condensate	Mil. bbls	27	23	19	27	37	36	40	37	39	41	41
Natural gas	Tril. cu. ft.	3,459	4,673	4,641	4,850	4,680	3,940	4,537	4,000	3,949	4,425	4,310

¹ Less than \$50 million. ² Includes condensate royalties. ³ Production value is value at time of production, not current value.

Source: U.S. Dept. of the Interior, Minerals Management Service, *Federal Offshore Statistics*, annual.

NO. 1224. NATURAL GAS PLANT LIQUIDS—PRODUCTION AND VALUE: 1970 TO 1987

[Barrels of 42 gallons. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

ITEM	Unit	1970	1973	1975	1980	1981	1982	1983	1984	1985	1986	1987
Field production¹												
Pentanes plus	Mil. bbl.	197	182	149	126	122	103	85	107	103	98	106
Liquefied petroleum gases	Mil. bbl.	400	447	444	441	459	459	480	488	479	466	474
Ethane ²	Mil. bbl.	73	108	123	145	145	155	166	185	180	177	182
Propane ^{2,3}	Mil. bbl.	206	214	202	181	190	189	197	193	190	185	184
Butane (incl. isobutane) ³	Mil. bbl.	121	124	119	115	124	114	116	111	109	104	109
All light products:												
Average value	Dol. per bbl.	2.10	2.93	4.65	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Average yield	Gal. per 1,000 cu ft.	1.37	1.35	1.42	1.63	1.65	1.68	1.80	1.79	1.84	* 1.82	1.81
Natural gas processed	Tril. cu. ft.	19	20	18	15	15	14	13	14	13	* 13	14

NA Not available. ¹ Includes other finished petroleum products, not shown separately. ² Reported production of ethane-propane mixtures have been allocated 70 percent ethane and 40 percent propane. ³ Reported production of ethane-propane mixtures have been allocated 60 percent ethane and 30 percent propane. * Estimated.

Source: Through 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Petroleum Statement Annual, Petroleum Supply Annual, and Natural Gas Annual*.

**NO. 1225. NATURAL GAS—SUPPLY, CONSUMPTION, RESERVES, AND MARKETED PRODUCTION:
1970 TO 1987**

[See also *Historical Statistics, Colonial Times to 1970*, series M 147-161]

ITEM	Unit	1970	1973	1975	1980	1981	1982	1983	1984	1985	1986	1987, prel.
Producing wells (yearend)...	1,000.....	117	124	130	182	199	211	222	234	243	242	254
Production value at wells...	Bil. dol	3.7	5.0	9.0	32.1	39.5	45.6	43.6	48.5	43.2	32.6	29.4
Avg. per 1,000 cu. ft.....	Dollars	4.17	22	45	1.59	1.98	2.46	2.59	2.66	2.51	1.94	1.71
Proved reserves ¹	Tril. cu. ft.	291	250	228	198	202	202	200	197	193	192	(NA)
Marketed production ²	Tril. cu. ft.	21.92	22.65	20.11	20.18	19.96	18.52	16.82	18.23	17.20	16.79	17.15
Drawn from storage.....	Tril. cu. ft.	1.46	1.53	1.76	1.97	1.93	2.16	2.27	2.10	2.40	1.84	1.98
Imports ³	Tril. cu. ft.	.82	1.03	.95	.98	.90	.93	.92	.84	.95	.75	.99
Consumption, total.....	Tril. cu. ft.	21.14	22.05	19.54	19.88	19.40	18.00	16.84	17.95	17.28	16.22	16.68
Residential.....	Tril. cu. ft.	4.84	4.88	4.92	4.75	4.55	4.63	4.38	4.56	4.43	4.31	4.37
Commercial ⁴	Tril. cu. ft.	2.40	2.60	2.51	2.61	2.52	2.61	2.43	2.52	2.43	2.32	2.29
Industrial.....	Tril. cu. ft.	9.25	10.18	8.36	8.20	8.06	6.94	6.62	7.23	6.87	6.50	6.68
Lease and plant fuel....	Tril. cu. ft.	1.40	1.50	1.40	1.03	.93	1.11	.98	1.08	.97	.92	.94
Other industrial.....	Tril. cu. ft.	7.85	8.68	6.97	7.17	7.13	5.83	5.64	6.15	5.90	5.58	5.73
Electric utilities.....	Tril. cu. ft.	3.93	3.86	3.16	3.68	3.84	3.23	2.91	3.11	3.04	2.80	2.84
Transportation ⁵	Tril. cu. ft.	.72	.73	.58	.63	.64	.60	.49	.53	.50	.49	.50
Exports.....	Tril. cu. ft.	.91	.92	.87	.78	.77	.76	.79	.84	.82	.80	.82
Additions to storage ⁷	Tril. cu. ft.	1.86	1.97	2.10	1.95	2.23	2.47	1.82	2.30	2.16	1.98	1.96
Unaccounted for gas ⁸	Tril. cu. ft.	.23	.20	.24	.64	.50	.47	.64	.14	.35	.43	.76
World production (dry).....	Tril. cu. ft.	37.54	43.15	44.10	53.28	54.71	54.18	54.45	58.30	62.17	(NA)	(NA)
U.S. production (dry).....	Tril. cu. ft.	21.01	21.73	19.24	19.40	19.18	17.76	16.03	17.39	16.38	15.99	16.35
Percent U.S. of world....	Percent	56.0	50.4	43.6	36.4	35.1	32.8	29.4	29.8	26.3	(NA)	(NA)

NA Not available. ¹ Estimated, end of year. Source: 1970-1975; American Gas Association, Arlington, VA. (Copyright); thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual.

² Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. For 1980 and thereafter, it excludes the nonhydrocarbon gases subsequently removed. ³ Includes imports of liquefied natural gas. ⁴ Includes deliveries to municipalities and public authorities for institutional heating and other purposes.

⁵ Pipeline fuel. ⁶ Volumetric reduction in natural gas resulting from the extraction of natural gas constituents at natural gas processing plants. ⁷ Beginning with 1980, includes liquefied natural gas (LNG) storage in above ground tanks. ⁸ Derived by subtracting the sum of additions to storage, exports and consumption from total supply.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review*, *International Energy Annual*, and *Monthly Energy Review*, March 1988.

NO. 1226. LIQUEFIED PETROLEUM GASES—SUMMARY: 1980 TO 1987

[In millions of 42-gallon barrels. Includes ethane]

ITEM	1980	1985	1986	1987	ITEM	1980	1985	1986	1987
Production	561	622	619	638	Consumption	538	584	552	588
At natural gas plants.....	441	479	466	474	Ethane ¹	164	210	181	178
At refineries.....	121	143	152	164	Propane.....	298	322	303	307
Imports.....	79	68	88	69	Butane (incl. isobutane) ²	76	52	68	73
Refinery input.....	85	111	110	111	Stocks, Dec. 31.....	116	74	103	97
Exports.....	9	23	15	14					

¹ Reported consumption of ethane-propane mixtures have been allocated 70 percent ethane and 30 percent propane.

² Reported consumption of butane-propane mixtures have been allocated 60 percent butane and 40 percent propane.

Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

NO. 1227. WORLD COAL TRADE: 1975 TO 1986

[In millions of short tons]

COUNTRIES	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986 ¹
Exporting countries, total ²	212.5	210.2	224.7	222.5	254.9	276.0	287.4	291.3	284.2	327.6	364.3	368.4
United States.....	66.3	60.0	54.3	40.7	66.0	88.7	106.5	106.5	76.5	81.2	91.9	89.0
Australia.....	33.5	34.3	42.3	42.6	44.6	46.6	54.3	44.8	59.9	79.7	96.0	100.2
South Africa.....	3.0	6.6	14.0	17.0	25.7	29.9	32.5	29.9	32.2	40.7	49.1	50.8
Soviet Union.....	28.8	29.6	31.1	31.6	28.4	26.2	22.5	23.0	24.1	22.7	26.3	28.1
West Germany.....	16.2	14.4	16.0	21.0	17.2	13.8	13.1	11.2	11.5	12.9	10.5	8.1
Canada.....	12.9	13.0	13.3	15.1	15.3	16.1	17.7	16.4	17.6	26.7	29.7	28.1
Poland.....	42.4	42.9	43.3	44.2	45.6	34.3	16.6	30.6	39.0	47.1	39.8	37.9
China: Mainland.....	.5	.4	.5	.9	1.7	4.2	4.1	5.1	6.2	7.6	8.1	11.0
Importing countries, total ²	212.5	210.2	224.7	222.5	254.9	276.0	287.4	291.3	284.2	327.6	364.3	368.4
Western Europe/Mediterranean.....	80.8	80.2	85.9	94.3	107.4	126.9	129.4	126.5	117.1	132.2	146.8	147.3
Japan.....	68.5	67.0	67.1	57.5	64.5	75.6	86.0	86.5	81.6	94.5	101.9	99.1
Eastern Europe.....	35.1	35.4	36.8	38.4	40.2	34.8	30.1	37.0	41.2	39.9	42.3	40.3
Canada.....	16.8	16.1	16.9	14.6	19.4	17.4	16.3	17.3	16.2	20.4	16.4	14.7

¹ Preliminary. ² Includes areas not shown separately. ³ Includes trade with Japan only.

Source: U.S. Energy Information Administration, 1975-1984, *Outlook for U.S. Coal Imports*; thereafter, *Annual Prospects for World Coal Trade*.

NO. 1228. COAL AND COKE—SUMMARY: 1970 TO 1987

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1987, was 476 billion tons. 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. See also *Historical Statistics, Colonial Times to 1970*, series M 93-126]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987 ¹
COAL²											
Production, total.....	Mil. s.t. tons	613	655	830	824	838	782	896	884	890	917
Value.....	Mil. dol.	3,882	12,670	20,453	21,755	22,851	20,325	22,949	22,277	21,188	21,171
Bituminous coal and lignite:³											
Number of mines.....	Number	5,601	6,168	5,598	5,569	5,363	4,265	4,802	4,547	4,203	(NA)
Production.....	Mil. s.t. tons	603	648	824	818	834	778	892	879	886	913
Value, total.....	Mil. dol.	3,774	12,469	20,196	21,514	22,622	20,111	22,949	22,061	20,999	20,992
Average per ton.....	Dollars	6.26	19.23	24.52	26.29	27.14	25.85	25.51	25.10	23.70	23.00
Exports.....	Mil. s.t. tons	72	66	92	113	106	78	81	93	86	80
Value.....	Mil. dol.	961	3,259	4,627	5,916	5,991	4,057	4,132	4,465	3,930	3,405
Imports.....	1,000 sh. tons	36	940	1,194	1,043	742	1,271	1,286	1,952	2,212	1,747
Method of mining:											
Underground.....	Mil. sh. tons	341	293	338	316	339	300	351	350	360	373
Surface.....	Mil. sh. tons	272	361	492	507	499	482	544	533	530	544
Percent of total prod.....	Percent	44.4	55.2	59.3	61.6	59.5	61.6	60.7	60.3	59.5	59.3
Value.....	Mil. dol.	(Z)	22	30	30	23	43	45	70	80	56
Consumption ⁴	Mil. sh. tons	523	563	703	733	707	737	791	818	804	837
Electric power utilities.....	Mil. sh. tons	320	406	569	597	594	625	664	694	685	718
Industrial.....	Mil. sh. tons	187	147	127	128	105	103	118	116	112	112
Productivity average:⁵											
Daily employment.....	1,000	140	190	225	226	217	176	178	169	155	(NA)
Days worked.....	Number	228	232	210	186	196	197	204	204	205	(NA)
Tons per worker:											
Per day.....	Sh./tc ns	18.84	14.74	16.32	18.08	18.13	20.98	22.19	23.05	25.44	(NA)
Per year.....	Sh./tc ns	4,296	3,420	3,427	3,363	3,497	4,133	4,527	4,702	5,215	(NA)
Production, by State:											
Alabama.....	Mil. sh. tons	20.6	22.6	26.4	24.5	26.6	23.8	27.1	27.8	25.8	25.0
Illinois.....	Mil. sh. tons	65.1	59.5	62.5	51.9	60.3	56.8	63.8	59.2	61.9	59.6
Indiana.....	Mil. sh. tons	22.3	25.1	30.9	29.3	31.8	21.8	37.6	33.3	32.9	34.0
Kentucky.....	Mil. sh. tons	125.3	143.6	150.1	157.6	150.2	131.2	159.5	152.3	153.9	161.2
Montana.....	Mil. sh. tons	3.4	22.1	29.9	33.6	27.9	28.9	33.0	33.3	34.0	34.4
Ohio.....	Mil. sh. tons	55.4	46.8	39.4	37.4	36.5	33.8	39.3	35.6	36.4	35.4
Pennsylvania.....	Mil. sh. tons	90.2	90.3	93.1	83.5	79.4	69.8	77.5	71.4	71.6	74.3
Virginia.....	Mil. sh. tons	35.0	35.5	41.0	42.0	39.8	35.0	40.4	40.9	41.2	44.2
West Virginia.....	Mil. sh. tons	144.1	109.3	121.6	112.8	126.5	115.0	131.0	127.8	129.9	136.7
Wyoming.....	Mil. sh. tons	7.2	23.8	94.9	103.0	108.4	112.2	130.9	140.7	136.8	146.8
Other States.....	Mil. sh. tons	44.1	75.9	139.7	148.4	148.9	143.6	155.9	161.3	165.9	165.3
Anthracite production.....	Mil. sh. tons	9.7	6.2	6.1	5.4	4.6	4.1	4.2	4.7	4.3	4.4
World production.....	Mil. sh. tons	3,295	3,665	4,173	4,198	4,375	4,402	4,623	4,839	4,959	(NA)
COKE											
Production ⁶	Mil. sh. tons	66.5	57.2	46.1	42.8	28.1	25.8	30.6	28.7	25.5	28.0
Oven coke ⁷	Mil. sh. tons	65.7	56.5	46.1	42.8	28.1	25.8	30.6	28.7	25.5	28.0
Value of product at plant.....	Mil. dol.	2,193	5,261	6,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze.....	Mil. dol.	1,899	4,607	4,784	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton.....	Dollars	28	84	103	113	115	114	105	103	100	(NA)
Coal carbonized.....	Mil. sh. tons	96.5	83.6	66.7	61.0	40.9	37.0	44.0	41.1	36.0	37.0
Average value per ton.....	Dollars	12.47	44.21	56.26	62.86	64.97	59.30	56.57	54.30	50.83	46.55
Yield of coke from coal.....	Percent	69.1	68.4	69.2	70.1	68.7	69.7	69.4	69.8	70.9	75.9

NA Not available. Z Less than \$500,000. ¹ Preliminary. ² Includes bituminous coal, lignite, and anthracite. ³ All domestic product data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. ⁴ Includes some categories not shown separately. ⁵ Data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, for mines producing 10,000 short tons or more. Beginning 1982, includes anthracite. ⁶ Includes beehive coke. ⁷ Prior to 1980, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverable coke-oven operations.

Source: 1970 and 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Weekly Coal Production: Coal Production, annual; Coke Plant Report, Annual Energy Review, and Quarterly Coal Report*.

NO. 1229. ASBESTOS: 1984 TO 1988

[In thousands of metric tons. Two firms in California and Vermont accounted for 100 percent of domestic production in 1988. Asbestos was consumed in roofing products, 28 percent; friction products, 26 percent; asbestos-cement pipe, 14 percent; packing and gaskets, 13 percent; paper, 6 percent; and other, 13 percent]

ITEM	1984	1985	1986	1987	1988 ¹
Production (sales), mine.....	57	57	51	51	18
Imports for consumption.....	210	142	108	94	93
Exports.....	40	46	47	60	30
Consumption, apparent.....	226	162	120	84	83
Price, average value, dol./ton, f.o.b. mine.....	422	357	338	340	434
Stocks, producer, yearend.....	23	14	6	6	4
Employment, mine and mill ¹	190	200	250	230	58
Net import reliance as percent of apparent consumption ²	75	65	58	40	78

¹ Estimated. ² Reliance defined as imports minus exports plus adjustments for Government and industry stock changes.

Source: U.S. Bureau of Mines, *Mineral Commodity Summaries, 1989*.

NO. 1230. CEMENT, SAND, GRAVEL, STONE, GYPSUM, LIME, AND PHOSPHATE ROCK: 1970 TO 1986

[See also *Historical Statistics, Colonial Times to 1970*, series M 188-194 and series M 203-204. Lime excludes Puerto Rico]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Cement production ¹	Mil. sh. ton	76.1	69.7	85.9	76.7	72.9	64.3	71.3	78.7	78.9	79.8
Portland	Percent	96.1	95.8	95.6	95.9	96.2	96.5	95.9	95.8	95.9	95.5
Shipments ²	Mil. sh. ton	76.4	70.7	87.2	77.7	73.0	65.1	71.9	81.2	84.0	90.3
Portland	Mil. sh. ton	73.4	67.8	83.4	74.7	70.2	62.7	68.9	77.9	80.7	85.1
Value	Mil. dol.	1,366	2,220	4,061	3,780	3,666	3,199	3,440	4,020	4,142	4,265
Average per ton	Dollar	17.88	31.41	46.57	50.89	52.20	51.04	49.89	51.62	51.30	50.10
Imports	Mil. sh. ton	2.5	3.6	9.4	5.2	4.0	2.9	4.3	8.8	14.5	16.1
Value	Mil. dol.	34	71	302	196	151	111	161	294	437	469
Exports	1,000 sh. ton	123	417	149	186	300	201	118	80	98	89
World production (est.)	Mil. sh. ton	630	774	962	977	977	973	1,010	1,045	1,057	1,101
Sand and gravel sold ³	Mil. sh. ton	944	789	979	793	720	621	662	803	830	910
Value	Mil. dol.	1,116	1,340	2,427	2,289	2,260	1,998	2,270	2,621	2,812	3,107
Stone sold or used by producers	Mil. sh. ton	869	901	1,101	985	874	791	863	957	1,002	1,024
Value	Mil. dol.	1,470	2,120	3,399	3,405	3,276	3,056	3,475	3,911	4,225	4,428
Crude gypsum ⁴											
Active establishments ⁵	Number	108	110	113	114	113	109	111	113	116	113
Apparent supply	Mil. sh. ton	15.5	15.1	22.3	19.7	18.9	17.1	20.8	23.1	24.3	24.9
Mined	Mil. sh. ton	9.4	9.8	14.6	12.4	11.5	10.5	12.9	14.3	14.7	15.8
Imports for consumption	Mil. sh. ton	6.1	5.4	7.8	7.4	7.6	6.7	8.0	8.9	9.9	9.6
Exports	1,000 sh. ton	41	75	91	88	157	123	117	131	83	155
Calcined gypsum produced	Mil. sh. ton	8.4	9.2	14.5	11.8	11.7	11.2	13.9	15.5	16.0	17.1
Value	Mil. dol.	132	186	442	270	243	196	270	321	367	310
Gypsum products sold, value ⁶	Mil. dol.	353	514	1,392	1,242	1,196	1,122	1,606	2,274	2,418	2,514
Building uses, value	Mil. dol.	323	466	1,312	1,149	1,099	1,032	1,504	2,162	2,301	2,399
Lime:											
Active plants	Number	194	171	154	153	150	147	139	129	115	118
Quantity sold	1,000 sh. ton	19,747	19,133	20,945	19,010	18,856	14,075	14,967	15,922	15,690	14,474
Value	Mil. dol.	286	524	862	843	884	696	758	811	809	758
Per ton	Dollars	14.49	27.38	41.18	44.34	46.89	49.46	50.96	50.95	51.56	52.36
Phosphate rock:											
Mine production	Mil. ton	125.5	187.5	204.8	231.4	202.6	114.8	138.6	179.7	193.2	150.8
P ₂ O ₅ content	Mil. ton	18.6	23.5	25.4	26.2	26.2	14.8	19.4	23.2	25.2	19.6
Marketable production	Mil. ton	38.7	48.8	56.9	60.0	59.1	41.2	48.9	54.2	56.0	38.7
P ₂ O ₅ content	Mil. ton	12.0	15.0	17.5	18.4	18.0	12.7	14.4	16.4	17.3	13.5
Value	Mil. dol.	203	1,122	1,046	1,257	1,438	950	1,021	1,182	1,296	897
Per ton	Dollars	5.25	22.99	18.38	20.95	24.33	23.04	21.75	21.80	22.05	20.18
Imports ⁷	Mil. sh. ton	.14	.04	.98	.54	.01	.03	.01	.01	.03	.58
Value	Mil. dol.	3.8	1.8	21.6	12.9	.4	1.3	.4	.3	1.7	25.4
Per ton	Dollars	27.87	43.83	22.04	23.99	30.00	38.29	37.90	27.62	46.61	43.7
Exports	Mil. sh. ton	11.7	12.3	15.8	15.7	11.5	10.8	13.2	12.7	10.1	8.7
P ₂ O ₅ content	Mil. sh. ton	3.8	4.0	5.1	5.0	3.6	3.5	4.2	4.0	3.2	2.8
Value	Mil. dol.	60.0	429.2	356.5	431.4	373.2	293.6	327.3	324.8	263.6	211.7
Per ton	Dollars	5.11	34.98	22.56	27.41	32.57	27.06	24.73	25.56	26.18	24.47
Consumption, apparent ⁸	Mil. sh. ton	27.2	34.2	43.6	45.0	38.7	31.7	38.4	46.0	41.4	38.0
World production	Mil. sh. ton	93.6	118.6	145.3	158.9	157.7	140.4	153.5	165.5	161.7	152.9

¹ Includes Puerto Rico; excludes Alaska except for imports and exports. ² Includes natural, slag, and hydraulic lime plants, not shown separately, except 1970, excludes slag cement. ³ Represents sand stone and gravel used by producers. ⁴ Excludes byproduct gypsum. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. ⁵ Each mine, plant, or combination mine and plant is counted as one establishment. ⁶ Made from domestic, imported, and byproduct gypsum. ⁷ For consumption; P₂O₅ content not available. ⁸ Amount sold or used plus imports minus exports.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1231. POTASH—SUMMARY: 1970 TO 1986

[In thousands of short tons, except value. See also *Historical Statistics, Colonial Times to 1970*, series M 201-202]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Production of potassium salts (marketable)	4,853	4,576	4,708	4,756	4,578	3,710	3,053	3,350	2,831	2,625
Approximate equivalent K ₂ O	2,729	2,501	2,453	2,468	2,377	1,966	1,575	1,724	1,428	1,325
Value ¹ (mil. dol.)	98.1	223.1	279.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sales of potassium salts by producers	4,703	3,819	5,014	4,701	4,045	3,734	3,252	3,510	2,761	2,525
Approximate equivalent K ₂ O	2,729	2,094	2,632	2,444	2,103	1,967	1,668	1,807	1,395	1,284
Value at plant (mil. dol.)	92.4	187.9	279.2	353.9	328.9	268.8	220.8	241.8	178.4	144.9
Per ton (dollars)	19.64	49.19	55.68	75.28	81.31	71.13	67.90	68.89	78.48	57.38
Imports for consumption of potash materials	4,403	6,271	9,375	9,031	8,712	6,986	6,071	8,761	8,343	7,643
Approximate equivalent K ₂ O	2,805	3,797	5,693	5,481	5,287	4,253	4,894	5,323	5,061	4,643
Value (mil. dol.)	94.7	267.2	520.8	648.0	750.4	575.4	600.6	658.1	499.1	385.1
Exports of potash materials	966	1,419	1,233	1,746	978	1,049	622	922	1,072	1,130
Approximate equivalent K ₂ O	544	779	700	926	541	572	391	492	565	603
Value (mil. dol.)	28.5	92.7	79.5	179.8	107.9	93.2	55.8	85.7	(NA)	(NA)
Apparent consumption of potassium salts ²	8,140	6,671	13,156	11,987	11,779	9,671	10,310	11,349	10,032	9,149
Approximate equivalent K ₂ O	4,730	5,112	7,626	6,999	6,849	5,647	6,231	6,638	5,891	5,398
World production (marketable), approximate equivalent K ₂ O	20,013	27,269	28,404	30,707	29,849	27,187	30,232	31,568	31,537	31,700

NA Not available. ¹ Derived from reported value of amount sold or used. ² Amount sold or used plus imports minus exports.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1232. IRON ORE—SUMMARY: 1980 TO 1988

[In millions of long tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 205-211]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988
Number of mines.....	37	32	27	20	20	20	19	19	(NA)
Production ¹	69.6	73.2	35.4	37.6	51.3	48.8	38.9	46.8	58.4
Lake Superior.....	62.3	67.5	31.0	35.6	49.7	47.4	37.6	45.9	55.2
Other districts.....	7.3	5.7	4.4	2.0	1.6	1.4	1.3	.9	1.5
Shipments ²	69.6	72.2	35.8	44.6	50.9	49.4	41.3	47.1	60.1
Value ³ (mil. dol.).....	2,544	2,915	1,492	1,945	2,248	2,077	1,473	1,503	(NA)
Average price per ton at mine (dol.).....	36.56	40.39	41.72	43.61	44.17	42.03	35.63	31.88	(NA)
Stocks, Dec. 31 (at mines).....	11.7	12.7	12.1	4.1	5.3	6.0	3.3	2.3	(NA)
Price range (Lake Superior pellets): Nov. (cents per long ton unit of Fe ³⁺).....	(NA)	(NA)	80.5- 86.9		58.0- 86.9				
Imports for consumption ⁴	25.1	28.3	14.5	13.2	17.2	15.8	16.7	16.6	20.8
Canada.....	17.3	18.8	9.3	8.8	11.2	8.6	8.7	7.9	9.0
Venezuela.....	3.6	5.1	1.6	1.3	1.5	2.1	2.3	2.6	3.5
Brazil.....	2.0	1.7	1.0	1.3	2.5	2.5	3.7	3.6	4.9
Value (mil. dol.).....	773	948	471	446	529	452	461	409	48.5
Exports	5.7	5.5	3.2	3.8	5.0	5.0	4.5	5.0	4.9
Value (mil. dol.).....	231	245	151	183	239	241	205	198	194
World production (est.).....	877	845	769	728	823	845	855	869	918

NA Not available. ¹ Direct-shipping ore, concentrates, agglomerates, and byproduct ore. ² Includes byproduct ore. ³ Delivered rail of vessel at lower lake ports. ⁴ Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1233. GOLD AND SILVER—SUMMARY: 1980 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series M 268-269, for mine production]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
GOLD										
Ore produced ¹	1,000 sh. ton	9,893	12,729	17,918	24,142	30,497	35,909	60,683	92,810	140,968
Production, U.S.....	1,000 fine oz.	970	1,379	1,466	2,003	2,085	2,427	3,739	4,947	6,460
Value.....	Mil. dol.	594	634	551	849	752	771	1,377	2,216	2,831
World production.....	1,000 fine oz.	39,179	41,250	43,105	45,163	46,929	49,284	51,534	53,034	58,454
Industrial consumption										
U.S., net.....	1,000 fine oz.	3,215	3,276	3,423	3,226	3,140	3,097	3,126	3,293	3,161
Imports ²	Mil. dcl.	2,750	2,157	1,894	1,977	2,947	2,696	5,694	1,633	1,269
Canada.....	Mil. dcl.	1,234	1,314	1,124	987	1,554	1,555	2,444	867	693
Soviet Union.....	Mil. dcl.	88	22	4	-	-	-	155	4	4
South Africa.....	Mil. dcl.	33	188	38	16	8	-	79	3	7
Exports.....	Mil. dcl.	3,648	3,072	1,089	1,326	1,813	1,254	1,819	1,709	4,659
Price per fine oz. ³	Dollars	612.6	459.6	375.9	424.0	360.7	317.7	368.2	448.0	438.3
Production:										
Nevada.....	1,000 fine oz.	278	525	757	961	1,021	1,276	2,099	2,659	3,676
South Dakota.....	1,000 fine oz.	268	278	185	310	311	356	(D)	(D)	450
Utah.....	1,000 fine oz.	180	228	175	238	(D)	135	(D)	(D)	(D)
SILVER										
Ore produced ¹	1,000 sh. ton	2,936	5,579	6,636	8,658	9,392	5,347	6,425	8,756	10,553
Production, U.S.....	1,000 fine oz.	32,329	40,683	40,248	43,431	44,592	39,433	34,524	39,897	53,416
Value.....	Mil. dol.	667	428	320	497	363	242	189	280	349
World production.....	1,000 fine oz.	342,804	361,617	371,159	387,711	420,065	424,416	419,433	443,050	443,330
Industrial consumption										
U.S., net ⁴	1,000 fine oz.	124,694	116,670	118,840	116,464	114,841	118,555	118,940	115,271	(NA)
Imports ²	Mil. dol.	1,606	1,028	927	2,124	963	952	798	555	578
Canada.....	Mil. dol.	660	375	303	420	301	288	261	141	239
Mexico.....	Mil. dol.	282	228	205	340	336	251	257	288	254
Peru.....	Mil. dol.	354	273	143	269	197	76	57	48	12
Exports.....	Mil. dol.	1,910	332	209	377	206	161	143	192	206
Price per fine oz. ³	Dollars	20.63	10.52	7.95	11.44	8.14	6.14	5.47	7.01	6.54
Production: ⁴										
Idaho.....	Mil. fine oz.	13.7	16.5	14.8	17.7	18.9	18.8	11.2	(D)	10.9
Arizona.....	Mil. fine oz.	6.3	8.1	6.3	4.5	4.2	4.9	4.2	3.7	4.9
Utah.....	Mil. fine oz.	2.2	2.9	4.3	4.6	(D)	(D)	(D)	(D)	(D)
Colorado.....	Mil. fine oz.	3.0	3.0	1.9	2.1	2.2	.5	.6	.9	.9

- Represents zero. D Withheld to avoid disclosure. ¹ Gold and silver are also produced from base-metal ores and placers. ² Imports for consumption. ³ Selling price. ⁴ Includes gold-silver ore through 1986, silver ore only thereafter. ⁵ Excludes coinage.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1234. LEAD—SUMMARY: 1980 TO 1988

[In thousands of metric tons, except as indicated. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports and as noted. See also *Historical Statistics, Colonial Times to 1970*, series M 242-248]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Smelter production of refined primary lead	548	495	512	519	389	494	370	374	392
Domestic ores and base bullion ¹	508	440	460	464	324	423	348	337	(NA)
Foreign ores and base bullion.....	40	55	52	55	65	71	22	37	(NA)
Recovery of secondary lead.....	676	641	571	504	633	616	625	710	698
Imports for consumption:									
Lead in pigs and bars.....	81	100	95	134	181	131	140	186	149
Lead in ores and matte.....	30	27	19	20	30	3	5	1	21
Exports of refined pig lead ²	157	17	51	18	5	25	11	4	8
Consumption of metal, primary and secondary.....	1,070	1,167	1,075	1,148	1,207	1,148	1,126	1,230	1,231
Average price, common lead:									
New York (cents per lb.).....	42.46	36.53	25.54	21.68	25.55	19.07	22.05	35.94	37.14
London (cents per lb.).....	41.21	33.30	24.66	19.27	20.12	17.84	18.43	26.99	29.73
Mine production of recoverable lead ³	550	446	513	449	323	414	340	311	385
Value ⁴ (mil. dol.).....	515	359	289	215	182	174	165	247	315
World smelter production, primary (est.).....	3,181	3,126	3,211	3,248	3,176	3,401	3,277	3,811	(NA)
World smelter capacity (est.).....	4,616	4,376	4,504	4,555	4,435	4,355	4,385	4,385	4,420

NA Not available. ¹ Excludes lead content of antimonial lead. ² Pigs, bars, and anodes. ³ Includes Alaska.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1235. COPPER—SUMMARY: 1980 TO 1988

[In thousands of metric tons, except as indicated. Excludes Hawaii and Puerto Rico, except for imports and exports. See *Historical Statistics, Colonial Times to 1970*, series M 235-241, for copper in short tons]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
New (primary) copper produced:									
Mines (from domestic ores).....	1,181	1,538	1,147	1,038	1,103	1,106	1,147	1,256	1,435
Copper ore produced ¹ (mil. metric tons).....	222	278	182	178	172	162	169	203	224
Average yield of copper (percent).....	.48	.51	.55	.51	.58	.62	.62	.58	(NA)
Smelters (from domestic ores).....	994	1,295	941	888	990	939	908	972	1,047
Percent of world total.....	13	16	12	11	12	11	10	11	(NA)
Refineries (from domestic ores).....	1,126	1,430	1,065	1,028	1,090	1,004	1,074	1,146	1,446
From foreign ores, matte, etc., refinery.....	89	114	162	154	75	54	(D)	(D)	(D)
Total new refined, domestic and foreign.....	1,215	1,544	1,227	1,182	1,165	1,057	1,074	1,146	1,446
Secondary copper produced.....	1,437	1,418	1,187	1,084	1,120	1,139	1,136	1,212	1,265
Recovered from old scrap only.....	613	598	518	449	461	503	477	499	522
Imports (unmanufactured) ³	555	438	513	675	552	444	597	568	512
Refined.....	427	331	258	460	445	378	502	469	332
Exports of refined metallic copper.....	14	24	31	81	91	38	12	9	58
Stocks (refined), Dec. 31 ⁴	294	465	676	692	564	320	225	113	98
Mine production of recoverable copper.....	1,181	1,538	1,147	1,038	1,103	1,106	1,147	1,256	1,437
Arizona.....	770	1,041	770	678	746	797	789	764	865
Montana.....	38	62	65	33	(D)	15	(D)	(D)	(D)
New Mexico.....	149	154	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Utah.....	158	211	198	170	(D)	(D)	(D)	(D)	(D)
Other States.....	66	70	123	157	357	294	358	492	572
Avg. price, domestic production (cents per lb.).....	102.4	85.1	74.3	79.3	68.2	67.0	66.1	82.5	120.5
World smelter production.....	7,649	8,002	7,951	8,120	8,391	8,664	8,715	8,865	(D)
World smelter capacity.....	10,201	10,359	10,724	10,939	10,972	11,001	11,221	11,600	(D)

D Withheld to avoid disclosure of individual company data. NA Not available. ¹ Includes old tailings, smelted or retreated. Not comparable with mine production figures which include recoverable copper content of ores not classified as "copper." ² Includes production from foreign ores. ³ Includes copper imported for immediate consumption plus material entering country under bond. Includes imports for consumption. Comprises copper in ores and concentrates, matte, refined, blister, and scrap. ⁴ Includes producers, consumers, COMEX and U.S. Government.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1236. COBALT—SUMMARY: 1980 TO 1988

[In millions of pounds of contained cobalt, except price]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988
Production: Secondary (scrap) ¹	1.2	1.0	.9	.7	.9	.9	2.6	2.5	(NA)
Imports ²	16.3	15.6	12.9	17.2	25.3	17.7	12.3	19.5	15.5
Zaire.....	6.2	4.2	5.0	7.7	14.8	4.8	.7	9.4	4.3
Zambia.....	2.2	1.5	1.2	2.3	3.8	4.3	3.5	2.9	2.7
Canada.....	1.1	1.8	1.5	2.0	3.1	3.1	3.4	3.4	3.6
Exports ³.....	.6	.8	.6	.8	.7	.6	1.0	.8	1.2
Consumption (reported).....	15.3	11.7	9.5	11.3	12.9	13.5	14.4	15.1	(NA)
Inventories.....	43.3	43.4	45.1	47.4	47.6	51.3	54.7	55.2	(NA)
Government ⁴	40.8	42.0	43.8	46.0	46.2	50.2	53.2	53.2	53.1
Private ⁵	2.5	1.4	1.3	1.4	1.4	1.1	1.5	2.1	(NA)
Price per pound ⁶ (dollars).....	25.00	14.58	8.56	5.76	10.40	11.43	7.49	6.56	7.09

NA Not available. ¹ Reported consumption of purchased scrap. ² Includes countries not shown separately. ³ Content of unwrought cobalt and cobalt alloys, and waste and scrap. ⁴ Includes cobalt sold but not delivered. ⁵ Consumer stocks only. ⁶ 1980 price is producer price, 1981 to 1988 prices are weighted average based on the market price quoted by *Metals Week*.

Source: U.S. Bureau of Mines, *Minerals Yearbook*, and *Mineral Commodity Summaries*, annual.

NO. 1237. NICKEL—SUMMARY: 1980 TO 1987

[Quantities in thousands of short tons. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 231-234]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1987, prel.
Mine production (gross weight)	1,852	1,794	432	-	1,675	868	603	-	-
Plant production:									
Primary ¹	11	10	3	(D)	10	5	2	-	-
Secondary ²	49	52	43	50	53	54	44	47	47
Imports (est. nickel content)	189	209	130	152	177	158	129	148	148
Exports (gross weight)	57	49	57	44	59	51	23	28	28
Consumption	206	206	181	201	211	211	181	202	202
Stocks (consumer), Dec. 31	15	23	19	20	21	19	17	10	10
Price per pound ³ (dollars)	2.96	2.71	2.18	2.18	2.16	2.26	1.76	2.19	2.19
World production, est.	859	805	675	742	847	882	836	867	867

- Represents zero. D Withheld to avoid disclosing company proprietary data. ¹ From domestic ores. ² Includes nickel recovered from iron and steel scrap. ³ Represents London Metal Exchange price.

NO. 1238. TIN—SUMMARY: 1980 TO 1988

[In metric tons, except price. See headnote, table 1237, for exclusions]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Production: Domestic smelters	3,000	2,000	3,500	2,500	4,000	3,000	3,213	3,905	1,487
Secondary sources	18,638	15,438	14,293	14,205	15,417	14,109	14,850	16,159	15,088
Imports for consumption:									
Metal	45,982	45,874	27,939	34,048	41,224	33,830	35,768	41,150	43,492
Ore (tin content)	840	232	1,961	989	3,272	1,816	3,936	2,953	2,837
Exports	595	2,361	5,769	1,340	1,429	1,478	1,547	1,318	1,209
Price of Straits tin at NY, dol. per lb. ¹	8.46	7.33	6.54	6.55	6.24	5.96	3.83	4.19	4.41
Consumption, primary and secondary	56,362	54,373	48,295	45,547	48,315	48,669	43,522	48,744	45,073
World mine production, est.	247,300	238,008	219,463	196,942	188,183	180,759	172,899	179,205	200,798

¹ See footnote 5, table 1213.

NO. 1239. TUNGSTEN CONCENTRATE—SUMMARY: 1970 TO 1988

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 225-226, for related data]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Production:											
Concentrates (60% WO ₂ basis) ¹	1,000 sh. ton	10.1	6.3	8.2	3.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Tungsten content	Mil. lb.	9.3	6.0	7.8	3.5	2.2	2.6	2.2	1.8	.1	(NA)
Shipments from mines:											
Reported value f.o.b. mines	Mil. dol.	23.8	50.6	62.2	22.1	10.5	13.4	9.1	5.8	.2	(NA)
Avg. value per lb. of tungsten	Dollars	2.55	8.38	7.96	6.35	4.70	5.20	4.23	3.21	2.88	(NA)
Imports for consumption ²	Mil. lb.	³ 1.3	11.4	11.8	7.8	6.3	12.8	10.5	5.6	9.7	17.7
Consumption ²	Mil. lb.	16.7	20.4	21.7	9.9	11.4	18.9	15.1	10.6	12.1	17.2
Stocks, ² end of year	Mil. lb.	2.2	1.4	1.7	4.0	2.5	2.2	2.5	1.2	.8	.5
World production ²	Mil. lb.	71.4	114.6	110.8	103.7	90.2	101.8	102.7	94.4	93.0	95.3

NA Not available. ¹ A short ton of 60% tungsten trioxide (WO₂) contains 951.72 pounds of tungsten.

² Tungsten content. ³ General imports.

Source of tables 1237-1239: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1240. URANIUM CONCENTRATE (U₃O₈) INDUSTRY—SUMMARY: 1975 TO 1987

[Middle demand case. See table 975. See also *Historical Statistics, Colonial Times to 1970*, series M266-267]

ITEM	Unit	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
Production	1,000 sh. tons	11.6	18.5	18.7	21.9	19.2	13.4	10.6	7.4	5.6	6.8	6.5
Net imports (U ₃ O ₈)	1,000 sh. tons	.2	-.8	-1.6	-1.1	-1.1	6.3	2.4	5.2	3.2	6.0	6.9
Utility and supplies inventories (U ₃ O ₈ equivalent)	1,000 sh. tons	(NA)	35.6	42.8	54.4	64.0	68.6	80.0	¹ 74.7	¹ 68.3	¹ 66.2	¹ 64.5
Price (1983 dol./lb. U ₃ O ₈):												
Long-term contract price	Dollars	36.50	45.30	43.10	35.50	29.40	25.90	27.20	22.80	21.20	16.50	15.83
Spot market price	Dollars	40.80	62.20	56.40	38.60	26.80	20.80	23.00	16.60	14.60	15.50	14.85
Delivered price	Dollars	18.10	31.10	31.60	34.20	35.70	41.60	38.20	² 31.30	² 28.80	² 27.30	² 16.76
Capital expenditures (1983 dollars)	Mil. dol.	461	1,069	1,060	949	461	173	67	37	32	25	54
Mining and milling	Mil. dol.	251	617	642	625	300	96	30	12	14	5	26
Exploration	Mil. dol.	210	452	418	324	161	77	37	25	18	20	28
Employment	1,000	9.7	21.4	22.2	19.9	13.7	9.1	5.6	2.9	1.9	1.6	1.4
Mining and milling	1,000	7.6	17.0	18.1	16.5	11.4	8.3	5.2	2.7	1.7	1.4	1.2
Exploration	1,000	2.0	4.4	4.1	3.4	2.3	0.8	.4	.2	.2	.2	.2

NA Not available. ¹ Includes natural U₃O₈ (uranium oxide), natural UF₆ (uranium hexafluoride), natural UF₆ under usage agreement, UF₆ at enrichment suppliers, enriched UF₆ and fabricated fuel. ² Average U.S. contract prices and market price settlements.

Source: U.S. Department of Energy, *Domestic Uranium Mining and Milling Industry*, annual, and *Uranium Industry*, annual.

No. 1241. ZINC—SUMMARY: 1980 TO 1988

[Production in thousands of metric tons, except value. Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 249–250, for production in short tons]

ITEM AND STATE	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Smelter production, primary slab zinc	340	347	228	236	253	261	253	270	170
Value (mil. dol.).....	280	341	194	215	271	232	212	249	(NA)
From domestic ores.....	232	260	193	210	198	198	191	212	139
From foreign ores.....	108	87	35	26	55	63	62	58	31
Production, redistilled secondary slab zinc.....	29	50	74	69	78	73	63	73	82
Avg. price of common zinc (cents per lb.).....	37.4	44.8	38.5	41.4	48.6	40.4	38.0	41.9	60.2
World smelter production, est.....	6,049	6,081	5,894	6,249	6,527	6,852	6,761	7,030	(NA)
World smelter and refining capacity.....	7,650	(NA)	(NA)	7,200	7,800	7,900	8,206	8,200	(NA)
Mine production, recoverable zinc	317	312	303	275	253	227	203	217	242
Colorado.....	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho.....	28	(D)	(D)	(D)	(D)	(D)	(Z)	(D)	(D)
Missouri.....	63	53	64	57	45	49	38	35	40
New York.....	34	37	52	57	(D)	(D)	(D)	(D)	(D)
Tennessee.....	112	118	121	110	117	104	102	116	120
Other States.....	66	104	66	51	91	74	63	68	82

D Withheld to avoid disclosure of individual company data. NA Not available. Z Less than 500 metric tons.

Source: U.S. Bureau of Mines, *Minerals Yearbook*, and *Mineral Facts and Problems*.

No. 1242. BAUXITE—SUMMARY: 1980 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series M 256–257, for bauxite in short tons]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988 ¹
Production:										
Crude ore.....	Mil. metric ton.....	1.9	1.9	.9	.8	1.0	.8	.6	.7	.7
Dried bauxite.....	Mil. metric ton.....	1.6	1.5	.7	.7	.9	.7	.5	.6	.6
Value.....	Mil. dol.....	22.4	26.5	12.3	11.3	15.6	12.9	10.4	10.9	10.6
Imports ² (crude, dried).....	Mil. metric ton.....	14.1	12.8	10.1	7.8	9.4	7.2	6.5	9.2	10.0
Jamaica.....	Mil. metric ton.....	6.1	5.4	4.1	3.0	3.8	1.5	2.1	2.6	3.2
Guinea.....	Mil. metric ton.....	4.1	3.5	4.2	3.6	3.7	3.8	3.4	4.3	4.5
Suriname.....	Mil. metric ton.....	1.4	1.1	.4	.2	.3	.2	.1	.1	—
Value.....	Mil. dol.....	380.5	392.6	360.4	226.9	310.9	210.1	188.8	232.8	250.9
Exports (as shipped).....	1,000 metric ton.....	21	20	49	74	82	56	69	201	63
Consumption (dry equivalent).....	Mil. metric ton.....	16.0	13.5	9.2	9.1	10.5	8.2	6.9	9.5	10.0
World production, est.....	Mil. metric ton.....	89.2	85.3	79.3	78.7	87.8	84.5	86.1	90.3	93.5

— Represents or rounds to zero. ¹ Preliminary. ² Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1243. ALUMINUM—SUMMARY: 1980 TO 1988

[See *Historical Statistics, Colonial Times to 1970*, series M 258–262, for aluminum in short tons]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988 ¹
Production	1,000 metric ton.....	5,914	5,883	4,740	4,917	5,859	5,262	4,810	5,329	6,066
Primary aluminum.....	1,000 metric ton.....	4,654	4,489	3,274	3,353	4,099	3,500	3,037	3,343	3,944
Plant capacity, U.S.....	(NA)	(NA)	(NA)	(NA)	5,001	(NA)	4,706	4,038	3,895	3,980
Secondary aluminum ²	1,000 metric ton.....	1,260	1,394	1,466	1,564	1,760	1,762	1,773	1,986	2,122
Value ³ (primary metal).....	Bil. dol.....	9.3	9.9	7.9	8.4	10.5	9.4	8.6	8.5	14.7
Primary aluminum.....	Bil. dol.....	7.3	7.5	5.5	5.8	7.3	6.3	5.4	5.3	9.6
Price ⁴	Cents/lb.....	71.6	76.0	76.0	77.8	81.0	81.0	⁵ 81.0	⁶ 72.3	⁷ 110.1
Secondary aluminum ²	Bil. dol.....	2.0	2.4	2.4	2.6	3.2	3.1	3.2	3.2	5.1
Imports for consumption ⁷	1,000 metric ton.....	647	848	878	1,091	1,477	1,420	1,967	1,850	1,620
Value.....	Bil. dol.....	.1	1.4	1.3	1.6	2.5	2.0	2.7	2.9	3.5
Exports ⁷	1,000 metric ton.....	1,346	787	748	776	734	908	753	917	1,247
Value.....	Bil. dol.....	2.4	1.3	1.2	1.3	1.3	1.3	1.2	1.6	2.9
Shipments ⁸ (net domestic).....	1,000 metric ton.....	5,515	5,644	5,090	5,857	6,552	6,382	6,545	6,813	6,633
World production, est.....	1,000 metric ton.....	15,383	15,079	13,433	13,904	15,705	15,398	15,354	16,378	17,304
World plant capacity.....	1,000 metric ton.....	16,978	17,248	17,403	17,737	18,215	18,010	17,855	17,968	18,480

NA Not available. ¹ Preliminary. ² Recoverable aluminum content from scrap, old and new. ³ Calculated based on published prices for primary metal. See footnote 4. ⁴ 1980–1986, U.S. producer prices, from *Metals Week*; thereafter, U.S. market price, from *Metals Week*. ⁵ Based on 7 months. ⁶ U.S. spot price. ⁷ Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap). ⁸ Compiled by Aluminum Association from data on net shipments of aluminum and mill products. Includes changes in aluminum industry and government inventories and net trade.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1244. MAGNESIUM—SUMMARY: 1980 TO 1988

[In thousands of metric tons, except as indicated. Magnesium metal is used primarily in the manufacturing of aircraft, automotive, and other types of transportation equipment, material-handling equipment, power tools, and alloying with other metals]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988 ¹
Production (domestic).....	189	182	132	146	188	178	167	169	192
Primary ²	153	140	93	104	144	136	125	124	142
Secondary (recovered from scrap).....	36	42	39	42	44	42	42	45	50
Exports.....	52	32	36	43	44	36	40	45	50
Value (mil. dol.).....	127.7	90.8	104.8	124.7	136.7	113.6	122.4	130.7	145.3
Imports.....	4	6	5	5	8	8	8	11	14
Value (mil. dol.).....	8.3	17.6	15.6	16.3	25.7	25.1	24.6	31.0	39.3
Consumption.....	87	83	68	74	82	76	70	84	101
Castings and wrought products.....	15	14	13	14	13	15	16	17	20
Alloys (aluminum).....	49	46	36	41	44	37	37	50	51
Other.....	22	23	19	19	25	24	17	17	30
Price per pound (cents).....	107-125	125-134	134	138	143-148	148-153	153	153	158-163
World production (primary).....	316	308	254	260	327	328	328	322	³ 372

¹ Preliminary. ² For 1980, figures are the difference between total North American production reported by the International Magnesium Association and Canadian production. ³ Estimated.

NO. 1245. PLATINUM—GROUP METALS—SUMMARY: 1980 TO 1988

[In thousands of troy ounces, except as indicated. The platinum group is comprised of six closely related metals. The metals commonly occur together in nature and are among the scarcest of the metallic elements. The metals are refractory, are chemically inert toward a wide variety of materials even at high temperatures; are used as catalysts in the chemical, petroleum refining, and automotive industries, and as corrosion-resistant materials in the chemical, electrical, glass, and dental-metallic industries]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988 ¹
World mine production, total².....	6,848	6,931	6,424	6,525	7,653	7,941	8,314	8,593	6,668
United States.....	3	7	8	8	15	(D)	(D)	(D)	(D)
Soviet Union.....	3,250	3,350	3,500	3,600	3,700	3,800	3,850	3,900	3,900
South Africa.....	3,100	3,110	2,600	2,600	3,500	3,700	3,900	4,220	4,295
Refinery production, total domestic.....	1,413	1,590	1,222	1,307	1,521	1,304	1,513	1,615	1,656
Primary refined.....	3	7	9	9	24	7	4	6	10
Secondary refined.....	1,410	1,583	1,213	1,298	1,497	1,297	1,509	1,609	1,646
Imports.....	3,502	2,850	2,494	3,218	4,474	3,980	4,477	3,807	3,997
Value (mil. dol.).....	1,177	800	554	753	1,118	1,026	1,347	1,240	1,348
Exports.....	765	863	836	1,229	1,162	869	751	708	926
Value (mil. dol.).....	341	302	182	310	275	187	202	225	310
Consumption ³	2,206	1,921	1,873	1,914	2,200	2,271	2,080	1,838	2,283
Industry stocks, Jan. 1.....	761	973	918	1,107	943	1,319	1,129	1,292	1,235
Producer price per troy ounce (dol.):									
Platinum.....	439	475	475	475	475	475	519	600	600
Palladium.....	214	130	110	130	147	127	131	150	150
Rhodium.....	766	641	600	600	625	915	1,196	1,239	1,275
Iridium.....	505	600	600	600	600	600	600	532	420

D Withheld to avoid disclosing company proprietary data. ¹ Preliminary. ² Includes countries not shown separately. ³ Reported sales to industry.

NO. 1246. TITANIUM—SUMMARY: 1980 TO 1988

[In 1985, approximately 63 percent of the titanium metal was used in jet engines, airframes, and space and missile applications; approximately 20 percent was used in the chemical processing industry, power generation, and in marine and ordnance applications; and 17 percent in steel and other alloys]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988 ¹
Ilmenite concentrate:										
Mine shipments.....	1,000 metric ton..	539	475	211	(D)	(D)	(D)	(D)	(D)	(D)
Value.....	Mil. dol.....	32.0	37.0	19.1	(D)	(D)	(D)	(D)	(D)	(D)
Imports.....	1,000 metric ton..	324	214	316	235	372	480	423	308	394
Value.....	Mil. dol.....	6.7	5.9	8.8	9.3	11.1	14.6	16.8	12.0	19.5
Consumption.....	1,000 metric ton..	770	777	529	663	710	686	731	744	679
Titanium dioxide pigments:										
Production.....	1,000 metric ton..	660	690	599	689	758	784	845	864	927
Imports for consumption.....	1,000 metric ton..	89	113	126	159	176	178	184	174	185
Apparent consumption.....	1,000 metric ton..	683	731	672	774	831	894	908	951	992
Price, Dec. 31:										
Anatase.....	Cents/lb.....	57	69	69	69	69	72	77	77	95
Rutile.....	Cents/lb.....	83	75	75	75	75	78	82	82	97
World production:										
Ilmenite concentrate.....	1,000 metric ton..	3,726	3,848	3,029	² 2,674	² 3,475	² 3,456	² 3,419	² 3,877	² 3,844
Titanium slag.....	1,000 metric ton..	1,191	1,129	1,050	1,052	1,143	1,279	1,283	1,576	1,725
Rutile concentrate, natural ²	1,000 metric ton..	435	362	338	316	341	374	395	440	459

D Withheld to avoid disclosing company proprietary data. ¹ Preliminary. ² Excludes U.S. production data to avoid disclosing company proprietary data.

Source of tables 1244-1246: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1247. CHROMITE—SUMMARY: 1980 TO 1988

[In thousands of metric tons, except as indicated]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988
Imports for consumption ¹	891	815	460	173	276	378	443	490	615
Value (mil. dol.)	57	50	30	15	20	22	22	24	42
South Africa	367	437	251	131	214	273	309	251	387
Soviet Union	154	101	31	(2)	—	—	20	19	18
Philippines	125	132	64	12	44	38	17	15	20
Exports	5	64	7	10	50	91	84	1	4
Reexports	40	60	52	4	3	3	1	5	1
Consumption, total	886	807	506	290	465	508	388	504	551
Metallurgical industry	740	673	434	225	376	449	342	459	462
Refractory industry	145	134	72	65	88	59	45	46	89
Stocks, Dec. 31 (consumer)	613	661	495	413	297	272	285	330	390
World production ¹	9,902	9,088	8,480	8,210	9,776	10,576	11,084	10,917	11,665
South Africa	3,414	2,870	2,431	2,405	3,407	3,899	3,907	3,799	4,200
Soviet Union	2,903	2,903	2,939	2,939	2,940	2,940	3,185	3,150	3,240
Philippines	496	439	322	267	261	272	174	188	192

- Represents zero. Z Fewer than 500 short tons. ¹ Includes countries not shown separately.Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1248. FERROALLOYS—SUMMARY: 1980 TO 1988

[Domestic production data for ferroalloys are developed by the Bureau of Mines by means of monthly and annual surveys. Ferroalloy is defined as an alloy of iron and contains a sufficient amount of one or more chemical elements to be useful as an agent for introducing these elements into molten metal, usually steel. The major consumers of ferroalloys are the steel and ferrous foundry industries; see tables 1328-1332]

ITEM	QUANTITY (1,000 metric tons)					VALUE (mil. dol.)				
	1980	1985	1986	1987	1988, prel.	1980	1985	1986	1987	1988, prel.
Domestic shipments ¹	1,486.1	941.7	854.6	872.0	(NA)	1,129.9	699.2	664.8	718.5	(NA)
Ferromanganese ²	194.3	156.6	111.6	128.6	133.5	99.6	100.9	90.9	128.6	(NA)
Silicomanganese	161.6	(³)	(³)	(³)	(³)	70.3	(³)	(³)	(³)	(³)
Manganese metal	(NA)	(³)	(³)	(³)	(³)	(NA)	(³)	(³)	(³)	(³)
Ferrosilicon	681.4	404.7	371.3	374.9	389.4	442.6	190.4	218.4	193.2	(NA)
Silicon metal	124.5	121.6	126.1	149.7	162.3	(NA)	157.2	148.8	186.7	(NA)
Chromium alloys	237.5	108.5	115.7	126.5	(NA)	179.9	97.7	87.6	107.1	(NA)
Ferrophosphorus	85.4	54.9	53.8	40.6	(NA)	13.1	7.9	7.2	6.2	(NA)
U.S. exports	155.5	106.0	83.7	93.0	(NA)	173.8	135.3	115.2	165.3	(NA)
Ferroalloys	128.5	98.5	72.8	77.5	(NA)	93.1	63.4	39.2	44.6	(NA)
Metals ¹	27.0	7.5	10.8	15.0	20.6	80.7	71.9	76.0	115.9	(NA)
Silicon	14.4	2.1	5.4	9.2	10.3	65.5	61.6	65.2	106.2	184.2
Manganese	12.3	5.2	5.1	5.8	9.9	11.5	7.2	7.9	9.7	16.2
U.S. imports ¹	1,149.1	1,131.2	1,314.2	1,228.7	(NA)	643.7	600.5	641.3	642.6	(NA)
Ferroalloys ¹	1,115.9	1,066.9	1,259.2	1,123.7	(NA)	585.9	488.4	544.6	436.0	(NA)
Manganese alloys	683.5	532.7	594.5	558.1	763.5	240.8	155.9	179.4	172.3	304.1
Ferrosilicon	71.2	155.4	223.0	230.7	230.9	42.6	74.0	100.6	108.7	175.7
Chromium alloys	302.3	335.0	397.6	393.9	475.3	155.8	158.6	178.4	155.2	357.5
Metals	33.3	64.4	55.1	50.2	78.2	57.8	112.1	96.6	108.0	153.5
Silicon	21.3	51.8	40.9	36.9	62.0	21.4	83.4	65.2	74.3	108.7
Chromium	4.1	4.0	4.5	4.4	4.5	28.4	19.6	21.6	24.1	29.9
Manganese	7.9	8.6	9.7	8.9	11.7	8.0	9.1	9.8	9.6	14.9

NA Not available. ¹ Includes other not shown separately. ² Includes fused-salt electrolytic low and medium-carbon ferromanganese. ³ Included with ferromanganese.Source: U.S. Bureau of Mines, *Minerals Yearbook*.

NO. 1249. BERYLLIUM—SUMMARY: 1980 TO 1988

[In metric tons, except as indicated. Represents beryllium mineral concentrates. Beryllium has great stiffness, (exceeding that of other metals, including steels), useful heat dissipation properties, a very high strength-to-weight ratio, useful nuclear moderating and reflecting properties, and excellent corrosion resistance. Its major use is as a beryllium-copper alloy in communications, computers, switching, and other electronic and electrical applications]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.
Imports for consumption	1,545	1,940	2,406	1,990	1,208	1,493	1,370	2,088	885
Consumption ¹	7,718	7,385	4,887	6,340	8,167	7,167	7,212	8,074	6,078
Price, per metric ton unit BeO ² (dollars)	76	104	133	139	97	96	97	93	103
Yearend stocks ¹	1,225	2,017	4,638	6,394	5,128	4,513	4,423	4,105	3,946
World production of beryl	9,319	9,624	8,167	9,147	8,982	8,147	8,951	8,440	8,294

NA Not available. ¹ Includes bertrandite ore which was calculated as equivalent to beryl containing 11% BeO.² Approximate.Source: U.S. Bureau of Mines, *Minerals Yearbook*.



Section 26

Construction and Housing

This section presents data on the construction industry and on various indicators of its activity and costs; on housing units and their characteristics and occupants; on public housing; on mortgages; and on commercial buildings.

The principal source of these data is the U.S. Bureau of the Census, which issues a variety of current publications. Construction statistics compiled by the Bureau appear in its monthly *Current Construction Reports* series with various quarterly or annual supplements; *Housing Starts* and *Housing Completions* present data by type of structure and by 4 major census regions; *New One-Family Houses Sold and For Sale* also provides statistics annually on physical and financial characteristics for all new housing by the 4 major census regions; *Price Index of New One-Family Houses Sold* presents quarterly figures and annual regional data; and *Housing Units Authorized by Building Permits* covers approximately 17,000 permit-issuing jurisdictions in the United States. Statistics on expenditures by owners of residential properties are issued quarterly and annually in *Expenditures for Residential Upkeep and Improvements*. *Value of New Construction Put in Place* presents data on all types of construction and includes monthly composite cost indexes. Reports of the censuses of construction industries (see below) are also issued on various topics.

Other Census Bureau publications include the *Current Housing Reports* series, which comprises the quarterly *Housing Vacancies*, the quarterly *Market Absorption of Apartments*, the American Housing Survey (formerly Annual Housing Survey) and reports of the censuses of housing and of construction industries. *Construction Review*, published quarterly by the International Trade Administration, U.S. Department of Commerce, contains many of the census series and other construction statistics series from the Federal Government and private agencies.

Other sources include the monthly *Dodge Construction Potentials* of F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, NY, which presents State data on construction contracts; the National Association of Home Builders with State-level data on housing starts; the NATIONAL ASSOCIATION OF REALTORS, which presents data on existing home sales and commercial office space; the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the U.S. Office of Thrift Supervision (formerly the Federal Home Loan Bank Board), the Department of Housing and Urban Development (HUD), and the Department of Veterans Affairs, which publish financial data. Data on conventional home mortgages are provided by the U.S. Office of Thrift Supervision. The Department of Housing and Urban Development provides data on the gross flow of long-term mortgage loans in its study, *The Supply of Mortgage Credit, 1970-1979*. Data on mortgages insured by the Federal Housing Administration (FHA) and on VA-guaranteed loans are also presented in this section. The Energy Information Administration provides data on commercial buildings through its periodic sample surveys.

Censuses and surveys.—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every five years (for years ending in "2" and "7"). The latest reports are for 1987.

The 1987 Census of Construction Industries, in accordance with the 1987 *Standard Industrial Classification Manual* (see text, section 13), covers all employer establishments primarily engaged in (1) building construction by general contractors or operative builders; (2) heavy (non-building) construction by general contractors; and (3) construction by special trade contractors.

From 1850 through 1930, the Bureau of the Census collected some housing data as part of its censuses of population and agriculture. Beginning in 1940, separate censuses of housing have been taken at 10-year intervals. For the 1970 and 1980 censuses, data on year-round housing units were collected and issued on occupancy and structural characteristics, plumbing facilities, value, and rent.

Evaluation studies of the 1950, 1960, 1970, and 1980 censuses estimated the underenumeration of occupied housing units at 2.9 percent, 2.4 percent, 1.7 percent, and 1.5 percent respectively. The missed rate in 1980 for all housing units was 2.6 percent or approximately 2.3 million units, 1 million of which were vacant housing units.

The American Housing Survey (*Current Housing Reports*, series H-150 and H-170), which began in 1973, provided an annual and ongoing series of data on selected housing and demographic characteristics until 1983. In 1984 the name of the survey was changed from the Annual Housing Survey. It is currently based on a biennial national sample and on 11 annual MSA samples. All samples represent a cross section of the housing stock in their respective areas. Estimates are subject to both sampling and nonsampling errors; caution should therefore, be used in making comparisons with 1970 and 1980 census data.

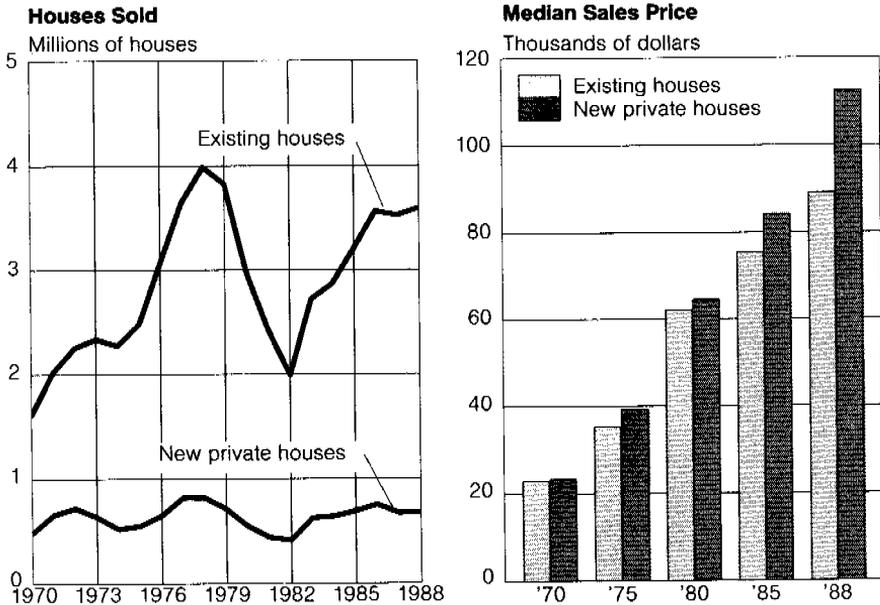
Data on residential mortgages were collected continuously from 1890 to 1970, except 1930, as part of the decennial census by the Bureau of the Census. Since 1973, mortgage status data, which are limited to single family homes on less than ten acres with no business on the property, have been presented in the American Housing Survey.

Housing units.—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the structure and there is direct access from the outside or through a common hall. Transient accommodations, barracks for workers, and institutional-type quarters are not counted as housing units.

Statistical reliability.—For a discussion of statistical collection and estimation, sampling procedures, and measures of statistical reliability applicable to Census Bureau data, see Appendix III.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix IV.

Figure 26.1

Single-Family Houses Sold and Sales Price: 1970 to 1988

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1263, 1264, and 1266.

No. 1250. CONSTRUCTION INDUSTRIES—SUMMARY, BY INDUSTRY: 1987

[Preliminary. Based on a probability sample of about 160,000 construction establishments with payroll in 1987; see Appendix III. N.e.c.=Not elsewhere classified]

SIC ¹ code	INDUSTRY	Estab-lish-ments with payroll (1,000)	EMPLOYEES (1,000)		PAYROLL (mil. dol.)		DOLLAR VALUE OF BUSINESS DONE (mil. dol.)		Value added ³ (mil. dol.)
			Total	Con-struction work-ers	Total	Con-struction work-ers	Total	Net value of con-struction work ²	
(X)	All industries, total.....	545.7	5,100	4,020	112,063	80,775	526,913	366,751	229,140
	Contract construction.....	537.0	5,047	4,007	110,909	80,565	516,955	363,330	226,009
15	General building contractors.....	159.1	1,231	932	28,239	17,447	231,734	113,641	66,413
1521	Single-family houses.....	91.2	404	313	6,537	4,447	41,113	27,955	15,251
1522	Other residential buildings.....	8.1	79	59	1,688	1,101	12,924	5,941	3,436
1531	Operative builders.....	21.1	174	81	4,565	1,528	61,955	28,478	15,618
1541	Industrial buildings and warehouses.....	7.1	144	112	3,649	2,523	22,676	11,266	6,996
1542	Nonresidential buildings, n.e.c.....	31.6	490	367	11,939	7,848	93,066	40,001	25,112
16	Heavy construction contractors.....	36.6	833	689	20,528	15,655	85,161	67,866	44,504
1611	Highway and street construction.....	10.9	284	239	7,005	5,399	34,692	27,329	16,731
1622	Bridge, tunnel, and elevated highway.....	1.1	53	44	1,321	1,013	6,010	4,521	2,668
1623	Water, sewer, and utility lines.....	9.9	196	165	4,519	3,450	16,817	14,570	9,815
1629	Heavy construction, n.e.c.....	14.7	300	241	7,693	5,793	27,642	21,446	15,291
17	Special trade contractors ⁴	341.3	2,923	2,386	62,144	47,463	200,060	181,823	115,082
1711	Plumbing, heating, air-conditioning.....	69.6	612	467	14,189	10,267	48,426	42,877	24,951
1721	Painting and paperhanging.....	29.9	170	145	2,990	2,415	7,974	7,414	5,705
1731	Electrical work.....	48.3	515	412	12,800	9,878	35,107	33,520	20,921
1741	Masonry and other stonework.....	23.2	168	150	2,952	2,467	8,485	7,944	5,255
1742	Plastering, drywall, insulation.....	17.7	251	216	5,442	4,333	16,069	14,468	9,374
1743	Terrazzo, tile, marble, and mosaic work.....	5.0	34	27	726	548	2,216	2,085	1,264
1751	Carpentry.....	35.8	190	164	3,261	2,619	11,014	9,600	5,832
1752	Flooring and other floor work.....	8.4	46	35	922	662	3,871	3,433	1,901
1761	Roofing, siding, and sheet metal work.....	25.6	233	189	4,348	3,164	14,904	13,822	8,346
1771	Concrete work.....	23.3	217	186	4,146	3,265	15,060	13,719	8,359
1781	Water well drilling.....	3.5	18	14	342	254	1,405	1,331	803
1791	Structural steel erection.....	3.9	63	53	1,516	1,192	4,540	4,071	2,941
1793	Glass and glazing work.....	4.7	42	30	960	640	3,575	3,264	1,773
1794	Excavation work.....	13.4	96	80	2,084	1,619	8,576	7,821	5,819
1795	Wrecking and demolition work.....	1.3	14	12	265	199	969	851	795
1796	Installing building equipment, n.e.c.....	3.8	63	51	1,884	1,476	5,588	5,107	3,816
1799	Special trade contractors, n.e.c.....	23.9	191	155	3,317	2,465	12,281	10,696	7,198
6552	Land subdividers and developers, n.e.c.....	8.7	53	13	1,153	210	9,958	3,421	3,131

X Not applicable. ¹ Standard Industrial Classification; see text, section 13. ² Value of construction work less payments for construction work subcontracted to others, not shown separately. ³ Dollar value of business done less (a) payments for materials, components, and supplies, (b) payments for construction work subcontracted to others, not shown separately. ⁴ Dollar value of business done: no shown.

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1987*, series CC.

No. 1251. CONSTRUCTION MATERIALS—PRODUCER PRICE INDEXES: 1970 TO 1988

[1982 = 100, except as noted. For discussion of producer price index, see text, section 15. This index, more formally known as the special commodity grouping index for construction materials, covers materials incorporated as integral part of a building or normally installed during construction and not readily removable. Excludes consumer durables such as kitchen ranges, refrigerators, etc. This index is not the same as the stage-of-processing index of intermediate materials and components for construction. See *Historical Statistics, Colonial Times to 1970*, series N 140-155 for similar data]

COMMODITY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Construction materials	39.1	60.4	92.5	98.2	100.0	103.4	106.4	107.6	107.3	109.5	115.7
Interior solvent based paint.....	40.1	60.2	91.3	97.4	100.0	100.0	103.9	107.3	109.9	111.6	120.3
Plastic construction products.....	65.5	83.5	103.9	104.3	100.0	110.1	115.5	109.6	106.4	108.4	121.1
Douglas fir, dressed.....	40.8	79.6	132.6	117.1	100.0	135.8	123.2	126.5	124.5	125.1	135.7
Southern pine, dressed.....	40.1	61.3	104.0	102.0	100.0	111.9	111.9	105.2	104.9	114.1	112.4
Milkwork.....	41.5	57.4	93.2	97.8	100.0	108.2	110.2	111.7	113.7	117.7	121.9
Softwood plywood.....	40.3	71.1	109.5	108.7	100.0	110.0	107.6	107.4	109.4	109.8	109.1
Hardwood plywood and related products.....	56.6	66.0	97.5	99.3	100.0	99.3	99.6	89.9	91.0	92.9	94.2
Softwood plywood veneer, ex. reinforced/backed.....	(NA)	75.2	126.0	118.9	100.0	103.1	103.3	100.1	105.9	108.4	117.3
Building paper and building board mill products.....	42.2	53.1	96.1	96.7	100.0	104.4	108.2	107.4	108.8	111.2	113.3
Tube, drawn, 6000 alloy series.....	35.6	56.5	85.6	94.0	100.0	100.9	109.3	113.5	116.8	117.4	122.5
Builders hardware.....	41.7	58.7	84.9	94.4	100.0	104.9	109.3	111.9	115.5	119.7	128.7
Plumbing fixtures and brass fittings.....	39.9	58.2	88.5	96.0	100.0	103.8	108.6	111.9	115.0	118.1	122.5
Heating equipment.....	46.6	63.5	87.0	94.5	100.0	102.7	106.6	109.5	113.0	115.5	119.2
Metal doors, sash, and trim.....	38.9	55.9	87.8	96.0	100.0	102.8	106.6	107.3	108.9	112.0	122.4
Siding, aluminum ¹	(NA)	(NA)	(NA)	(NA)	(NA)	101.3	112.4	110.1	104.8	104.4	116.8
Incandescent outdoor lighting fixtures.....	34.4	53.0	82.7	92.6	100.0	104.7	109.2	109.2	112.0	117.2	122.4
Commercial fluorescent fixtures, recessed non-air.....	51.1	81.0	81.8	93.4	100.0	99.5	103.3	104.6	105.9	104.9	105.7
Bright nails.....	31.4	66.1	90.9	97.7	100.0	98.0	99.4	100.2	99.8	101.2	104.7
Welded steel wire fabric for concrete reinforcing.....	40.6	(NA)	98.9	98.8	100.0	98.5	101.9	101.3	98.8	98.3	109.2
Elevators, escalators, and other lifts.....	42.3	62.0	87.3	92.7	100.0	97.3	97.1	97.7	99.2	100.4	103.6
Stamped metal outlet box.....	31.4	(NA)	92.7	91.2	100.0	105.2	114.9	119.7	152.0	160.1	168.7
Concrete ingredients and related products.....	36.3	55.6	88.4	95.6	100.0	101.1	105.1	108.5	109.4	110.4	112.0
Concrete products.....	37.7	57.3	92.0	97.8	100.0	101.4	103.9	107.5	109.2	110.4	112.0
Clay construction products exc. refractories.....	42.1	58.0	88.8	95.8	100.0	106.5	110.0	113.5	118.0	121.4	124.9
Prep. asphalt and tar roofing and siding products.....	28.8	61.7	105.5	101.6	100.0	94.1	97.7	100.5	96.8	91.9	94.4
Gypsum products.....	38.9	56.2	100.1	100.1	100.0	111.7	135.4	132.3	137.0	125.2	112.9
Insulation materials.....	34.6	55.0	80.7	(NA)	100.0	103.7	104.0	105.2	105.7	105.0	105.8
Paving mixtures and blocks.....	18.1	44.0	83.7	100.5	100.0	100.9	106.1	111.6	104.9	100.8	102.7

NA Not available. ¹ December 1982 = 100.

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

No. 1252. PRICE AND COST INDEXES FOR CONSTRUCTION: 1970 TO 1988

[1982=100. Excludes Alaska and Hawaii. Indexes of certain of these sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970*, series N 118-137, for construction cost indexes on a 1947-49 base]

NAME OF INDEX	1970	1975	1980	1981	1983	1984	1985	1986	1987	1988
Price index for new one-family houses sold ¹	35.1	52.3	88.8	97.0	102.6	106.3	108.4	111.3	113.7	113.4
Dept. of Commerce composite ²	36.5	56.4	89.7	97.0	102.7	106.6	109.8	111.9	114.4	116.2
Federal Highway Admin., composite, Highways ³	39.5	65.9	111.0	106.7	99.8	105.6	117.2	116.9	117.2	125.8
Bureau of Reclamation composite ⁴	37	59	87	95	101	103	105	108	107	111
Turner Construction Co.: Building construction ⁵	40	61	84	93	105	111	115	118	122	127
E.H. Boeckh, building cost index: ⁶										
Small residential structures.....	38.3	57.4	87.4	92.2	105.9	111.9	115.1	117.3	119.7	122.7
Apartments, hotels, and office buildings.....	38.3	57.1	83.4	91.6	106.4	111.2	113.0	114.9	117.3	120.5
Commercial and factory buildings.....	36.6	56.2	84.1	92.2	105.3	109.4	111.3	113.2	115.1	118.5
Engineering News-Record: ⁷										
Building construction.....	37.4	58.5	87.0	93.9	106.7	108.2	108.7	111.2	113.8	116.3
General construction.....	36.2	57.8	84.6	92.5	106.3	108.4	109.7	112.3	115.2	118.1
Handy-Whitman public utility: ⁸										
Building.....	37	66	95	100	103	107	110	113	115	119
Electric light and power ⁹	35	60	87	95	103	105	107	107	109	116
Gas.....	36	57	84	93	103	106	106	103	106	112
Telephone.....	46	60	85	94	103	109	112	114	116	123
Water ¹⁰	36	61	91	97	103	107	109	111	113	117

¹ Excludes value of site. ² Covers both building and nonbuilding construction, excluding maintenance and repair. Represents a weighted average of various indexes used for different types of construction. ³ Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). ⁴ Derived from the four quarterly indexes which are weighted averages of costs of labor, materials, and equipment for the construction of dams and reclamation projects. ⁵ Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. ⁶ Average of 20 cities for types shown. Weights based on surveys of building costs. Wage rates used for both common and skilled labor. ⁷ Building construction index computed on basis of hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. General construction index based on same materials components combined with 200 hours of common labor. ⁸ Based on data covering public utility construction costs in 6 geographic regions. Covers skilled and common labor. ⁹ As derived by U.S. Bureau of the Census. Covers steam generation plants only. ¹⁰ As derived by U.S. Bureau of the Census. Reflects costs for structures and improvements at water pumping and treatment plants.

Source: U.S. Bureau of the Census. In U.S. Department of Commerce, International Trade Administration, *Construction Review*, bimonthly.

No. 1253. VALUE OF NEW CONSTRUCTION PUT IN PLACE: 1960 TO 1988

[In millions of dollars. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

YEAR	CURRENT DOLLARS					CONSTANT (1982) DOLLARS				
	Total	Private			Public	Total	Private			Public
		Total	Residential buildings	Nonresidential buildings			Total	Residential buildings	Nonresidential buildings	
1960.....	54,738	38,875	22,975	10,149	15,863	(NA)	(NA)	(NA)	(NA)	(NA)
1965.....	78,474	56,554	30,235	17,995	21,920	276,033	198,783	107,240	63,223	77,250
1966.....	81,812	57,966	28,611	19,701	23,846	275,956	195,319	96,982	66,596	80,637
1967.....	83,521	58,144	28,737	18,855	25,377	272,964	189,976	94,372	61,929	82,968
1968.....	93,183	65,745	34,172	19,402	27,437	288,451	203,456	106,280	59,942	84,396
1969.....	100,464	72,671	37,214	22,530	27,793	291,289	210,743	108,933	64,348	80,546
1970.....	101,281	73,374	35,863	22,770	27,908	277,618	202,969	102,285	60,951	74,650
1971.....	117,904	88,205	48,514	23,872	29,699	302,795	229,096	130,477	58,786	73,699
1972.....	133,887	103,857	60,693	26,025	30,030	323,533	253,192	152,582	59,959	70,343
1973.....	147,368	115,020	65,085	29,949	32,348	327,299	257,106	148,976	63,808	70,194
1974.....	147,763	109,631	55,967	31,325	38,132	285,186	216,796	116,614	58,274	68,390
1975.....	144,438	102,736	51,581	27,545	41,702	255,878	186,492	98,542	49,037	69,387
1976.....	163,116	122,227	66,273	27,026	40,889	277,113	210,756	122,513	46,138	66,357
1977.....	188,232	148,791	92,004	29,693	39,441	296,142	235,632	148,320	47,114	60,510
1978.....	226,156	178,661	108,838	37,560	47,495	316,200	251,361	154,884	53,610	64,839
1979.....	252,986	201,295	116,444	49,505	51,690	312,689	251,065	144,450	62,877	61,624
1980.....	252,753	194,285	100,381	55,431	58,468	281,908	219,980	112,972	63,833	61,928
1981.....	261,290	204,741	99,241	64,695	56,549	269,241	212,226	102,140	67,758	57,016
1982.....	247,968	194,255	84,676	69,355	53,713	248,004	194,195	84,645	69,235	53,809
1983.....	282,436	228,664	125,521	65,675	53,772	275,096	221,773	122,078	63,234	53,324
1984.....	329,551	271,888	153,849	81,147	57,664	309,110	253,929	144,384	74,755	55,181
1985.....	356,648	292,578	158,474	95,317	64,070	324,877	267,040	145,791	85,497	57,837
1986.....	387,042	315,313	187,148	91,171	71,729	345,869	282,185	168,550	79,823	63,684
1987.....	397,720	320,106	194,656	91,994	77,614	347,594	279,443	171,184	78,177	68,151
1988.....	409,662	328,739	198,101	97,102	80,924	352,508	284,478	174,829	81,167	68,030

NA Not available.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

Value of New Construction

711

NO. 1254. VALUE OF NEW CONSTRUCTION PUT IN PLACE IN CURRENT AND CONSTANT (1982) DOLLARS

DOLLARS: 1980 TO 1988

[In millions of dollars, except percent. Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see *Construction Reports*, series C30-80S. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

ITEM	CURRENT DOLLARS					CONSTANT (1982) DOLLARS				
	1980	1985	1986	1987	1988	1980	1985	1986	1987	1988
Total	252,753	356,648	367,042	397,720	409,662	281,908	324,877	345,869	347,594	352,508
Annual percent change ¹	-1.	8.2	8.5	2.8	3.0	-9.8	5.1	6.5	.5	1.4
Private	194,285	292,578	315,313	320,106	328,739	219,980	267,040	282,185	279,443	284,478
Residential buildings ²	100,381	158,474	187,148	194,656	198,101	112,972	145,791	166,550	171,184	174,829
New housing units.....	69,629	114,662	133,192	139,915	138,947	78,379	105,497	119,973	123,063	122,622
1 unit.....	52,921	86,123	102,154	114,463	116,649	59,537	79,230	92,014	100,657	102,944
2 or more units.....	16,708	28,539	31,038	25,452	22,298	18,842	26,266	27,960	22,406	19,677
Improvements.....	30,752	43,812	53,956	54,741	59,154	34,594	40,295	48,577	48,121	52,208
Nonresidential buildings ³	55,431	95,317	91,171	91,994	97,102	63,833	85,497	79,823	78,177	81,167
Industrial.....	13,837	15,769	13,747	13,707	14,930	15,948	14,145	12,038	11,646	12,478
Office.....	13,318	31,580	28,591	26,430	28,044	15,323	28,331	25,037	22,466	23,444
Hotels, motels.....	2,930	7,301	7,451	7,380	6,794	3,373	6,550	6,522	6,275	5,681
Other commercial.....	16,627	28,048	28,170	29,015	30,059	19,153	25,153	24,660	24,649	25,125
Religious.....	1,637	2,409	2,702	2,753	2,822	1,884	2,159	2,365	2,340	2,359
Educational.....	1,243	1,896	2,343	3,438	2,912	1,428	1,700	2,050	2,921	2,435
Hospital, institutional.....	4,046	5,583	5,422	6,035	7,219	4,656	5,011	4,747	5,130	6,035
Miscellaneous.....	1,794	2,729	2,745	3,236	4,320	2,068	2,448	2,403	2,750	3,611
Farm nonresidential.....	5,274	2,197	2,072	2,098	2,087	6,067	1,973	1,814	1,784	1,745
Public utilities.....	31,949	33,885	32,646	28,730	29,394	35,935	31,278	29,942	25,930	24,975
Telecommunications.....	7,768	8,397	9,106	9,194	8,867	8,771	7,487	7,961	7,945	7,222
Other public utilities.....	24,181	25,468	23,542	19,536	20,527	27,064	23,791	21,981	17,986	17,753
Railroads.....	2,319	4,046	2,891	2,451	2,640	2,350	3,706	2,613	2,209	2,280
Electric light, power ⁴	16,048	15,968	15,392	11,796	11,851	18,321	14,943	14,245	10,772	10,128
Gas.....	5,006	5,182	4,973	4,920	5,659	5,505	4,886	4,845	4,655	5,030
Petroleum pipelines.....	809	272	286	369	377	888	256	278	349	335
All other private.....	1,250	2,726	2,275	2,628	2,055	1,273	2,500	2,056	2,369	1,763
Public	58,468	64,070	71,729	77,614	80,924	61,928	57,837	63,684	68,151	68,030
Buildings.....	18,517	20,114	23,456	25,158	27,455	21,259	18,076	20,564	21,429	23,019
Housing, redevelopment.....	1,648	1,511	1,456	1,519	1,499	1,854	1,392	1,312	1,336	1,323
Industrial.....	1,441	1,968	1,657	1,457	1,413	1,680	1,767	1,450	1,239	1,181
Educational.....	8,050	6,707	8,440	8,838	11,041	9,255	6,014	7,383	7,508	9,228
Hospital.....	1,785	2,017	1,998	2,209	2,283	2,053	1,810	1,750	1,878	1,908
Other.....	5,593	7,910	9,905	11,135	11,218	6,438	7,094	8,669	9,467	9,378
Highways and streets.....	17,225	21,540	22,970	25,340	28,523	15,792	18,800	19,847	22,058	23,168
Military facilities.....	1,880	3,235	3,867	4,324	3,579	1,924	2,871	3,363	3,718	2,953
Conservation, development.....	5,090	4,779	4,646	5,162	4,475	5,771	4,587	4,406	4,824	4,040
Sewer systems.....	7,171	7,196	8,105	8,835	8,271	8,129	6,901	7,681	8,258	7,470
Water supply facilities.....	3,266	2,664	3,370	3,602	3,752	3,652	2,440	3,023	3,183	3,213
Miscellaneous.....	5,318	4,541	5,313	5,194	4,869	5,400	4,162	4,801	4,662	4,167
Public ownership:										
State and local government.....	48,827	52,066	59,317	63,561	68,702	51,279	46,856	52,559	55,778	57,589
Federal government.....	9,641	12,004	12,412	14,052	12,222	10,649	10,981	11,124	12,373	10,441

¹ Change from immediate prior year. For 1980, change from 1979. Minus sign (-) indicates decrease. ² Includes farm residential. ³ Excludes building by privately owned public utilities. ⁴ Includes construction with Rural Electrification Administration (REA) funds.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

NO. 1255. VALUE OF PRIVATELY OWNED NONRESIDENTIAL BUILDING PROJECTS, BY CONSTRUCTION STATUS, 1980 TO 1988, AND BY TYPE OF PROJECT, 1988

[In billions of dollars]

CONSTRUCTION STATUS	1980	1981	1982	1983	1984	1985	1986	1987	1988					
									Total	Indus-trial	Office build-ing	Other com-mercial	Other ¹	
Value of projects—														
Started.....	48.3	65.8	55.5	63.3	84.7	90.8	89.7	87.2	91.0	11.7	28.3	29.0	22.0	
Completed.....	48.4	52.7	56.3	60.3	68.2	82.8	99.3	83.3	89.0	13.8	24.4	27.6	23.1	

¹ Privately owned hotels and motels, religious, educational, hospital and institutional, and miscellaneous nonresidential building projects.

Source: U.S. Bureau of the Census, *Construction Reports*, series C30.

NO. 1256. CONSTRUCTION CONTRACTS—VALUE OF CONSTRUCTION AND FLOOR SPACE OF BUILDINGS, BY CLASS OF CONSTRUCTION: 1976 TO 1988

[Includes new structures and additions, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 78-100]

YEAR	Total	Residential buildings	NONRESIDENTIAL BUILDINGS								Non-building construction	
			Total	Commercial ¹	Manufacturing	Educational ²	Hospital	Public buildings	Religious	Social and recreational		Miscellaneous
VALUE (bil. dol.)												
1976	110.1	44.2	30.0	10.2	4.5	4.9	4.5	2.1	.9	1.5	1.5	35.9
1977	139.7	62.0	35.3	13.6	5.4	5.2	4.5	2.3	1.0	1.8	1.5	42.6
1978	159.9	74.9	45.0	20.6	9.2	5.7	3.8	1.5	1.2	2.1	.9	39.9
1979	168.4	74.6	50.1	24.4	7.6	6.3	4.8	1.6	1.3	2.6	1.5	43.7
1980	148.4	63.7	52.5	24.8	8.4	6.8	5.3	1.6	1.2	2.7	1.7	32.2
1981	153.5	60.2	60.1	31.7	8.6	5.8	6.4	1.4	1.2	3.0	2.0	33.2
1982	156.2	59.2	59.5	28.2	9.5	6.1	7.8	1.9	1.2	2.8	2.0	37.4
1983	193.6	93.6	62.2	33.7	5.3	6.2	8.5	2.1	1.5	2.8	2.1	37.8
1984	211.5	101.4	74.4	42.1	7.3	7.7	7.2	2.7	1.7	3.3	2.4	35.8
1985	232.3	108.7	83.2	47.8	7.7	8.8	7.8	3.0	2.0	3.6	2.5	40.5
1986	248.6	122.9	83.8	45.8	7.3	10.5	7.9	3.2	2.1	4.2	2.6	42.0
1987	258.1	121.1	91.0	47.5	8.5	11.9	8.8	4.7	2.1	4.3	3.2	45.9
1988	253.1	120.9	86.8	44.6	8.2	12.4	8.0	4.0	2.2	4.6	2.8	45.5
FLOOR SPACE (mil. sq. ft.)												
1976	2,819	1,867	953	440	152	118	71	42	31	45	54	(X)
1977	3,536	2,440	1,097	564	175	112	66	43	32	48	57	(X)
1978	4,101	2,815	1,286	758	219	104	53	22	35	53	42	(X)
1979	3,905	2,528	1,377	816	243	102	57	20	34	53	52	(X)
1980	3,092	1,892	1,201	688	216	95	54	18	28	50	52	(X)
1981	2,797	1,620	1,178	733	187	74	60	14	25	44	41	(X)
1982	2,442	1,497	946	571	119	74	70	19	25	38	30	(X)
1983	3,379	2,349	1,030	647	110	74	83	20	29	46	31	(X)
1984	3,635	2,396	1,238	808	147	90	70	23	29	37	34	(X)
1985	3,822	2,414	1,408	939	159	100	73	26	32	41	36	(X)
1986	3,928	2,578	1,349	869	147	116	73	30	32	43	39	(X)
1987	3,749	2,369	1,380	859	160	126	78	42	32	46	37	(X)
1988	3,520	2,234	1,286	793	149	125	71	35	32	47	34	(X)

X Not applicable. ¹ Includes nonindustrial warehouses. ² Includes science.

NO. 1257. CONSTRUCTION CONTRACTS—VALUE, BY STATE: 1985 TO 1988

[In millions of dollars. See headnote, table 1256. Represents value of construction in States in which work was actually done]

STATE	1985	1986	1987	1988			STATE	1985	1986	1987	1988		
				Total (incl. non-bldg.)	Residential	Non-residential					Total (incl. non-bldg.)	Residential	Non-residential
U.S.	232,277	248,588	258,090	253,147	120,867	86,794	MO	3,851	4,357	4,421	4,202	1,944	1,534
AL	2,886	2,985	3,114	3,525	1,147	1,465	MT	698	486	559	500	216	114
AK	1,500	1,178	745	601	127	255	NE	1,040	1,049	960	1,034	399	347
AZ	6,829	6,354	5,765	5,194	2,475	1,986	NV	1,629	2,153	2,625	2,291	1,473	596
CA	1,649	1,494	1,424	1,268	595	322	NJ	1,355	1,622	1,738	1,894	1,075	642
CO	32,456	36,601	37,350	39,128	22,677	11,740	NM	8,077	8,999	8,867	8,411	3,860	2,799
CT	4,667	3,812	3,139	2,736	1,190	955	NY	11,368	12,606	15,609	13,679	5,591	5,098
DE	3,385	4,138	4,293	4,400	1,973	1,466	NC	6,671	6,920	7,089	7,547	3,702	2,893
DC	715	991	747	813	415	296	ND	557	478	429	445	143	146
FL	985	1,083	983	983	239	642	OH	6,943	8,494	9,218	9,470	3,939	4,141
GA	17,820	17,954	19,447	18,925	11,555	5,252	OK	2,650	2,185	2,260	1,721	616	562
HI	7,566	9,020	8,783	8,345	4,478	2,861	OR	1,634	1,604	1,832	2,164	999	762
IA	873	1,157	1,213	1,740	732	647	PA	7,008	8,464	10,191	9,930	4,446	3,489
IL	758	680	637	846	273	240	RI	828	825	1,083	1,007	548	294
IN	7,513	9,156	10,145	10,104	4,591	3,601	SC	3,446	3,182	3,679	3,677	1,802	1,144
KS	4,045	4,777	5,148	5,117	2,267	2,017	SD	485	446	405	425	132	121
LA	1,532	1,317	1,516	1,606	522	631	TN	4,394	4,568	5,108	4,748	2,194	1,781
MA	2,227	2,337	2,247	2,072	961	644	TX	21,305	17,098	14,867	12,477	4,357	4,266
MD	2,843	3,240	3,181	3,176	1,337	1,129	UT	1,633	1,630	1,409	1,418	538	509
ME	3,869	3,157	3,206	2,702	839	915	VT	487	576	530	703	423	172
MI	785	1,088	939	1,229	595	286	VA	7,586	8,734	8,933	9,920	4,920	3,367
MN	5,703	6,267	7,266	6,820	3,582	2,079	WA	4,409	5,055	5,232	4,946	2,542	1,423
MO	5,806	6,498	7,733	7,446	3,578	2,970	WV	858	1,004	1,112	788	206	293
MS	5,827	6,995	8,673	8,786	3,535	3,695	WI	3,038	3,184	3,638	3,854	1,654	1,443
	4,285	4,888	4,993	4,752	2,279	1,610	WY	693	605	479	452	115	55
	1,543	1,523	1,635	1,544	522	564							

Source of tables 1256 and 1257: F. W. Dodge, National Information Services Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potentials*.

New Privately Owned Housing—Valuation of Construction

713

NO. 1258. NEW PRIVATELY OWNED HOUSING UNITS AUTHORIZED, BY STATE: 1987 AND 1988

[Based on about 17,000 places in U.S. having building permit systems]

STATE	HOUSING UNITS (1,000)		VALUATION (mil. dol.)		STATE	HOUSING UNITS (1,000)		VALUATION (mil. dol.)					
	1988		1987	1988		1988		1988					
	Total	1 unit		Total		1 unit	Total	1 unit	Total	1 unit			
U.S.	1,534.8	1,455.6	993.8	93,346	101,625	82,815							
AL.....	14.5	12.8	9.7	648	614	548	MO.....	29.1	23.5	16.1	1,643	1,448	1,203
AK.....	7	8	5	63	78	52	MT.....	.8	.8	.6	48	53	44
AZ.....	40.2	32.9	23.4	2,775	2,462	2,054	NE.....	4.9	5.7	3.5	242	294	246
AR.....	6.5	6.2	4.7	320	319	283	NV.....	16.3	30.8	12.6	786	1,301	765
CA.....	251.8	253.4	160.7	13,580	23,659	18,274	NH.....	14.6	11.7	7.7	1,017	826	660
CO.....	18.0	12.9	9.7	1,235	980	863	NJ.....	51.5	40.9	28.5	3,575	2,932	2,294
CT.....	26.8	18.9	12.8	1,806	1,365	1,145	NY.....	9.3	6.4	5.2	549	421	397
DE.....	7.1	7.4	5.9	319	354	314	NC.....	54.3	50.3	37.5	4,417	4,016	3,179
DC.....	1.2	.9	.3	43	35	17	ND.....	2.0	1.8	.8	93	89	64
FL.....	178.8	170.6	110.3	1,210	9,670	7,408	OH.....	45.2	45.1	27.6	2,999	3,076	2,530
GA.....	64.2	63.0	42.6	1,723	3,688	3,068	OK.....	6.2	5.0	4.3	363	324	307
HI.....	6.9	8.4	5.7	470	657	487	OR.....	12.2	14.0	9.2	753	929	765
ID.....	3.2	3.2	2.8	201	226	214	PA.....	54.8	53.8	45.3	3,588	3,863	3,537
IL.....	50.4	49.1	34.0	1,807	4,058	3,386	RI.....	7.2	6.1	3.7	396	365	288
IN.....	27.3	25.2	19.2	1,756	1,625	1,629	SC.....	23.5	23.1	17.1	1,405	1,391	1,218
IA.....	5.8	6.8	4.4	314	417	333	SD.....	1.9	1.9	1.1	85	90	66
KS.....	11.8	9.7	7.3	802	759	682	TN.....	29.9	27.8	19.4	1,765	1,660	1,432
KY.....	13.2	13.4	9.0	740	787	674	TX.....	50.5	40.5	35.9	3,570	3,139	3,009
LA.....	8.5	7.3	5.4	450	402	353	UT.....	7.7	6.3	5.9	509	452	435
ME.....	9.8	8.8	6.8	584	548	472	VT.....	4.6	4.8	3.7	299	344	298
MD.....	41.1	39.6	33.3	1,485	2,650	2,414	VA.....	66.7	66.5	48.2	3,697	4,059	3,447
MA.....	40.4	30.5	20.1	1,084	2,524	1,995	WA.....	38.3	45.1	21.5	2,224	2,668	1,757
MI.....	46.6	44.9	29.7	1,626	2,776	2,251	WV.....	1.9	1.8	1.3	86	91	80
MN.....	33.4	28.4	19.2	1,422	2,072	1,724	WI.....	24.1	24.1	14.8	1,330	1,460	1,128
MS.....	6.6	7.4	4.9	324	340	275	WY.....	.6	.7	.5	37	50	42

Source: U.S. Bureau of the Census, Construction Reports, series C40, annual.

NO. 1259. VALUATION OF CONSTRUCTION AUTHORIZED BY PERMIT, BY TYPE OF CONSTRUCTION AND STATE: 1988

[In millions of dollars]

STATE	Total ¹	Residential	NONRESIDENTIAL				STATE	Total ¹	Residential	NONRESIDENTIAL			
			Total ¹	Industrial	Office	Stores				Total ¹	Industrial	Office	Stores
United States.....	195,552	101,625	51,544	8,439	14,726	13,975	Montana.....	148	53	40	5	7	12
Alabama.....	1,805	614	764	297	151	160	Nebraska.....	646	294	180	35	37	40
Alaska.....	193	78	57	7	4	28	Nevada.....	2,158	1,301	376	69	29	161
Arizona.....	4,119	2,462	1,128	73	287	411	New Hampshire.....	1,591	826	456	64	74	79
Arkansas.....	40,080	23,659	9,028	1,730	2,719	2,242	New Jersey.....	6,236	2,932	1,450	146	537	434
California.....	2,048	980	544	54	84	206	New Mexico.....	693	421	164	9	60	58
Colorado.....	3,182	1,365	757	122	291	163	New York.....	8,372	4,016	2,022	302	497	579
Connecticut.....	707	354	195	22	62	77	North Carolina.....	5,856	3,020	1,693	311	444	470
District of Columbia.....	245	35	93	-	62	8	North Dakota.....	202	89	49	4	11	12
Florida.....	15,935	9,670	3,733	297	865	1,206	Ohio.....	7,114	3,076	2,372	308	603	481
Georgia.....	6,668	3,688	1,971	315	683	550	Oklahoma.....	800	324	278	39	66	81
Hawaii.....	1,518	657	262	21	67	82	Oregon.....	1,820	929	488	131	107	125
Idaho.....	539	226	192	56	33	45	Pennsylvania.....	7,955	3,863	2,338	341	845	546
Illinois.....	8,626	4,058	2,544	442	1,000	597	Rhode Island.....	662	365	101	18	29	27
Indiana.....	3,618	1,825	1,138	245	134	429	South Carolina.....	2,647	1,391	763	112	141	317
Iowa.....	986	417	310	88	47	86	South Dakota.....	239	90	73	8	6	13
Kansas.....	1,420	759	380	75	76	113	Tennessee.....	3,293	1,660	964	148	207	353
Kentucky.....	1,537	787	492	112	105	162	Texas.....	6,840	3,139	1,683	277	254	515
Louisiana.....	1,061	402	289	28	51	99	Utah.....	957	452	342	40	52	85
Maine.....	1,028	548	244	56	52	74	Vermont.....	625	344	128	27	22	31
Maryland.....	5,115	2,650	1,199	136	482	288	Virginia.....	7,978	4,059	2,634	194	1,172	731
Massachusetts.....	5,631	2,524	1,310	233	519	241	Washington.....	4,773	2,668	1,365	215	544	348
Michigan.....	6,185	2,776	1,899	574	540	421	West Virginia.....	255	91	65	2	10	31
Minnesota.....	3,771	2,072	716	104	99	229	Wisconsin.....	2,984	1,460	779	219	177	195
Mississippi.....	714	340	221	25	67	68	Wyoming.....	216	50	133	113	4	4
Missouri.....	3,086	1,448	929	131	305	204							

- Represents zero. ¹ Includes types of construction not shown separately.

Source: U.S. Bureau of the Census, unpublished data.

**No. 1260. NEW PRIVATELY-OWNED HOUSING UNITS STARTED—SELECTED CHARACTERISTICS:
1970 TO 1988**

[In thousands. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 156-163 and 170]

YEAR	Total units	STRUCTURES WITH—			REGION				CONDOMINIUM UNITS ¹			TYPE OF ASSISTANCE	
		One unit	2-4 units	5 or more units	North-east	Mid-west	South	West	Total	Single-family	Multi-family	FHA	VA
1970	1,434	813	85	536	218	294	612	311	(NA)	(NA)	(NA)	421	61
1971	2,052	1,151	120	781	264	434	869	486	(NA)	(NA)	(NA)	528	94
1972	2,357	1,309	141	906	330	443	1,057	527	(NA)	(NA)	(NA)	371	104
1973	2,045	1,132	118	795	277	440	899	429	241	69	172	163	86
1974	1,338	888	68	382	183	317	553	285	175	46	130	95	73
1975	1,160	892	64	204	149	294	442	275	65	20	45	98	77
1976	1,538	1,162	86	289	169	400	569	400	95	30	64	144	100
1977	1,987	1,451	122	414	202	465	783	538	118	41	77	178	131
1978	2,020	1,433	125	462	200	451	824	545	156	42	114	178	127
1979	1,745	1,194	122	429	178	349	748	470	198	43	156	178	122
1980	1,292	852	110	331	125	218	643	306	186	35	150	177	95
1981	1,084	705	91	288	117	165	562	240	181	36	145	145	75
1982	1,062	663	80	320	117	149	591	205	170	40	130	152	73
1983	1,703	1,068	113	522	168	218	935	382	276	77	199	121	107
1984	1,750	1,084	121	544	204	243	866	436	291	96	194	63	97
1985	1,742	1,072	93	576	252	240	782	468	225	79	146	159	90
1986	1,805	1,179	84	542	294	296	733	483	214	80	134	286	80
1987	1,620	1,146	65	409	289	298	634	420	196	73	123	176	58
1988	1,488	1,081	59	348	235	274	575	404	148	53	95	117	52

NA Not available. ¹ Type of ownership under which the owners of the individual housing units are also joint owners of the common areas of the building or community. Includes a small number of cooperatively-owned units.

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

No. 1261. NEW PRIVATELY-OWNED HOUSING UNITS STARTED, BY STATE: 1985 TO 1988

[In thousands of units. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	1985	1986	1987	1988		DIVISION AND STATE	1985	1986	1987	1988	
				Total units	Single-family units					Total units	Single-family units
U.S.	1,741.0	1,807.0	1,622.0	1,488.0	1,081.0	S.A.	496.5	501.5	476.1	442.4	327.2
Region:						DE	4.9	5.7	7.9	8.9	7.0
Northeast	251.0	293.0	269.0	235.0	181.0	MD	39.3	42.2	41.1	33.4	28.1
Midwest	241.0	296.0	299.0	274.0	194.0	DC	7	1.6	2.7	2.8	.8
South	782.0	735.0	634.0	575.0	442.0	VA	74.6	73.7	70.0	69.3	49.3
West	467.0	483.0	420.0	404.0	264.0	WV	2.0	2.5	2.1	2.1	1.6
N.E.	90.8	112.4	100.1	81.2	61.1	NC	82.6	75.5	61.6	53.4	46.0
ME	7.8	10.7	9.6	8.1	6.4	SC	30.8	28.1	27.8	24.2	21.0
NH	15.5	18.3	14.7	11.2	7.6	GA	67.9	79.2	69.1	63.1	42.2
VT	3.7	4.7	4.6	4.5	3.6	FL	193.8	193.0	193.9	185.1	131.2
MA	34.6	42.5	39.2	29.0	22.2	E.S.C.	93.6	89.7	75.3	65.0	53.8
RI	4.8	7.2	6.9	6.8	4.9	KY	19.9	16.1	15.4	13.3	11.0
CT	24.3	28.9	25.1	21.4	16.3	TN	45.5	39.1	35.0	30.8	24.8
M.A.	160.2	180.8	168.9	153.8	119.9	AL	19.3	24.3	17.3	13.9	12.0
NY	60.4	64.3	62.5	56.2	37.4	MS	8.9	10.1	7.7	7.1	6.0
NJ	56.3	60.0	51.1	46.3	37.4	W.S.C.	191.9	143.9	82.6	67.6	61.0
PA	43.5	56.4	55.4	51.4	45.1	AR	9.9	12.1	8.0	11.8	10.6
E.N.C.	149.2	197.5	208.8	184.1	135.5	LA	17.2	12.9	9.5	8.0	6.8
OH	30.2	43.7	47.5	43.8	35.6	OK	14.0	11.3	7.5	6.7	5.5
IN	21.3	29.5	30.0	24.5	22.2	TX	150.8	107.6	57.6	41.1	38.1
IL	42.4	52.2	54.3	49.8	36.7	Mt.	157.5	133.2	98.3	87.9	58.0
MI	36.3	50.9	52.9	45.3	25.3	MT	2.8	2.4	.9	1.1	.7
WI	17.1	21.2	24.2	20.8	15.8	ID	4.2	3.8	3.5	2.9	2.8
W.N.C.	91.8	98.5	90.2	89.9	58.5	WY	3.8	1.5	.7	.7	.5
MN	25.7	31.6	33.8	34.2	21.9	CO	33.6	30.5	19.2	11.9	8.9
IA	4.6	5.6	6.2	6.0	5.0	NM	9.8	8.4	7.7	4.9	4.3
MO	33.4	37.3	29.0	31.1	17.8	AZ	72.1	57.7	40.9	38.4	25.1
ND	1.9	1.9	2.0	1.3	.9	UT	17.3	13.9	8.2	5.7	5.4
SD	2.7	2.0	2.0	1.8	1.4	NV	14.0	15.2	17.3	22.3	10.3
NE	5.4	6.2	5.5	5.0	4.0	Pac.	309.5	349.8	321.7	316.1	206.0
KS	18.1	13.9	11.7	10.5	7.5	WA	34.4	33.6	40.2	31.7	19.3
						OR	11.5	11.1	13.5	13.9	10.7
						CA	254.4	298.2	261.4	265.1	171.3
						AK	1.8	1.8	.8	.6	.5
						HI	5.9	5.2	5.8	5.0	4.2

Source: National Association of Home Builders, Economics Division, Washington, DC. Data provided by the Econometric Forecasting Service.

One-Family Houses Characteristics

715

NO. 1262. CHARACTERISTICS OF NEW PRIVATELY OWNED ONE-FAMILY HOUSES COMPLETED: 1970 TO 1988

[Percent distribution, except as indicated. Data beginning 1980 show percent distribution of characteristics for all houses completed (includes new houses completed, houses built for sale completed, contractor-built and owner-built houses completed, and houses completed for rent). Data for 1970 cover contractor-built, owner-built, and houses for rent for year construction started and houses sold for year of sale. Percents exclude houses for which characteristics specified were not reported]

CHARACTERISTIC	1970	1980	1985	1987	1988	CHARACTERISTIC	1970	1980	1985	1987	1988
Total houses (1,000).....	793	957	1,072	1,123	1,085	Bedrooms	100	100	100	100	100
Financing	100	100	100	100	100	2 or less.....	13	17	25	19	17
Mortgage.....	84	81	81	80	82	3.....	63	63	57	58	57
FHA-insured.....	30	16	15	15	13	4 or more.....	24	20	18	23	26
VA-guaranteed.....	7	8	7	6	4	Bathrooms	100	100	100	100	100
Conventional.....		55	57	59	63	1 or less.....	32	18	13	10	8
Farmers Home Administration.....	47					1½.....	20	10	11	7	7
Cash or equivalent.....	16	18	19	18	18	2.....	32	48	48	45	44
Floor area	100	100	100	100	100	2½ or more.....	16	25	29	38	42
Under 1,200 sq. ft.....	36	21	20	14	12	Heating fuel	100	100	100	100	100
1,200-1,599 sq. ft.....	28	29	30	27	25	Electricity.....	28	50	44	40	37
1,600-1,999 sq. ft.....	16	22	21	22	22	Gas.....	52	41	49	52	54
2,000-2,399 sq. ft.....	21	13	12	16	16	Oil.....	8	3	3	5	6
2,400 sq. ft. and over.....		15	17	21	25	Other.....	1	5	4	3	3
Average (sq. ft.).....	1,500	1,440	1,785	1,905	1,995	Heating system	100	100	100	100	100
Median (sq. ft.).....	1,385	1,395	1,605	1,755	1,810	Warm air furnace.....	71	57	54	57	60
Number of stories	100	100	100	100	100	Electric heat pump.....	(NA)	24	30	27	26
1.....	74	60	52	49	46	Other.....	29	19	15	16	15
2 or more.....	17	31	42	46	49	Central air-conditioning	100	100	100	100	100
Split level.....	10	8	6	5	4	With.....	34	63	70	71	75
Foundation	100	00	100	100	100	Without.....	66	37	30	29	25
Full or partial basement.....	37	36	35	39	39	Fireplaces	100	100	100	100	100
Slab.....	36	45	48	43	41	No fireplace.....	65	43	41	38	35
Crawl space.....	27	19	18	18	19	1 or more.....	35	56	59	62	65
						Parking facilities	100	100	100	100	100
						Garage.....	58	69	70	79	78
						Carport.....	17	7	5	3	3
						No garage or carport.....	25	24	25	18	18

NA Not available.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*.

NO. 1263. NEW PRIVATELY OWNED ONE-FAMILY HOUSES SOLD, BY REGION AND TYPE OF FINANCING, 1970 TO 1988, AND BY SALES-PRICE GROUP, 1988

[In thousands. Based on a national probability sample of monthly interviews with builders or owners of 1-family houses for which building permits have been issued or, for nonpermit areas, on which construction has started. For details, see source. For composition of regions, see fig. 1, inside front cover]

YEAR AND SALES-PRICE GROUP	Total sales	REGION				FINANCING TYPE			
		North-east	Mid-west	South	West	Conventional	FHA and VA	Farmers Home Admin.	Cash
1970.....	485	61	100	203	121	213	244	(1)	27
1971.....	656	82	127	270	176	314	314	(1)	28
1972.....	718	96	130	305	187	447	242	(1)	30
1973.....	634	95	120	257	161	465	134	(1)	34
1974.....	519	69	103	207	139	378	112	(1)	28
1975.....	549	71	106	222	150	363	122	43	22
1976.....	646	72	128	247	199	458	134	23	31
1977.....	819	86	162	317	255	592	166	24	38
1978.....	817	78	145	331	262	575	174	26	43
1979.....	709	67	112	304	225	469	186	18	36
1980.....	545	50	81	267	145	302	196	14	32
1981.....	436	46	60	219	112	244	142	14	36
1982.....	412	47	48	219	99	193	173	11	34
1983.....	623	76	71	323	152	350	217	8	49
1984.....	639	94	76	309	160	423	149	9	58
1985.....	688	112	82	323	170	403	208	11	64
1986.....	750	136	96	322	196	411	268	12	59
1987.....	671	117	97	271	186	408	190	8	64
1988, total	676	101	97	276	202	437	171	6	62
Under \$60,000.....	50	(B)	10	32	6	15	25	5	6
\$60,000 to \$69,999.....	48	3	8	30	7	18	25	(B)	4
\$70,000 to \$79,999.....	63	4	9	37	13	24	33	(B)	6
\$80,000 to \$89,999.....	121	9	20	55	36	57	53	(B)	11
\$100,000 to \$119,999.....	87	14	13	31	30	55	22	(B)	10
\$120,000 to \$149,999.....	108	20	14	36	39	87	10	(B)	11
\$150,000 to \$199,999.....	93	20	11	27	35	84	(B)	(B)	7
\$200,000 and over.....	107	30	12	27	37	98	(B)	(B)	8

B Base figure too small to meet statistical standards for reliability. 1 Houses financed by Farmers Home Administration included under conventional financing.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

NO. 1264. MEDIAN SALES PRICE OF NEW PRIVATELY OWNED ONE-FAMILY HOUSES SOLD, BY REGION: 1970 TO 1988

[In dollars. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

YEAR	U.S.	North-east	Mid-west	South	West	YEAR	U.S.	North-east	Mid-west	South	West
1971.....	25,200	30,600	27,200	22,500	25,500	1981.....	68,900	76,000	65,900	64,400	77,800
1972.....	27,600	31,400	29,300	25,800	27,500	1982.....	69,300	78,200	68,900	66,100	75,000
1973.....	32,500	37,100	32,900	30,900	32,400	1983.....	75,300	82,200	79,500	70,900	80,100
1974.....	35,900	40,100	36,100	34,500	35,800	1984.....	79,900	88,600	85,400	72,000	87,300
1975.....	39,300	44,000	39,600	37,300	40,600	1985.....	84,300	103,300	80,300	75,000	92,600
1976.....	44,200	47,300	44,800	40,500	47,200	1986.....	92,000	125,000	88,300	80,200	95,700
1977.....	48,800	51,600	51,500	44,100	53,500	1987.....	104,500	140,000	95,000	88,000	111,000
1978.....	55,700	58,100	59,200	50,300	61,300	1988 ¹	112,500	149,000	101,600	92,000	126,500
1979.....	62,900	65,500	63,900	57,300	69,600						

¹ 1989, U.S. total: 1st qtr., \$118,000; 2d qtr., \$118,900; and 3d qtr., \$120,000.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

NO. 1265. NEW MOBILE HOMES PLACED FOR RESIDENTIAL USE AND AVERAGE SALES PRICE, BY REGION: 1974 TO 1988

[A mobile home is a moveable dwelling, 10 feet or more wide and 35 feet or more long, designed to be towed on its own chassis and without need of a permanent foundation. Excluded are travel trailers, motor homes, and modular housing. Data are based on a probability sample and subject to sampling variability; see source. For composition of regions, see fig. 1, inside front cover]

YEAR	UNITS PLACED (1,000)					AVERAGE SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1974.....	332.0	23.3	67.5	170.8	70.4	9,300	9,400	9,300	8,300	11,600
1975.....	229.3	14.7	48.5	110.8	55.2	10,600	10,500	10,700	9,000	13,600
1976.....	249.6	16.8	51.5	114.8	66.5	12,300	11,600	11,600	10,800	16,000
1977.....	257.5	16.7	50.7	112.5	77.7	14,200	12,900	13,500	12,100	18,100
1978.....	279.9	17.4	49.5	135.3	77.7	15,900	14,300	15,100	13,700	20,600
1979.....	279.9	16.9	47.3	145.2	70.5	17,600	15,800	16,100	15,600	23,100
1980.....	293.7	12.3	32.3	140.3	48.7	19,800	18,500	18,600	18,200	25,400
1981.....	229.2	12.0	30.1	143.5	43.6	19,900	19,000	18,900	18,400	25,600
1982.....	234.1	12.4	25.6	181.1	35.0	19,700	19,800	20,000	18,500	24,700
1983.....	278.1	16.3	34.3	186.0	41.4	21,000	21,400	20,400	19,700	27,000
1984.....	287.9	19.8	35.2	193.4	39.4	21,500	22,200	21,100	20,200	27,400
1985.....	283.4	20.2	88.6	187.6	36.9	21,800	22,700	21,500	20,400	28,700
1986.....	256.1	21.2	37.2	162.3	35.4	22,400	24,400	21,800	20,700	29,900
1987.....	239.2	23.6	40.0	145.5	30.1	23,700	25,600	23,700	21,900	31,000
1988.....	224.3	22.7	39.1	130.7	31.8	25,100	27,000	24,600	22,700	33,900

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

NO. 1266. EXISTING ONE-FAMILY HOUSES SOLD AND PRICE, BY REGION: 1970 TO 1988

[Based on data (adjusted and aggregated to regional and national totals) reported by participating real estate multiple listing services. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. 1, inside front cover]

YEAR	HOUSES SOLD (1,000)					MEDIAN SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1970.....	1,612	251	501	568	292	23,000	25,200	20,100	22,200	24,300
1971.....	2,018	311	583	735	389	24,800	27,100	22,100	24,300	26,500
1972.....	2,252	361	630	788	473	26,700	29,800	23,800	26,400	28,400
1973.....	2,334	367	674	847	446	28,900	32,800	25,300	29,000	31,000
1974.....	2,272	354	645	839	434	32,000	35,800	27,700	32,300	34,800
1975.....	2,476	370	701	862	543	35,300	39,300	30,100	34,800	39,600
1976.....	3,064	439	881	1,033	712	38,100	41,800	32,900	36,500	46,100
1977.....	3,850	515	1,101	1,231	803	42,900	44,400	36,700	39,800	57,300
1978.....	3,986	516	1,144	1,416	811	46,700	47,900	42,200	45,100	66,700
1979.....	3,827	526	1,061	1,353	887	55,700	53,600	47,800	51,300	77,400
1980.....	2,973	403	806	1,092	672	62,200	60,800	51,900	58,300	89,300
1981.....	2,419	353	632	917	516	66,400	63,700	54,300	64,400	96,200
1982.....	1,990	354	490	780	366	67,800	63,500	55,100	67,100	98,900
1983.....	2,719	493	709	1,035	481	70,300	72,200	56,600	69,200	94,900
1984.....	2,868	511	755	1,073	529	72,400	78,700	57,100	71,300	95,800
1985.....	3,214	622	866	1,172	554	75,500	88,900	58,900	75,200	95,400
1986.....	3,565	703	991	1,261	610	80,300	104,800	63,500	78,200	100,900
1987.....	3,526	685	959	1,282	600	85,600	133,300	66,000	80,400	113,200
1988.....	3,594	673	929	1,350	642	89,300	143,000	68,400	82,200	124,900

Source: NATIONAL ASSOCIATION OF REALTORS, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

NO. 1267. MEDIAN SALES PRICE OF EXISTING ONE-FAMILY HOMES, BY SELECTED METROPOLITAN AREA: 1985 TO 1989

[In thousands of dollars. Areas are metropolitan statistical areas (MSA's) except as indicated; for definitions and components, see Appendix I]

METROPOLITAN AREA	1985	1987	1988	1989, 2d qtr.	METROPOLITAN AREA	1985	1987	1988	1989, 2d qtr.
U.S., all areas	74.5	85.6	89.3	93.0	Memphis, TN-AR-MS	64.6	75.0	76.3	78.0
Akron, OH PMSA	52.7	57.1	59.9	62.9	Miami-Hialeah, FL PMSA	80.5	81.1	82.9	86.1
Albany-Schenectady-Troy, NY	60.3	86.4	92.2	104.2	Milwaukee, WI PMSA	67.5	70.5	74.5	81.2
Albuquerque, NM	70.8	82.6	80.4	84.5	Minneapolis-St. Paul, MN-WI	75.2	80.5	85.2	87.0
Anaheim-Santa Ana, CA PMSA	130.2	167.3	206.9	247.6	Nashville, TN	66.1	75.5	77.6	79.3
Baltimore, MD	71.6	81.1	86.7	95.1	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	134.0	183.5	183.8	186.3
Baton Rouge, LA	64.5	67.8	64.7	64.7	Oklahoma City, OK	64.7	62.3	56.2	52.3
Birmingham, AL	64.5	71.6	75.7	77.8	Omaha, NE-IA	58.3	59.0	59.5	58.6
Boston, MA PMSA	134.2	177.2	181.2	186.2	Orlando, FL	70.3	76.2	79.1	79.1
Buffalo-Niagara Falls, NY CMSA	46.7	56.7	65.6	71.5	Philadelphia, PA-NJ PMSA	74.0	97.0	102.4	108.8
Chicago, IL PMSA	81.1	90.8	98.9	105.0	Phoenix, AZ	74.7	80.9	80.0	82.2
Cincinnati, OH-KY-IN PMSA	60.2	66.1	69.7	76.6	Portland, OR PMSA	61.5	64.2	64.4	68.8
Cleveland, OH PMSA	64.4	68.1	69.2	76.2	Providence, RI PMSA	67.5	121.4	130.6	130.9
Columbus, OH	62.2	68.7	72.6	76.7	Riverside/San Bernardino, CA PMSA	(NA)	96.1	106.7	122.2
Dallas, TX PMSA	94.0	90.8	90.8	92.4	Rochester, NY	64.2	72.5	75.7	76.8
Denver, CO PMSA	84.3	88.9	81.8	83.3	St. Louis, MO-IL	65.7	74.4	78.1	75.3
Des Moines, IA	52.5	55.6	55.8	57.1	Salt Lake City-Ogden, UT	66.7	69.4	67.7	69.9
Detroit, MI PMSA	51.7	65.6	73.1	73.1	San Antonio, TX	67.7	70.2	65.0	63.0
Ft. Lauderdale-Hollywood-Pompano Beach, FL PMSA	74.6	79.6	81.1	82.8	San Diego, CA	106.4	129.2	147.8	176.6
Ft. Worth, TX PMSA	74.9	80.0	73.3	77.2	San Francisco-Oakland-San Jose, CA CMSA	(NA)	171.3	212.6	265.7
Hartford, CT PMSA	96.6	157.4	167.6	165.1	Seattle/Tacoma, WA CMSA	(NA)	82.6	88.7	109.1
Honolulu, HI	162.1	186.0	215.1	262.5	Syracuse, NY	58.8	68.9	74.6	78.9
Houston, TX PMSA	76.6	85.9	61.8	68.7	Tampa-St. Petersburg-Clearwater, FL	58.4	63.8	65.6	71.8
Indianapolis, IN	55.0	62.5	66.1	70.9	Tulsa, OK	66.7	65.7	65.0	62.6
Jacksonville, FL	58.4	65.1	67.7	67.0	Washington, DC-MD-VA-West Palm Beach-Boca Raton-DeLray Beach, FL	97.1	114.2	132.5	140.5
Kansas City, MO-KS	61.4	69.8	70.5	72.6		88.3	102.6	99.0	96.2
Las Vegas, NV	75.1	77.0	78.8	86.1					
Los Angeles-Long Beach, CA PMSA	118.7	147.7	179.4	218.0					
Louisville, KY-IN	50.6	51.7	54.5	58.4					

NA Not available.

Source: NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

NO. 1268. EXISTING HOME SALES, BY STATE: 1984 TO 1988

[In thousands. For composition of regions, see fig. 1, inside front cover]

REGION, DIVISION, AND STATE	1984	1985	1986	1987	1988	DIVISION AND STATE	1984	1985	1986	1987	1988
U.S.¹	3,098.0	3,493.0	3,397.0	3,887.0	3,951.0	S.A.	564.2	640.3	723.2	727.2	741.5
Region:						DE	10.0	12.3	12.9	14.0	13.3
Northeast	609.4	756.3	348.3	874.4	859.3	MD	66.8	80.9	96.9	78.5	86.2
Midwest	805.6	917.1	1,342.6	1,016.9	1,012.2	DC	7.8	9.9	11.6	10.5	10.8
South	1,127.8	1,236.9	1,123.9	1,353.9	1,364.4	VA	98.1	107.2	130.4	113.0	113.6
West	660.2	703.6	92.0	807.6	872.5	WV	34.6	37.7	39.7	36.6	44.5
N.E.	170.4	206.0	113.6	233.7	227.1	NC	103.2	123.3	139.2	140.6	141.8
ME	23.3	27.1	30.8	35.2	34.2	SC	46.0	52.6	58.0	60.9	63.3
NH	16.9	19.3	20.3	19.2	15.3	GA	60.1	65.1	75.1	89.0	84.9
VT	8.2	9.9	12.4	12.9	13.4	FL	137.6	151.3	169.4	184.2	183.1
MA	66.5	80.5	84.6	100.5	93.3	E.S.C.	221.3	252.1	265.6	269.2	253.7
RI	11.0	13.2	13.5	13.4	13.8	KY	57.3	57.7	58.6	64.1	67.9
CT	44.5	56.0	52.0	52.5	57.1	TN	78.7	99.2	112.0	111.2	102.6
M.A.	439.0	550.3	634.7	640.7	632.2	AL	53.3	59.7	60.8	59.7	52.6
NY	148.9	190.7	216.8	223.9	213.4	MS	32.0	35.5	34.2	34.2	30.6
NJ	119.7	148.8	59.6	157.3	142.3	W.S.C.	342.3	344.5	335.1	357.5	369.2
PA	170.4	210.8	258.3	259.5	276.5	AR	43.4	49.8	52.8	48.2	46.6
E.N.C.	520.7	625.8	708.7	688.9	694.3	LA	50.3	44.1	34.0	40.4	34.5
OH	138.3	162.5	79.9	180.9	181.9	OK	51.9	46.8	49.4	44.6	49.6
IN	64.5	90.1	86.1	99.8	85.1	TX	196.7	203.8	198.9	224.3	238.5
IL	122.5	140.5	79.2	175.3	186.5	Mt.	181.3	195.4	195.7	189.3	187.8
MI	139.4	167.2	86.6	169.6	168.6	MT	12.4	11.1	11.9	11.6	11.9
WI	56.0	65.5	76.9	73.3	72.2	ID	12.3	11.5	11.3	10.9	11.3
W.N.C.	284.9	291.3	333.9	328.0	317.9	WY	6.2	6.5	6.1	6.0	5.8
MN	65.5	73.9	96.8	89.4	82.4	CO	47.1	49.3	47.5	46.7	49.3
IA	41.9	39.5	46.1	48.3	54.0	NM	19.1	19.8	19.5	20.0	18.6
MO	81.0	85.8	88.4	88.4	83.1	AZ	59.8	71.7	73.8	67.3	64.4
ND	10.0	8.9	9.5	11.2	11.2	UT	15.0	15.5	14.6	14.6	14.3
SD	11.8	11.3	13.2	13.0	14.2	NV	9.4	10.0	11.0	12.2	12.2
NE	24.5	24.5	25.5	23.3	22.4	Pac.	478.9	508.2	596.3	618.3	684.7
KS	49.8	47.4	54.4	54.4	50.6	WA	44.9	43.8	50.6	43.6	48.9
						OR	35.7	39.3	45.0	48.5	53.1
						CA*	382.1	407.2	484.6	507.0	562.8
						AK	9.2	10.0	6.1	7.7	9.6
						HI	7.0	7.9	10.0	11.5	10.3

¹ U.S. totals are derived independently and therefore are not equal to the sum of the States. ² Provided by the California Association of Realtors®.

Source: NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

NO. 1269. NEW APARTMENTS COMPLETED AND RENTED IN 3 MONTHS, BY REGION: 1980 TO 1988

[Structures with 5 or more units, privately financed, nonsubsidized, unfurnished apartments. Based on sample and subject to sampling variability. For composition of regions, see fig. 1, inside front cover]

YEAR AND RENT	NUMBER (1,000)					PERCENT RENTED IN 3 MONTHS				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1980	196.1	14.2	43.8	91.5	46.6	75	77	77	74	75
1981	135.3	4.9	36.9	68.4	25.1	80	85	86	78	75
1982	117.0	4.6	21.9	66.8	23.7	72	74	79	70	72
1983	191.5	3.5	41.1	115.1	31.8	69	73	86	63	69
1984	313.2	3.8	41.2	194.4	73.9	67	64	79	63	70
1985	365.2	8.1	54.0	166.1	137.0	65	69	72	59	68
1986	407.6	16.9	64.5	171.7	154.5	66	70	70	62	67
1987	345.6	11.3	66.0	124.5	143.9	63	73	65	59	64
1988	284.5	8.5	60.5	92.5	123.0	66	54	73	58	70
Less than \$350	17.0	.6	6.9	6.7	2.8	83	79	92	74	84
\$350-\$449	49.9	.5	13.0	21.4	15.1	71	4	84	61	76
\$450-\$549	67.6	(z)	15.1	29.7	22.3	66	(2)	71	56	77
\$550 or more	150.0	6.9	25.5	34.6	82.9	63	55	64	56	66

Z Less than 500 units.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-130 and H-131, and unpublished data.

NO. 1270. GROSS HOUSING PRODUCT—SUMMARY: 1970 TO 1988

[In billions of dollars. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS					
	1970	1980	1985	1986	1987	1988	1970	1980	1985	1986	1987	1988
Total value of housing output ¹	90.5	251.2	387.4	417.8	449.7	481.5	207.4	299.9	328.8	335.2	344.9	352.1
Nonfarm housing	87.3	240.1	376.4	408.0	440.6	472.0	189.1	285.6	317.0	323.8	333.8	341.3
Owner-occupied	61.3	176.3	272.7	293.7	317.1	339.3	132.6	212.0	230.8	234.5	241.4	245.7
Tenant-occupied	26.0	61.9	103.8	114.3	123.5	132.7	56.2	73.6	86.3	89.4	92.4	95.6
Farm housing	3.3	11.0	10.9	9.7	9.1	9.5	18.3	14.3	11.7	11.4	11.1	10.8
Less: Intermediate goods and services consumed	12.7	47.2	63.4	66.8	70.4	72.2	29.9	56.4	53.9	53.6	54.0	52.9
Equals: Gross housing product	77.8	204.0	323.9	351.0	379.3	409.3	177.5	243.5	274.9	281.6	290.9	299.2

¹ Equals personal consumption expenditures (see text, section 14) for housing, less expenditures for transient hotels, motels, clubs, schools, and other group housing.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-82*, and *Survey of Current Business*, July issues.

NO. 1271. RESIDENTIAL CAPITAL—STOCKS AND AVERAGE AGE: 1970 TO 1988

[As of Dec. 31. Data based on fixed residential capital formation components of the gross national product. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS (bil. dol.)					CONSTANT (1982) DOLLARS (bil. dol.)					AVERAGE AGE ¹ (years)				
	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988	1970	1980	1985	1987	1988
Gross stocks ²	1,220	4,184	5,510	6,376	6,662	3,319	4,484	5,008	5,313	5,463	25.1	23.7	24.0	23.7	23.7
Private nonfarm:															
1-4 units	983	3,331	4,395	5,100	5,337	2,689	3,572	3,985	4,237	4,385	25.7	24.5	24.8	24.5	24.4
5 or more units	125	508	695	819	854	343	543	631	679	697	18.1	17.6	18.5	18.6	18.8
Farm (1-4 units)	55	134	152	159	159	150	145	137	133	130	43.9	42.8	42.9	43.2	43.5
Private nonhousekeeping	10	24	27	30	30	27	25	25	25	25	14.6	19.3	21.8	22.7	23.1
Mobile homes	14	73	90	94	101	29	77	89	90	89	4.7	7.1	8.2	8.4	8.5
Public: Federal, State and local	25	85	112	128	133	68	91	101	106	108	14.9	19.6	21.7	22.4	22.8
Net stocks ³	791	2,734	3,555	4,131	4,319	2,151	2,929	3,230	3,439	3,539	16.5	16.2	16.8	16.7	16.6
Private nonfarm:															
1-4 units	639	2,187	2,853	3,328	3,488	1,748	2,345	2,587	2,763	2,852	17.2	16.8	17.4	17.2	17.1
5 or more units	88	363	486	571	591	243	387	441	473	483	11.1	12.5	13.6	13.8	14.1
Farm (1-4 units)	24	57	64	66	65	64	62	58	55	53	28.8	26.4	26.4	26.9	27.4
Private nonhousekeeping	6	12	13	13	13	18	13	11	11	11	9.0	16.0	18.3	18.7	18.7
Mobile homes	10	41	48	48	50	21	43	46	45	45	3.3	5.3	5.6	5.7	5.8
Public: Federal, State and local	18	57	72	81	83	51	61	65	67	68	12.7	16.2	17.6	17.9	18.1

¹ Constant-dollar stocks. ² Includes equipment, not shown separately. ³ Based on straight-line depreciation.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-85* and *Survey of Current Business*, August 1987 and August 1989.

NO. 1272. HOUSING UNITS—SUMMARY OF CHARACTERISTICS AND EQUIPMENT, BY TENURE AND REGION: 1987

(In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover)

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS							
			Occupied							Vacant
			Total	Owner	Renter	North-east	Mid-west	South	West	
Total units	102,652	2,837	90,888	58,164	32,724	18,953	22,267	31,270	18,397	8,927
Percent distribution.....	100.0	2.8	88.5	56.7	31.9	20.9	24.5	34.4	20.2	8.7
Units in structure:										
Single family detached.....	61,775	1,741	56,559	48,162	8,397	9,644	15,097	20,694	11,125	3,475
Single family attached.....	5,496	74	4,820	2,456	2,364	1,378	878	1,619	944	602
2-4 units.....	10,987	156	9,472	1,872	7,601	3,265	2,297	2,172	1,739	1,359
5-9 units.....	5,358	63	4,533	325	4,209	988	973	1,469	1,103	761
10-19 units.....	4,766	57	3,948	279	3,669	767	780	1,487	914	761
20-49 units.....	3,625	63	2,936	256	2,680	895	553	629	859	626
50 or more units.....	3,957	79	3,352	544	2,808	1,520	642	617	573	529
Mobile home or trailer.....	6,688	604	5,267	4,270	997	496	1,048	2,583	1,140	817
Stories in structure: ¹										
One story.....	2,643	42	2,241	243	1,999	114	309	1,109	709	360
2 stories.....	8,407	108	6,877	664	6,213	729	909	2,963	2,277	1,422
3 stories.....	7,034	97	6,018	1,185	4,834	2,397	2,046	882	693	919
4-6 stories.....	8,073	132	6,930	818	6,112	2,837	1,679	1,095	1,319	1,012
7 or more stories.....	2,537	40	2,175	367	1,808	1,358	301	325	1,910	321
Foundation:										
Full or partial basement.....	30,711	369	29,049	25,392	3,657	9,526	12,150	4,679	2,695	1,292
Crawl space.....	18,356	666	16,196	12,684	3,512	640	2,268	8,736	4,653	1,494
Concrete slab.....	16,402	403	14,868	11,651	3,217	843	1,347	8,178	4,500	1,130
Other.....	1,802	375	1,265	891	375	114	210	720	221	161
Year structure built: ²										
1939 and earlier.....	24,104	575	21,215	12,110	9,105	7,735	6,793	4,233	2,455	2,314
1940 to 1949.....	9,038	340	7,945	4,997	2,948	1,692	1,816	2,789	1,647	753
1950 to 1959.....	14,249	367	13,056	9,559	3,497	2,730	3,367	4,162	2,797	825
1960 to 1969.....	16,768	473	15,136	10,110	5,025	2,594	3,475	5,641	3,425	1,160
1970 to 1979.....	24,825	749	21,829	13,777	8,054	2,868	4,894	8,764	5,304	2,246
1980 or later.....	13,668	334	11,706	7,611	4,095	1,335	1,922	5,681	2,768	1,627
Median year.....	1962	1963	1962	1962	1962	1950	1958	1968	1967	1965
Main heating equipment:										
Warm-air furnace.....	54,929	818	49,854	35,049	14,805	6,770	16,059	17,341	9,684	4,258
Electric heat pump.....	4,361	118	3,688	2,809	878	222	339	2,621	506	556
Steam or hot water system.....	15,102	100	13,855	7,190	6,665	9,456	2,785	915	699	1,147
Floor, wall, or pipeless furnace.....	6,059	103	5,450	2,583	2,867	207	424	1,701	3,118	506
Built-in electric units.....	7,255	329	6,092	2,873	3,220	1,352	1,280	1,724	1,736	833
Room heaters with flue.....	3,331	276	2,629	1,403	1,226	217	475	1,505	432	426
Room heaters without flue.....	2,741	36	2,346	1,313	1,033	30	51	2,167	98	359
Stoves.....	4,501	427	3,762	2,895	867	546	626	1,690	900	312
Fireplaces.....	1,377	145	1,150	971	178	47	102	512	489	83
None.....	1,297	389	659	282	377	14	21	202	422	249
Portable elec. heaters.....	820	71	671	320	351	8	26	442	194	79
Other.....	879	27	732	476	256	85	78	449	120	120
Air conditioning:										
Central.....	36,752	529	33,006	23,378	9,628	2,526	7,929	17,464	5,067	3,217
Percent of total units.....	35.8	18.6	36.3	40.2	29.4	13.3	35.6	55.9	27.5	36.0
One or more room units.....	28,220	369	26,547	16,885	9,660	7,551	6,988	9,058	2,948	1,305
Source of water:										
Public system or private company.....	86,852	1,376	77,944	47,446	30,498	16,097	18,361	26,347	17,139	7,631
Percent of total units.....	84.7	48.5	85.8	81.8	93.2	84.9	82.5	84.3	93.2	85.5
Well serving 1 to 5 units.....	14,232	941	12,183	10,145	2,038	2,696	3,759	4,558	1,170	1,109
Other.....	1,468	520	761	573	188	160	148	365	88	187
Means of sewage disposal:										
Public sewer.....	77,130	975	69,345	40,150	29,195	14,672	17,431	21,770	15,472	6,811
Percent of total units.....	75.1	34.4	76.3	69.0	89.2	77.4	78.3	69.6	84.1	76.3
Septic tank, cesspool, chemical toilet.....	24,769	1,537	21,281	17,866	3,395	4,255	4,817	9,302	2,908	1,951
Other.....	752	325	262	128	134	26	20	198	18	165

¹ Limited to multiunit structures in 1987.

² For mobile home, oldest category is 1939 or earlier.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

NO. 1273. HOUSING UNITS—SIZE OF UNITS AND LOT: 1987

(In thousands, except as indicated. Based on the American Housing Survey; see Appendix III)

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS							Vacant
			Occupied							
			Total	Owner	Renter	North-east	Mid-west	South	West	
Total units	102,652	2,837	90,888	58,164	32,724	18,953	22,267	31,270	18,397	8,927
Rooms:										
1 room.....	1,017	119	681	29	652	248	140	110	183	218
2 rooms.....	1,685	194	1,160	73	1,087	341	219	248	353	331
3 rooms.....	10,694	484	8,620	963	7,657	2,343	1,798	2,459	2,020	1,590
4 rooms.....	21,707	983	17,745	6,800	10,945	3,317	4,062	6,393	3,973	2,979
5 rooms.....	23,393	588	20,940	14,264	6,676	3,665	5,327	7,972	3,976	1,865
6 rooms.....	19,717	271	18,374	15,017	3,358	3,326	4,691	6,569	3,289	1,072
7 rooms.....	12,425	93	11,856	10,402	1,454	2,584	3,029	3,983	2,259	476
8 rooms or more.....	12,013	107	11,512	10,616	896	2,630	3,002	3,535	2,346	395
Median number of rooms.....	5.2	4.1	5.3	6.0	4.1	5.4	5.4	5.3	5.2	4.3
Complete bathrooms:										
No bathrooms.....	1,665	506	768	213	555	214	159	289	106	391
1 bathroom.....	54,110	1,603	46,919	22,398	24,521	11,331	12,505	14,655	8,428	5,588
1 and one-half bathrooms.....	16,955	264	15,725	12,330	3,395	3,709	4,909	4,443	2,665	966
2 or more bathrooms.....	29,922	465	27,476	23,223	4,253	3,699	4,695	11,884	7,198	1,981
Square footage of unit:										
Single detached and mobile homes ¹	68,423	2,343	61,790	52,421	9,369	10,129	16,141	23,277	12,243	4,290
Less than 500.....	1,392	360	770	386	384	74	131	347	218	263
500 to 749.....	3,642	434	2,909	1,874	1,035	296	663	1,431	519	499
750 to 999.....	7,149	362	6,110	4,579	1,532	605	1,461	2,854	1,190	677
1,000 to 1,499.....	16,321	311	15,116	12,128	2,987	1,475	3,326	6,845	3,470	894
1,500 to 1,999.....	13,450	149	12,718	11,305	1,412	1,869	3,068	4,773	3,008	583
2,000 to 2,499.....	9,191	56	8,823	8,080	743	1,872	2,761	2,569	1,621	312
2,500 to 2,999.....	4,914	45	4,688	4,364	324	1,187	1,521	1,259	722	181
3,000 to 3,999.....	4,263	37	4,101	3,854	246	1,070	1,375	1,079	577	125
4,000 or more.....	2,465	28	2,352	2,143	208	678	671	700	302	85
Other ²	5,435	561	4,203	3,108	1,095	1,002	1,165	1,419	617	671
Median square footage.....	1,604	817	1,653	1,725	1,248	2,065	1,811	1,460	1,569	1,207
Lot size:										
Single detached and attached units and mobile homes ^{1,3}	69,392	176	66,610	54,877	11,732	11,508	17,020	24,896	13,187	2,608
Less than one-eighth acre.....	7,198	47	6,810	5,665	1,144	1,629	1,684	1,865	1,631	342
One-eighth to one-quarter acre.....	13,087	22	12,599	11,413	1,186	1,985	3,407	4,153	3,074	466
One-quarter to one-half acre.....	9,405	20	9,101	8,263	838	1,772	2,301	3,463	1,566	284
One-half up to one acre.....	6,316	19	6,168	5,553	615	1,446	1,276	2,656	790	129
1 to 4 acres.....	9,577	23	9,316	8,268	1,050	1,945	1,994	4,271	1,107	238
5 to 9 acres.....	1,806	4	1,567	1,427	140	221	388	731	227	36
10 acres or more.....	.39	9	3,782	3,203	579	479	1,250	1,605	449	120
Median acreage.....	.39	.28	.39	.40	.38	.41	.37	.49	.24	.25

¹ Does not include selected vacant units. ² Represents units not reported or size unknown. ³ Includes units not reported or for which data are not known, not shown separately.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

NO. 1274. OCCUPIED HOUSING UNITS—TENURE, BY RACE OF HOUSEHOLDER: 1920 TO 1987

(In thousands, except as indicated. As of April 1, except 1985 and 1987, as of fall. Prior to 1960, excludes Alaska and Hawaii. Statistics on the number of occupied units are essentially comparable although identified by various terms—the term "family" applies to figures for 1920 and 1930; "occupied dwelling unit," 1940 and 1950; and "occupied housing unit," 1960 to 1985. For 1920, includes the small number of quasifamilies; for 1930, represents private families only. See also *Historical Statistics, Colonial Times to 1970*, series N 238-245)

RACE OF HOUSEHOLDER AND TENURE	1920	1930	1940	1950	1960	1970	1980	1985	1987
ALL RACES									
Occupied units, total.....	24,352	29,905	34,855	42,826	53,024	63,445	80,390	88,425	90,888
Owner occupied.....	11,114	14,280	15,196	23,560	32,797	39,886	51,795	56,145	58,164
Percent of occupied.....	45.6	47.8	43.6	55.0	61.9	62.9	64.4	63.5	64.0
Renter occupied.....	13,238	15,624	19,659	19,266	20,227	23,560	28,595	32,280	32,724
WHITE									
Occupied units, total.....	21,826	26,983	31,561	39,044	47,880	56,606	68,810	76,266	78,179
Owner occupied.....	10,511	13,544	14,418	22,241	30,823	37,005	46,871	50,936	52,661
Percent of occupied.....	48.2	50.2	45.7	57.0	64.4	65.4	67.9	66.8	67.4
Renter occupied.....	11,315	13,439	17,143	16,803	17,057	19,601	22,139	25,328	25,518
BLACK AND OTHER									
Occupied units, total.....	2,526	2,922	3,293	3,783	5,144	6,839	11,580	12,160	12,709
Owner occupied.....	803	737	778	1,319	1,974	2,881	5,124	5,208	5,504
Percent of occupied.....	23.9	25.2	23.6	34.9	38.4	42.1	44.2	42.8	43.3
Renter occupied.....	1,923	2,185	2,516	2,464	3,170	3,959	6,456	6,952	7,206

Source: U.S. Bureau of the Census, *Census of Housing: 1960*, vol. 1; *1970*, vol. 1; *1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *Current Housing Reports*, series H-150, American Housing Survey.

NO. 1275. OCCUPIED HOUSING UNITS—TENURE, BY SELECTED CHARACTERISTICS OF THE UNIT AND HOUSEHOLDER: 1987

[In thousands of units, except as indicated. Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN ¹		ELDERLY ²		RECENT MOVERS ³	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
Total units.....	90,888	58,164	32,724	4,458	5,794	2,259	3,328	14,790	4,954	4,947	12,275
Units in structure:											
Single family detached.....	56,559	48,162	8,397	3,591	1,273	1,885	742	11,967	1,045	3,632	2,793
Single family attached.....	4,820	2,456	2,364	381	522	98	228	620	324	317	973
2-4 units.....	9,472	1,872	7,601	175	1,450	101	771	617	969	159	2,911
5-9 units.....	4,533	325	4,209	13	835	20	478	94	532	63	1,785
10-19 units.....	3,948	279	3,669	20	616	5	372	106	437	55	1,748
20-49 units.....	2,936	256	2,680	9	463	2	397	125	454	39	1,039
50 or more units.....	3,352	544	2,808	54	579	18	284	221	1,081	74	611
Mobile home or trailer.....	5,267	4,270	997	215	55	130	55	1,040	111	608	415
Stories in structure: ⁴											
One story.....	2,241	243	1,999	16	425	21	291	122	370	24	831
2 stories.....	6,877	664	6,213	59	1,176	28	675	244	710	84	2,979
3 stories.....	6,018	1,185	4,834	94	704	35	314	420	710	119	1,917
4-6 stories.....	6,930	818	6,112	48	1,221	51	808	254	997	127	2,086
7 or more stories.....	2,175	367	1,808	55	417	11	213	123	686	35	281
Year structure built: ⁵											
1939 or earlier.....	21,215	12,110	9,105	1,158	1,859	331	999	4,486	1,387	626	2,759
1940 to 1949.....	7,945	4,997	2,948	626	663	278	448	1,851	445	267	945
1950 to 1959.....	13,056	9,559	3,497	688	660	438	455	3,048	512	476	1,157
1960 to 1969.....	15,136	10,110	5,025	746	898	351	454	2,389	839	619	1,706
1970 to 1979.....	21,829	13,777	8,054	855	1,242	579	665	2,272	1,286	1,202	3,274
1980 or later.....	11,706	7,611	4,095	374	471	302	307	745	484	1,757	2,435
Median year.....	1,962	1,962	1,962	1,956	1,956	1,963	1,955	1,953	1,962	1,975	1,967
Percent of total occupied units—											
With public water system or private company.....	85.8	81.6	93.2	88.6	97.0	94.3	97.2	83.2	93.4	84.0	94.9
With public sewer.....	76.3	69.0	89.2	80.1	95.4	84.6	94.2	71.7	89.9	72.5	91.5
With air conditioning.....	36.3	40.2	29.4	29.0	25.4	35.1	21.7	35.6	25.0	50.4	37.8

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ Recent movers are householders that moved during the 12 months prior to interview. ⁴ Limited to multiunit structure in 1987. ⁵ For mobile home, oldest category in 1939 or earlier.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

NO. 1276. OCCUPIED HOUSING UNITS—HOUSING VALUE AND GROSS RENT: 1987

[In thousands of units, except as indicated. Specified owner-occupied units are limited to one-unit structures on less than 10 acres and no business on property. Specified renter-occupied units exclude one-units on 10 acres or more. Based on the American Housing Survey; see Appendix III]

VALUE CATEGORY	OWNER OCCUPIED UNITS				RENT CATEGORY	RENTER OCCUPIED UNITS			
	Total units	Black	Hispanic ¹	Elderly ²		Total units	Black	Hispanic ¹	Elderly ²
Specified owner occupied.....	46,349	3,819	1,906	11,294	Specified renter occupied.....	32,215	5,758	3,311	4,852
Less than \$20,000.....	1,988	401	133	796	Less than \$200.....	3,518	1,107	383	1,231
\$20,000-\$29,999.....	2,291	348	95	864	\$200-\$249.....	2,184	547	204	472
\$30,000-\$39,999.....	3,724	575	137	1,156	\$250-\$299.....	2,824	534	304	449
\$40,000-\$49,999.....	4,824	584	196	1,380	\$300-\$349.....	3,268	622	353	391
\$50,000-\$59,999.....	4,359	487	160	1,115	\$350-\$399.....	3,452	632	363	412
\$60,000-\$69,999.....	5,005	388	168	1,213	\$400-\$449.....	3,192	569	342	330
\$70,000-\$79,999.....	4,057	306	183	945	\$450-\$499.....	2,761	422	328	282
\$80,000-\$99,999.....	5,773	288	238	1,092	\$500-\$599.....	4,008	618	433	403
\$100,000-\$119,999.....	3,068	133	155	623	\$600-\$699.....	2,213	206	223	202
\$120,000-\$149,999.....	3,504	124	185	605	\$700-\$799.....	1,200	101	103	107
\$150,000-\$199,999.....	3,648	129	137	709	\$800-\$999.....	1,144	98	68	98
\$200,000-\$299,999.....	2,640	39	73	549	\$1,000 and over.....	652	56	74	43
\$300,000 and over.....	1,466	16	46	250	No cash rent.....	1,799	245	132	433
Median value (dol.).....	72,400	50,300	73,500	62,800	Median amount (dol.).....	399	346	398	307

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

No. 1277. OCCUPIED HOUSING UNITS—FINANCIAL SUMMARY, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER AND TENURE: 1987

[In thousands of units, except as indicated. Housing costs include real estate taxes, property insurance, utilities, fuel, water, garbage collection, and mortgage. Based on the American Housing Survey; see Appendix III]

ITEM	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN ¹		ELDERLY ²	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
Total units ³	90,888	58,164	32,724	4,458	5,794	2,259	3,328	14,790	4,954
Monthly housing costs:									
Less than \$300.....	30,375	21,738	8,636	1,852	2,195	779	891	10,419	2,175
\$300-\$399.....	13,114	6,351	6,763	520	1,260	209	716	1623	806
\$400-\$499.....	11,063	5,075	5,988	399	991	207	673	930	614
\$500-\$599.....	8,436	4,413	4,023	324	623	177	433	399	403
\$600-\$699.....	5,683	3,460	2,223	207	206	131	223	277	202
\$700-\$799.....	4,001	2,793	1,208	218	101	136	103	160	109
\$800-\$999.....	4,957	3,808	1,149	240	98	175	68	219	98
\$1,000 or more.....	6,176	5,508	670	229	56	233	74	282	43
Median amount (dol.).....	388	375	399	324	346	416	398	213	306
Monthly housing costs as percent of income: ⁴									
Less than 5 percent.....	2,530	2,336	195	138	34	102	20	506	16
5-9 percent.....	10,027	9,099	928	554	138	307	89	2,262	59
10-14 percent.....	12,433	9,799	2,634	602	399	291	202	2,739	176
15-19 percent.....	12,497	8,605	3,891	572	611	334	326	2,174	272
20-24 percent.....	11,098	6,991	4,107	540	666	254	443	1,642	395
25-29 percent.....	8,665	4,787	3,878	339	683	167	385	1,243	696
30-34 percent.....	6,124	3,167	2,958	275	495	163	309	834	545
35-39 percent.....	4,045	2,065	1,979	220	335	114	250	642	380
40 percent or more.....	15,749	6,019	9,729	712	2,079	313	1,131	2,096	1,947
Median amount (percent).....	22	18	29	21	32	20	32	19	36
Median monthly costs (dol.):									
Electricity.....	60	66	45	68	47	59	40	55	38
Piped gas.....	45	51	32	59	38	36	25	49	30
Fuel oil.....	57	60	45	63	45	70	42	63	48

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ Includes units with mortgage payment not reported and no cash rent not shown separately. ⁴ Money income before taxes. ⁵ Less than \$25.

No. 1278. OWNER OCCUPIED HOUSING UNITS—MORTGAGE CHARACTERISTICS, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER: 1987

[Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	NUMBER (1,000)					PERCENT OF TOTAL OWNER OCCUPIED UNITS				
	Total owner occupied units	Household characteristics				Total owner occupied units	Household characteristics			
		Black	Hispanic ¹	Elderly ²	Below poverty level ³		Black	Hispanic ¹	Elderly ²	Below poverty level ³
Total units	58,164	4,457	2,259	14,797	4,608	100.0	100.0	100.0	100.0	100.0
Mortgages currently on property:										
None, owned free and clear.....	25,097	1,864	775	12,282	3,139	43.1	41.8	34.3	83.0	68.1
Mortgaged.....	33,067	2,593	1,484	2,509	1,469	56.9	58.2	65.7	17.0	31.9
Two mortgages or more.....	3,419	289	168	106	105	5.9	6.5	7.4	.7	2.3
Units with mortgages	33,067	2,593	1,484	2,509	1,469	100.0	100.0	100.0	100.0	100.0
Type of primary mortgage:										
FHA.....	5,098	772	301	271	234	15.4	29.8	20.3	10.8	15.9
VA.....	2,926	335	130	182	81	8.8	12.9	8.8	7.3	5.5
Farmers Home Administration.....	467	87	24	43	81	1.4	3.4	1.6	1.7	5.5
Other types.....	22,828	1,157	917	1,732	901	69.0	44.6	61.8	69.0	61.3
Not reported ⁴	1,747	242	112	280	171	5.3	9.3	7.5	11.2	11.6
Payment plan of primary mortgage:										
Fixed payment, self amortizing.....	25,599	1,983	1,152	1,801	996	77.4	76.5	77.6	71.8	67.8
Adjustable rate mortgage.....	2,791	98	106	105	58	8.4	3.8	7.1	4.2	3.9
Graduated payment mortgage.....	362	38	21	5	14	1.1	1.5	1.4	.2	1.0
Other ⁴	4,315	474	205	598	400	13.0	16.3	13.8	23.6	27.2
Term of primary mortgage:										
Less than 18 years.....	4,884	274	187	306	361	14.7	10.6	12.6	12.2	24.6
19-25 years.....	3,187	211	137	278	111	9.8	8.1	9.2	11.0	7.6
23-27 years.....	3,135	159	77	217	89	9.5	6.1	5.2	8.6	6.1
28 years or more.....	14,436	1,332	772	870	488	43.7	51.4	52.0	34.7	33.2
Other (incl. variable) ⁴	7,466	618	311	839	420	22.6	23.8	21.0	33.4	28.6
Current interest rate:										
Less than 6 percent.....	1,349	75	47	222	66	4.1	2.9	3.2	6.8	4.5
6.0-7.9 percent.....	2,657	149	87	294	69	8.0	5.7	5.9	11.7	4.7
8.0-9.9 percent.....	7,609	448	330	394	185	23.0	17.3	22.2	15.7	12.6
10.0-11.9 percent.....	4,714	276	219	176	173	14.3	10.6	14.8	7.0	11.8
12.0-13.9 percent.....	1,452	123	93	62	54	4.4	4.7	6.3	2.5	3.7
14.0 percent or more.....	493	47	18	30	36	1.5	1.8	1.2	1.2	2.5
Other ⁴	14,792	1,474	689	1,330	885	44.7	56.8	46.4	53.0	60.2
Median rate (percent).....	8.8	9.0	9.1	7.9	9.2	(x)	(x)	(x)	(x)	(x)

X Not applicable. ¹ Hispanic persons may be of any race. ² Householders 65 years old and over. ³ Household poverty derived by applying to households the Social Security Administration's poverty index for persons. ⁴ Includes units that did not know or did not report.

Source of tables 1277 and 1278: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

NO. 1279. HEATING EQUIPMENT AND FUELS FOR OCCUPIED UNITS: 1950 TO 1987

[See also table 1272 for more data on heating equipment]

ITEM	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1950	1960	1970	1980	1987	1950	1960	1970	1980	1987
Occupied units, total	42,826	53,024	63,445	80,390	90,888	100.0	100.0	100.0	100.0	100.0
Heating equipment:										
Warm air furnace.....				39,279	49,854				48.9	54.9
Heat pumps.....	1,508	17,378	27,515	2,835	3,688	26.9	32.8	43.4	3.5	4.1
Steam or hot water.....	10,071	11,990	13,211	13,859	13,855	23.5	22.6	20.8	17.2	15.2
Floor, wall, or pipeless furnace.....	(1)	6,088	5,552	4,693	5,450	(1)	11.5	8.8	5.8	6.0
Built-in electric units.....		664	3,236	6,370	6,062		1.3	5.1	7.8	6.7
Room heaters with flue.....	15,399	11,183	7,209	6,098	2,629	36.0	21.1	11.4	7.6	2.9
Room heaters without flue.....	5,268	5,218	3,558	2,736	2,346	12.3	9.8	5.6	3.4	2.6
Fireplaces, stoves, portable heaters or other.....	(2)	(2)	2,766	3,977	6,315	(2)	(2)	4.4	4.9	6.9
None.....	581	503	398	541	659	1.4	.9	.8	.7	.7
House heating fuel:										
Utility gas.....	11,387	22,851	35,014	42,658	45,959	26.6	43.1	55.2	53.1	50.6
Fuel oil, kerosene, etc.....	1,686	17,156	16,473	14,655	13,813	22.6	32.4	26.0	18.2	15.2
Electricity.....	283	932	4,876	14,768	20,608	7	1.8	7.7	18.3	22.7
Bottled, tank, or LP gas.....	787	2,686	3,807	4,535	2,659	1.8	5.1	6.0	6.6	4.0
Wood and other fuel.....	4,855	2,460	1,060	2,729	5,782	11.3	4.6	1.7	3.4	6.4
Coal or coke.....	14,828	6,456	1,821	504	407	34.6	12.2	2.9	.6	.4
None.....	999	478	395	541	(NA)	2.3	.9	.6	.7	(NA)
Cooking fuel:										
Electricity.....	6,403	16,351	25,768	41,906	51,629	15.0	30.8	40.6	52.1	56.8
Gas ³	25,501	33,787	36,558	37,944	38,540	59.6	63.7	57.6	47.2	42.4
Other fuel.....	17,796	2,603	908	398	330	25.2	4.9	1.4	.5	.4
None.....	124	280	213	142	(NA)	3	.5	.3	.2	(NA)

- Represents zero. NA Not available. ¹ "Floor, wall, or pipeless furnace" included in "Warm air furnace."
² "Fireplaces, stoves, or portable heaters" included in "Room heaters with flue."
³ Includes utility, bottled, tank, and LP gas.
 Source: U.S. Bureau of the Census, *Census of Housing, 1960*, vol. 1, and *1980*, vol. 1; *Current Housing Reports*, series H-150-87, American Housing Survey.

NO. 1280. APPLIANCES USED BY HOUSEHOLDS, BY REGION AND FAMILY INCOME: 1987

[In millions, except percent. As of November. Represents appliances possessed and generally used by the household. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. 1, inside front cover]

TYPE OF APPLIANCE	HC USEHOLDS USING APPLIANCE		REGION				FAMILY INCOME IN 1987			
	Number	Percent of total	North-east	Mid-west	South	West	Under \$15,000	\$15,000-\$24,999	\$25,000-\$34,999	\$35,000 and over
Total households	90.5	100.0	19.0	22.3	30.9	18.3	30.3	17.8	16.2	26.3
Air conditioners: Room.....	25.9	29.8	7.4	7.9	9.2	2.4	10.1	6.0	4.6	6.2
Central system ¹	30.7	33.9	3.0	7.2	16.2	4.3	5.9	5.2	6.4	13.2
Clothes washer.....	67.8	74.9	13.8	17.1	23.8	13.1	18.4	13.0	12.7	23.7
Clothes dryer.....	59.6	65.8	11.3	16.2	20.1	12.0	13.5	11.5	11.7	23.0
Dehumidifier.....	9.0	10.0	2.9	4.7	1.3	.1	1.4	1.5	2.2	4.0
Dishwasher.....	33.0	43.1	7.4	7.6	14.0	10.0	5.1	6.5	8.4	19.1
Evaporative cooler ²	3.0	3.4	-	.1	.6	2.3	1.3	.6	.5	.7
Freezer.....	30.8	34.0	4.8	9.2	11.3	5.4	8.8	5.2	5.8	10.9
Humidifier.....	13.2	14.6	2.8	7.2	2.3	1.0	2.7	2.6	2.6	5.3
Microwave oven ³	55.0	60.8	9.8	14.9	18.7	11.7	12.1	10.8	10.9	21.2
Motor vehicles: ⁴ One.....	30.8	34.0	6.3	7.5	11.2	5.7	15.0	7.4	4.7	3.7
Two or more.....	43.6	53.7	8.9	12.3	16.4	11.0	6.6	9.0	10.8	22.2
Outdoor gas grill.....	13.3	20.2	4.6	5.4	5.2	3.2	2.1	3.0	3.6	9.6
Outdoor gas light.....	1.3	1.4	.1	.4	.6	.1	.2	.3	.2	.5
Oven: Electric.....	51.2	56.6	9.3	11.5	20.1	10.4	13.9	10.2	10.2	17.0
Gas.....	37.1	40.9	9.4	10.3	9.9	7.4	15.3	6.9	5.9	9.0
Portable electric heater.....	3.0	10.0	1.2	2.1	3.5	2.3	3.8	1.9	1.4	2.0
Portable kerosene heater.....	5.3	5.8	1.0	1.3	2.8	.2	1.8	1.0	1.1	1.4
Range: Electric.....	51.4	56.8	9.0	11.6	20.4	10.3	14.1	10.3	10.1	16.9
Gas.....	30.7	42.7	9.8	10.7	10.2	8.0	15.9	7.4	6.0	9.4
Refrigerator: Frost-free.....	61.9	67.3	11.0	14.5	22.9	12.5	15.8	11.9	11.6	21.6
Non frost-free ⁵	23.4	32.5	8.0	7.6	7.9	5.9	14.3	5.9	4.6	4.7
Television set: Color.....	83.9	92.7	17.9	20.7	28.4	17.0	25.7	16.6	15.7	25.9
Black and white.....	32.4	35.8	7.1	8.8	10.8	5.6	11.0	5.7	5.7	10.0
Water heater: ⁶ Gas.....	42.1	46.5	7.0	13.1	11.7	10.3	13.1	7.5	7.4	14.1
Electric.....	30.5	33.7	4.0	5.6	16.1	4.8	10.0	6.6	5.8	8.2
Other fuel.....	3.6	4.0	2.9	.1	.2	.4	.5	.6	.6	1.8
Whole house cooling fan.....	3.6	9.5	1.5	2.4	3.6	1.1	1.7	1.3	1.6	3.9
Window or ceiling fan.....	41.8	46.2	7.8	10.3	17.9	5.8	12.0	8.3	8.0	13.5

- Represents zero. ¹ Includes the .9 million households with both Central air conditioning and window or wall air conditioning units. ² An air-cooling unit used in dry climates that turns air into moist, cool air by saturating the air with water vapor. ³ Microwave is first or second most used oven. ⁴ All motorized vehicles used by U.S. households for personal transportation excluding motorcycles, mopeds, large trucks, and buses. ⁵ Includes refrigerators without freezer compartments. ⁶ Excludes water heaters that serve more than one household.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristics, 1987*, May 1989.

NO. 1281. OCCUPIED HOUSING UNITS—HOUSING INDICATORS, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER AND TENURE: 1987

[In thousands of units. Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	Total occupied units	TENURE		BLACK		HISPANIC ORIGIN ¹		ELDERLY ²		RECENT MOVERS ³	
		Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter	Owner	Renter
Total units	90,888	58,164	32,724	4,458	5,794	2,259	3,328	14,790	4,954	4,947	12,275
Amenities:											
Porch, deck, balcony or patio.....	68,160	48,325	19,834	3,420	3,253	1,718	1,648	12,035	2,563	4,053	7,830
Usable fireplace.....	27,024	23,121	3,903	983	406	654	268	4,430	275	2,234	1,739
Separate dining room.....	35,416	27,515	7,901	2,111	1,331	941	660	6,502	996	2,248	2,885
With 2 or more living rooms or recreation rooms.....	27,849	24,937	2,913	1,547	321	683	154	4,893	378	2,052	1,060
Garage or carport with home.....	51,293	41,747	9,546	2,328	894	1,542	936	10,696	1,102	3,456	3,673
Cars available:											
None.....	13,735	5,003	8,732	698	2,482	244	1,166	2,663	2,544	338	2,523
1 car.....	42,902	26,373	16,528	2,030	2,515	966	1,474	8,596	2,135	2,177	6,509
2 cars.....	26,423	20,102	6,321	1,280	690	822	582	3,054	298	1,998	2,806
3 or more cars.....	7,928	6,686	1,142	449	107	228	105	477	35	435	437
Trucks or vans available:											
None.....	63,509	36,671	26,839	3,401	5,373	1,328	2,796	11,620	4,707	3,125	9,774
1.....	23,285	18,033	5,252	937	394	796	483	2,809	310	1,562	2,269
2 or more.....	4,093	3,461	632	119	27	134	48	361	37	260	232
Internal deficiencies:											
Holes in floors.....	1,223	441	782	120	299	29	159	81	78	46	243
Open cracks or holes.....	5,189	2,037	3,152	343	941	161	442	520	296	164	938
Broken plaster or peeling paint (interior of unit).....	4,227	1,749	2,478	280	777	143	348	425	296	123	636
No electrical wiring.....	20	13	7	-	2	-	-	3	-	-	-
Exposed wiring.....	1,875	882	993	138	266	55	138	313	140	82	361
Rooms without outlet.....	2,229	1,089	1,139	170	318	51	140	404	168	122	353
Water leakage ⁴	26,950	16,648	10,302	1,493	2,150	560	1,029	3,410	1,146	1,526	3,266

- Represents zero. ¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ Recent movers are householders that moved during the 12 months prior to interview. ⁴ During the 12 months prior to the survey.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

NO. 1282. OWNER OCCUPIED HOUSING UNITS—HOME IMPROVEMENTS AND REPAIRS, BY SELECTED CHARACTERISTICS OF THE HOUSEHOLDER: 1987

[Covers only units performing repairs, improvements, or alterations in the 2 years prior to the survey. Based on the American Housing Survey; see Appendix III]

CHARACTERISTIC	NUMBER (1,000)					PERCENT OF TOTAL OWNER OCCUPIED UNITS				
	Total owner occupied units	Household characteristics				Total occupied units	Household characteristics			
		Black	Hispanic ¹	Elderly ²	Below poverty level ³		Black	Hispanic ¹	Elderly ²	Below poverty level ³
Total units	58,164	4,458	2,259	14,790	4,808	100.0	100.0	100.0	100.0	100.0
Roof replaced.....										
Work mostly done by others.....	9,021	800	365	2,650	783	15.5	17.9	16.2	17.9	17.0
Costing more than \$500.....	6,469	587	216	2,183	565	11.1	13.2	9.6	14.8	12.3
Work mostly done by others.....	5,833	446	227	1,733	395	10.0	10.0	10.0	11.7	8.6
Costing more than \$500.....	3,043	193	124	362	175	5.2	4.3	5.5	2.4	3.8
Additions built.....										
Work mostly done by others.....	1,397	103	75	238	78	2.4	2.3	3.3	1.6	1.7
Costing more than \$500.....	2,332	136	101	280	104	4.0	3.1	4.5	1.9	2.3
Kitchen remodeled or added.....										
Work mostly done by others.....	4,532	333	200	578	242	7.8	7.5	8.9	3.9	5.3
Costing more than \$500.....	2,022	219	93	411	114	3.5	4.9	4.1	2.8	2.5
Bathroom remodeled or added.....										
Work mostly done by others.....	2,957	173	129	372	95	5.1	3.9	5.7	2.5	2.1
Costing more than \$500.....	5,346	374	248	687	298	9.2	8.4	11.0	4.6	6.5
Siding replaced or added.....										
Work mostly done by others.....	2,088	231	103	455	142	3.6	5.2	4.6	3.1	3.1
Costing more than \$500.....	2,733	162	116	299	91	4.7	3.6	5.1	2.0	2.0
Storm doors/windows installed.....										
Work mostly done by others.....	3,222	198	95	630	175	5.5	4.4	4.2	4.3	3.8
Costing more than \$500.....	1,945	144	64	490	110	3.3	3.2	2.8	3.3	2.4
Major equipment replaced or added.....										
Work mostly done by others.....	1,850	108	55	407	75	3.2	2.4	2.4	2.8	1.6
Costing more than \$500.....	8,366	731	222	1,368	484	14.4	16.4	9.8	9.2	10.5
Insulation added.....										
Work mostly done by others.....	4,316	474	102	995	283	7.4	10.6	4.5	6.7	6.1
Costing more than \$500.....	3,001	263	98	525	116	5.2	5.9	4.3	3.5	2.5
Other improvements.....										
Work mostly done by others.....	5,468	307	188	1,127	275	9.4	6.9	8.3	7.6	6.0
Costing more than \$500.....	4,164	251	125	946	211	7.2	5.6	5.5	6.4	4.8
Other repairs.....										
Work mostly done by others.....	4,065	228	127	853	162	7.0	5.1	5.6	5.8	3.5
Costing more than \$500.....	5,135	307	203	708	308	8.8	6.9	9.0	4.8	6.7
Costing more than \$500.....	2,199	175	139	481	175	3.8	3.9	6.2	3.3	3.8
Costing more than \$500.....	1,110	61	52	158	48	1.9	1.4	2.3	1.1	1.0

¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ Household poverty derived by applying to households the Social Security Administration's poverty index for persons.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

NO. 1283. EXPENDITURES BY RESIDENTIAL PROPERTY OWNERS FOR IMPROVEMENTS AND MAINTENANCE AND REPAIRS, BY TYPE OF PROPERTY AND ACTIVITY: 1970 TO 1988

(In millions of dollars)

YEAR AND TYPE OF EXPENDITURE	Total	1-unit properties with owner occupant	Other properties	ADDITIONS AND ALTERATIONS				Major replacements	Maintenance and repairs
				Total	To structures		To property outside of structures		
					Additions	Alterations			
1970	14,770	9,469	5,301	6,246	1,411	3,539	1,296	2,629	5,895
1975	25,239	15,684	9,556	10,987	1,971	6,844	2,182	4,484	9,758
1976	29,034	18,854	10,180	12,314	3,493	6,367	2,454	5,341	11,379
1977	31,280	21,761	9,519	14,237	2,655	8,505	3,077	5,699	11,344
1978	37,461	24,189	13,272	16,458	3,713	8,443	4,302	8,094	12,909
1979	42,231	28,280	13,951	18,285	3,280	9,642	5,363	8,996	14,950
1980	46,338	31,481	14,857	21,336	4,183	11,193	5,960	9,816	15,187
1981	46,351	30,201	16,150	20,414	3,164	11,947	5,303	9,915	16,022
1982	45,291	29,779	15,512	18,774	2,641	10,711	5,423	9,707	16,810
1983	48,295	32,524	16,771	20,271	4,739	11,673	3,859	10,895	18,128
1984	69,784	43,781	26,003	27,822	6,007	14,486	7,329	13,067	28,894
1985	60,267	47,742	32,525	28,775	3,966	17,599	7,211	16,134	35,358
1986, total¹	91,274	54,298	36,976	38,608	7,377	21,192	10,040	16,695	35,971
Heating and air-conditioning ²	6,232	3,993	2,239	974	(NA)	974	(NA)	3,399	1,860
Plumbing	8,461	3,791	4,670	1,484	(NA)	1,484	(NA)	3,408	3,569
Roofing	7,685	3,834	3,851	(NA)	(NA)	(NA)	(NA)	4,552	3,133
Painting	11,170	5,673	5,497	(NA)	(NA)	(NA)	(NA)	(NA)	11,170
1987, total¹	94,082	54,791	39,291	39,978	9,557	21,641	8,779	15,875	38,229
Heating and air-conditioning ²	6,410	3,932	2,478	1,534	(NA)	1,534	(NA)	2,537	2,340
Plumbing	8,510	3,830	4,680	1,856	(NA)	1,856	(NA)	3,220	3,434
Roofing	6,020	2,487	3,533	(NA)	(NA)	(NA)	(NA)	3,457	2,563
Painting	11,504	5,704	5,800	(NA)	(NA)	(NA)	(NA)	(NA)	11,504
1988, total¹	101,117	60,822	40,295	43,339	11,333	22,703	9,303	16,893	40,885
Heating and air-conditioning ²	7,460	4,838	2,622	1,357	(NA)	1,357	(NA)	3,352	2,751
Plumbing	8,610	4,414	4,196	1,619	(NA)	1,619	(NA)	2,968	4,024
Roofing	6,665	3,317	3,348	(NA)	(NA)	(NA)	(NA)	4,799	1,866
Painting	12,467	6,159	6,308	(NA)	(NA)	(NA)	(NA)	(NA)	12,467

NA Not available. ¹ Includes types of expenditures not separately specified. ² Central air-conditioning.

Source: U.S. Bureau of the Census, *Construction Reports*, series C50.

NO. 1284. VACANCY RATES FOR HOUSING UNITS—CHARACTERISTICS: 1983 TO 1988

(In percent. Annual averages. Based on Current Population Survey and Quarterly Household Survey. Rate is relationship between vacant housing for rent or for sale and the total rental and homeowner supply, which comprises occupied units, units rented or sold and awaiting occupancy, and vacant units available for rent or sale. For composition of regions, see fig. 1, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 249-256]

RENTAL UNITS	1983	1984	1985	1986	1987	1988	HOMEOWNER UNITS	1983	1984	1985	1986	1987	1988
Total rental units	5.7	5.9	6.5	7.3	7.7	7.7	Total homeowner units	1.5	1.7	1.7	1.6	1.7	1.8
Inside SMSAs	5.5	5.7	6.3	7.2	7.7	7.8	Inside SMSAs	1.6	1.6	1.7	1.5	1.6	1.6
Outside SMSAs	6.3	6.4	7.1	8.2	7.8	7.3	Outside SMSAs	1.5	1.8	1.9	1.8	1.9	1.6
Northeast	4.0	3.7	3.5	3.9	4.1	4.8	Northeast	1.0	.8	1.0	1.0	1.2	1.6
Midwest	6.1	5.9	5.9	6.9	6.8	6.9	Midwest	1.5	1.6	1.6	1.5	1.4	1.2
South	6.9	7.9	9.1	10.1	10.9	10.1	South	1.8	2.0	2.1	2.1	2.0	1.9
West	5.2	5.2	5.2	7.1	7.3	7.7	West	1.8	2.0	2.1	1.6	1.8	1.6
Units in structure:							Units in structure:						
1 unit	3.7	3.8	3.8	3.9	4.0	3.6	1 unit	1.3	1.4	1.4	1.3	1.4	1.3
2 units	6.7	7.0	7.9	9.2	9.7	9.8	2 units	5.2	6.1	6.6	5.6	5.8	6.1
3 or more	7.1	7.5	8.8	10.4	11.2	11.4	3 or more	8.8	10.6	10.1	8.3	8.6	9.7
Units with—							Units with—						
3 rooms or less	7.2	7.5	8.8	10.2	10.7	10.6	3 rooms or less	3.3	4.8	5.8	5.2	5.5	5.6
4 rooms	5.7	6.3	6.9	8.0	8.6	8.7	4 rooms	2.4	2.6	2.3	2.3	2.5	2.6
5 rooms	4.4	4.6	5.0	5.3	5.4	5.3	5 rooms	1.4	1.6	2.0	1.7	1.7	1.6
6 rooms or more	3.7	3.5	3.2	3.3	3.3	3.3	6 rooms or more	1.3	1.4	1.4	1.3	1.3	1.2
Monthly rent:							Value:						
Less than \$100	2.5	2.7	3.5	2.8	2.2	2.2	Less than \$20,000	2.3	2.5	2.5	2.6	3.5	3.0
\$100 or more	5.7	5.9	3.6	7.7	9.0	8.4	\$20,000 or more	1.2	1.3	1.3	1.2	1.3	1.2
Year built:							Year built:						
1960 or later	5.9	6.6	7.9	9.5	11.2	9.9	1960 or later	1.8	2.0	2.0	1.8	1.8	1.8
1965 or later	6.2						1965 or later	1.9					
1940-1959	5.4	5.6	3.2	6.9	7.7	7.6	1940-1959	1.1	1.2	1.2	1.2	1.1	1.2
1939 or earlier	5.6	5.3	5.0	5.0	5.1	5.1	1939 or earlier	1.7	1.7	1.8	1.8	1.7	1.6

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

No. 1285. RECENT HOME BUYERS—GENERAL CHARACTERISTICS: 1976 TO 1988

[As of October. Based on a sample survey; subject to sampling variability]

ITEM	Unit	1976	1980	1981	1982	1983	1984	1985	1986	1987	1988
Median price of house purchased.....	Dollars	43,340	68,714	78,220	82,500	90,000	89,400	90,400	93,680	99,260	121,910
First-time buyers.....	Dollars	37,670	61,450	63,180	58,900	73,100	81,500	75,100	74,700	84,730	97,100
Repeat buyers ¹	Dollars	50,090	75,750	82,220	98,300	101,800	100,400	106,200	114,860	115,430	141,400
Average monthly mortgage payment.....	Dollars	329	599	694	732	794	868	896	852	939	1,008
Percent of income.....	Percent	24.0	32.4	35.5	33.0	32.5	30.3	30.0	28.6	29.3	32.8
Percent buying—											
New houses.....	Percent	15.1	22.4	25.2	23.2	26.4	22.3	23.8	25.7	23.8	26.2
Existing houses.....	Percent	84.9	77.6	74.8	76.8	73.6	77.7	76.2	74.3	76.2	73.8
Single-family houses.....	Percent	88.8	82.4	78.3	76.6	87.8	89.9	87.0	85.1	87.3	83.3
Condominiums ²	Percent	11.2	17.6	20.3	23.4	12.2	10.1	10.6	14.2	12.5	12.4
For the first time.....	Percent	44.8	32.9	39.4	40.6	40.5	37.7	36.6	35.5	36.8	37.8
Average age:											
First-time buyers.....	Years	28.1	28.3	28.4	28.6	28.9	29.1	28.4	30.9	29.6	30.3
Repeat buyers ¹	Years	35.9	36.4	36.4	37.1	37.3	37.6	38.4	39.5	39.1	38.9
Downpayment/sales price.....	Percent	25.2	28.0	24.1	22.4	22.9	20.9	24.8	23.4	27.2	24.0
First-time buyers.....	Percent	18.0	20.5	19.4	15.1	15.7	13.2	11.4	13.4	20.4	14.6
Repeat buyers ¹	Percent	30.8	32.7	27.1	27.3	27.8	25.6	32.7	28.9	31.3	29.7

¹ Buyers who previously owned a home. ² Includes multiple-family houses.

Source: Chicago Title insurance Company, Chicago, IL, *The Guarantor*, bimonthly. (Copyright.)

No. 1286. CHARACTERISTICS OF CONVENTIONAL FIRST MORTGAGE LOANS FOR PURCHASE OF SINGLE-FAMILY HOMES: 1970 TO 1989

[In percent, except as indicated. Annual averages, except as indicated. Refers to loans originated directly by Federal Savings and Loan Insurance Corporation-insured savings institutions, mortgage bankers, commercial banks, and Federal Deposit Insurance Corporation-insured savings banks. Excludes interim construction loans, refinancing loans, junior liens, and federally underwritten loans]

LOAN CHARACTERISTIC	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, June
NEW HOMES												
Contract interest rate, ¹ all loans.....	8.3	8.8	12.3	14.1	14.5	12.1	11.9	11.1	9.7	8.9	8.3	10.1
Fixed-rate loans.....	(NA)	(NA)	(NA)	(NA)	14.4	12.3	12.5	11.9	10.0	9.5	10.0	10.7
Adjustable-rate loans ²	(NA)	(NA)	(NA)	(NA)	14.7	11.8	11.5	10.4	9.0	8.2	8.1	8.5
Initial fees, charges ³	1.03	1.53	2.09	2.66	2.96	2.39	2.66	2.52	2.48	2.26	2.19	1.91
Effective interest rate, ⁴ all loans.....	8.5	9.0	12.7	14.7	15.1	12.6	12.4	11.6	10.2	9.3	9.2	10.4
Fixed-rate loans.....	(NA)	(NA)	(NA)	(NA)	14.9	12.7	13.0	12.4	10.5	9.9	10.4	11.1
Adjustable-rate loans ²	(NA)	(NA)	(NA)	(NA)	15.4	12.3	12.0	10.8	9.4	8.5	8.5	9.9
Term to maturity (years).....	25.1	27.0	28.1	27.7	27.5	26.7	27.8	27.0	26.8	27.8	28.0	27.8
Purchase price (\$1,000).....	35.5	44.7	83.2	90.3	94.1	93.9	96.8	105.0	119.8	137.2	150.5	150.5
Loan to price ratio.....	71.7	76.2	73.2	74.8	76.6	77.3	78.6	77.1	75.3	75.2	75.6	75.2
Percent of number of loans with adjustable rates.....	(NA)	(NA)	(NA)	(NA)	41	37	59	51	27	41	47	53
EXISTING HOMES												
Contract interest rate, ¹ all loans.....	8.2	9.0	12.5	14.5	14.8	12.3	12.0	11.2	9.8	8.9	9.0	10.3
Fixed-rate loans.....	(NA)	(NA)	(NA)	(NA)	14.8	12.6	12.7	11.9	10.1	9.5	10.1	10.7
Adjustable-rate loans ²	(NA)	(NA)	(NA)	(NA)	14.7	11.9	11.6	10.5	9.1	8.2	8.2	9.8
Initial fees, charges ³.....	.92	1.16	1.91	2.27	2.55	2.40	2.54	2.50	2.13	2.02	1.88	1.86
Effective interest rate, ⁴ all loans.....	8.4	9.2	12.9	15.0	15.3	12.8	12.5	11.6	10.2	9.3	9.3	10.6
Fixed-rate loans.....	(NA)	(NA)	(NA)	(NA)	15.4	13.0	13.2	12.4	10.5	9.9	10.4	11.0
Adjustable-rate loans ²	(NA)	(NA)	(NA)	(NA)	15.3	12.3	12.1	10.9	9.4	8.5	8.5	10.1
Term to maturity (years).....	22.8	24.2	26.9	25.9	24.9	25.9	26.5	25.5	25.4	26.6	27.7	27.9
Purchase price (\$1,000).....	30.0	39.2	68.3	66.5	70.7	79.3	82.2	92.7	108.5	117.7	126.6	131.2
Loan to price ratio.....	71.1	73.5	73.5	72.9	71.9	74.3	76.9	75.7	73.9	75.4	76.4	75.4
Percent of number of loans with adjustable rates.....	(NA)	(NA)	(NA)	(NA)	39	41	64	50	31	44	57	45

NA Not available. ¹ Initial interest rate paid by the borrower as specified in the loan contract. ² Loans with a contractual provision for periodic adjustments in the contract interest rate. ³ Includes all fees, commissions, discounts and "points" paid by the borrower, or seller, in order to obtain the loan. Excludes those charges for mortgage, credit, life, or property insurance; for property transfer; and for title search and insurance. ⁴ Contract interest rate plus fees and charges amortized over a ten-year period.

Source: U.S. Office of Thrift Supervision (formerly U.S. Federal Home Loan Bank Board), *Savings and Home Financing Source Book*, annual and monthly news releases.

No. 1287. LOW-INCOME PUBLIC HOUSING UNITS, BY PROGRESS STAGE: 1960 TO 1988

[In thousands. As of Dec. 31. Housing for the elderly intended for persons 62 years old or over, disabled, or handicapped. Includes Puerto Rico and Virgin Islands. Covers units subsidized by HUD under annual contributions contracts. See also *Historical Statistics, Colonial Times to 1970*, series N 186-191]

YEAR	Total	Occu- pied units ¹	Under con- struction	Other ²	YEAR	Total	Occu- pied units ¹	Under con- struction	Other ²
1960.....	593.3	478.2	36.4	78.8	1986.....	1,365.1	1,333.8	12.1	19.3
Elderly.....	18.9	1.1	4.1	13.7	Elderly.....	373.0	363.9	3.0	6.0
1970.....	1,155.3	893.5	126.6	135.0	1987.....	1,443.0	1,406.4	9.7	26.9
Elderly.....	249.4	143.4	65.7	40.3	Elderly.....	378.6	374.2	1.3	6.1
1980.....	1,321.1	1,195.6	20.9	104.6	1988.....	1,448.8	1,413.3	9.7	25.8
Elderly.....	358.3	317.7	11.5	29.1	Elderly.....	382.5	374.7	1.4	6.4
1985.....	1,378.0	1,344.6	9.6	19.5					
Elderly.....	373.5	361.1	2.1	10.3					

¹ Under management or available for occupancy. ² To be constructed or to go directly "under management" because no rehabilitation needed.

Source: U.S. Dept. of Housing and Urban Development, unpublished data.

Building Improvement Expenditures—Office Building Vacancies

727

NO. 1288. EXPENDITURES FOR IMPROVEMENTS AND UPKEEP OF PRIVATE AND STATE AND LOCAL NONRESIDENTIAL BUILDINGS, BY REGION, PRINCIPAL BUILDING ACTIVITY, AND FLOORSPACE: 1986

[In millions of dollars. For composition of regions, see fig. 1, inside front cover]

PRINCIPAL BUILDING ACTIVITY AND FLOORSPACE	TOTAL		NORTHEAST		MIDWEST		SOUTH		WEST	
	Im- provements	Up- keep	Im- provements	Up- keep	Im- provements	Up- keep	Im- provements	Up- keep	Im- provements	Up- keep
All nonresidential buildings, total	49,432	28,608	12,528	7,689	15,361	6,301	12,047	7,906	9,497	6,712
BUILDING ACTIVITY										
Private buildings.....	38,129	21,669	9,529	5,812	12,132	5,213	10,186	5,738	6,282	4,906
Office.....	12,772	6,835	4,062	1,670	2,902	1,208	2,702	1,849	3,107	2,107
Mercantile/service (nonfood).....	7,052	3,549	1,903	1,462	2,669	709	1,639	731	841	647
Food sales/service.....	912	1,115	219	326	307	224	330	376	55	190
Warehouse.....	1,435	1,407	261	395	252	273	637	381	285	358
Religious assembly.....	1,732	1,053	56	82	122	388	1,096	413	457	170
Educational.....	1,518	1,339	352	394	414	334	607	330	145	281
Health care.....	6,053	2,717	1,558	887	2,213	812	1,847	385	435	632
Lodging.....	1,629	1,611	1,252	257	434	231	392	891	79	232
Other.....	2,957	1,409	296	270	1,129	719	673	194	858	226
Vacant.....	2,069	635	97	69	1,688	313	262	190	22	63
State and local buildings.....	11,303	6,939	2,999	1,877	3,229	1,088	1,861	2,168	3,215	1,806
Educational.....	8,239	4,186	2,715	1,529	1,915	660	1,029	1,031	2,580	966
Health care.....	577	1,189	182	30	100	224	203	666	92	268
Other.....	2,473	1,554	102	317	1,211	203	617	463	543	570
Vacant.....	15	11	(z)	(z)	3	1	11	7	(z)	2
FLOORSPACE										
1,001 to 10,000 sq. feet.....	6,483	5,086	1,324	1,111	1,263	1,069	2,943	2,009	953	897
10,001 to 25,000 sq. feet.....	7,499	3,101	1,363	716	2,701	800	1,676	734	1,759	851
25,001 to 100,000 sq. feet.....	9,740	5,929	2,853	2,320	2,652	1,092	3,017	1,429	1,218	1,088
100,001 and over sq. feet.....	14,406	7,554	3,989	1,665	5,515	2,252	2,550	1,566	2,352	2,071

Z Less than \$500,000.

Source: U.S. Bureau of the Census, *Current Construction Reports, Expenditures For Nonresidential Improvements and Upkeep: 1986*.

NO. 1289. OFFICE BUILDINGS—VACANCY RATES, 1980 TO 1989, AND STATUS OF SUPPLY, 1989, BY MAJOR CITY

[As of December; except 1989, as of June. Excludes government owned and occupied, owner-occupied, and medical office buildings]

CITY	VACANCY RATE FOR EXISTING SPACE (percent)										SUPPLY STATUS, 1989 (mil. sq. ft.)			
	1980	1982	1983	1984	1985	1986	1987	1988	1989	Existing space		Space under construction		
										Total	Available for lease	Total	Available for lease	
Total ¹	4.8	11.0	13.5	15.5	16.9	18.6	19.0	18.6	19.3	2,008.0	387.4	124.9	94.9	
Atlanta, GA.....	10.3	16.8	13.7	14.5	21.0	20.1	19.6	16.3	19.1	76.3	18.3	5.5	3.7	
Baltimore, MD.....	7.2	5.9	8.4	11.9	11.5	15.9	15.8	13.4	14.6	27.8	5.5	2.6	1.5	
Boston, MA.....	3.8	7.8	4.4	8.9	13.1	13.0	12.6	14.1	14.0	118.1	23.6	11.0	7.1	
Charlotte, NC.....	(NA)	(NA)	(NA)	16.7	16.7	15.5	15.1	16.5	16.2	16.0	3.0	7	4	
Chicago, IL.....	7.0	6.9	12.6	14.8	16.5	19.6	17.0	15.9	16.2	179.5	37.5	11.2	8.4	
Cincinnati, OH.....	(NA)	(NA)	(NA)	(NA)	(NA)	17.7	13.3	13.9	15.0	22.5	4.8	2.5	1.4	
Dallas, TX.....	8.5	18.6	21.5	18.7	23.0	30.9	29.1	29.7	27.4	114.8	31.6	5	1	
Denver, CO.....	6.5	22.6	24.1	20.6	24.7	25.1	27.9	27.6	27.7	69.5	19.4	3	2	
Fort Worth, TX.....	(NA)	(NA)	(NA)	24.1	22.5	24.7	26.9	25.0	24.3	22.5	5.5	—	(NA)	
Houston, TX.....	4.0	20.3	26.9	25.0	30.6	31.8	29.2	26.3	145.4	41.3	—	—	—	
Jacksonville, FL.....	(NA)	(NA)	(NA)	(NA)	(NA)	17.2	14.7	14.7	(NA)	(NA)	(NA)	(NA)	(NA)	
Kansas City, MO.....	4.2	12.4	15.7	18.6	16.2	18.2	18.2	19.9	17.1	30.5	6.4	2.0	1.1	
Los Angeles, CA.....	3	12.3	14.0	20.4	15.3	13.2	19.0	15.8	19.4	176.7	47.8	17.1	13.6	
Memphis, TN.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	22.2	21.4	18.9	15.8	3.7	8	5	
Miami, FL.....	2.4	6.3	14.0	18.2	20.9	25.2	26.1	24.0	22.5	24.8	6.1	9	7	
Milwaukee, WI.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	16.8	19.3	22.7	19.2	4.4	1	1	
New Orleans, LA.....	(NA)	7.4	19.0	22.4	21.8	25.5	24.3	25.6	25.9	22.8	6.2	5	3	
New York, NY ²	3.1	4.9	5.0	6.8	7.9	8.9	9.7	11.5	14.8	236.0	41.2	9.9	6.9	
Philadelphia, PA.....	6.3	12.8	9.6	9.0	14.5	15.5	16.5	15.8	15.3	61.6	19.6	10.4	10.2	
Pittsburgh, PA.....	1.2	7.1	7.9	14.2	(NA)	12.0	12.3	17.6	18.1	38.5	8.5	2.3	2.3	
St. Louis, MO.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	15.6	18.4	21.9	29.0	7.5	1.1	1.1	
San Antonio, TX.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	31.8	31.5	19.7	6.2	1	(z)	
San Diego, CA.....	(NA)	25.3	22.9	21.8	24.7	25.4	22.8	20.1	22.3	29.4	10.3	4.5	3.7	
San Francisco, CA.....	4	7.3	11.3	9.0	13.7	16.6	15.0	15.5	16.1	54.4	10.0	1.6	1.2	
Washington, DC.....	2.5	6.3	7.2	9.6	9.0	13.6	13.4	13.2	14.2	148.3	37.6	19.9	16.5	

— Represents zero. NA Not available. Z Less than 50,000 square feet. ¹ Includes other cities not shown separately. In 1988, 35 cities were covered. ² Refers to Manhattan.

Source: The Office Network, Houston, TX, 1980–1985, *National Office Market Report*, semi-annual; thereafter, *International Office Market Report*, semi-annual. ©Copyright.

NO. 1290. COMMERCIAL OFFICE SPACE—INVENTORY AND VACANCY RATES FOR THE 50 LARGEST METROPOLITAN AREAS: 1988

[As of December 31. Central business district is the area located near the historical urban core, commonly associated with the traditional government and financial districts in most cities; outside the central business districts is comprised of the suburban area and "urban clusters" with areas of high office space concentrations. Class A space is in "excellent" locations, with high quality finish, well maintained, and professionally managed; Class B space is in "good" locations, professionally managed, with fairly high quality construction. Data based on responses from individuals knowledgeable in the local markets]

METROPOLITAN AREAS RANKED BY POPULATION-SIZE, 1988 ¹	INVENTORY (1,000 square feet)				VACANCY RATE ² (percent)			
	Inside central business district		Outside central business district		Inside central business district		Outside central business district	
	Class A	Class B	Class A	Class B	Class A	Class B	Class A	Class B
Los Angeles-Long Beach, CA PMSA.....	15,541.2	12,142.9	24,048.3	17,835.8	14.7	17.9	24.5	14.5
New York, NY PMSA.....	237,402.6	97,598.5	22,710.1	10,922.0	13.1	14.5	23.8	21.4
Chicago, IL PMSA.....	42,211.3	43,190.5	³ 59,310.6	(³)	11.2	13.9	³ 18.0	(³)
Philadelphia, PA-NJ PMSA.....	22,685.1	7,688.7	³ 35,550.0	(³)	14.7	10.1	³ 16.9	(³)
Detroit, MI PMSA.....	8,806.8	2,402.2	17,893.4	26,360.8	6.5	21.3	22.6	17.3
Boston, MA NECMA.....	39,700.0	(NA)	45,800.0	(NA)	11.3	(NA)	15.5	(NA)
Washington, DC-MD-VA MSA.....	⁴ 19,042.8	⁴ 43,408.8	(NA)	(NA)	⁴ 17.6	⁴ 7.7	(NA)	(NA)
Houston, TX PMSA.....	24,762.9	7,988.3	³ 34,584.0	48,419.7	15.4	31.9	19.4	35.2
Atlanta, GA MSA.....	³ 17,741.3	(³)	³ 52,594.6	(³)	³ 16.6	(³)	³ 18.6	(³)
Nassau-Suffolk, NY PMSA.....	(NA)	(NA)	12,250.0	(NA)	(NA)	(NA)	11.0	(NA)
Dallas, TX PMSA.....	³ 29,022.2	(NA)	³ 101,186.7	(NA)	³ 28.2	(NA)	³ 28.3	(NA)
St. Louis, MO-IL MSA.....	8,983.0	3,280.7	14,074.0	5,705.7	18.9	16.6	12.1	16.7
Minneapolis-St. Paul, MN-WI MSA.....	9,689.8	6,637.6	5,165.2	16,927.9	13.9	13.2	29.1	21.4
Baltimore, MD MSA.....	6,026.7	4,176.3	10,181.5	5,060.6	10.3	15.9	24.9	9.3
Riverside-San Bernardino, CA PMSA.....	(NA)	(NA)	(NA)	7,152.9	(NA)	(NA)	1.1	14.3
Anaheim-Santa Ana, CA PMSA.....	⁴ 40,994.0	(NA)	(NA)	(NA)	⁴ 24.8	(NA)	(NA)	(NA)
Pittsburgh, PA PMSA.....	15,450.0	8,182.0	8,700.0	5,450.0	17.4	17.4	8.0	15.6
Phoenix, AZ MSA.....	³ 19,461.3	(³)	³ 12,543.7	(³)	³ 19.1	(³)	³ 26.5	(³)
Oakland, CA PMSA.....	7,142.0	6,821.3	7,057.6	14,464.8	19.7	21.3	26.9	21.3
Tampa-St. Petersburg-Clearwater, FL MSA.....	3,426.7	2,125.0	8,559.2	4,961.8	7.2	35.8	25.7	21.1
Newark, NJ PMSA ⁵	(NA)	(NA)	⁴ 74,408.7	(NA)	(NA)	(NA)	⁴ 19.8	(NA)
Seattle, WA PMSA.....	18,200.0	2,651.0	11,200.0	9,600.0	14.3	15.0	23.0	15.5
Cleveland, OH PMSA.....	7,593.0	8,551.0	10,863.0	2,000.0	8.7	11.0	13.3	12.0
Miami-Hialeah, FL PMSA.....	7,500.0	3,500.0	5,200.0	13,800.0	20.0	37.1	19.2	26.1
Denver, CO PMSA.....	12,100.0	9,300.0	8,613.0	28,340.0	22.8	31.2	4.7	33.5
San Francisco, CA PMSA.....	32,448.5	4,805.6	9,870.9	5,844.3	13.7	21.3	13.9	12.1
Kansas City, MO-KS MSA.....	5,000.0	5,000.0	15,110.0	2,000.0	12.3	23.0	20.6	10.0
Cincinnati, OH-KY-IN PMSA.....	6,085.0	3,200.0	4,145.8	3,840.1	5.5	41.1	43.2	16.5
San Jose, CA PMSA.....	3,200.0	3,842.9	1,835.0	24,682.5	17.7	17.7	12.0	17.5
Milwaukee, WI PMSA.....	5,500.0	4,000.0	4,000.0	2,500.0	16.4	18.8	18.8	5.0
Sacramento, CA MSA.....	2,000.0	4,100.0	8,500.0	10,500.0	2.5	9.3	11.8	27.6
Norfolk-Virginia Beach-Newport News, VA MSA.....	2,200.0	3,000.0	4,000.0	8,000.0	31.8	11.7	13.8	5.0
Columbus, OH MSA.....	4,200.0	3,300.0	5,800.0	4,700.0	17.5	12.1	25.0	16.0
San Antonio, TX MSA.....	2,157.2	2,650.0	6,030.0	9,330.0	21.3	22.6	29.9	32.6
New Orleans, LA MSA.....	8,872.5	6,936.3	2,176.3	5,076.0	13.1	37.0	23.3	24.6
Bergen-Passaic, NJ PMSA ⁶	(NA)	(NA)	⁴ 15,000.0	⁴ 36,000.0	(NA)	(NA)	⁴ 33.3	⁴ 5.6
Indianapolis, IN MSA.....	5,078.0	2,194.0	³ 11,815.0	(³)	27.4	7.2	³ 22.6	(³)
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA.....	2,200.0	200.0	2,700.0	665.0	11.3	10.0	26.3	26.8
Charlotte-Gastonia-Rock Hill, NC-SC MSA.....	5,338.1	3,695.4	3,950.0	3,458.9	25.3	6.8	35.4	12.3
Salt Lake City-Cgden, UT MSA.....	2,233.0	3,299.0	692.0	1,141.0	29.0	10.0	14.0	31.0
Memphis, TN-AR-MS MSA.....	1,947.9	3,438.2	8,113.4	2,618.5	17.4	34.1	18.9	23.0
Nashville, TN MSA.....	2,589.6	2,182.2	5,133.1	5,691.3	20.3	23.9	24.3	18.9
Orlando, FL MSA.....	2,769.0	2,815.0	3,255.5	11,266.5	14.1	39.4	14.9	20.8
Oklahoma City, OK MSA.....	3,393.0	2,457.0	4,730.0	3,670.0	29.9	46.2	18.4	33.7
Buffalo, NY PMSA.....	2,598.0	2,842.0	1,483.8	670.0	1.0	4.4	13.5	14.9
Dayton-Springfield, OH MSA.....	995.0	1,674.0	588.0	2,872.0	3.4	24.7	33.8	23.9
Greensboro-Winston-Salem-High Point, NC MSA.....	600.0	625.0	1,600.0	440.6	12.5	16.0	12.5	18.6
Birmingham, AL MSA.....	2,230.3	1,636.6	2,667.7	3,570.0	12.0	33.9	16.4	19.4
Jacksonville, FL MSA.....	4,532.0	1,850.0	2,675.0	680.0	8.0	14.9	18.0	14.0
Albany-Schenectady-Troy, NY MSA.....	2,433.8	1,372.5	2,767.5	2,023.3	5.1	3.5	5.4	8.6

NA Not available. ¹ List excludes San Diego, CA MSA; Fort Worth-Arlington, TX PMSA; Portland, OR PMSA; Rochester, NY MSA; Middlesex-Somerset-Hunterdon, NJ PMSA; Monmouth-Ocean, NJ PMSA; and Louisville, KY-IN MSA. ² Represents the total vacant space divided by the total inventory of space in that area. ³ Class A includes Class B; data not available separately. ⁴ Data are for entire metropolitan area. ⁵ Data are for area identified by source as New Jersey-Central with a market area of Mercer, Middlesex, Monmouth, Morris, Somerset, and Union counties. ⁶ Data are for area identified by source as New Jersey-Northern with a market area of Bergen, Essex, Hudson, and Passaic Counties.

Source: Society of Industrial and Office REALTORS® of the NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, 1989 Guide to Industrial and Office Real Estate Markets. (Copyright.)

NO. 1291. COMMERCIAL BUILDINGS—SELECTED CHARACTERISTICS, BY SQUARE FOOTAGE OF FLOORSPACE: 1986

[Excludes buildings 1,000 square feet or smaller. Building type based on predominant activity in which the occupants were engaged. Based on a sample survey of building representatives conducted between January and April 1986; therefore, subject to sampling variability. For composition of regions, see fig. 1, inside front cover.]

CHARACTERISTIC	Number of buildings (1,000)	FLOORSPACE (mil. sq. ft.)							Mean sq. ft. per building (1,000)	Median sq. ft. per building (1,000)
		Total	Within all buildings having square footage of—							
			5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over		
All buildings	4,154	58,229	6,209	6,881	9,119	8,661	8,559	18,921	14.0	5.0
Region:										
Northeast.....	663	11,830	855	1,358	1,443	1,922	1,525	4,728	17.8	6.0
Midwest.....	1,096	16,034	1,565	2,033	2,431	1,959	2,333	5,714	14.6	5.0
South.....	1,570	19,427	2,528	2,314	3,291	2,938	3,208	5,146	12.4	4.6
West.....	825	10,937	1,261	1,156	1,955	1,842	1,491	3,233	13.3	4.8
Year constructed:										
1984 to 1986.....	309	4,678	442	509	785	804	611	1,526	15.1	5.0
1980 to 1983.....	350	5,205	611	487	803	503	730	2,071	14.9	4.8
1974 to 1979.....	572	6,230	852	978	1,142	1,155	1,492	2,612	14.4	4.8
1971 to 1973.....	243	4,307	332	466	463	528	535	1,982	17.7	5.4
1961 to 1970.....	730	11,469	1,027	1,160	1,639	1,850	1,813	3,990	15.7	5.0
1946 to 1960.....	878	9,712	1,408	1,335	1,694	1,459	1,529	2,287	11.1	4.6
1921 to 1945.....	629	8,594	922	948	1,753	1,312	1,078	2,581	13.7	5.0
1901 to 1920.....	255	3,665	361	489	539	616	469	(s)	14.4	5.0
1900 or before.....	188	2,368	254	490	301	433	(s)	(s)	12.6	6.0
Principal activity within building:										
Assembly.....	575	7,339	798	1,020	1,750	1,181	1,040	(s)	12.8	5.6
Education.....	241	7,321	200	375	749	1,424	1,454	(s)	30.3	10.0
Food sales/service.....	303	1,933	586	(s)	(s)	(s)	(s)	(s)	6.6	3.5
Health care.....	52	2,107	63	(s)	(s)	197	(s)	1,563	40.5	5.0
Lodging.....	137	2,785	138	208	508	546	606	(s)	20.4	8.0
Mercantile/services.....	1,287	12,805	2,062	2,260	2,284	1,622	1,700	2,878	9.9	4.5
Office.....	614	9,546	1,003	989	1,284	1,227	1,047	3,996	15.5	4.7
Public order and safety.....	55	680	78	(s)	218	(s)	(s)	(s)	12.4	5.4
Warehouse.....	549	8,996	774	920	1,143	1,574	1,446	(s)	16.4	5.1
Other.....	103	1,726	182	(s)	279	(s)	352	(s)	16.8	4.9
Vacant.....	238	2,931	365	355	458	531	503	(s)	12.3	4.8
Government owned.....	493	12,187	565	752	1,458	2,053	2,068	5,290	24.7	7.0
Non-government owned.....	3,661	46,041	5,644	6,109	7,661	6,507	6,490	13,529	12.6	4.8
Fuels used alone or in combination:										
Electricity.....	4,013	57,036	5,970	6,674	8,901	8,553	8,241	18,697	14.2	5.0
Natural gas.....	2,278	38,140	3,108	4,132	5,779	5,388	5,279	14,454	16.7	5.6
Fuel oil.....	542	11,163	711	1,038	1,138	1,462	1,431	5,383	20.6	6.0
Propane.....	351	3,362	614	473	586	555	597	(s)	9.6	4.0
Steam or hot water.....	78	4,845	66	(s)	316	436	747	3,043	59.5	19.0
Chilled water.....	15	1,191	(s)	(s)	(s)	(s)	(s)	888	79.7	19.5
Minor fuels ¹	163	1,557	227	245	251	(s)	(s)	(s)	9.6	3.2
No energy sources used.....	136	1,171	229	174	(s)	(s)	(s)	(s)	8.6	3.2
Workers:										
Fewer than 5.....	2,033	13,129	3,658	2,835	2,545	1,514	1,256	(s)	6.5	3.2
5 to 9.....	842	6,576	1,466	1,491	1,321	989	689	(s)	7.8	4.5
10 to 19.....	587	7,895	777	1,287	2,051	1,531	1,293	(s)	13.4	6.9
20 to 49.....	434	8,847	253	1,049	2,150	2,423	1,336	(s)	20.4	11.3
50 to 99.....	152	6,510	(s)	169	836	1,547	1,636	(s)	42.9	25.5
100 to 249.....	73	6,445	(s)	(s)	213	565	1,929	(s)	87.9	63.0
250 or more.....	33	8,828	(s)	(s)	(s)	(s)	478	8,252	264.5	160.0
Weekly operating hours:										
39 or less.....	870	9,286	1,448	1,333	1,542	1,459	1,279	(s)	10.7	4.3
40 to 48.....	1,086	15,167	1,623	1,656	2,671	2,624	2,215	4,377	14.0	5.0
49 to 60.....	919	10,805	1,302	1,770	2,121	1,468	1,360	2,783	11.8	5.0
61 to 84.....	556	9,760	777	950	1,245	1,510	1,477	3,800	17.5	5.4
85 to 167.....	375	5,514	582	685	597	634	1,108	(s)	14.7	4.9
168 (open continuously).....	347	7,896	476	466	943	967	1,119	3,726	22.2	5.4

S Figure does not meet publication standards. ¹ Active solar, coal, wood and biomass.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.

NO. 1292. COMMERCIAL BUILDINGS AND WORKERS—SELECTED BUILDING CHARACTERISTICS, BY FLOORSPACE: 1986

[See headnote, table 1291]

BUILDING CHARACTERISTICS	NUMBER OF BUILDINGS (1,000)							WORKERS		
	Total	Square footage of—						Number (1,000)	Average sq. ft. per worker	Median sq. ft. per worker
		5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over			
All buildings	4,154	2,220	931	557	242	123	81	73,436	792.9	1,000.9
Region:										
Northeast.....	663	298	183	90	53	21	18	16,183	731.0	1,000.5
Midwest.....	1,096	559	277	147	56	33	24	17,636	909.2	1,251.9
South.....	1,570	905	312	200	83	47	22	25,099	774.0	975.8
West.....	825	458	158	120	51	22	16	14,518	753.4	833.9
Principal activity within building:										
Assembly.....	575	274	138	106	33	16	(S)	4,303	1,705.7	2,901.9
Education.....	241	72	50	44	37	21	(S)	6,833	1,071.5	932.5
Food sales/service.....	303	204	(S)	(S)	(S)	(S)	(S)	5,073	830.8	855.4
Health care.....	52	27	(S)	(S)	6	(S)	4	5,050	417.3	422.7
Lodging.....	137	48	29	31	16	9	(S)	2,277	1,223.2	2,001.3
Mercantile/services.....	1,287	757	309	142	46	23	10	15,870	806.9	900.7
Office.....	614	343	133	74	35	15	15	25,010	381.7	437.9
Public order and safety.....	55	26	(S)	13	(S)	(S)	(S)	1,367	497.8	875.3
Warehouse.....	549	274	123	72	44	21	(S)	5,343	1,683.6	3,001.8
Other.....	103	58	(S)	18	(S)	5	(S)	1,566	1,102.2	1,801.3
Vacant.....	238	136	47	30	15	8	(S)	745	3,933.8	(X)
Non-government owned.....	3,661	2,024	828	471	188	94	56	57,505	800.6	1,000.9
Owner occupied.....	2,396	1,358	546	301	120	59	32	35,691	811.5	1,000.9
Nonowner occupied.....	1,265	686	282	170	69	35	23	21,814	783.0	1,033.3
Government owned.....	493	196	104	86	54	29	25	15,931	765.0	1,000.1

S Figure does not meet publication standards. X Not applicable.

Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.
NO. 1293. COMMERCIAL BUILDINGS—NUMBER AND SQUARE FOOTAGE OF FLOORSPACE, BY TYPE OF BUILDING AND CHARACTERISTIC: 1986

[For composition of regions, see fig. 1, inside front cover]

BUILDING CHARACTERISTICS	All buildings	As-sembly	Educa-tion	Food sales/service	Health care	Lodg-ing	Mer-cantile/ serv-ices	Office	Public order and safety	Ware-house	Other ¹
NUMBER (1,000)											
All buildings	4,154	575	241	303	52	137	1,287	614	55	549	341
Region:											
Northeast.....	663	71	29	(S)	10	22	227	91	13	99	44
Midwest.....	1,096	156	42	86	9	30	349	153	(S)	154	103
South.....	1,570	241	80	105	17	53	481	238	18	219	118
West.....	825	108	90	(S)	17	31	231	131	(S)	77	76
Year constructed:											
1900 or before.....	188	41	(S)	(S)	(S)	(S)	55	27	(S)	19	(S)
1901 to 1920.....	255	36	10	(S)	(S)	(S)	86	36	(S)	23	(S)
1921 to 1945.....	629	94	34	(S)	8	12	193	92	(S)	79	61
1946 to 1960.....	878	131	68	53	8	32	282	107	(S)	122	65
1961 to 1970.....	730	103	58	54	14	42	203	104	(S)	92	46
1971 to 1973.....	243	36	16	(S)	6	(S)	78	40	(S)	29	(S)
1974 to 1979.....	572	72	21	57	3	14	181	93	(S)	87	(S)
1980 to 1983.....	350	35	20	(S)	(S)	10	111	64	(S)	53	(S)
1984 to 1986.....	309	28	12	(S)	(S)	9	101	50	(S)	46	33
Government owned.....	493	77	161	(S)	8	10	45	55	33	40	52
Non-government owned.....	3,661	498	80	291	44	127	1,242	559	(S)	509	290
FLOORSPACE (mil. sq. ft.)											
All buildings	58,229	7,339	7,321	1,993	2,107	2,785	12,805	9,546	680	8,996	4,657
Region:											
Northeast.....	11,830	1,229	1,603	(S)	328	602	2,785	1,782	289	1,905	909
Midwest.....	16,034	2,004	2,212	664	559	636	3,525	2,535	(S)	2,246	1,475
South.....	19,427	2,724	2,174	583	806	949	4,487	2,838	147	3,458	1,261
West.....	10,937	1,382	1,332	(S)	415	597	2,008	2,390	(S)	1,387	1,012
Year constructed:											
1900 or before.....	2,368	728	(S)	(S)	(S)	(S)	521	343	(S)	318	(S)
1901 to 1920.....	3,665	600	347	(S)	(S)	(S)	821	688	(S)	301	(S)
1921 to 1945.....	8,594	1,281	1,228	(S)	315	386	1,507	1,279	(S)	1,304	889
1946 to 1960.....	9,712	1,392	1,648	296	352	365	2,064	1,003	(S)	1,979	540
1961 to 1970.....	11,469	1,158	2,045	503	224	803	2,337	1,729	(S)	1,652	821
1971 to 1973.....	4,307	607	776	(S)	380	(S)	728	672	(S)	614	(S)
1974 to 1979.....	8,230	903	692	294	319	316	2,306	1,322	(S)	1,484	(S)
1980 to 1983.....	5,205	376	395	(S)	(S)	190	1,325	1,414	(S)	621	(S)
1984 to 1986.....	4,678	353	141	(S)	(S)	309	1,196	1,096	(S)	722	391
Government owned.....	12,187	1,417	5,927	(S)	560	339	682	1,185	533	530	901
Non-government owned.....	46,041	5,921	1,394	1,880	1,547	2,446	12,123	8,360	(S)	8,466	3,757

S Figure does not meet publication standards. ¹ Includes vacant commercial buildings.Source: U.S. Energy Information Administration, *Nonresidential Buildings Energy Consumption Survey: Characteristics of Commercial Buildings, 1986*.