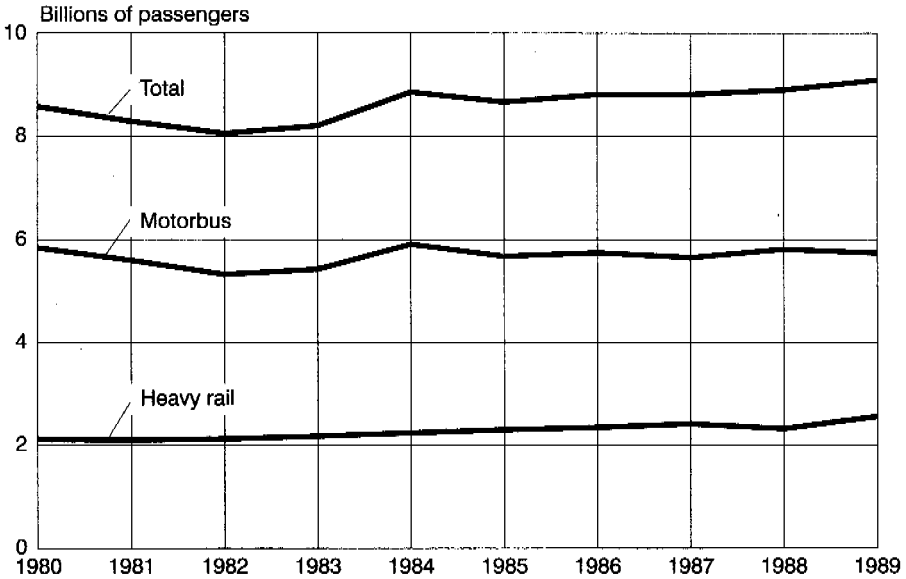
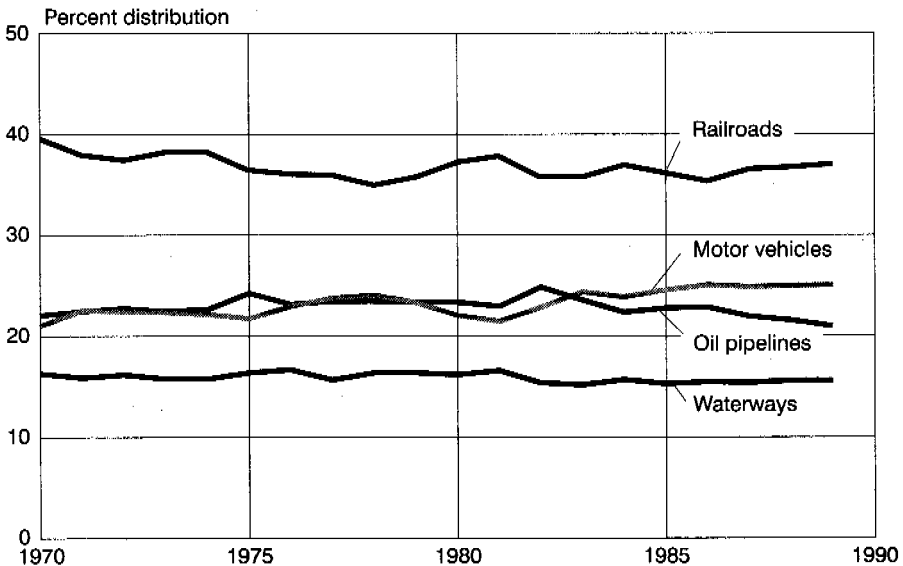


Figure 21.1
**Revenue Passengers Carried by Local
 Public Transportation: 1980 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1056.

Figure 21.2
**Ton-Miles of Domestic Intercity Freight Traffic,
 by Type of Transportation: 1970 to 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1021.



Section 21

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 1960-73, 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; 1974-79, the class I minimum was \$3 million. Effective January 1, 1980, class I carriers are those with \$5 million or more in revenue. For 1960-68, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969-76, 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 three 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 1950-55; \$3 million or more for 1956-64; \$5 million or more for 1965-75; and \$10 million or more for 1976-77. 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. 1019. Passenger and Freight Transportation Outlays, by Type of Transport: 1970 to 1989

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

TYPE OF TRANSPORT	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, est.
Total outlays ¹	195.6	297.8	540.9	595.8	586.7	638.7	706.0	755.6	769.9	802.5	865.1	908.8
Passenger, total	114.9	187.4	336.9	373.5	377.7	409.0	455.7	493.5	502.6	520.8	566.8	595.1
Private transportation	99.6	161.3	284.8	317.4	320.6	347.2	387.0	419.3	426.6	440.8	473.9	495.6
Automobiles ²	97.0	156.6	276.7	308.0	312.4	339.8	378.8	411.0	418.4	432.1	464.4	485.7
New and used cars	32.1	46.0	73.3	82.6	85.7	105.6	125.7	139.3	156.7	149.2	165.6	164.1
Tires, tubes, accessories	7.1	12.4	22.2	24.6	24.9	26.9	27.5	29.4	31.3	33.2	36.8	39.7
Gasoline and oil	29.9	53.9	99.7	111.3	106.3	105.9	106.7	108.9	86.9	90.6	90.4	98.8
Insurance less claims	4.4	4.5	11.5	10.8	11.2	12.5	12.0	11.6	14.8	18.2	19.8	21.0
Interest on debt	4.7	7.3	17.5	21.0	21.8	19.6	25.1	26.7	26.5	29.1	33.7	36.5
Registration and operator's permit fees	1.9	2.3	3.3	3.5	3.8	4.1	4.5	5.3	5.6	5.9	6.2	6.4
Repair, greasing, washing, parking, tolls	13.2	22.1	38.0	41.5	43.5	45.7	50.4	56.8	60.9	66.4	73.5	78.7
Air	2.6	4.7	8.1	9.4	8.2	7.4	8.2	8.3	8.1	8.7	9.4	9.9
For-hire transportation	15.3	26.2	52.2	56.1	57.1	61.8	68.7	74.2	76.0	82.3	92.9	99.4
Local	5.4	10.5	18.5	20.4	21.3	22.3	23.6	27.7	29.0	30.5	33.1	34.7
Bus and transit ³	1.8	4.7	9.2	10.1	10.3	11.4	11.7	15.1	15.1	15.8	17.4	17.9
School bus	1.2	2.2	3.8	4.7	5.0	5.2	5.8	6.1	6.4	6.8	7.1	7.5
Taxi	2.1	3.4	5.2	5.2	5.6	5.3	5.5	5.6	6.0	6.4	6.9	7.5
Intercity	7.7	12.9	28.4	30.6	30.5	33.5	38.5	39.5	39.8	42.6	48.6	52.4
Air	6.6	11.2	25.1	26.8	28.8	29.7	33.6	35.9	36.4	39.3	44.9	48.5
Rail ⁶	0.3	0.6	1.6	1.9	1.8	1.8	1.8	1.6	1.5	1.5	1.6	1.7
Bus	0.8	1.0	1.7	1.8	1.9	2.0	2.0	2.0	1.9	1.8	2.0	2.0
International	2.2	2.7	5.3	5.3	5.4	6.0	6.6	7.0	7.1	9.2	11.2	12.3
Freight, total ⁴	83.8	115.5	212.1	234.6	220.9	240.5	262.1	272.3	279.6	292.6	311.5	327.5
Highway	62.5	84.8	155.4	173.3	162.7	180.5	195.6	208.6	214.1	224.7	239.2	254.3
Truck, intercity	33.6	47.4	94.6	100.2	99.9	111.1	120.7	126.2	129.1	136.3	143.2	152.5
Truck, local	28.8	37.3	60.5	72.8	62.5	69.2	74.7	82.2	84.8	89.6	95.8	101.6
Rail	11.9	16.5	27.7	30.5	27.1	27.3	30.5	29.2	27.8	28.4	29.6	29.6
Water	5.1	7.9	14.8	15.7	15.6	16.2	17.8	18.7	19.0	19.1	20.2	20.2
Oil pipeline	1.4	2.2	7.1	7.4	7.9	8.3	8.7	8.9	8.6	8.5	8.6	8.5
Air carrier	1.2	1.8	4.0	4.3	4.4	5.0	6.0	6.8	7.6	8.7	10.2	11.2

¹ Total 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. ² Includes business-owned vehicles. ³ Includes storage and rental. ⁴ Includes items not shown separately. ⁵ Includes Federal, State and local government operating subsidies and capital grants. ⁶ Includes Federal operating subsidies and capital grants for Amtrak.

Source: ENO Foundation for Transportation, Westport, CT, *Transportation in America*, May 1990, with periodic supplements. (Copyright.)

No. 1020. Employment and Earnings in Transportation, by Industry: 1970 to 1989

[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	1983	1984	1985	1986	1987	1988	1989
(X)	NUMBER (1,000)									
(X)	Total transportation	2,694	2,960	2,743	2,916	3,001	3,056	3,163	3,312	3,450
40	Railroads	634	532	376	376	359	332	309	298	294
4011	Class I railroads	566	482	348	345	323	294	271	259	252
41	Local and interurban passengers	281	265	257	271	278	287	296	312	328
42	Trucking and warehousing	1,083	1,280	1,217	1,318	1,363	1,396	1,468	1,552	1,606
44	Water transportation	212	211	189	190	185	175	173	172	173
45	Air transportation	352	453	455	489	522	567	603	646	697
46	Pipelines, exc. natural gas	18	21	20	19	19	18	19	19	19
47	Transportation services	115	198	229	253	276	282	296	313	334
(X)	AVERAGE WEEKLY EARNINGS (dol.)									
4011	Class I railroads	172	427	542	573	595	608	627	674	693
41	Local and interurban passengers	(NA)	217	252	258	261	274	281	293	302
42	Trucking and warehousing	159	358	400	407	405	408	414	419	437
46	Pipelines, exc. natural gas	189	441	586	597	629	637	644	662	671

NA Not available. X Not applicable. ¹ 1987 Standard Industrial Classification, see text, section 13.

Source: U.S. Bureau of Labor Statistics, Bulletin 2370 and *Employment and Earnings*, monthly.

No. 1021. Volume of Domestic Intercity Freight and Passenger Traffic, by Type of Transport: 1970 to 1989

[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	1988	1989 ¹	1970	1975	1980	1985	1988	1989 ¹
Freight traffic, total	1,936	2,066	2,487	2,458	2,779	2,811	100.0	100.0	100.0	100.0	100.0	100.0
Railroads	771	759	932	895	1,028	1,048	39.82	36.74	37.47	36.41	36.99	37.28
Truck:												
ICC truck	167	200	242	250	293	299	8.63	9.68	9.73	10.17	10.54	10.64
Non-ICC truck	245	254	313	360	406	413	12.65	12.29	12.59	14.65	14.61	14.69
Water:												
Rivers/canals	205	243	311	306	353	362	10.59	11.76	12.51	12.45	12.7	12.88
Great Lakes	114	99	96	76	85	82	5.89	4.79	3.86	3.09	3.06	2.92
Oil pipelines	431	507	588	564	605	597	22.26	24.54	23.64	22.95	21.77	21.24
Domestic airways ²	3.3	3.7	4.8	6.7	9.3	9.8	0.17	0.19	0.19	0.28	0.33	0.35
Passenger traffic, total	1,181	1,354	1,557	1,744	1,956	2,014	100.0	100.0	100.0	100.0	100.0	100.0
Private automobiles	1,026	1,171	1,300	1,418	1,574	1,630	86.88	86.48	83.49	81.31	80.47	80.93
Domestic airways ³	119	148	219	291	346	347	10.08	10.93	14.07	16.68	17.69	17.23
Bus ⁴	25	25	27	24	23	24	2.12	1.85	1.73	1.38	1.18	1.19
Railroads ⁵	11	10	11	11	13	13	0.93	0.74	0.71	0.63	0.66	0.65

¹ Preliminary. ² 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. ³ Includes general aviation (mostly private business) flying.

⁴ Excludes school and urban transit buses. ⁵ Includes intercity (Amtrak) and rail commuter service.

Source: Eno Foundation for Transportation, Westport, CT, *Transportation in America*, May 1990, with periodic supplements. (Copyright.)

No. 1022. Passenger Transportation Arrangement: 1987 to 1989

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

SOURCE OF RECEIPTS	1987	1988	1989	OPERATING EXPENSES	1987	1988	1989
Receipts, total¹	7,053	7,819	8,654	Expenses, total¹	6,002	6,868	7,548
Air carriers	3,964	4,472	4,968	Payroll, annual	2,594	2,954	3,229
Water carriers	349	331	362	Employer contributions ²	318	371	439
Hotels and motels	378	443	514	Lease and rental payments	595	669	708
Motor coaches	311	308	311	Advertising and promotion	347	423	472
Railroads	37	45	54	Taxes and licenses	106	113	126
Rental cars	137	143	154	Utilities	(S)	265	300
Package tours	1,409	1,610	1,758	Depreciation	291	262	257
Other	468	467	533				

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

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

No. 1023. Transportation Accidents, Deaths, and Injuries: 1970 to 1989

[For related data, see also table 1042, 1065, 1072, and 1081]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT											Hazardous materials ¹¹
		Motor vehicle (1,000)	Railroad ²	Air carriers				General aviation ⁶	Recreational boating	Gas pipe-lines ⁸	Liquid pipe-lines ⁹	Water-borne ¹⁰	
				Total	Air-lines ³	Com-muter air carriers ⁴	On demand air carriers ⁵						
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	3,995	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
1985	19,348	19,300	3,275	195	22	21	152	2,741	6,237	331	183	3,439	6,014
1989	(NA)	(NA)	2,898	155	29	18	108	2,202	6,063	257	161	3,270	12,748
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
1985	47.3	43.8	454	639	526	37	76	950	1,116	28	5	131	8
1989	(NA)	45.5	523	(NA)	278	31	87	753	896	36	3	79	9
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
1985	1,705	1,700	31,592	92	33	16	43	517	2,757	121	17	187	253
1989	(NA)	(NA)	23,450	(NA)	23	4	34	394	3635	78	38	187	312

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 1042. Other data are from National Safety Council. ² Accidents which result in damages to railroad property. 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. Represents serious injuries. ⁴ All scheduled service. Represents serious injuries. ⁵ All non-scheduled service. Represents serious injuries. ⁶ 1975 excludes commuter and on-demand air taxis. ⁷ Accidents resulting in death; injury or requiring medical treatment beyond first aid; damages exceeding \$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. 1024. Federal Outlays for Transportation, by Function: 1970 to 1990

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

FUNCTION	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990, est.
Total outlays	558	1070	1325	2025	2115	2156	2585	2800	2444	272	27,808	28,250
Ground transportation										48	17,946	18,377
Air transportation										197	6,622	7,412
Water transportation										11	2,916	3,321
Other transportation	26	74	104	90	99	85	137	140	91	116	124	140

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

No. 1025. Expedited Domestic Package Express Volume and Growth: 1977 and 1988

[Year ended December 31. Represents the activity of domestic package express companies. Companies such as Federal Express Inc. and United Parcel Service Inc. Also includes package express services offered by trucking companies, the postal service, passenger airlines, freight forwarders, couriers, Amtrak, and bus companies. The Department of Transportation defines package express as the transportation of parcels of 150 pounds or less, with overnight or second-day delivery]

EXPEDITED PACKAGE EXPRESS	Unit	1977	1988	Percent change 1977-88	Average annual percent change, 1977-88
Expedited package express, total:					
Shipments	Millions	628	3,176	406.6	40.6
Weight	Mil. lbs.	9,409	37,258	296.0	29.6
Revenue	Mil. dol.	2,487	20,771	741.9	74.2
Air:					
Shipments	Millions	81	544	571.8	57.2
Weight	Mil. lbs.	4,485	8,914	98.7	9.9
Revenue	Mil. dol.	1,384	11,403	724.1	72.4
Surface express:					
Shipments	Millions	547	2,632	381.0	38.1
Weight	Mil. lbs.	4,924	28,344	475.6	47.6
Revenue	Mil. dol.	1,083	9,368	764.8	76.5

Source: U.S. Department of Commerce, *Journal of Commerce*.

No. 1026. Highway Mileage—Urban and Rural, by Type of Control, and Federal-Aid Highway System: 1970 to 1988

[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	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total mileage ¹	3,730	3,838	3,955	3,853	3,866	3,880	3,892	3,862	3,880	3,874	3,871
Urban mileage ²	561	639	624	632	641	662	674	691	701	710	739
Under State control	74	84	79	90	103	100	103	111	94	95	96
Under local control	487	555	543	540	536	562	571	578	606	614	642
Rural mileage	3,169	3,199	3,331	3,221	3,226	3,217	3,218	3,171	3,178	3,164	3,132
Percent surfaced ⁴	76.1	77.6	77.5	86.1	85.7	86.0	87.5	88.1	88.4	88.4	88.1
Under State control	707	711	702	726	825	817	818	773	704	704	704
Under local control	2,275	2,261	2,270	2,236	2,140	2,138	2,134	2,173	2,243	2,249	2,244
Under Federal control	188	227	262	256	261	262	266	225	231	212	183
Fed.-aid highway system: ⁶											
Primary (urban and rural)	272	266	300	298	298	300	300	301	303	302	304
Interstate	32	37	41	42	42	43	43	44	44	44	45
Urban	(X)	65	124	129	134	137	140	144	146	148	147
Secondary	647	643	398	401	402	397	398	398	398	398	400

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 1980, 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. 1027. Highway Mileage—Urban, Rural, and Federal-Aid Highway System: 1988

[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.	739,474	3,131,669	303,698	44,829	147,035	400,081	MO	15,386	104,502	8,170	1,177	2,434	18,062
AL	16,844	73,574	7,825	883	2,781	11,484	MT	2,260	69,211	6,648	1,191	360	4,732
AK	1,760	10,429	2,074	1,089	253	1,951	NE	4,943	87,552	7,675	481	1,055	11,449
AZ	11,515	58,767	4,662	1,162	3,006	3,294	NV	3,053	41,780	2,393	545	559	2,315
AR	7,654	69,440	5,755	542	1,143	7,249	NH	2,402	12,309	1,350	224	727	1,235
CA	71,186	91,376	13,476	2,390	17,610	11,064	NJ	22,433	11,764	1,864	392	5,352	1,723
CO	11,127	66,022	5,222	941	2,297	3,411	NM	4,607	49,331	4,573	999	569	3,936
CT	10,810	8,988	1,607	342	2,957	902	NY	37,542	73,071	9,893	1,501	8,749	6308
DE	1,569	3,818	476	41	311	602	NC	18,571	75,242	5,341	836	2,804	10,297
DC	1,102		192	12	236		ND	1,778	84,533	6,109	570	487	10,577
FL	47,931	56,658	9,444	1,389	4,590	4,391	OH	31,228	82,112	8,145	1,565	7,842	11,649
GA	20,338	87,050	11,336	1,244	3,970	14,008	OK	12,105	99,298	6,240	927	2,975	11,663
HI	1,405	2,676	551	39	322	455	OR	8,695	84,900	5,789	727	1,998	7,811
ID	2,396	58,267	3,274	605	723	4,194	PA	27,702	88,382	11,486	1,528	7,041	7,978
IL	31,577	103,929	11,580	1,939	6,753	12,957	RI	4,378	1,468	466	70	924	203
IN	17,740	73,848	6,089	1,117	4,580	9,593	SC	9,327	54,375	6,461	790	1,174	8,519
IA	8,708	103,780	9,589	782	2,438	13,506	SD	1,759	71,661	6,799	677	162	11,478
KS	8,897	124,068	8,923	870	1,590	22,605	TN	15,092	68,546	7,167	1,062	3,131	5,448
KY	7,597	62,251	4,580	763	1,919	7,320	TX	83,967	216,477	19,956	3,207	7,689	32,600
LA	12,267	46,155	3,895	751	2,166	7,353	UT	5,381	37,554	3,507	911	921	2,644
ME	2,413	19,553	2,374	366	705	2,742	VT	978	13,111	1,440	320	281	1,946
MD	12,019	16,214	2,596	393	2,129	1,907	VA	14,845	52,047	6,452	1,069	3,416	10,203
MA	20,609	13,200	2,778	564	5,906	2,007	WA	16,247	65,299	5,801	763	4,181	7,270
MI	26,996	90,899	8,439	1,211	5,645	17,106	WV	2,974	31,599	2,961	519	783	6,370
MN	13,950	115,694	10,208	905	2,203	16,619	WI	14,264	95,365	9,916	640	2,947	12,960
MS	7,257	64,912	6,446	684	1,721	11,718	WY	1,890	38,612	3,905	914	520	2,267

- 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. 1028. Highway Pavement Condition, by Type of Road System: 1980 to 1988

[Highway pavement condition is classified by the Present Serviceability Rating (PSR) system (5.0 - 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				ARTERIAL ROAD				COLLECTOR ROAD			
	1980	1985	1987	1988	1980	1985	1987	1988	1980	1985	1987	1988
URBAN AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) ¹	6	7	7	8	7	5	5	5	9	7	9	9
PSR 2.0-3.4 (2.5-3.4) ¹	26	38	37	37	42	53	53	53	50	58	60	60
PSR 3.5-5.0	68	55	55	55	51	42	42	42	41	35	31	31
RURAL AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) ¹	5	7	9	9	6	4	3	3	16	10	9	9
PSR 2.0-3.4 (2.5-3.4) ¹	26	33	33	33	46	51	52	50	55	59	57	57
PSR 3.5-5.0	69	60	58	58	48	45	45	47	29	31	34	34

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

No. 1029. Receipts and Disbursements for Highways, by Type: 1970 to 1990

[In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 511. State data include District of Columbia]

TYPE	1970	1980	1985	1987	1988	1989, prel.	1990, proj.		
							Total ¹	Federal	State
Total receipts	21,747	39,715	61,506	65,534	69,002	72,734	76,033	16,486	38,208
Current income	19,861	37,604	54,957	61,732	64,593	68,296	71,438	16,486	35,708
Imposts on highway users ²	15,311	22,559	35,599	40,075	41,588	44,304	45,698	13,890	30,456
Other taxes and fees	3,732	11,808	15,127	17,124	18,158	19,166	20,337	1,083	3,302
Investment income and other receipts	818	3,237	4,231	4,533	4,847	4,826	5,403	1,513	1,950
Bond issue proceeds	1,886	2,111	6,549	3,802	4,409	4,438	4,595	-	2,500
Intergovernmental payments	(X)	(X)	(X)	(X)	(X)	(X)	(X)	-14,469	6,318
Funds from (+) or to (-) reserves ⁴	912	+2,080	-4,058	-234	-393	-2,018	-2,035	-1,034	-100
Total funds available	20,835	41,795	57,448	65,300	68,609	70,716	73,998	983	44,426
Total disbursements	20,835	41,795	57,448	65,300	68,609	70,716	73,998	983	44,426
Current disbursements	19,583	40,084	54,725	62,615	66,044	68,007	71,163	983	42,829
Capital outlay	11,575	20,337	27,138	30,740	32,982	33,625	35,236	498	25,903
Maintenance and traffic services	4,720	11,445	16,032	18,152	18,969	19,723	20,536	160	8,421
Administration and research	1,275	3,022	4,033	4,973	5,124	5,306	5,639	325	3,069
Law enforcement and safety	1,303	3,824	5,334	5,962	6,142	6,409	6,896	-	3,606
Interest on debt	710	1,456	2,188	2,788	2,827	2,944	3,056	-	1,830
Debt retirement ³	1,252	1,711	2,723	2,685	2,565	2,709	2,835	-	1,597

- 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 1028 and 1029: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

No. 1030. Disbursements of State Highway Funds, by State: 1980 to 1988

[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	1988	STATE	1980	1985	1988	STATE	1980	1985	1988
U.S. . . .	30,049	40,891	47,164	KY	913	901	1,054	OH	1,032	1,622	1,745
AL	517	875	877	LA	682	879	808	OK	461	668	722
AK	274	383	408	ME	164	238	245	OR	482	492	625
AZ	365	778	1,166	MD	663	988	1,410	PA	1,557	2,340	2,786
AR	425	488	459	MA	704	786	(NA)	RI	72	139	204
CA	1,930	3,006	3,474	MI	997	1,275	1,380	SD	309	420	569
CO	411	563	654	MN	611	980	1,012	TN	151	211	224
CT	393	565	818	MS	468	845	503	TX	609	800	1,100
DE	152	234	355	MO	555	854	948	UT	1,862	1,825	3,071
DC	57	142	231	MT	224	286	239	VT	241	394	365
FL	1,261	1,647	2,094	NE	274	358	409	WA	894	1,165	1,762
GA	762	1,115	1,109	NV	169	241	287	WY	787	1,040	1,062
HI	134	137	196	NH	152	219	256		672	582	559
ID	153	229	263	NJ	682	1,229	1,553		468	669	864
IL	1,652	2,087	2,332	NY	197	364	462		192	298	239
IN	688	919	1,065	ND	1,650	2,022	2,360				
IA	504	746	766		807	966	1,207				
KS	440	506	528		143	199					

NA Not available.

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

No. 1031. Federal Grants to State and Local Governments for Highway Trust Fund and Urban Mass Transportation Administration (UMTA), by State: 1989

[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.	13,035	52.5	3,510	14.1	KS	152	60.3	5	1.9	ND	66	100.3	2	3.4
AL	288	69.9	15	3.6	KY	177	47.6	21	5.7	OH	429	39.4	100	9.2
AK	192	363.5	1	2.2	LA	245	55.9	40	9.1	OK	217	67.4	9	2.9
AZ	174	48.9	22	6.3	ME	58	47.3	4	3.6	OR	134	47.5	26	9.0
AR	108	44.8	6	2.6	MD	427	91.0	58	12.4	PA	814	67.6	202	16.8
CA	1,010	34.8	529	18.2	MI	236	39.9	142	24.0	RI	110	110.1	8	7.5
CO	203	61.3	31	9.3	MN	327	35.2	55	5.9	SC	184	52.3	11	3.1
CT	348	107.4	51	15.9	MS	290	66.5	33	7.5	SD	101	141.9	2	2.8
DE	44	65.6	9	13.0	MO	110	42.1	6	2.1	TN	190	38.6	22	4.5
DC	71	117.7	260	430.9	MT	228	44.2	56	10.9	TX	930	54.7	122	7.2
FL	550	43.4	77	6.1	NE	107	132.4	2	2.5	UT	176	103.1	9	5.4
GA	360	55.9	48	7.5	NV	110	68.6	6	3.7	VT	49	86.3	1	1.6
HI	75	67.6	14	13.0	NH	71	64.3	4	3.7	WA	382	62.6	36	5.9
ID	111	109.0	2	2.4	NJ	53	48.2	3	2.6	WV	356	74.8	115	24.2
IL	564	48.3	264	22.7	NY	371	48.0	171	22.1	WY	93	50.1	6	3.1
IN	234	41.9	25	4.5	NC	131	85.6	4	2.8		226	46.4	23	4.7
IA	192	67.5	9	3.3		617	34.4	820	45.7		83	174.1	2	3.5
						262	39.8	18	2.8					

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. 1032. State Gasoline Tax Rates, 1988 and 1989, and Motor Fuel Tax Receipts, 1988
[See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	RATE ¹ (cents/gal.)		Re- ceipts, ² 1988 (mil. dol.)	STATE	RATE ¹ (cents/gal.)		Re- ceipts, ² 1988 (mil. dol.)	STATE	RATE ¹ (cents/gal.)		Re- ceipts, ² 1988 (mil. dol.)
	1988	1989			1988	1989			1988	1989	
Total	21.85	(NA)	17,826	IA	20	20	292	NC	15.7	15.7	624
Federal	9.1	(NA)	(NA)	KS	11	11	168	ND	17	17	72
State	12.75	(NA)	(NA)	KY ⁸	15	15	339	OH	14.8	14.8	797
AL	513	513	337	LA	16	16	375	OK ⁷	16	16	309
AK	8	8	21	ME	17	16	112	OR	16	16	192
AZ	17	17	327	MD	18.5	18.5	456	PA	12	12	1,004
AR	13.5	13.5	204	MA	11	11	314	RI	15	15	67
CA	9	9	1,279	MI	15	15	687	SC	16	16	290
CO	18	18	305	MN	20	20	425	SD	18	18	72
CT	20	20	301	MS	18	18	262	TN ⁸	20	17	506
DE	16	16	62	MO	11	11	346	TX	15	15	1,464
DC	15.5	15.5	28	MT	20	20	103	UT	19	19	160
FL	9.7	9.7	655	NE	18.5	18.2	164	VT	15	13	44
GA	7.5	7.5	325	NV	18	18	128	VA ⁸	17.5	17.5	597
HI	11	11	42	NH	14	14	86	WA	18	18	441
ID	18	18	88	NJ	10.5	10.5	384	WV	15.5	10.5	111
IL	13	13	721	NM	14	14	134	WI	20.8	20.9	509
IN	15	15	537	NY	8	8	525	WY	8	8	37

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 Weighted average tax rate. ⁵ Includes 2 cents per gallon inspection fee. ⁶ 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. ⁷ .08 cents per gallon is for inspection fee. ⁸ Includes 1 cent per gallon inspection fee.

No. 1033. Public Highway Debt—State and Local Governments: 1970 to 1990

[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	1982	1983	1984	1985	1986	1987	1988 ¹	1989 ²	1990 ²
Total debt issued ³	1,886	2,094	2,915	2,568	3,151	6,074	6,296	3,802	4,261	5,096	4,595
State	1,305	1,128	1,555	1,072	1,715	3,404	3,846	1,927	2,384	3,096	2,500
County and township	174	276	415	475	524	1,387	1,200	451	567	650	580
Municipal	407	690	945	1,019	912	1,283	1,150	1,424	1,310	1,350	1,535
Total debt redeemed ⁴	1,252	1,706	2,046	2,172	2,411	2,737	3,132	2,685	2,735	3,471	2,835
State	782	1,022	1,146	1,191	1,507	1,580	1,875	1,625	1,398	2,063	1,587
County and township	152	209	225	303	216	378	432	349	353	375	396
Municipal	318	475	675	678	688	779	825	711	886	1,033	842
Total debt outstanding	19,107	25,851	26,830	27,224	27,964	31,301	34,465	36,565	38,091	39,716	41,476

¹ Preliminary. ² Projection. ³ Excludes refunding issues. ⁴ Excludes redemptions by refunding.Source of tables 1032 and 1033: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1034. Motor Vehicles—Summary: 1970 to 1989

ITEM	Unit	1970	1980	1984	1985	1986	1987	1988	1989
PASSENGER CARS									
Passenger car production	1,000	6,550	6,376	7,773	8,185	7,829	7,099	7,111	6,823
Passenger car factory sales	1,000	6,547	6,400	7,621	8,002	7,516	7,085	7,105	6,807
Passenger car (new), retail sales	1,000	8,405	8,979	10,390	11,042	11,460	10,277	10,626	9,898
Domestic	1,000	7,116	6,581	7,952	8,205	8,215	7,081	7,526	7,073
Subcompact	1,000	1,338	1,604	2,322	1,297	1,325	1,101	1,019	926
Compact	1,000	1,859	1,336	2,563	2,461	2,461	2,389	2,781	2,606
Standard	1,000	5,778	1,358	1,817	1,882	1,888	1,565	1,722	1,629
Intermediate	1,000	1,957	2,484	2,464	2,540	2,026	2,017	1,916	1,916
Imports	1,000	1,285	2,398	2,439	2,838	3,245	3,196	3,100	2,825
TRUCKS									
Truck and bus production	1,000	1,734	1,634	3,151	3,468	3,506	3,826	4,101	4,029
Truck and bus factory sales	1,000	1,692	1,667	3,075	3,357	3,393	3,821	4,121	4,062
Truck and bus retail sales	1,000	1,746	2,232	3,538	3,984	4,031	4,174	4,608	4,483
Light duty (up to 14,000 GVW)	1,000	(NA)	1,964	3,261	3,700	3,766	3,885	4,273	4,171
Med. duty (14,001-26,000 GVW)	1,000	(NA)	92	61	53	51	55	83	73
Heavy duty (over 26,000 GVW)	1,000	126	176	216	231	214	234	251	239
MOTORCYCLES									
Motorcycle registrations, new	1,000	751	838	772	722	631	550	410	294
Motorcycle (new) retail sales	1,000	1,010	1,070	1,305	1,260	1,045	970	710	(NA)
All-terrain vehicles	1,000	(NA)	(NA)	550	550	465	405	290	(NA)
All-terrain vehicle imports	1,000	(NA)	(NA)	635	683	498	317	209	121
Motorcycle imports, total	1,000	1,091	1,120	441	733	550	318	287	(NA)
Value	Mil. dol.	308	1,142	523	783	763	463	512	(NA)
FOREIGN TRADE									
Passenger cars (new), exported	1,000	285	617	616	704	673	633	781	778
Passenger cars (new), imported	1,000	2,013	3,116	3,559	4,398	4,691	4,589	4,450	4,043
Canada	1,000	693	595	1,073	1,145	1,162	927	1,191	1,151
Germany, Federal Republic of	1,000	675	339	335	473	452	378	264	217
Japan	1,000	381	1,992	1,949	2,527	2,619	2,418	2,123	2,052
Trucks (new) exports	1,000	91	166	159	183	205	222	230	189
Trucks (new) imports	1,000	166	747	1,025	1,253	1,351	1,177	938	953
Japan	1,000	27	483	567	800	976	772	542	420
Import value, new passenger cars	Mil. dol.	3,719	16,675	29,264	36,474	45,302	47,858	47,005	44,417
Trucks and buses, new	Mil. dol.	381	1,985	6,541	7,734	8,504	8,729	8,089	8,591
Export value	Mil. dol.	3,871	16,015	20,776	22,820	21,955	24,812	29,519	31,574
Passenger cars (new)	Mil. dol.	822	3,932	4,876	6,027	6,258	6,695	8,318	8,895
Trucks and buses (new)	Mil. dol.	636	2,977	2,479	2,789	2,953	3,375	3,683	3,471
Parts and accessories	Mil. dol.	2,413	9,106	13,421	14,004	12,744	14,742	17,518	19,208
VEHICLES IN USE AND RETIRED									
Cars in use, total	Million	80.4	104.6	112.0	114.7	117.3	119.8	121.5	122.8
Under 3 years	Million	24.4	26.8	22.0	24.8	27.9	28.1	27.8	27.1
3-5 years	Million	24.9	25.5	26.8	23.9	22.7	24.7	27.7	30.5
6-8 years	Million	18.4	25.2	26.8	27.8	26.5	24.4	21.6	20.7
9-11 years	Million	7.7	14.6	17.4	17.2	18.7	21.4	22.4	21.1
12 years and over	Million	4.9	12.5	19.0	21.0	21.5	21.2	22	23.4
Average age	Years	5.6	6.6	7.5	7.6	7.6	7.6	7.6	7.6
Cars retired from use	1,000	7,461	8,405	6,675	7,729	8,442	8,103	8,754	8,981
Trucks in use, total	Million	17.7	35.2	40.1	42.4	44.8	47.3	50.2	53.2
Under 3 years	Million	4.7	8.8	7.2	9.0	11.1	11.9	12.5	12.5
3-5 years	Million	4.3	8.1	8.0	6.3	6.6	8.3	10.3	12.6
6-8 years	Million	3.0	7.4	9.2	10.2	8.9	7.4	5.9	6.3
9-11 years	Million	1.9	4.4	6.2	6.2	6.7	8.0	8.9	7.9
12 years and over	Million	3.9	6.5	9.6	10.7	11.5	11.8	12.6	14.0
Average age	Years	7.3	7.1	8.2	8.1	8.0	8.0	7.9	7.9
Trucks retired from use	1,000	837	1,732	1,602	2,100	2,309	2,364	2,251	2,189
TIRES AND BATTERIES SHIPMENTS									
Tires, passenger car, total	Million	168.6	145.9	201.6	200.9	202.7	210.8	218.8	216.9
Radials	Million	2.9	83.5	156.6	164.7	174.0	187.3	200.2	202.4
Replacement	Million	129.6	106.9	144.6	141.5	144.3	151.9	155.3	153.3
Tires, truck and bus, total	Million	25.7	31.1	40.8	41.1	40.6	44.4	46.0	47.2
Radials	Million	(NA)	3.8	16.0	19.7	21.1	26.0	29.4	30.8
Replacement	Million	16.7	24.4	31.7	32.1	32.4	34.5	33.9	35.4
Batteries, total	Million	46.9	61.7	74.7	74.4	75.7	75.7	80.1	80.3
Replacement automobile batteries	Million	37.9	50.1	59.3	58.7	60.3	59.9	63.5	64.4

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 1990, 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, *New Motorcycle Registrations by States*, 1970-1986 excludes Oklahoma; 1984, excludes New York. Reproduction prohibited without Polk permission. ⁸ Estimates by Motorcycle Industry Council Inc., Irvine, CA. Includes all-terrain vehicles and scooters. Excludes mopeds/motorized bicycles. ⁹ 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). ¹⁰ Dutiable value for customs purposes prior to 1980 thereafter, c.i.f. value. ¹¹ 1970, covers assembled vehicles only. Beginning 1980, includes chassis. ¹² Includes other countries, not shown separately. ¹³ Covers assembled and unassembled vehicles. ¹⁴ Includes rubber tires and tubes and used vehicles. ¹⁵ For years ending June 30. Represents vehicles failing to re-register. ¹⁶ 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. 1035. Motor—Vehicle Registrations, 1980 to 1989, Vehicle—Miles of Travel, 1988, and Drivers Licenses, 1989 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					1988			Drivers licenses, 1989 est.	Motor-cycles ¹ (incl. official) 1989, est.
	1980	1985	1988	1989, est.		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)		
U.S.	155,796	171,654	184,397	188,669	144,375	3,871.1	2,025.6	523	164,912	4,376
AL.	2,938	3,338	3,881	4,075	3,065	90.4	39.7	439	2,114	48
AK.	282	353	362	367	233	12.2	3.8	311	302	8
AZ.	1,917	2,235	2,705	2,785	1,993	70.3	34.2	486	2,401	81
AR.	1,574	1,384	1,427	1,436	835	77.1	19.2	249	1,695	14
CA.	16,873	18,899	21,337	21,657	16,799	162.6	241.6	1,486	19,303	628
CO.	2,342	2,759	2,923	2,932	2,132	77.1	27.7	359	2,244	102
CT.	2,147	2,465	2,652	2,695	2,535	19.8	26.1	1,318	2,391	54
DE.	397	465	512	529	407	5.4	6.4	1,185	475	9
DC.	268	326	264	268	252	1.1	3.4	3,091	394	2
FL.	7,614	9,865	10,984	11,378	9,014	104.6	105.3	1,007	8,992	184
GA.	3,818	4,580	5,196	5,385	3,802	107.4	62.3	580	4,466	75
HI.	570	651	705	719	626	4.1	7.4	1,805	642	17
ID.	834	854	940	953	609	60.7	8.1	133	718	43
IL.	7,477	7,727	7,865	8,081	6,579	135.5	78.5	579	7,335	245
IN.	3,826	4,024	4,169	4,265	3,115	91.6	51.1	558	3,794	104
IA.	2,329	2,696	2,568	2,613	1,848	112.5	21.9	195	1,915	179
KS.	2,007	2,148	2,210	2,237	1,543	133.0	21.2	159	1,733	74
KY.	2,593	2,615	2,795	2,841	1,887	69.8	31.6	453	2,398	33
LA.	2,779	3,012	2,938	2,984	1,986	58.4	34.7	594	2,606	34
ME.	724	840	941	988	770	22.0	11.4	518	879	39
MD.	2,803	3,276	2,468	3,539	2,908	28.2	37.5	1,330	3,203	60
MA.	3,749	3,738	3,818	3,791	3,292	33.8	43.3	1,281	4,334	58
MI.	6,488	6,727	7,141	7,293	5,637	117.9	77.9	661	6,401	200
MN.	3,091	3,385	3,210	3,267	2,553	129.6	36.4	281	2,489	117
MS.	1,577	1,746	1,787	1,811	1,377	72.2	22.0	305	1,845	25
MO.	3,271	3,558	3,794	3,873	2,753	119.9	45.6	380	3,550	60
MT.	680	652	723	733	438	71.5	8.1	113	536	26
NE.	1,254	1,257	1,328	1,340	886	92.5	13.4	145	1,104	27
NV.	655	709	808	835	589	44.8	9.0	201	766	19
NH.	704	974	928	976	774	14.7	9.5	646	811	39
NJ.	4,761	4,909	5,738	5,894	5,384	34.2	58.7	1,716	5,522	97
NM.	1,068	1,176	1,267	1,247	773	53.9	15.3	284	1,058	34
NY.	8,002	9,042	9,838	10,184	8,861	110.6	103.7	938	10,255	208
NC.	4,532	4,450	5,023	5,201	3,698	93.8	57.9	617	4,510	56
ND.	627	655	655	662	388	86.3	5.8	67	432	23
OH.	7,771	8,102	8,612	8,820	7,129	113.3	82.0	724	7,393	244
OK.	2,583	2,864	2,554	2,581	1,682	111.4	32.4	291	2,254	62
OR.	2,081	2,204	2,316	2,367	1,815	93.6	25.2	269	2,196	70
PA.	6,926	7,209	7,766	7,922	6,354	116.1	81.2	699	7,779	177
RI.	623	610	671	687	566	5.8	5.9	1,017	684	23
SC.	1,996	2,222	2,414	2,474	1,849	63.7	31.8	499	2,349	28
SD.	601	650	693	707	420	73.4	6.6	90	483	30
TN.	3,271	3,754	4,225	4,382	3,509	83.6	44.2	529	3,241	53
TX.	10,475	12,444	12,406	12,565	8,523	300.4	156.5	521	11,114	197
UT.	992	1,099	1,159	1,188	807	42.9	13.3	310	990	27
VT.	347	398	453	473	347	14.1	5.6	397	411	18
VA.	3,626	4,253	4,670	4,729	3,637	66.9	57.5	859	4,204	61
WA.	3,225	3,526	3,887	4,075	2,883	81.5	41.8	513	3,243	130
WV.	1,320	1,143	1,287	1,321	932	34.6	13.9	402	1,313	17
WI.	2,941	3,187	3,901	4,043	3,290	109.8	42.5	388	3,288	197
WY.	467	500	482	491	291	40.5	5.7	141	357	20

¹ Excludes vehicles owned by military services.

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

No. 1036. Motor Vehicles—Registrations, Factory Sales, and Retail Sales: 1960 to 1989

[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	REGISTRATION ¹ (mil.)			Motor-cycle registrations ¹ (1,000)	FACTORY SALES (1,000)			RETAIL SALES (1,000)					
	Total cars, trucks, buses	Pas-senger cars ²	Trucks and buses		Total cars, trucks, buses	Pas-senger cars	Trucks and buses ³	Passenger cars			Trucks		
								Total	Do-mestic	Imports	Total	Do-mestic	Imports
1960	73.9	61.7	12.2	574	7,869	6,675	1,194	6,641	6,142	499	963	926	37
1965	90.4	75.3	15.1	1,382	11,057	9,306	1,752	9,332	8,763	569	1,553	1,539	14
1967	96.9	80.4	16.5	1,953	8,976	7,437	1,539	8,337	7,568	769	1,545	1,524	21
1968	100.9	83.6	17.3	2,089	10,718	8,822	1,896	9,656	8,625	1,031	1,831	1,807	24
1969	105.1	86.9	18.2	2,316	10,147	8,224	1,923	9,583	8,464	1,118	1,970	1,936	34
1970	108.4	89.2	19.2	2,824	8,239	6,547	1,692	8,405	7,119	1,285	1,811	1,746	65
1971	113.0	92.7	20.3	3,344	10,638	8,585	2,053	10,250	8,681	1,568	2,096	2,011	85
1972	118.8	97.1	21.7	3,760	11,271	8,824	2,447	10,950	9,327	1,623	2,629	2,486	143
1973	125.7	102.0	23.7	4,371	12,637	9,658	2,980	11,439	9,676	1,763	3,148	2,916	232
1974	129.9	104.8	25.1	4,966	10,059	7,331	2,727	8,867	7,454	1,413	2,688	2,512	176
1975	132.9	106.7	26.2	4,964	8,985	6,713	2,272	8,640	7,053	1,587	2,478	2,249	229
1976	138.5	110.2	28.4	4,933	11,480	8,500	2,979	10,110	8,611	1,498	3,181	2,944	237
1977	142.1	112.3	29.8	4,881	12,642	9,201	3,441	11,185	9,109	2,076	3,675	3,352	323
1978	148.4	116.6	31.8	4,868	12,871	9,165	3,706	11,312	9,312	2,000	4,109	3,773	336
1979	151.9	118.5	33.4	5,422	11,456	8,419	3,037	10,671	8,341	2,329	3,480	3,010	470
1980	155.8	121.6	34.2	5,694	8,067	6,400	1,667	8,979	6,581	2,398	2,487	2,001	486
1981	158.3	123.1	35.2	5,831	7,956	6,255	1,701	8,536	6,209	2,327	2,260	1,809	451
1982	159.6	123.7	35.9	5,754	6,855	5,049	1,906	7,982	5,759	2,223	2,560	2,146	414
1983	163.9	126.2	37.7	5,585	9,153	6,739	2,414	9,182	6,795	2,387	3,129	2,658	471
1984	166.2	128.1	38.1	5,480	10,696	7,621	3,075	10,391	7,952	2,439	4,093	3,475	618
1985	171.7	131.9	39.8	5,444	11,359	8,002	3,357	11,042	8,204	2,838	4,682	3,902	780
1986	176.2	135.4	40.8	5,262	10,909	7,516	3,393	11,480	8,215	3,245	4,863	3,921	942
1987	179.0	137.3	41.7	4,886	10,907	7,085	3,821	10,277	7,081	3,196	4,912	4,055	857
1988	184.4	141.3	43.1	4,584	11,225	7,105	4,121	10,626	7,526	3,100	5,149	4,508	641
1989	188.7	144.4	44.3	4,376	10,969	6,807	4,062	9,898	7,073	2,825	4,941	4,403	538

¹ Includes publicly owned vehicles. Excludes military services' vehicles. ² Includes taxis. ³ Includes standard equipment. ⁴ 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. 1037. Motor Vehicle Output and Trade in National Income Accounts: 1970 to 1989

[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	Export	Import		Total	Per-cent of GNP	Auto	Truck	Export	Import
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	2,809	104.2	4.0	73.9	30.3	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	2,895	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	66.9	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	116.5	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	4,516	182.6	4.0	119.3	63.3	11.1	58.3	3,845	156.4	4.1	102.3	54.1	9.3	45.5
1988	4,874	197.0	4.0	127.6	69.4	12.9	57.1	4,017	168.3	4.2	109.9	58.4	10.7	43.4
1989	5,201	200.9	3.9	131.3	69.6	13.6	54.7	4,118	166.9	4.1	110.4	56.5	10.8	40.9

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. 1038. New Trucks—Retail Sales, by Weight Class and Type: 1980 to 1989

WEIGHT CLASS AND TYPE	NUMBER (1,000)							PERCENT CHANGE			
	1980	1984	1985	1986	1987	1988	1989	1985-1986	1986-1987	1987-1988	1988-1989
Total	2,232	3,538	3,984	4,031	4,174	4,608	4,483	1.2	3.5	10.4	-2.7
Under 6,000 pounds	985	2,031	2,408	2,541	2,696	2,928	2,854	5.5	6.1	8.5	-2.4
Utility	51	370	429	387	403	445	447	-9.7	4.0	10.5	0.6
Pickup, car type	50	26	24	24	15	(2)	-	-1.5	-35.8	-96.9	-100.0
Pickup, conventional	545	632	644	582	586	593	600	-9.7	-2.8	4.8	1.2
Pickup, compact	254	613	696	757	861	901	840	8.9	13.7	4.7	-6.8
Domestic	26	560	625	679	795	848	811	8.5	17.2	6.7	-4.4
Import (U.S. manufactures)	229	53	70	79	66	53	29	11.9	-16.7	-18.8	-45.6
Van	79	121	115	112	89	47	43	-2.2	-20.5	-47.0	-8.5
Mini van (cargo)	(X)	24	103	110	101	105	97	6.6	-8.2	4.0	-7.8
Station wagon (truck chassis)	(X)	62	86	98	108	138	138	14.1	11.1	27.6	0.0
Mini passenger carrier	(X)	169	301	460	546	692	688	52.8	18.8	26.6	-0.5
6,000 to 10,000 pounds	975	1,224	1,280	1,214	1,175	1,333	1,297	-5.2	-3.2	13.4	-2.7
Utility	108	103	108	101	91	90	93	-6.4	-9.6	-1.2	3.0
Van	172	265	261	261	254	302	289	0.1	-2.8	19.0	-4.2
Pickup, conventional	546	573	628	582	569	666	663	-7.3	-2.2	17.0	-0.4
Station wagon (truck chassis)	39	86	95	98	91	104	100	4.1	-7.5	14.3	-4.2
10,001 pounds and over	271	283	295	276	302	349	331	-6.4	9.6	15.3	-5.0

. Represents zero. X Not applicable. Z Less than 500. ¹ Discontinued model. ² Includes vehicles not shown separately.

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

No. 1039. New Car Buyers—Characteristics, by Type of Vehicle Purchased: 1990

[In percent, except as indicated. Based on Newsweek's survey of 33,780 buyers of 1990 new cars. Forty-three percent of new car buyers responded]

CHARACTERISTIC	All cars	Domestic	Asian	European	CHARACTERISTIC	All cars	Domestic	Asian	European
Household income:					25-54 years	59	54	70	70
Less than \$35,000	31	34	27	7	55 years and over	33	38	20	27
\$35,000-\$49,999	22	22	22	10	Median (years)	44.6	47.6	40.3	42.9
\$50,000-\$74,999	22	22	23	20	Education:				
\$75,000 and over	24	22	28	63	High school or less	31	37	18	15
Mean (\$1,000)	62.6	59.5	65.5	116.4	Some college	27	27	28	19
Median (\$1,000)	48.1	46.2	50.9	96.0	College grad or more	39	34	51	65
Sex: Male	56	57	52	62	Occupation:				
Female	44	43	48	38	Prof./manager	64	61	68	84
Age: Under 25 years	8	7	10	3	Blue collar	15	18	11	5

Source: Newsweek, Inc., New York, NY, *1990 Buyers of New Cars*. (Copyright. All rights reserved. Reprinted by permission.)

No. 1040. Recreational Vehicles—Number and Retail Value of Shipments: 1970 to 1989

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
NUMBER (1,000)												
Total	380.3	339.6	181.4	239.1	258.0	358.0	398.2	359.2	379.5	400.2	427.3	395.7
Motorized homes	30.3	96.6	99.9	135.2	152.5	223.7	257.3	233.5	249.6	255.7	277.1	261.6
Travel trailers	138.0	150.6	52.0	63.8	65.5	90.0	92.4	82.9	86.0	92.8	96.9	90.3
Folding camping trailers	116.1	48.1	24.5	35.0	34.3	37.5	40.9	35.9	36.5	41.6	42.3	33.9
Truck campers	95.9	44.3	5.0	5.1	5.7	6.8	7.6	6.9	7.4	10.1	11.0	9.9
RETAIL VALUE (mil. dol.)												
Total	1,122	2,320	1,952	2,775	3,505	6,324	7,610	7,029	7,564	8,400	9,188	9,027
Motorized homes	318	1,251	1,381	2,019	2,701	5,099	6,282	5,724	6,155	6,826	7,543	7,420
Travel trailers	445	856	485	631	666	1,067	1,157	1,122	1,213	1,331	1,381	1,378
Folding camping trailers	175	101	69	105	110	122	145	137	144	167	175	147
Truck campers	183	112	17	20	28	36	46	46	53	76	88	81

Source: Recreation Vehicle Industry Association, Reston, VA, *RVs ... A Year-End Report/1989*. Data also in Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, MI, *Motor Vehicle Facts and Figures*, annual.

No. 1041. Motorcycles—Travel, Registration, and Fuel Consumption: 1970 to 1988

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988
Vehicle-miles of travel	Million	2,979	5,629	10,214	10,690	9,910	8,780	8,784	9,086	9,397	9,506	10,022
Number of registered vehicles	1,000	2,824	4,964	5,694	5,831	5,754	5,585	5,480	5,444	5,199	4,917	4,584
Average travel per vehicle	Miles	1,055	1,134	1,794	1,833	1,722	1,568	1,603	1,669	1,807	1,933	2,186
Fuel consumption, total	Mil. gal	59.6	112.6	204.3	213.8	198.2	175.2	175.7	181.7	187.9	190.1	200.4
Average per vehicle	Gallon	21	23	36	37	34	31	32	33	36	39	44

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

No. 1042. Motor Vehicle Accidents—Number and Deaths: 1970 to 1989[See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224-232]

ITEM	Unit	1970	1972 ¹	1980	1984	1985	1986	1987	1988	1989
Motor vehicle accidents ²	Million.	16.0	17.0	17.9	18.8	19.3	17.7	20.8	20.6	12.8
Cars	Million.	23.5	24.5	22.8	25.2	25.6	27.7	25.9	28.2	15.3
Trucks	Million.	3.2	3.5	5.5	6.3	6.1	6.1	6.0	6.8	6.5
Motorcycles	1,000	305	343	560	570	480	440	380	370	211
Motor vehicle deaths within 1 yr. ³	1,000	54.6	56.3	53.2	46.3	45.9	47.9	48.3	48.9	46.9
Noncollision accidents	1,000	15.4	15.8	14.7	12.7	12.6	13.1	5.2	5.2	4.9
Collision accidents:										
With other motor vehicles	1,000	23.2	23.9	23.0	20.0	19.9	20.8	20.7	20.3	19.9
With pedestrians	1,000	9.9	10.3	9.7	8.5	8.5	8.9	7.5	7.3	7.2
With fixed objects	1,000	3.8	3.9	3.7	3.2	3.2	3.3	13.2	14.0	13.1
Deaths within 30 days ⁴	1,000	52.6	54.6	51.1	44.3	43.8	46.1	46.4	47.1	45.6
Vehicle occupants	1,000	40.6	41.4	36.8	31.9	31.5	33.7	34.5	35.5	34.9
Pedestrians	1,000	9.0	9.2	8.1	7.0	6.8	6.8	6.7	6.9	6.6
Motorcyclists ⁵	1,000	2.3	3.0	5.1	4.6	4.6	4.6	4.0	3.7	3.1
Bicyclists	1,000	0.8	1.0	1.0	0.8	0.9	0.9	0.9	0.9	0.8
Traffic death rates: ^{4,6}										
Per 100,000 resident population	Rate	25.8	26.2	22.6	18.7	18.4	19.1	19.1	19.2	18.4
Per 100,000 registered vehicles	Rate	47.3	44.5	31.6	25.7	24.8	25.4	25.2	24.9	23.6
Per 100 million vehicle miles	Rate	4.7	4.3	3.3	2.6	2.5	2.5	2.4	2.3	2.2
Per 100,000 licensed drivers	Rate	47.2	46.1	35.2	28.5	27.9	28.9	28.7	28.9	27.6
* Motor vehicle accidents	1,000	22.1	24.9	24.1	30.9	32.5	33.3	33.9	34.2	34.4
Injuries	1,000	4,983	5,190	5,230	4,850	5,044	5,300	5,400	5,500	5,560
Economic loss ^{7,8}	Bil. dol.	23.5	28.7	57.1	69.0	76.0	80.0	85.0	89.0	93.9

NA Not available. ¹ Represents peak year for deaths from motor vehicle accidents. ² Covers 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. 1043. Motor Vehicle Deaths by State: 1985 to 1989**

[Includes both traffic and nontraffic motor-vehicle deaths. See source for definitions]

STATE	1985	1987	1988	1989	MILEAGE RATE ¹		STATE	1985	1987	1988	1989	MILEAGE RATE ¹	
					1985	1989						1985	1989
U.S.	45,901	48,290	48,900	46,900	2.6	2.3	MO	1,005	1,117	1,103	1,052	2.6	2.3
AL	1,005	1,194	1,023	1,025	2.9	2.4	MT	233	244	198	181	3.1	2.2
AK	124	85	97	84	3.2	2.3	NE	259	310	261	296	2.1	2.2
AZ	942	1,006	944	884	4.4	2.6	NV	297	318	286	307	3.9	3.3
AR	580	669	610	648	3.4	3.3	NH	198	178	168	190	2.6	2.0
CA	5,294	5,745	5,381	5,105	2.6	2.1	NJ	986	1,040	1,051	890	1.9	1.5
CO	628	634	497	522	2.4	1.9	NM	561	591	487	538	4.2	3.5
CT	449	448	486	406	2.0	1.6	NY	2,121	2,430	2,237	2,239	2.3	2.1
DE	119	152	165	118	2.2	1.8	NC	1,553	1,668	1,587	1,464	3.1	2.5
DC	96	115	63	75	3.0	2.2	ND	117	114	104	81	2.2	1.4
FL	2,968	2,957	3,090	3,016	3.4	2.8	OH	1,581	1,757	1,748	1,700	2.1	2.1
GA	1,462	1,696	1,660	1,632	2.7	2.5	OK	781	622	641	655	2.5	2.0
HI	134	144	149	147	2.0	1.9	OR	605	663	677	630	2.8	2.5
ID	288	274	257	238	3.5	2.8	PA	1,817	2,078	1,932	1,877	2.4	2.3
IL	1,594	1,696	1,862	1,748	2.3	2.2	RI	124	142	125	100	2.1	1.7
IN	1,045	1,131	1,104	973	2.6	1.9	SC	943	1,076	1,033	996	3.5	3.2
IA	478	503	556	511	2.4	2.3	SD	142	150	147	151	2.3	2.3
KS	500	512	483	426	2.6	2.1	TN	1,219	1,408	1,266	1,081	3.4	2.3
KY	749	864	840	782	2.6	2.4	TX	3,825	3,338	3,395	3,361	2.7	2.2
LA	1,011	871	923	857	3.0	2.4	UT	335	320	297	303	2.8	2.4
ME	224	240	256	190	2.4	1.7	VT	117	125	128	116	2.5	2.1
MD	766	831	794	750	2.3	2.0	VA	1,021	1,068	1,069	999	2.1	1.7
MA	761	723	726	700	1.9	1.7	WA	786	840	785	781	2.3	1.8
MI	1,605	1,660	1,704	1,633	2.4	2.1	WV	461	504	460	468	3.6	3.3
MN	857	575	615	605	2.0	1.6	WI	777	823	813	817	2.1	1.9
MS	691	802	720	728	3.6	3.3	WY	145	136	155	127	2.7	2.3

¹ Deaths per 100 million vehicle miles.Source: National Safety Council, Chicago, IL, *Accident Facts*, 1990. (Copyright.)

No. 1044. Fatal Motor-Vehicle Accidents, by Type of Vehicle: 1980 to 1988

[Based on data from the Fatal Accident Reporting System]

TYPE OF VEHICLE	ACCIDENTS ¹						OCCUPANT FATALITIES					
	1980	1984	1985	1986	1987	1988	1980	1984	1985	1986	1987	1988
Total ²	45,284	38,831	39,195	41,090	41,438	42,130	41,927	36,284	36,043	38,229	38,565	39,170
Passenger cars ³	31,550	27,745	27,142	28,752	28,945	29,534	27,449	23,621	23,214	24,947	25,132	25,808
Mini-compact	3,263	4,001	3,973	4,346	4,508	4,445	2,986	3,470	3,429	3,647	3,753	3,794
Subcompact	4,875	5,275	5,445	6,006	6,431	6,137	4,158	4,346	4,422	4,770	5,007	4,945
Compact	1,118	2,670	3,445	4,374	5,422	6,122	927	2,081	2,635	3,312	3,943	4,764
Intermediate	5,224	5,976	6,084	6,555	7,166	6,941	3,878	4,287	4,391	4,763	4,917	5,016
Full size	7,026	5,199	4,906	5,094	4,858	4,490	4,831	3,269	2,974	3,191	2,937	2,840
Largest size	10,817	7,334	6,452	6,339	5,934	5,095	6,746	4,160	3,612	3,662	3,160	2,904
Unknown	5,134	2,905	2,699	2,053	2,261	2,378	3,943	2,008	1,751	1,602	1,415	1,515
Motorcycles	4,879	4,378	4,342	4,209	3,781	3,480	4,961	4,431	4,417	4,309	3,834	3,492
Moped, mini bike	180	172	151	250	201	164	183	177	147	257	202	170
Light trucks ²	10,841	10,255	10,470	11,179	12,004	12,626	6,566	5,773	5,834	6,390	7,008	7,266
Pickup	8,796	8,285	8,375	8,526	8,904	9,629	5,463	4,873	4,886	5,090	5,502	5,880
Van	2,009	1,737	1,807	1,952	2,253	2,378	1,000	764	791	879	1,025	1,001
Medium trucks	1,076	680	654	661	707	683	285	153	157	145	125	125
Heavy trucks	4,036	4,185	4,217	4,152	4,253	4,253	976	920	814	781	724	786
Single-unit ⁴	377	271	370	305	396	406	89	83	48	42	57	68
Two-unit ⁵	3,396	3,359	3,411	3,351	3,126	3,256	812	758	692	689	625	607
Multi-unit	148	188	182	179	216	253	41	37	31	50	42	43
Buses	329	302	304	282	353	284	46	45	55	39	51	54

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.

Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System*, annual.

No. 1045. Highway Mileage, Vehicle Miles of Travel, Accidents, and Fatalities, 1975 to 1988, and by Type of Highway System, 1988

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
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	39,188	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
1988, total	3,871	2,026	1,430	42,119	2.08	2,302	114	47,093	2.32
Urban	739	1,208	4,463	17,843	1.48	1,593	132	19,400	1.61
Rural	3,132	818	713	24,276	2.97	710	87	27,693	3.39
Interstate	45	440	26,934	4,506	1.02	162	37	5,127	1.17
Urban	11	259	62,399	2,113	0.82	117	45	2,301	0.89
Rural	33	181	14,873	2,393	1.32	45	25	2,826	1.56
Noninterstate	3,827	1,586	1,132	37,613	2.37	2,140	135	41,966	2.65
Urban	728	949	3,562	15,730	1.66	1,476	155	17,099	1.80
Rural	3,098	636	561	21,883	3.44	664	104	24,867	3.91
Federal-aid highway system	851	1,641	5,269	31,731	1.93	1,529	93	35,624	2.17
Urban	192	975	13,903	14,143	1.45	1,103	113	15,279	1.57
Rural	659	665	2,757	17,558	2.64	427	64	20,345	3.06
Interstate	45	440	26,934	4,506	1.02	162	37	5,127	1.17
Other primary arterial	259	581	6,123	13,125	2.26	506	87	15,000	2.58
Urban	33	272	22,302	3,959	1.45	292	107	4,252	1.56
Rural	226	308	3,733	9,166	2.97	214	69	10,748	3.48
Urban (arterial and collector)	147	445	8,263	8,071	1.82	694	156	8,726	1.96
Secondary (collector)	400	175	1,198	6,029	3.44	167	95	6,771	3.86
Non-Federal-aid highway system	3,020	385	348	10,388	2.70	773	201	11,469	2.96
Urban	548	233	1,160	3,700	1.59	490	211	4,121	1.77
Rural	2,473	152	168	6,688	4.39	283	186	7,348	4.82
Collector	353	80	618	2,281	2.86	91	114	2,527	3.17
Urban	22	25	3,023	289	1.17	19	77	313	1.27
Rural	330	55	456	1,992	3.62	72	130	2,214	4.02
Local	2,657	276	284	7,590	2.75	649	235	8,348	3.03
Urban	517	182	962	3,157	1.73	451	248	3,509	1.93
Rural	2,140	94	120	4,433	4.73	198	212	4,839	5.16

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. 1046. Motor Vehicle Safety Defect Recalls, by Domestic and Foreign Manufacturers: 1980 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Motor vehicles:											
Total recall campaigns ¹	Number	167	156	135	140	164	173	174	199	197	237
Domestic	Number	129	128	107	110	127	137	139	150	152	182
Foreign	Number	38	28	28	30	37	36	35	49	45	55
Total vehicles recalled	1,000	4,863	9,405	1,914	6,114	7,220	5,629	2,880	9,091	4,486	7,033
Domestic	1,000	3,939	7,379	1,401	3,090	6,283	4,995	1,731	7,297	3,171	6,070
Vehicles recalled by 4 leading auto manufacturers	1,000	3,730	7,247	1,324	3,021	6,148	4,811	1,382	6,945	² 2,900	5,842
Foreign	1,000	924	2,026	513	3,024	937	634	1,149	1,793	1,315	963
Motor vehicle tires:											
Recall campaigns ¹	Number	24	25	17	21	16	19	14	16	12	11
Tires recalled	1,000	7,070	125	131	95	81	28	164	43	214	115

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. 1047. 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	946	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	1,158	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	6.8	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. 1048. Licensed Drivers, Fatal Motor-Vehicle Accidents, and Alcohol Involvement, by Age of Driver: 1989

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	164,912	4,146	12,248	10,859	41,089	34,126	22,477	18,897	21,070
Percent distribution	Percent	100.0	2.5	7.4	6.6	24.9	20.7	13.6	11.5	12.8
Licensed drivers involved in fatal accidents	Number	60,398	2,900	8,537	5,709	15,919	10,100	6,031	4,200	5,426
Percent distribution	Percent	100.0	4.8	14.1	9.5	26.4	16.7	10.0	7.0	9.0
Drinking drivers involved in fatal accidents	Number	19,256	568	3,210	2,567	6,400	3,161	1,442	762	548
Percent distribution	Percent	100.0	2.9	16.7	13.3	33.2	16.4	7.5	4.0	2.8

¹ Source: U.S. Federal Highway Administration, *Selected Highway Statistics and Charts*, annual.

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

No. 1049. Seat Belt Usage—Young Child Survivors and Fatalities: 1985 to 1989

[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: 1985	240	135	8	97	59.6	56.3	3.3	130	34	2	94
1988	350	229	7	114	67.4	65.5	1.9	186	67	3	116
1989	327	217	7	104	88.3	86.3	2.0	185	55	3	127
1 year old: 1985	339	171	12	156	54.0	50.4	3.5	93	24	4	65
1988	403	216	34	153	62.2	53.7	8.5	119	30	7	82
1989	466	264	37	165	64.6	56.7	7.9	131	37	2	91
2 years old: 1985	420	101	45	274	34.8	24.0	10.7	129	26	15	88
1988	489	176	73	240	50.8	36.0	14.8	132	22	19	91
1989	485	144	74	267	45.1	29.8	15.3	145	21	17	107
3 years old: 1985	414	79	66	269	35.0	19.1	15.9	104	11	1	92
1988	509	89	125	295	42.2	17.6	24.6	138	12	17	108
1989	502	76	149	277	44.8	15.1	29.7	130	17	23	90
4 years old: 1985	374	42	64	268	28.3	11.2	17.1	98	6	10	82
1988	437	44	148	247	43.5	10.1	33.4	117	4	21	92
1989	513	32	165	316	38.5	6.3	32.2	131	9	28	94

Source: U.S. National Highway Traffic Safety Administration, *Lives Saved by Child Restraints from 1982 through December 1988; and unpublished data from the Fatal Accident Reporting.*

No. 1050. Cost of Owning and Operating an Automobile: 1975 to 1989

ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989
Cost per mile ¹	Cents	18.31	27.95	31.32	27.20	29.59	32.64	33.40	38.20
Cost per 10,000 miles	Dollars	1,831	2,795	3,132	2,720	2,959	3,264	3,341	3,820
Variable cost	Cents/mile	6.45	7.62	7.86	8.04	6.52	7.20	7.60	7.90
Gas and oil	Cents/mile	4.82	5.86	6.19	6.16	4.48	4.80	5.20	5.20
Maintenance	Cents/mile	0.97	1.12	1.04	1.23	1.37	1.60	1.60	1.90
Tires	Cents/mile	0.66	0.64	0.63	0.65	0.67	0.80	0.80	0.80
Fixed cost	Dollars	1,186	2,033	2,346	2,441	2,596	2,782	3,061	3,534
Insurance	Dollars	383	490	505	503	509	535	573	663
License and registration	Dollars	30	82	106	115	130	140	139	151
Depreciation	Dollars	773	1,038	1,207	1,253	1,320	1,506	1,784	2,094
Finance charge	Dollars	(NA)	423	528	570	637	601	565	626

NA Not available. ¹ Beginning 1985, not comparable to previous data.

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

No. 1051. New Car Prices and Consumer Expenditures per New Car: 1970 to 1989

[In dollars, except as indicated]

YEAR	CONSUMER EXPENDITURE PER NEW CAR ¹			ESTIMATED AVG. NEW CAR PRICE FOR A 1967 "COMPARABLE CAR" ²		WEEKS OF MEDIAN FAMILY INCOME TO EQUAL		
	Domestic	Import	Average	With added safety and emissions equipment ³	Without added safety and emissions equipment ⁴	Average new car expend. ⁵	Cost of comparable car	
							With added safety and emissions equipment ⁶	Without added safety and emissions equipment ⁷
1970	3,708	2,648	3,542	3,601	3,459	18.7	19.0	18.2
1975	5,084	4,384	4,950	4,866	4,103	18.8	17.8	15.6
1980	7,608	7,482	7,574	6,863	5,764	18.7	17.0	14.3
1985	11,733	12,875	12,022	8,964	6,958	23.0	17.2	13.3
1988	14,019	15,620	14,485	9,995	7,668	24.3	16.8	12.9
1989	14,939	16,563	15,403	10,248	7,825	24.7	16.4	12.5

¹ Average transaction price per new car. ² 1967 "average consumer expenditures per new car" plus the value of added safety and emissions equipment, all inflated to current dollars. ³ 1967 average consumer expenditure per new car inflated to current dollars. ⁴ Average consumer expenditures divided by annual median family income multiplied by 52 weeks. ⁵ Estimated average new car price of comparable cars with new safety equipment added, divided by annual median family income, multiplied by 52 weeks. This index is a good reflection of price as seen by the car purchasers who would not otherwise buy safety/emissions equipment. ⁶ Estimated average new car price of comparable cars without new safety and emissions equipment divided by annual median family income, multiplied by 52 weeks. This index is a good reflection of price as seen by purchasers who place full value on new safety/emissions equipment.

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

No. 1052. Domestic Motor Fuel Consumption, by Type of Vehicle: 1970 to 1988

[Comprises all fuel types 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					AVG. FUEL CONSUMPTION PER VEHICLE (gal.)			AVG. MILES PER GALLON		
	All vehicles (bil. gal.)	Avg. annual percent change	Cars ² (bil. gal.)	Buses ³ (bil. gal.)	Trucks ⁴ (bil. gal.)	Cars ²	Buses ³	Trucks ⁴	Cars ²	Buses ³	Trucks ⁴
1970	92.3	5.4	67.8	0.8	23.6	760	2,172	1,257	13.52	5.54	7.85
1975	109.0	2.5	76.4	1.1	31.4	716	2,279	1,217	13.52	5.75	8.99
1980	115.0	-5.9	71.9	1.0	41.9	591	1,926	1,243	15.46	5.95	9.54
1981	114.5	-0.4	71.0	1.1	42.2	576	1,938	1,219	15.94	5.92	9.59
1982	113.4	-0.9	70.1	1.0	42.1	566	1,756	1,191	16.65	5.93	9.80
1983	116.1	2.4	69.9	0.9	45.1	553	1,507	1,229	17.14	5.92	9.77
1984	118.7	2.3	68.7	0.8	49.0	538	1,359	1,308	17.83	5.85	9.83
1985	121.3	2.2	69.3	0.8	51.0	525	1,407	1,302	18.20	5.84	9.79
1986	125.2	3.2	71.4	0.9	52.9	528	1,463	1,320	18.27	5.84	9.81
1987	127.5	1.8	70.6	0.9	55.8	514	1,500	1,357	19.20	5.89	9.87
1988	129.9	1.9	71.7	0.9	57.1	507	1,494	1,343	19.95	5.94	10.17

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. 1053. Household Motor Vehicle Transportation, by Vehicle Model Year: 1989

[Preliminary. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1988 is all households which owned a vehicle at any time during 1988. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability. For composition of regions, see fig. 1, inside front cover]

HOUSEHOLD CHARACTERISTICS	Households with motor vehicles (mil.)	VEHICLES (millions)					MILES PER GALLON				
		Total	Model year				Average	Model year			
			1974 and earlier	1975 to 1980	1981 to 1985	1986 to 1989		1976 and earlier	1981 or 1982	1986	1988 or 1989
Total	81.3	147.5	13	29	35	23	18.3	12.3	20.7	21.9	22.1
Northeast	15.2	26.6	8	24	40	28	19.6	12.2	21.8	22.3	21.5
Midwest	20.4	37.8	11	32	35	22	18.2	12.2	20.7	21.5	23.0
South	28.3	50.6	12	29	34	24	18.0	12.0	19.7	21.8	21.9
West	17.3	32.5	21	29	30	20	18.0	12.7	21.5	22.3	22.3

Source: U.S. Energy Information Administration, *Household Vehicles Energy Consumption, 1988*

No. 1054. Household Vehicles—Annual Mileage, Fuel Consumption, and Fuel Expenditures: 1988

[See headnote, table 1053]

HOUSEHOLD AND VEHICLE CHARACTERISTICS	NUMBER OF—			MILES DRIVEN		GALLONS CONSUMED		FUEL EXPENDITURES	
	Households ¹ (millions)	Vehicles (millions)	Vehicles per household	Total (billion)	Percent	Total (billion)	Percent	Total (bil. dol.)	Percent
Total	81.3	147.5	1.8	1,511	100.0	82.4	100.0	81.1	100.0
Metropolitan status:									
Metropolitan	63.0	113.9	1.8	1,171	77.5	62.6	76.0	61.9	76.3
Nonmetropolitan	18.3	33.6	1.8	341	22.5	19.8	24.0	19.2	23.7
Origin of householder: White	71.5	132.2	1.8	1,346	89.0	73.5	89.2	72.3	89.1
Black	7.2	10.6	1.5	115	7.6	6.2	7.5	6.2	7.6
Other	2.6	4.7	1.8	51	3.4	2.8	3.3	2.7	3.3
Family income 1988:									
Less than \$10,000	10.2	13.3	1.3	111	7.4	6.6	8.0	6.4	7.9
\$10,000-\$14,999	11.8	17.0	1.4	153	10.2	9.0	10.9	8.8	10.8
\$15,000-\$19,999	8.3	13.3	1.6	132	8.7	7.3	8.9	7.2	8.9
\$20,000-\$24,999	8.6	15.1	1.7	154	10.2	8.5	10.3	8.3	10.3
\$25,000-\$34,999	16.0	29.2	1.8	297	19.7	16.4	19.9	16.1	19.9
\$35,000-\$49,999	12.9	28.3	2.2	313	20.7	16.5	20.0	16.3	20.1
\$50,000-\$74,999	8.8	20.5	2.3	226	15.0	11.8	14.3	11.6	14.3
\$75,000 or more	4.5	10.8	2.4	124	8.2	6.3	7.7	6.3	7.8

¹ Includes only households with vehicles.

Source: U.S. Energy Information Administration, *Household Vehicles Energy Consumption 1988*.

No. 1055. Motor Vehicle Travel, by Type of Vehicle, and by Speed: 1970 to 1988

[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 mph	60 mph	65 mph
1970	1,110	920	4.5	186	10	12	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
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	7,856	59.1	74	41	15
1984	1,720	1,234	4.6	482	9.2	8	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	8,549	59.7	76	46	18
1987	1,921	1,365	5.3	551	9.9	8.8	13.4	7,992	59.7	74	46	19
1988	2,025	1,439	5.5	581	10.1	8.9	13.6	7,566	59.5	74	46	19

¹ Includes motorcycles. ² Represents speed on rural interstate highways. Beginning 1980, 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. 1056. Passenger Transit Industry—Summary: 1980 to 1989

[Includes Puerto Rico. Includes aggregate information for all transit systems in the United States. Except as noted, prior-to-1984 data exclude commuter railroad, automated guideway, urban ferry boat, and demand response, as well as most transit systems outside of urbanized areas. Data are noncontinuous between 1983 and 1984. Non-transit services such as taxicab, school bus, unregulated jitney, sightseeing bus, intercity bus, and special application mass transportation systems (e.g., amusement parks, airports, island, and urban park ferries) are excluded. Beginning in 1984, only active vehicles are counted]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988, prel	1989, prel
Operating systems	Number	1,044	1,036	1,036	4,938	4,972	5,018	5,047	5,036	5,046
Motorbus systems	Number	1,040	1,031	1,031	2,604	2,631	2,655	2,671	(NA)	(NA)
Publicly owned systems	Number	576	581	599	(NA)	1,435	(NA)	(NA)	(NA)	(NA)
Passenger vehicles owned ^{2,3}	Number	75,388	78,205	78,106	95,603	88,691	95,965	94,910	96,490	96,726
Motorbus ⁴	Number	59,411	62,114	62,093	63,497	57,285	61,586	59,689	60,388	60,250
Trolley bus	Number	823	763	686	664	676	680	671	710	725
Heavy rail ²	Number	9,641	9,815	9,891	9,083	9,326	10,386	10,168	10,539	10,506
Light rail ²	Number	1,013	1,016	1,013	733	699	697	766	831	755
Commuter rail	Number	4,500	4,497	4,423	4,075	4,035	4,440	4,686	4,649	4,472
Demand response	Number	(NA)	(NA)	(NA)	16,471	15,545	17,063	18,089	18,190	18,942
Total revenue	Mil. dol	6,510	8,044	8,526	11,623	12,195	13,147	14,172	15,415	14,788
Passenger revenue	Mil. dol	2,557	3,077	3,172	4,448	4,575	5,011	5,145	5,505	5,468
Other operating revenue ⁴	Mil. dol	248	380	333	781	702	744	786	857	829
Operating assistance	Mil. dol	3,705	4,587	5,022	6,395	6,918	7,393	8,242	9,054	8,490
Federal	Mil. dol	1,094	1,005	827	996	940	912	955	950	868
State and local	Mil. dol	2,611	3,582	4,195	5,399	5,979	6,481	7,286	8,104	7,623
Total expense	Mil. dol	6,711	8,314	8,736	12,957	14,077	15,248	16,185	17,272	17,970
Operating expense	Mil. dol	6,247	7,553	7,956	11,574	12,381	13,410	14,154	15,009	15,691
Transportation	Mil. dol	3,248	3,882	3,931	5,142	5,655	5,874	6,162	6,404	6,755
Maintenance	Mil. dol	1,774	2,168	2,392	3,062	3,972	4,238	4,278	4,564	4,693
Administration	Mil. dol	1,224	1,503	1,634	3,370	3,054	3,298	3,714	4,041	4,223
Reconciling expense	Mil. dol	464	761	780	1,383	1,696	1,837	2,031	2,263	2,299
Capital expenditure, Federal	Mil. dol	2,787	2,544	3,162	2,876	2,510	3,137	2,476	(NA)	(NA)
Vehicle-miles operated	Million	2,287	2,319	2,306	2,750	2,791	2,916	3,113	3,020	3,260
Motorbus	Million	1,677	1,669	1,678	1,845	1,863	1,897	2,076	1,866	2,113
Trolley bus	Million	13	14	15	15	16	15	15	15	15
Heavy rail	Million	385	429	408	436	451	476	490	518	532
Light rail	Million	18	16	16	17	17	17	18	21	21
Commuter rail	Million	179	175	177	168	183	189	189	201	210
Demand response	Million	(NA)	(NA)	(NA)	256	247	307	311	382	349
Passengers carried ⁵	Million	8,567	8,052	8,203	8,851	8,659	8,802	8,806	8,893	9,082
Motorbus	Million	5,837	5,324	5,422	5,908	5,675	5,742	5,647	5,807	5,734
Trolley bus	Million	142	151	160	165	142	139	141	136	130
Heavy rail	Million	2,108	2,115	2,167	2,231	2,290	2,333	2,402	2,308	2,542
Light rail	Million	133	136	137	157	132	130	133	154	163
Commuter rail	Million	280	259	262	267	275	306	311	325	330
Demand response	Million	(NA)	(NA)	(NA)	62	59	75	79	82	77
Avg. revenue per passenger	Cents	31.0	39.7	40.2	50.3	52.8	56.9	59.0	62.1	(NA)
Employees, number (avg.)	1,000	187	194	195	263	270	272	283	271	285
Payroll, employee	Mil. dol	3,281	3,731	3,921	5,488	5,843	6,343	6,651	7,075	7,288

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. Includes other vehicles not shown separately. ³ Includes other not shown separately. ⁴ Includes other operating revenue, non-operating revenue, and auxiliary income.

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

No. 1057. Class I Intercity Motor Carriers of Passengers: 1970 to 1988

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988
Carriers reporting ¹	Number.	71	77	48	45	50	45	43	43	29	32	21
Number of employees, average	1,000	34	31	31	31	30	25	25	24	20	(NA)	(NA)
Compensation of employees	Mil. dol	317	383	599	630	646	570	551	518	443	(NA)	(NA)
Operating revenue	Mil. dol	722	942	1,397	1,453	1,447	1,276	1,255	1,233	1,117	1,079	1,122
Passenger revenue	Mil. dol	524	651	947	993	969	876	861	836	765	751	825
Special bus revenue and other	Mil. dol	198	291	215	202	229	180	180	184	155	165	155
Operating expenses	Mil. dol	639	880	1,318	1,381	1,416	1,263	1,254	1,168	1,082	1,081	1,059
Net operating revenue	Mil. dol	83	61	79	72	30	7	1	65	35	-2	63
Ordinary income:												
Before income taxes	Mil. dol	88	83	107	88	35	16	53	65	50	-11	(NA)
After income taxes	Mil. dol	52	56	90	61	37	26	43	53	36	-21	(NA)
Passenger vehicles in service	1,000	13.3	9.7	8.6	8.4	8.1	7.3	7.0	6.4	8.3	(NA)	(NA)
Vehicle-miles, passenger	Million	871	835	781	732	717	591	585	567	493	(NA)	(NA)
Revenue passengers carried	Million	174	147	134	114	112	94	89	88	74	82	55
Expense per vehicle-mile	Dollar	0.73	1.05	1.69	1.89	1.98	2.17	2.14	2.06	2.18	(NA)	(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. 1058. 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)	1,000	267	274	280	279	276	273	270	266	263	257	249
Employees (Dec. 31)	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	25.2	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	1,811	1,982	2,013	1,938	1,896	1,839	1,781	1,669
Net operating revenue ³	Mil. dol	89	69	92	132	115	57	15	18	59	57	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. 1059. Warehousing Services—Revenues, Expenses, and Payroll: 1985 to 1988

[In millions of dollars]

SIC ¹ code	KIND OF BUSINESS	OPERATING REVENUES		OPERATING EXPENSES		ANNUAL PAYROLL	
		1985	1988	1985	1988	1985	1988
42	Motor frgt transport and warehousing srvs ²	86,842	106,745	82,855	101,460	26,973	32,377
421	Trucking, local and long distance	82,212	101,042	78,819	96,443	25,576	30,710
422	Public warehousing	4,415	5,498	3,847	4,836	1,322	1,510
4221	Farm product warehousing and storage	518	637	457	546	(D)	(D)
4222	Refrigerated warehousing	1,007	1,246	872	1,069	313	362
4224	Household goods warehousing, storage	233	259	200	209	53	66

D Data do not meet publication standards because of high sampling error or high imputation rate. ¹ Standard Industrial Classification. ² Includes SIC 4231 and 4225,6 not shown separately.

Source: U.S. Bureau of the Census, *Current Business Reports*, 1988 *Motor Freight Transportation and Warehousing Survey*

No. 1060. Trucking Costs and Rates for Fresh Fruit and Vegetables: 1980 to 1989

[Dollars per box, except as indicated]

SELECTED ITEMS	1980	1982	1983	1984	1985	1986	1987	1988	1989
Truck costs for fleet operators ¹ (dollars per mile)	0.97	1.11	1.13	1.15	1.17	1.14	1.17	1.18	1.23
Truck rates by commodity and origin/destination: ²									
Lettuce ³ , California to New York City	3.36	3.62	3.62	3.65	3.62	3.75	3.83	3.69	3.76
Citrus and vegetables, Southern California to New York City	2.77	2.91	2.98	3.18	3.06	3.16	3.23	3.14	3.2
Apples, Washington to New York City	3.09	3.20	3.41	3.19	3.20	3.21	3.28	3.30	3.31

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*, 1989.

No. 1061. Trucking Services—Operating Revenues, Operating Expenses, and Equipment, by Type of Carrier: 1985 to 1988

[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	1987	1988	1985	1987	1988	1985	1987	1988
Operating revenues:									
Total	76,996	86,801	94,265	25,531	29,308	31,373	51,465	57,493	62,892
Motor carrier	82,212	92,494	101,042	28,807	33,202	35,807	53,405	59,293	65,235
Local trucking	76,996	86,801	94,265	25,531	29,308	31,373	51,465	57,493	62,892
Intercity trucking	16,809	18,603	20,476	8,598	10,854	11,129	8,011	7,749	9,347
Intercity trucking	60,387	68,198	73,789	16,933	18,454	20,244	43,454	49,744	53,545
Operating expenses:									
Total	78,819	88,142	96,443	27,348	31,438	33,551	51,471	56,703	62,892
Annual payroll	25,578	28,257	30,710	7,274	8,089	8,690	18,303	20,168	22,020
Employer contributions to Social Security and other supplemental labor benefits	5,851	6,480	7,167	1,367	1,582	1,702	4,484	4,898	5,465
Purchased fuels	6,414	5,676	6,172	2,059	1,894	2,039	4,354	3,782	4,133
Cost of purchased transportation	(NA)	19,901	21,893	(NA)	8,448	9,060	(NA)	11,454	12,833
Lease and rental payments	1,235	1,679	1,882	474	735	794	761	945	1,088
Cost of insurance	(NA)	3,513	3,945	(NA)	1,454	1,444	(NA)	2,059	2,501
Maintenance and repair costs	(NA)	4,728	5,198	(NA)	1,901	1,972	(NA)	2,827	3,226
Depreciation	3,941	4,585	5,012	1,500	1,821	1,884	2,441	2,764	3,128
Taxes and licenses	1,832	1,867	2,013	582	699	668	1,250	1,169	1,345
Other	(NA)	11,455	12,451	(NA)	4,817	5,298	(NA)	6,638	7,153
Equipment (1,000 units): ²									
Trucks	216	226	241	(S)	89	103	(S)	137	138
Truck-tractors	469	502	553	167	167	190	302	334	363
Trailers, full and semi	1,011	1,081	1,151	246	290	278	765	791	873

NA Not available. S Data do not meet publication standards.

¹ Includes other revenues not shown separately.

² Represents 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. 1062. Class I Intercity Motor Carriers of Property, by Carrier: 1975 to 1988

[See headnote, table 1057. 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	1988	1975	1980	1985	1988
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting	Number	368	298	237	209	330	441	397	360
Number of employees, average	1,000	379	413	376	430	94	101	76	82
Compensation of employees	Mill. dol.	5,726	9,803	10,217	12,074	1,046	1,931	1,783	2,010
Operating revenues	Mill. dol.	11,116	19,725	22,314	25,234	3,907	8,792	7,962	8,344
Intercity freight	Mill. dol.	10,511	19,480	22,080	25,055	3,717	8,339	7,664	8,069
Operating expenses	Mill. dol.	10,571	18,870	21,037	24,000	3,758	8,426	7,752	8,018
Ordinary income before taxes	Mill. dol.	432	701	1,198	1,135	109	230	123	248
Net income	Mill. dol.	225	-72	658	804	65	14	94	194
Total power units, intercity service	1,000	78	102	108	(NA)	69	95	77	(NA)
Trucks, tractors owned in operation, avg	1,000	49	73	82	(NA)	25	33	29	(NA)
Intercity vehicle-miles	Million	6,246	6,547	5,760	5,913	4,776	6,889	5,714	6,263
Tons of intercity revenue freight carried	Million	191	178	136	124	264	324	303	299
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting	Number	50	69	64	74	32	28	40	36
Number of employees, average	1,000	10	14	22	30	4	10	11	11
Compensation of employees	Mill. dol.	175	336	630	925	70	157	240	254
Operating revenues	Mill. dol.	453	1,272	1,942	3,026	866	1,824	2,684	3,038
Intercity freight	Mill. dol.	411	1,172	1,792	2,773	765	1,676	2,388	2,336
Operating expenses	Mill. dol.	432	1,207	1,807	2,923	849	1,781	2,635	2,971
Ordinary income before taxes	Mill. dol.	17	48	103	55	32	74	79	33
Net income	Mill. dol.	9	28	69	38	18	42	54	25
Total power units, intercity service	1,000	8	13	16	(NA)	18	25	35	(NA)
Trucks, tractors owned in operation, avg	1,000	5	7	11	(NA)	(2)	1	1	(NA)
Intercity vehicle-miles	Million	454	934	1,227	1,882	688	969	1,171	1,289
Tons of intercity revenue freight carried	Million	21	37	41	69	3	5	7	8

NA Not available. Z Less than 500.

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

No. 1063. Trucks—Percent Distribution, Operational Characteristics: 1972 to 1987

[See headnote, table 1064]

CHARACTERISTIC	1972	1977	1982	1987	CHARACTERISTIC	1972	1977	1982	1987
Total	100.0	100.0	100.0	100.0	Purchased used	47.8	50.0	51.5	50.1
Major use:					Leased	1.9	2.4	2.8	2.6
Agriculture ¹	22.6	17.0	12.2	8.5	Fleet size: 1	61.9	71.6	77.8	65.1
Construction	8.6	6.7	11.2	10.0	2 to 5	22.0	16.3	10.9	24.9
Manufacturing	2.3	1.4	1.7	1.3	6 to 19	8.8	6.6	5.3	5.4
Wholesale and retail trade	9.5	7.6	6.8	5.6	20 or more	7.8	5.5	6.0	4.6
Personal transportation	41.2	54.4	56.7	65.7	Truck type:				
All other	16.2	13.0	11.4	8.8	Single-unit	95.4	96.8	95.7	96.3
Body type:					Combination	4.7	3.2	4.3	3.7
Pickup and panel ²	73.3	84.5	86.4	90.1	Annual miles:				
Platform ³	12.7	6.8	5.1	3.7	Less than 5,000	23.4	23.9	26.0	25.3
Van ⁴	5.9	3.4	3.2	2.1	5,000 to 9,999	28.1	24.0	25.5	23.4
All other	9.1	5.5	5.3	4.0	10,000 to 19,999	33.5	37.0	35.0	34.5
Vehicle size: ⁵ Light	74.0	85.4	89.3	91.9	20,000 to 29,999	8.4	9.2	8.4	10.7
Medium	14.3	6.0	3.5	2.3	30,000 miles or more	6.8	5.9	5.0	6.1
Light-heavy	4.2	3.1	2.4	1.7	Range of operation:				
Heavy-heavy	7.6	5.5	4.8	4.1	Local	81.3	84.8	76.6	75.6
Year model:					Short-range ⁶	8.7	8.4	10.3	14.8
1 to 2 years old	14.8	17.1	8.9	17.2	Long-range ⁷	2.4	2.1	3.1	4.5
3 to 4 years old	18.9	17.5	16.5	16.5	Off-the-road ⁸	7.6	4.7	10.0	5.1
4 years or more	66.6	65.4	74.6	66.3	Fuel type:				
Vehicle acquisition:					Gasoline	87.9	96.0	94.3	93.7
Purchased new	50.5	47.6	45.7	47.3	Diesel and LPG	4.4	3.9	5.5	6.2
					Not reported	7.9	-	0.2	0.1

- Represents zero. ¹ Includes forestry and lumbering. ² Also includes multi-stop, walk-in, mini-van, station wagon, and utility. ³ Includes cattle rack. ⁴ See footnote 5, table 1064. ⁵ See footnote 6, table 1064. ⁶ Includes not reported. ⁷ Annual miles were imputed, if not reported. ⁸ Less than 201 miles. ⁹ 201 miles or more.

No. 1064. Trucks and Truck—Miles, by Vehicle and Operational Characteristics: 1987

[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	Excl. pickups, panels	Total	Excl. pickups, panels		Total	Excl. pickups, panels	Total	Excl. pickups, panels
Total	44,572	4,886	529.3	102.3	Range of operation:				
Major use:					Local	33,685	3,027	350.9	34.8
Agriculture ²	3,819	1,114	39.0	10.3	Short-range ³	6,612	920	108.3	29.2
Construction	4,479	997	63.7	12.9	Long-range ⁴	1,997	490	56.0	36.0
Manufacturing	581	241	12.5	7.4	Off-the-road ⁵	2,278	449	14.1	2.3
Wholesale and retail trade	2,507	830	43.3	17.9	Products carried:				
Personal transportation	29,292	250	287.0	1.7	Farm products	1,558	769	16.2	8.5
All other	3,894	1,455	83.8	52.2	Building materials	1,141	640	18.6	11.8
Body type:					Mixed cargoes	686	325	21.1	15.7
Pickup and panel ³	40,170	484	433.6	6.6	Craftsman's equipment	2,476	319	34.5	3.6
Platform ⁴	1,668	1,668	25.0	25.0	Personal transportation	29,290	251	286.9	1.7
Van ⁵	940	940	42.2	42.2	All other	9,422	2,583	152.0	61.1
All other	1,794	1,794	28.5	28.5	Hazardous materials				
Vehicle size: ⁶ Light	40,947	1,356	439.3	13.4	carried	340	278	14.5	13.5
Medium	1,030	939	10.8	9.7	Percent of time:				
Light-heavy	766	764	7.6	7.6	Less than 10 percent	114	107	7.2	7.1
Heavy-heavy	1,829	1,828	71.6	71.6	10 to 25 percent	28	19	1.2	1.1
Year model:					26 to 49 percent	18	15	0.7	0.6
1 to 2 years old	7,678	473	123.6	18.0	50 to 74 percent	25	24	1.0	1.0
3 to 4 years old	7,338	549	120.5	23.4	75 to 100 percent	94	89	2.8	2.7
4 years or more	29,543	3,864	285.1	60.8	Types of hazardous				
Vehicle acquisition:					material:				
Purchased new	21,087	2,138	292.3	57.9	Flammables liquids	198	175	9.3	9.0
Purchased used	22,325	2,511	215.2	34.7	Combustible liquids	95	95	5.8	5.8
Leased	1,160	237	21.8	9.8	Corrosive liquids	70	66	4.6	4.5
Fleet size: 1	29,026	1,170	308.7	20.2	Flammable solids	29	28	2.3	2.3
2 to 5	11,094	1,547	122.9	18.5	Oxidizers	28	28	2.2	2.2
6 to 19	2,397	1,007	40.1	19.8	Flammable gas	26	26	2.2	2.2
20 or more	2,054	1,163	57.6	43.8	Nonflammable gas	21	21	1.9	1.9
Truck type:					Corrosive solids	139	101	5.1	4.5
Single-unit	42,917	3,587	462.0	38.8	Not reported				
Combination	1,656	1,300	67.3	63.5					

¹ Also excluding mini-vans, utilities, and station wagons. ² Includes forestry and lumbering. ³ Also includes multi-stop, walk-in, mini-vans, station wagons, and utility trucks. ⁴ Includes livestock truck. ⁵ Vans similar to panel trucks are included in panel. ⁶ 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. ⁷ Includes not reported. ⁸ Less than 201 miles. ⁹ 201 miles or more. ¹⁰ Detail does not add to totals because items were not applicable or multiple responses were possible.

Source of tables 1063 and 1064: U.S. Bureau of the Census, 1987 Census of Transportation, TC87-T-52.

No. 1065. Railroads, Class I—Summary: 1970 to 1989

[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	1983	1984	1985	1986	1987	1988	1989
Class I line-hauling companies ¹	Number	71	39	32	29	23	22	18	17	15
Employees	1,000	566	480	342	344	302	276	249	236	228
Compensation	Mil. dol.	5,711	11,318	10,345	11,004	10,563	9,900	9,373	9,301	9,043
Average per hour	Dollars	4.14	10.21	13.29	13.84	14.30	14.75	15.11	15.84	15.76
Average per year	Dollars	10,086	24,659	32,125	34,064	34,991	35,894	37,716	39,431	39,742
Mileage:										
Railroad line owned ³	1,000	206	179	161	157	155	154	152	150	149
Railroad track owned ⁴	1,000	336	290	270	264	257	256	254	251	249
Equipment:										
Locomotives in service	Number	27,077	28,094	24,117	22,548	22,932	20,790	19,358	19,364	19,015
Average horsepower	1,000 lb	1,826	2,302	2,364	2,415	2,469	2,531	2,554	2,579	2,624
Cars in service:										
Passenger train	Number	11,177	4,347	2,610	2,580	2,502	2,307	2,350	2,332	(NA)
Freight train ⁵	1,000	1,784	1,711	1,543	1,486	1,422	1,339	1,288	1,239	1,212
Freight cars ⁶	1,000	1,454	1,168	1,007	948	867	799	749	725	688
Average capacity ⁷	Tons	67.1	78.5	82.4	83.4	83.2	84.1	85.0	86.4	87.8
Aggregate capacity ⁷	Mil. tons	95.6	92.7	83.0	80.0	72.2	67.2	63.6	55.9	55.0
Box ⁸	1,000	590	347	271	245	216	180	163	144	133
Gondola and hopper ⁷	1,000	724	636	577	552	505	473	445	437	423
Other	1,000	140	185	159	151	145	146	141	144	132
Income and expenses:										
Operating revenues	Mil. dol	11,992	28,258	26,729	29,453	27,586	26,204	26,622	27,934	27,956
Operating expenses	Mil. dol	11,478	26,355	24,106	25,800	25,225	24,698	23,678	24,811	25,038
Net revenue from operations	Mil. dol	514	1,902	2,623	3,653	2,361	1,308	2,744	3,123	2,918
Income before fixed charges	Mil. dol	994	2,897	3,608	4,893	3,393	2,480	3,932	4,460	4,162
Provision for taxes	Mil. dol	88	592	851	1,185	860	163	1,051	1,162	1,040
Ordinary income	Mil. dol	227	1,129	1,778	2,654	1,788	747	1,965	2,296	2,009
Net income	Mil. dol	227	1,129	1,797	2,701	1,882	544	2,055	2,382	2,203
Net railway operating income	Mil. dol	486	1,339	1,838	2,537	1,746	507	1,756	1,980	1,894
Total taxes ⁹	Mil. dol	1,069	2,585	3,014	3,605	3,169	2,728	3,553	3,871	3,742
Indus. return on net investment	Percent	1.7	4.2	4.3	5.7	4.6	1.3	4.8	6.7	(NA)
Gross capital expenditures	Mil. dol	1,351	3,238	2,985	4,121	4,485	3,645	3,076	3,546	3,865
Equipment	Mil. dol	993	2,280	455	806	965	693	657	1,027	1,171
Roadway and structures	Mil. dol	358	953	2,306	2,938	3,458	2,908	2,314	2,654	2,538
Other	Mil. dol	-	5	224	377	62	44	105	135	156
Balance sheet:										
Total property investment	Mil. dol	38,213	43,923	62,964	63,471	64,241	64,781	166,780	68,550	67,661
Accrued depreciation and amortization	Mil. dol	10,027	10,706	19,480	20,098	19,756	20,940	21,070	21,497	21,481
Net investment	Mil. dol	28,186	33,217	43,483	43,373	44,485	43,841	45,690	47,053	47,370
Shareholder's equity	Mil. dol	17,323	19,860	26,461	27,986	27,605	25,442	25,616	26,467	25,753
Net working capital	Mil. dol	59	897	1,325	1,844	1,084	743	1,241	-190	-2,119
Cash dividends	Mil. dol	421	610	1,085	1,066	1,444	1,376	1,252	1,814	1,910
AMTRAK passenger traffic:										
Passenger revenue	Mil. dol	(NA)	(NA)	515.3	556.7	604.9	633.6	681.1	784.2	893.3
Revenue passengers carried	1,000	(NA)	(NA)	19,469	20,065	20,945	20,165	20,727	21,490	21,394
Revenue passenger miles	Million	(NA)	(NA)	4,343	4,566	4,977	5,015	5,368	5,686	5,912
Averages:										
Revenue per passenger	Dollars	(NA)	(NA)	26.39	28.23	28.88	31.42	32.85	36.49	41.75
Revenue per passenger mile	Cents	(NA)	(NA)	11.83	12.43	12.15	12.63	12.68	13.79	15.11
Trip per passenger	Miles	(NA)	(NA)	223.1	227.6	237.6	248.7	259.0	264.6	276.3
Freight service:										
Freight revenue	Mil. dol	10,922	26,200	25,835	28,472	26,688	25,344	25,797	27,092	27,956
Per ton-mile	Cents	1.43	2.83	3.20	3.08	3.04	2.92	2.73	2.72	2.67
Per ton originated	Dollar	7.36	17.66	19.99	19.92	20.22	19.41	18.80	18.95	19.29
Revenue-tons originated	Million	1,485	1,492	1,293	1,429	1,320	1,087	1,372	1,430	1,402
Revenue-tons carried	Million	2,616	2,434	1,932	2,119	1,985	1,938	1,984	2,045	1,988
Tons carried one mile	Billion	765	919	827	922	877	868	944	996	1,014
Average miles of road operated	1,000	209	179	170	165	161	155	147	141	138
Revenue ton-miles per mile of road	1,000	3,652	5,133	4,876	5,578	5,446	5,587	6,395	7,052	7,373
Revenue per ton-mile	Cents	1.428	2.852	3.119	3.090	3.043	2.921	2.733	2.720	2.689
Train miles	Million	427	428	346	369	347	347	361	379	382
Net ton-miles per train-mile ¹⁰	Number	1,820	2,175	2,432	2,543	2,574	2,552	2,644	2,662	2,683
Net ton-miles per loaded car-mile ¹⁰	Number	44.9	63.5	61.2	62.4	62.7	63.2	64.0	65.5	67.0
Train-miles per train-hour	Miles	20.1	18.2	20.3	21.9	21.9	22.5	22.2	21.5	23.0
Haul per ton, U.S. as a system	Miles	515	616	641	645	664	664	688	697	723
Accident: ¹¹										
Persons killed	Number	2,255	1,417	1,073	1,247	1,036	1,091	1,165	1,199	1,305
Persons injured	Number	21,327	62,246	34,816	38,570	34,304	26,923	26,033	27,054	26,235

- 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, *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. 1066. Railroads, Class I-Cars of Revenue Freight Loaded, 1970 to 1989, and by Commodity Group, 1988 and 1989

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

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1988	1989		1988	1989
1970	27,160	1,450	Coal	5,886	5,977	Metals and products	449	424
1975	23,217	1,308	Metallic ores	567	516	Stone, clay, and glass products	520	509
1980	22,598	1,661	Chemicals, allied products	1,351	1,382	Crushed stone, gravel, sand	771	717
1984	20,257	2,703	Grain	1,583	1,472	Nonmetallic minerals, n.e.c.	509	493
1985	19,574	2,863	Motor vehicles and equipment	984	958	Waste and scrap materials	446	416
1986	19,783	3,279	Pulp, paper, allied products	523	494	Lumber, wood products, n.e.c.	370	332
1987	21,133	3,294	Primary forest products	470	431	Coke	294	275
1988	16,422	(NA)	Food and kindred prod., n.e.c.	463	448	Petroleum product	247	253
1989	16,039	(NA)	Grain mill products	528	513	All other carloads	580	527

NA Not available. ¹ Excludes furniture.

Source: Association of American Railroads, Washington, DC, *Weekly Railroad Traffic*, annual.

No. 1067. Railroads, Class I Line-Haul-Revenue Freight Originated, by Commodity Group: 1970 to 1989

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

COMMODITY GROUP	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Carloads (1,000) ¹	27,015	22,930	22,223	18,585	19,013	20,946	19,501	19,587	20,602	21,600	21,226
Coal	5,296	4,844	5,789	5,718	5,276	6,061	5,684	5,433	5,430	5,621	5,672
Farm products	2,374	1,873	1,866	1,566	1,642	1,757	1,494	1,602	1,907	1,977	1,782
Food and kindred products	2,706	2,154	1,767	1,391	1,316	1,234	1,224	1,276	1,326	1,318	1,285
Metallic ores	1,602	1,338	1,258	761	812	1,001	511	508	494	582	523
Chemicals, allied products	1,576	1,313	1,322	1,120	1,216	1,312	1,296	1,287	1,410	1,497	1,497
Nonmetallic minerals	2,204	1,895	1,474	958	1,079	1,204	1,196	1,113	1,188	1,290	1,254
Lumber and wood products ³	2,048	1,615	1,384	1,002	1,075	1,051	948	965	986	910	843
Transportation equipment	1,059	1,135	1,004	801	954	1,141	1,202	1,148	1,085	1,160	1,141
Pulp, paper, allied products	1,197	1,015	954	765	746	741	703	672	561	646	615
Primary metal products	1,486	796	756	459	440	487	449	389	428	479	452
Stone, clay, and glass products	1,231	906	776	516	543	576	551	530	559	577	565
Waste and scrap materials	805	744	632	409	417	480	429	402	440	471	444
Petroleum and coal products	699	787	596	467	495	529	491	477	520	568	581
Machinery, exc. electrical	200	156	77	43	38	40	35	31	33	40	38
Fabricated metal products ⁴	398	244	72	36	33	37	31	26	24	26	27
Tons (mil.) ¹	1,484.9	1,395.1	1,492.4	1,268.6	1,292.6	1,429.4	1,319.8	1,305.8	1,372.2	1,429.4	1,402.5
Coal	404.6	407.6	522.1	523.8	493.6	566.6	538.0	517.5	523.3	542.8	551.2
Farm products	134.2	134.4	156.1	133.5	142.2	151.1	127.0	136.4	162.9	169.6	154.4
Food and kindred products	110.1	100.2	91.9	77.0	75.2	72.1	73.5	78.3	81.4	81.0	79.0
Metallic ores	126.7	106.4	105.4	62.6	68.4	85.5	46.9	46.4	44.9	51.9	47.3
Chemicals, allied products	91.6	91.4	108.3	91.2	99.3	107.4	106.4	105.6	115.9	123.3	122.5
Nonmetallic minerals	163.3	150.6	124.8	84.7	96.5	108.2	107.7	101.2	109.4	114.5	110.7
Lumber and wood products ³	101.9	88.6	85.5	65.9	71.7	69.8	63.2	64.9	66.8	62.0	57.0
Transportation equipment	24.2	27.3	23.9	18.8	22.2	26.1	27.2	25.9	23.9	24.8	24.4
Pulp, paper, allied products	42.5	40.6	42.1	36.4	36.8	37.7	36.2	35.6	35.9	34.7	33.5
Primary metal products	82.2	51.4	52.7	32.0	32.0	36.1	33.6	29.7	33.4	37.8	35.9
Stone, clay, and glass products	71.1	56.8	53.7	36.2	41.6	44.7	43.5	42.1	44.3	46.2	46.5
Waste and scrap materials	39.8	38.2	34.3	22.7	24.5	28.8	25.7	25.0	26.2	30.2	28.3
Petroleum and coal products	36.3	45.8	38.1	31.6	33.6	35.3	32.9	32.8	34.9	38.6	38.5
Machinery, exc. electrical	4.6	3.6	2.0	1.2	0.8	0.9	0.9	0.8	0.8	0.9	0.9
Fabricated metal products ⁴	11.3	8.2	2.0	1.0	0.8	0.9	0.8	0.7	0.6	0.7	0.6
Gross revenue (mil. dol.) ¹	11,388	15,899	26,938	26,504	26,710	29,866	28,225	27,186	27,657	29,529	29,328
Coal	1,361	2,146	4,956	6,307	5,969	6,962	6,556	6,089	6,087	6,430	6,581
Farm products	1,068	1,472	2,801	2,305	2,374	2,493	1,977	2,007	2,246	2,534	2,444
Food and kindred products	1,363	1,822	2,837	2,604	2,349	2,309	2,256	2,192	2,171	2,198	2,128
Metallic ores	333	458	597	403	450	567	403	375	348	415	397
Chemicals, allied products	1,137	1,681	2,946	2,942	3,078	3,360	3,342	3,342	3,477	3,795	3,788
Nonmetallic minerals	409	596	948	852	834	997	949	839	854	890	868
Lumber and wood products ³	832	1,066	1,543	1,309	1,527	1,611	1,525	1,563	1,660	1,626	1,500
Transportation equipment	734	1,283	1,917	1,966	2,292	2,859	3,110	2,997	2,866	3,218	3,269
Pulp, paper, allied products	730	977	1,652	1,717	1,671	1,762	1,641	1,572	1,542	1,540	1,514
Primary metal products	813	848	1,332	977	816	955	872	787	863	1,013	972
Stone, clay, and glass products	512	651	1,025	888	908	1,024	960	907	914	965	960
Waste and scrap materials	232	359	513	418	423	496	446	425	474	526	492
Petroleum and coal products	305	573	865	887	844	913	861	800	809	903	917
Machinery, exc. electrical	148	200	176	115	75	81	72	58	57	63	66
Fabricated metal products ⁴	210	221	110	71	52	57	48	40	37	38	38

¹ Includes commodity groups and small packaged freight shipments, not shown separately. ² Except fuels. ³ Except furniture. ⁴ Except ordnance, 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.

No. 1068. Railroad Freight—Producer Price Indexes: 1970 to 1989

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

COMMODITY	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total railroad freight	29.1	45.3	75.9	87.4	93.7	95.0	99.3	99.9	100.7	100.1	104.8	106.4
Coal	26.9	44.0	75.8	86.9	95.4	96.5	99.9	100.0	100.7	100.1	104.3	105.3
Farm products	29.7	45.2	75.6	86.3	92.4	94.0	96.7	99.0	99.6	99.3	105.5	108.5
Food products	28.9	44.8	75.2	87.4	93.7	94.8	99.1	100.0	99.9	98.6	103.1	103.9
Metallic ores	26.4	43.2	74.5	86.1	93.9	95.9	99.4	100.2	100.5	99.0	103.9	105.8
Chemicals or allied products	30.0	46.5	75.6	87.1	93.5	94.3	98.7	100.1	101.2	100.8	106.9	110.0
Nonmetallic minerals	25.4	40.5	72.2	86.4	93.3	94.6	98.9	100.1	101.6	101.1	106.1	108.3
Wood or lumber products	28.3	42.8	72.7	85.2	91.4	93.3	96.7	100.0	100.9	100.4	105.3	105.9
Transportation equipment	31.7	50.3	81.7	91.6	94.5	95.6	99.6	100.0	100.8	99.3	103.4	105.4
Pulp, paper, or allied products	31.5	47.1	76.7	88.5	94.7	95.6	99.9	100.0	101.0	100.6	104.0	106.1
Primary metal products	29.9	47.8	77.8	88.5	94.3	95.4	96.7	99.7	100.0	99.7	108.8	112.3
Clay, concrete, glass, or stone products	26.9	43.0	74.2	86.5	93.4	94.4	98.8	100.0	102.2	102.2	107.5	110.5

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

No. 1069. Petroleum Pipeline Companies—Characteristics: 1975 to 1988

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

ITEM	Unit	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Miles of pipeline, total	1,000	170.7	169.8	172.7	172.8	172.5	167.8	173.9	171.4	170.0	167.9	170.5
Gathering lines	1,000	40.4	36.9	36.3	36.6	35.6	31.0	36.1	35.0	34.2	35.1	34.3
Trunk lines	1,000	130.3	132.9	136.4	134.2	136.9	136.9	137.9	136.4	135.8	132.8	136.2
Total deliveries	Mil. bbl.	9,391	11,140	10,600	10,223	10,181	10,310	10,224	10,745	11,002	11,194	11,484
Crude oil	Mil. bbl.	5,729	6,728	6,405	6,070	5,968	6,020	5,671	6,239	6,286	6,278	6,509
Products	Mil. bbl.	3,662	4,412	4,195	4,153	4,213	4,289	4,552	4,506	4,716	4,917	4,974
Total trunk line traffic	Bil. bbl.-miles	2,892	3,577	3,405	3,554	3,442	3,328	3,406	3,342	3,467	3,524	3,619
Crude oil	Bil. bbl.-miles	1,551	1,946	1,948	1,813	1,938	1,875	1,855	1,842	1,893	1,932	1,970
Products	Bil. bbl.-miles	1,341	1,631	1,458	1,740	1,484	1,452	1,551	1,500	1,573	1,592	1,649
Carrier property value	Mil. dol.	10,740	18,990	19,752	21,250	21,942	22,255	19,397	21,605	22,384	21,353	24,332
Operating revenues	Mil. dol.	1,869	5,781	6,356	6,878	7,140	7,472	7,824	7,461	7,287	7,057	6,861
Net income	Mil. dol.	456	1,648	1,912	2,031	2,162	2,353	2,545	2,431	2,051	2,475	2,505

Source: PennWell Publishing Co., Tulsa, OK, *Oil and Gas Journal*, November 27, 1989, and earlier issues. (Copyright.)

No. 1070. Major Interstate Natural Gas Pipeline Companies—Summary: 1980 to 1988

[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]

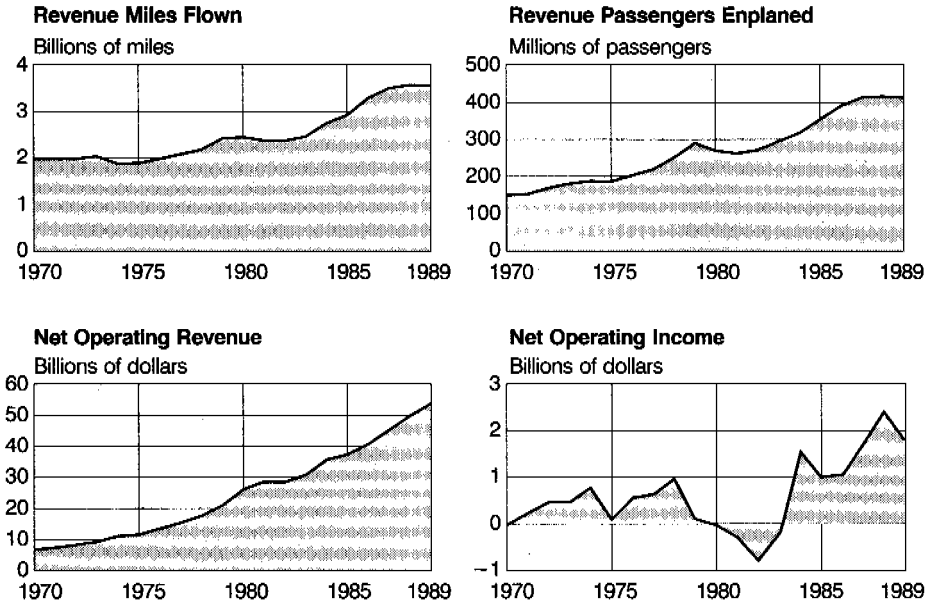
ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988
Sales	Tril. cu. ft.	(NA)	14.4	12.9	13.2	11.3	7.8	6.5	6.4
Residential	Tril. cu. ft.	(NA)	0.3	0.3	0.3	0.3	0.2	0.2	0.3
Commercial, industrial	Tril. cu. ft.	(NA)	1.2	1.0	1.2	1.1	0.5	0.4	0.5
For resale	Tril. cu. ft.	(NA)	13.0	11.6	11.6	9.9	7.1	5.8	5.6
Operating revenues	Mil. dol.	(NA)	56,203	56,792	56,326	49,106	33,859	27,565	27,501
From sales	Mil. dol.	(NA)	53,601	53,710	52,529	44,996	29,508	22,942	22,512
Residential	Mil. dol.	(NA)	1,273	1,725	1,927	1,879	1,122	1,094	1,553
Commercial, industrial	Mil. dol.	(NA)	4,453	4,233	5,180	4,466	1,909	1,464	1,544
For resale	Mil. dol.	(NA)	47,776	47,661	45,268	38,545	26,413	20,351	19,420
From transportation of gas to others	Mil. dol.	(NA)	1,259	1,787	1,923	2,272	3,027	3,622	4,059
Other	Mil. dol.	(NA)	1,344	1,296	1,874	1,838	1,325	1,002	929
Operation, maintenance expenses	Mil. dol.	33,303	49,989	49,391	48,411	42,528	27,460	21,794	22,742
Production	Mil. dol.	29,644	44,449	43,516	42,407	36,739	22,208	16,955	17,625
Storage	Mil. dol.	253	405	441	415	418	420	409	436
Transmission	Mil. dol.	2,431	3,629	3,729	3,760	3,409	2,984	2,598	2,589
Distribution	Mil. dol.	28	103	131	131	132	80	80	127
Administrative, general, and other	Mil. dol.	947	1,402	1,576	1,697	1,830	1,768	1,752	1,966
Pipeline mileage:									
Transmission lines	1,000	161.9	178.0	176.7	183.4	189.7	184.6	181.2	191.6
Field lines	1,000	56.6	64.6	63.7	65.2	69.6	64.5	62.9	55.5
Storage	1,000	11.7	6.9	6.5	4.6	4.8	4.6	4.3	4.8

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

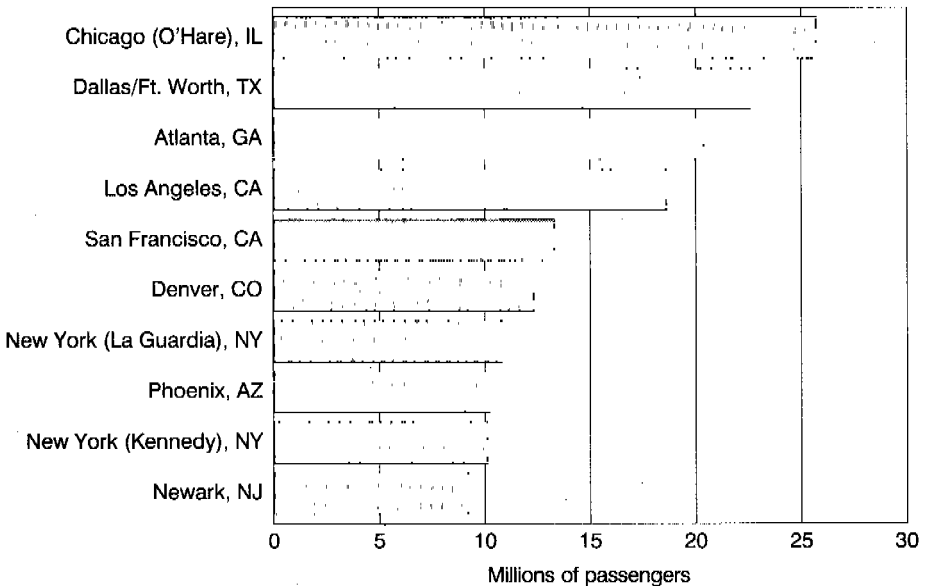
Domestic Scheduled Operations of Air Carriers: 1970 to 1989



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1072.

Figure 22.2

**Revenue Passengers Enplaned—
Top 10 Airports: 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1077.



Section 22

Transportation— Air and Water

This section presents data 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 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 nonscheduled (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. 1071. Airline Cost Indexes: 1970 to 1989

[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. Minus sign (-) indicates decrease]

ITEM	INDEX (1972 = 100)									PERCENT DISTRIBUTION OF CASH OPERATING EXPENSES ¹			
	1970	1980	1983	1984	1985	1986	1987	1988	1989	1970	1980	1985	1989
Composite	87.8	262.5	309.4	312.3	313.4	293.1	299.5	310.0	329.6	100.0	100.0	100.0	100.0
Labor	82.9	211.4	268.6	269.7	277.8	272.1	276.3	286.6	295.4	45.8	35.1	34.9	33.8
Interest ²	99.0	167.2	195.5	205.5	198.8	191.2	184.5	187.9	210.2	3.6	2.9	3.5	2.9
Fuel	94.3	770.3	762.0	729.2	689.6	473.6	479.2	457.7	515.4	12.8	29.7	22.3	14.9
Passenger food	97.4	153.6	168.9	174.0	167.0	167.7	173.3	182.3	199.9	3.9	2.9	3.2	3.6
Advertising and promotion	99.5	141.5	207.1	202.9	203.3	210.4	184.7	197.2	218.0	2.7	1.7	2.3	2.3
Landing fees	82.2	192.9	215.2	217.9	217.6	242.6	262.5	276.8	293.8	2.2	1.7	1.7	1.9
Passenger traffic commissions	80.2	322.8	445.3	487.4	491.4	499.9	540.8	619.0	679.0	2.6	4.8	7.4	9.7
All other	95.5	184.4	223.5	231.9	239.2	245.4	253.2	260.9	271.8	26.4	21.3	24.6	30.9
AVERAGE ANNUAL PERCENT CHANGE ³													
Labor	(NA)	9.8	7.6	0.4	3.0	-2.1	1.5	3.7	3.1	(X)	(X)	(X)	(X)
Interest ²	(NA)	5.4	3.7	5.1	-3.3	-3.8	-3.5	1.8	11.9	(X)	(X)	(X)	(X)
Fuel	(NA)	23.4	-9.5	-4.3	-5.4	-31.3	1.2	-4.5	12.6	(X)	(X)	(X)	(X)
Passenger food	(NA)	4.7	3.7	3.0	-4.0	.4	3.3	5.2	9.7	(X)	(X)	(X)	(X)
Advertising and promotion	(NA)	3.6	1.7	-2.0	0.2	3.5	-12.2	6.8	10.5	(X)	(X)	(X)	(X)
Landing fees	(NA)	8.9	0.4	1.3	-0.1	11.5	8.2	5.4	6.1	(X)	(X)	(X)	(X)
Passenger traffic commissions	(NA)	14.9	6.7	9.5	0.8	1.7	8.2	14.5	9.7	(X)	(X)	(X)	(X)
All other	(NA)	6.8	3.9	3.8	3.2	2.6	3.2	3.0	4.2	(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, 1989*, annual; and unpublished data.

No. 1072. Certificated Route Air Carriers—Summary: 1970 to 1989

[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. Minus sign (-) indicates loss. See also *Historical Statistics, Colonial Times to 1970*, series Q 577-590 and Q 624-633]

ITEM	Unit	1970	1978	1980	1985	1986	1987	1988	1989
Domestic operations ¹	Number	35	34	72	86	74	68	66	62
Operating revenue	Mill. dol.	7,131	17,943	26,404	37,629	41,000	45,658	50,187	54,071
Operating expenses	Mill. dol.	7,128	16,948	26,409	36,611	39,934	43,925	47,739	52,260
Net operating income	Mill. dol.	3	995	-5	1,018	1,066	1,733	2,448	1,811
International operations	Number	6	2	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Operating revenue	Mill. dol.	1,913	4,332	6,543	8,302	8,621	10,925	13,402	15,076
Operating expenses	Mill. dol.	1,894	4,008	6,766	7,984	8,458	10,226	12,403	15,019
Net operating income	Mill. dol.	19	324	-223	319	163	698	998	57
Employment, total ²	1,000	297	329	371	355	422	457	481	507
Pilots, copilots, and other flight personnel	1,000	33	36	39	40	46	51	52	52
Flight attendants	1,000	34	48	57	63	68	73	76	78
Mechanics	1,000	48	44	45	43	48	51	55	57
Aircraft and traffic servicing personnel	1,000	84	96	122	101	180	199	212	225
Other	1,000	98	104	108	108	80	84	86	95
Fixed-wing aircraft in operation ³	Number	2,421	2,345	2,505	2,860	3,799	4,231	4,439	4,477
Turbojet	Number	2,041	2,184	2,336	2,740	3,262	3,573	3,913	3,939
Two-engine	Number	519	579	652	1,235	1,494	1,722	1,944	2,052
Three-engine	Number	631	1,140	1,311	1,277	1,466	1,469	1,542	1,459
Four-engine	Number	891	465	371	228	322	382	427	428
Turboprop	Number	316	155	163	110	416	546	438	447
Piston	Number	64	6	6	10	101	112	88	91
Average available seats: ^{4,5}									
Domestic operations	Number	110.4	140	143.1	152.5	153.4	152.9	153.1	152.1
International operations	Number	154.9	244.1	274.5	296.6	292.8	284.6	281.3	277.1
Average speed: ⁵									
Domestic operations	Mi. per hr.	403	409	405	409	409	413	409	407
International operations	Mi. per hr.	482	489	494	497	493	494	488	488
Jet fuel consumed ⁶	Mill. gal	10,083	10,534	11,311	12,603	13,682	14,461	15,094	15,624
Domestic operations	Mill. gal	7,842	8,621	9,218	10,115	11,137	11,557	11,902	12,087
International operations	Mill. gal	2,241	1,913	2,093	2,488	2,545	2,904	3,192	3,537
Revenue-miles flown ⁵	Millions	2,426	2,520	2,816	3,320	3,725	3,988	4,141	4,193
Domestic operations	Millions	2,027	2,201	2,471	2,950	3,323	3,529	3,603	3,591
International operations	Millions	399	319	345	370	402	459	538	602
Revenue passengers enplaned ⁵	Millions	169	275	297	382	419	448	455	453
Domestic operations	Millions	153	254	273	357	394	417	419	416
International operations	Millions	16	21	24	25	25	31	35	37
Revenue passenger-miles flown ⁵	Billions	131.7	226.8	255.2	336.4	366.5	404.5	423.3	432.4
Domestic operations	Billions	104.1	182.7	200.8	270.6	302.1	324.6	329.3	330.0
International operations	Billions	27.6	44.1	54.4	65.8	64.5	79.8	94.0	102.7
Available seat-miles ⁵	Billions	265.2	368.7	432.5	547.8	607.4	648.7	676.8	684.4
Domestic operations	Billions	213.2	299.5	346.0	445.8	498.0	527.0	536.7	530.1
International operations	Billions	52.0	69.2	86.5	102.0	109.4	121.8	140.1	154.3
Passenger load factor ⁵	Percent	49.7	61.5	59.0	61.4	60.3	62.3	62.5	63.2
Domestic operations	Percent	48.9	61.0	58.0	60.7	60.7	61.8	61.4	62.3
International operations	Percent	53.0	63.7	62.8	64.6	58.9	65.6	67.1	66.6
Revenue passenger-miles per gallon of fuel	Number	13.1	21.5	22.6	26.7	26.8	28.0	28.0	27.7
Domestic operations	Number	13.3	21.2	21.8	26.8	27.1	28.1	27.7	27.3
International operations	Number	12.3	23.1	26.0	26.4	25.3	27.5	29.4	29.0
Average passenger-mile rate: ^{5,7}									
Domestic operations	Dollars	0.060	0.085	0.113	0.123	0.112	0.114	0.123	0.131
International operations	Dollars	0.050	0.075	0.075	0.098	0.102	0.098	0.104	0.104
Express and freight revenue, ton-miles flown ⁵	Millions	3,515	5,818	5,742	6,020	7,344	8,260	9,632	10,275
Domestic operations	Millions	2,216	3,505	3,277	3,133	3,990	4,339	4,843	4,916
International operations	Millions	1,299	2,313	2,465	2,887	3,354	3,921	4,789	5,359
Mail, ton-miles flown ⁵	Millions	1,264	1,181	1,342	1,659	1,681	1,756	1,837	1,911
Domestic operations	Millions	715	807	949	1,214	1,247	1,313	1,367	1,415
International operations	Millions	549	374	393	445	434	443	470	496

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 operations. Includes all cargo. Carrier count as of end of year. Revenue and expense data exclude carriers which report system totals only. 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.

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. 1073. Aircraft in Operation and Aircraft Age, by Type of Aircraft: 1983 to 1989

[As of January 1. For U.S. domestic and major services. Major carriers have operating revenue 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. 1074. Net New Firm Orders Booked for U.S. Civil Jet Transport Aircraft: 1983 to 1989

[Value in millions of dollars. Minus sign (-) indicates net cancellations]

TYPE OF AIRCRAFT AND CUSTOMER	1983	1984	1985	1986	1987	1988	1989
Total number ¹	158	319	468	332	519	956	1,015
U.S. customers	89	212	242	134	217	404	507
Foreign customers	69	107	226	198	302	552	508
Boeing 737, total	82	144	253	106	234	311	397
U.S. customers	50	116	146	45	105	173	216
Foreign customers	32	28	107	61	129	138	181
Boeing 747, total	19	32	37	68	61	57	57
U.S. customers	5	-	13	6	15	22	4
Foreign customers	14	32	24	62	46	35	53
Boeing 757, total	3	22	51	21	44	186	190
U.S. customers	-1	21	39	11	18	101	137
Foreign customers	4	1	12	10	26	85	53
Boeing 767, total	9	12	10	22	42	87	138
U.S. customers	-2	-6	4	3	11	32	40
Foreign customers	11	18	6	19	31	55	98
McDonnell Douglas MD-11, total	-	-	-	-	29	59	38
U.S. customers	-	-	-	-	2	11	17
Foreign customers	-	-	-	-	27	48	21
McDonnell Douglas MD-80, total	44	97	114	112	105	254	195
U.S. customers	37	75	37	68	65	65	93
Foreign customers	7	22	77	44	40	189	102
Total value	4,258	9,624	14,811	13,948	18,737	39,806	47,470
U.S. customers	1,530	4,981	7,869	3,394	6,999	16,308	20,304
Foreign customers	2,728	4,643	6,942	10,554	11,738	23,498	27,166

- Represents zero. ¹ Includes types of aircraft not shown separately.

Source: Aerospace Industries Association of America, Washington, DC, Research Center, Statistical Series 23.

No. 1075. Worldwide Airline Fatalities: 1970 to 1989

[Passenger deaths for scheduled air transport operations]

YEAR	Aircraft fatal accidents	Passenger deaths	Death rate ¹	YEAR	Aircraft fatal accidents	Passenger deaths	Death rate ¹
1970	29	700	0.29	1980	22	814	0.14
1971	32	884	0.35	1981	21	362	0.06
1972	41	1,209	0.42	1982	26	764	0.13
1973	29	862	0.27	1983	20	809	0.13
1974	21	1,299	0.38	1984	16	223	0.03
1975	20	467	0.13	1985	22	1,066	0.15
1976	24	734	0.19	1986 ²	22	546	0.06
1977	25	516	0.12	1987 ²	26	901	0.09
1978	31	754	0.15	1988 ²	28	729	0.07
1979	31	877	0.16	1989 ²	28	825	0.08

¹ Rate per 100 million passenger miles flown. ² Includes USSR which began reporting in 1986. ³ Preliminary.

Source: International Civil Aviation Organization, Montreal, Canada, *Civil Aviation Statistics of the World*, annual.

No. 1076. Aircraft Accidents and Hijackings: 1975 to 1989

[For years ending December 31]

ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989
Aircraft accidents: ¹									
General aviation ²	Number	3,995	3,590	3,011	2,741	2,580	2,468	2,363	2,167
Fatal	Number	633	618	543	497	473	433	449	420
Rate per 100,000 aircraft hours flown	Rate	2.20	1.69	1.72	1.62	1.61	1.48	1.52	1.40
Fatalities	Number	1,252	1,239	1,039	950	961	811	781	763
Air carrier, all services ³	Number	(NA)	19	16	22	23	38	32	28
Fatal	Number	(NA)	1	1	7	2	5	3	11
Rate per 1,000,000 aircraft miles flown	Rate	(X)	-	-	0.002	-	0.001	-	0.002
Fatalities	Number	(NA)	1	4	526	4	232	285	278
Air carrier, scheduled services	Number	29	15	13	17	20	32	31	24
Fatal	Number	2	-	1	4	1	4	3	8
Rate per 1,000,000 aircraft miles flown	Rate	0.001	-	0.003	0.001	0.002	0.001	0.001	0.002
Fatalities	Number	122	-	4	197	4	231	285	131
Commuter air carriers ⁴	Number	48	38	22	21	15	32	19	18
Fatal	Number	12	8	7	7	2	10	2	5
Rate per 1,000,000 aircraft miles flown	Rate	0.07	0.04	0.02	0.02	0.01	0.03	0.01	0.01
Fatalities	Number	28	37	48	37	4	59	21	31
Air taxis ⁵	Number	152	171	146	152	116	98	98	110
Fatal	Number	24	46	23	35	31	30	27	23
Rate per 100,000 aircraft hours flown	Rate	0.95	1.27	0.75	1.26	1.06	1.04	0.95	0.80
Fatalities	Number	69	105	52	76	65	65	58	80
Hijacking incidents, worldwide	Number	25	39	24	35	12	15	17	24
U.S. registered aircraft	Number	12	21	3	4	4	4	3	6
Successful ⁶	Number	4	13	2	2	-	-	-	-
Foreign-registered aircraft	Number	13	18	21	31	8	11	14	18
Successful ⁶	Number	3	9	16	18	2	5	-	-
Bomb threats:									
U.S. airports	Number	449	268	139	256	238	376	178	487
Explosions	Number	4	1	-	-	-	-	-	-
U.S. worldwide and foreign aircraft in U.S.	Number	1,853	1,179	465	372	401	898	372	479
Explosions	Number	2	1	3	1	1	1	1	2

- Represents or rounds to zero. NA Not available. X Not applicable.

¹ Data from National Transportation Safety Board. ² See text, section 22. ³ U.S. Air Carriers operating under 14 CFR 121. ⁴ All scheduled service of U.S. Air Carriers operating under 14 CFR 135. ⁵ All nonscheduled service of U.S. Air Carriers operating under 14 CFR 135. ⁶ Hijacker 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. 1077. Top 30 Airports—Traffic Summary: 1989

[In thousands, except percent change. For calendar year. Airports ranked by revenue passengers enplaned, 1989]

AIRPORT	Rank	AIRCRAFT DEPARTURES			REVENUE PASSENGERS ENPLANED		ENPLANED REVENUE TONS		
		Total ¹	Scheduled		Total	Percent change 1980-1989	Total ²	Freight and express	U.S. mail
			Number	Completed					
All airports ³	(X)	6,648.3	6,804.1	6,586.0	455,263.1	53.4	6,205.0	6,573.7	1,612.0
Atlanta, Hartsfield International	3	235.1	246.4	234.3	20,397.7	2.0	220.5	127.5	93.0
Baltimore/Washington Intl.	28	74.2	76.1	73.3	4,446.1	169.7	37.2	17.3	19.8
Boston, Logan International	12	108.7	110.3	106.5	9,661.3	41.1	141.3	110.9	30.3
Charlotte, Douglas	22	113.8	117.5	113.6	6,903.5	366.4	51.2	34.8	16.4
Chicago, O'Hare	1	317.1	327.5	316.2	25,664.3	33.5	444.2	307.7	136.5
Dallas/Ft. Worth International	2	254.3	257.8	253.4	22,623.1	116.8	217.0	140.1	76.9
Denver, Stapleton International	6	163.4	165.6	162.6	12,320.2	28.1	112.9	70.4	42.5
Detroit, Metro Wayne	11	133.0	136.5	132.3	9,739.3	93.8	74.0	39.8	34.2
Honolulu, International	14	88.6	95.2	84.9	8,943.5	58.2	216.6	186.2	30.4
Houston Intercontinental	20	100.7	102.1	100.2	7,030.0	40.6	80.4	57.6	22.8
Kansas City International	30	66.9	67.9	66.2	4,357.0	66.3	30.6	14.9	15.8
Las Vegas, McCarran Intl.	21	85.8	85.7	84.8	7,026.9	51.8	21.5	11.8	9.8
Los Angeles International	4	202.5	206.0	200.5	18,553.3	31.3	436.6	372.7	63.9
Miami International	15	92.3	94.4	90.0	8,591.9	6.0	232.3	208.9	23.3
Minneapolis/St. Paul International	16	112.8	115.4	112.3	8,460.1	92.9	106.6	65.3	41.3
Newark International	10	129.7	132.3	128.0	9,822.5	133.5	171.5	138.0	33.5
New York, Kennedy International	9	76.3	78.1	75.7	10,061.5	10.5	296.8	227.7	68.6
New York, LaGuardia	7	124.2	126.0	120.8	10,839.8	29.0	65.5	22.2	43.4
Orlando International	18	85.4	86.3	84.0	7,373.4	136.0	41.1	29.5	11.6
Philadelphia International	24	82.9	85.6	82.2	6,247.5	54.0	67.1	45.0	42.1
Phoenix, Sky Harbor International	8	141.1	141.7	140.2	10,166.1	200.8	60.9	42.7	18.2
Pittsburgh, Greater International	17	121.2	123.4	120.4	7,941.0	47.6	44.7	19.0	25.7
St. Louis, Lambert	13	138.6	141.4	137.9	9,396.3	76.6	94.5	46.8	47.7
Salt Lake City International	26	76.1	76.6	76.5	5,244.2	162.6	52.5	35.2	7.9
San Diego Intl., Lindbergh	25	70.7	72.0	70.6	5,317.2	109.6	25.6	17.7	7.3
San Francisco International	5	167.6	172.4	166.7	13,326.1	41.7	245.2	192.6	52.6
Seattle-Tacoma International	19	115.5	118.2	114.5	7,059.8	62.2	137.3	105.3	31.9
Tampa International	29	59.1	60.8	58.7	4,409.3	22.5	36.5	20.6	15.9
Washington Dulles International	27	76.5	79.0	76.1	4,543.5	310.1	81.9	55.7	26.1
Washington National	23	92.0	94.3	90.3	6,895.6	3.7	41.8	8.0	33.8

X Not applicable.

¹ Includes completed scheduled and unscheduled.² Includes foreign mail, not shown separately.³ Includes other airports, not shown separately.Source: U.S. Federal Aviation Administration and Research and Special Programs Administration, *Airport Activity Statistics*, annual.

No. 1078. On-Time Flight Arrivals and Departures at Major U.S. Airports: 1989 and 1990

[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					
	1989				1990		1989				1990	
	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	73.9	78.3	77.0	75.9	75.9	81.0	80.6	84.9	83.7	81.8	81.9	88.2
Total, 30 major airports	72.8	77.4	75.7	74.9	74.8	80.0	79.0	83.4	81.5	80.1	80.2	87.0
Atlanta, Hartsfield International	79.9	80.7	79.2	78.8	69.8	83.3	85.2	85.9	85.2	83.2	76.5	88.6
Baltimore/Washington International	72.4	71.4	69.6	71.9	77.5	83.4	74.6	74.3	73.6	76.1	82.9	89.2
Boston, Logan International	79.4	75.6	70.2	72.5	68.1	78.2	83.0	81.7	77.2	77.9	75.8	87.1
Charlotte, Douglas	67.5	70.4	66.0	71.4	78.7	87.9	68.0	69.8	65.9	71.5	80.2	90.6
Chicago, O'Hare	60.8	70.4	67.1	72.0	69.2	74.7	68.7	77.4	73.2	76.2	74.2	82.1
Dallas/Ft. Worth International	72.5	80.3	86.0	84.4	74.8	78.1	76.4	84.5	89.8	87.1	78.3	85.1
Detroit, Metro Wayne	69.0	79.3	81.2	77.8	72.1	76.8	76.1	85.8	84.5	83.0	77.5	85.0
Dulles International	79.8	81.4	73.8	76.2	75.6	84.4	84.9	85.0	82.5	81.9	80.1	89.7
Houston Intercontinental	76.5	80.4	76.8	82.2	83.0	85.4	81.2	84.0	82.4	84.7	85.5	89.4
Kansas City International	77.8	81.6	86.1	77.8	73.5	79.9	83.2	86.9	89.2	84.1	82.7	87.4
Las Vegas, McCarran International	73.6	79.4	76.3	75.3	76.6	79.8	82.4	87.2	85.6	82.1	83.6	86.5
Los Angeles International	78.1	85.3	84.6	79.6	80.9	85.5	84.5	91.4	90.1	85.6	85.6	91.3
Memphis International	73.1	77.7	75.3	75.1	78.4	78.1	82.3	85.6	80.9	80.5	84.1	86.0
Miami International	80.6	84.6	79.8	80.4	84.8	89.1	85.9	88.7	86.8	86.0	86.1	91.0
Minneapolis/St. Paul International	75.3	73.0	72.2	73.9	75.8	84.3	80.7	81.2	80.8	82.6	82.9	86.9
Newark International	77.9	83.8	79.5	77.4	81.4	79.7	81.6	88.0	85.6	82.4	83.1	85.4
New York, Kennedy International	73.1	71.3	67.5	71.6	71.8	74.3	78.1	79.3	76.8	78.5	80.0	85.0
New York, LaGuardia	72.1	71.3	68.9	72.1	73.3	75.3	76.4	74.2	70.6	73.8	79.3	81.2
Orlando International	73.5	69.3	64.6	67.0	68.4	76.7	82.3	80.9	77.2	75.5	77.8	85.3
Philadelphia International	75.0	76.8	74.4	72.9	73.2	81.3	83.2	85.6	85.3	84.6	83.5	90.7
Phoenix, Sky Harbor International	72.9	76.3	70.5	67.6	70.0	75.9	80.1	82.6	77.1	71.4	75.7	84.3
Pittsburgh, Greater International	74.2	84.4	84.2	72.5	77.7	84.5	77.6	87.3	88.0	78.0	79.9	88.4
St. Louis, Lambert	76.8	78.2	72.4	67.9	76.7	83.0	79.2	80.2	70.8	66.4	76.7	85.9
Salt Lake City International	70.0	81.5	82.8	81.2	80.7	81.3	74.8	85.9	86.7	82.4	83.5	85.6
San Diego International, Lindbergh	72.6	83.9	84.8	80.5	80.4	84.5	79.6	90.7	89.6	85.4	84.7	91.6
San Francisco International	71.9	79.7	77.2	74.4	75.7	79.0	80.1	85.4	81.2	80.2	82.9	87.5
Seattle-Tacoma International	61.6	70.3	66.2	65.4	73.8	69.6	75.9	82.3	77.8	78.0	82.5	84.0
Tampa International	70.4	77.2	75.4	67.6	69.9	74.3	81.1	87.4	82.0	79.6	82.0	86.9
Washington National	75.0	77.0	74.6	72.7	74.6	82.3	83.3	84.4	84.8	83.7	84.4	91.0
	76.6	75.3	74.6	75.4	79.4	83.5	85.8	84.2	83.6	80.2	84.2	89.1

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

No. 1079. Consumer Complaints Against U.S. Airlines: 1987 to 1990

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

COMPLAINT CATEGORY	COMPLAINTS				PERCENT DISTRIBUTION				RANK			
	1987	1988	1989	1990, Jan.-June	1987	1988	1989	1990, Jan.-June	1987	1988	1989	1990, Jan.-June
Total	40,985	21,493	10,553	4,353	100.0	100.0	100.0	100.0	(X)	(X)	(X)	(X)
Flight problems ¹	18,019	8,831	4,111	1,787	44.0	41.1	39.0	41.1	1	1	1	1
Baggage	7,438	3,938	1,702	767	18.1	18.3	16.1	17.6	2	2	2	2
Customer service ²	3,888	2,120	1,002	376	9.5	9.9	9.5	8.6	3	3	4	3
Refunds	3,313	1,667	1,023	445	8.1	7.8	9.7	10.2	4	4	3	4
Oversales	2,122	1,353	607	235	5.2	6.3	5.8	5.4	6	6	6	6
Reservations/ticketing/boarding ³	2,458	1,445	821	297	6.0	6.7	7.8	6.8	5	5	5	5
Smoking	888	546	232	47	2.2	2.5	2.2	1.1	8	7	8	9
Fares ⁴	937	455	341	157	2.3	2.1	3.2	3.6	7	8	7	7
Advertising	344	141	89	50	0.8	0.7	0.8	1.1	9	9	9	8
Credit	101	35	19	2	0.2	0.2	0.2	0.2	10	11	11	11
Tours	90	37	22	9	0.2	0.2	0.2	0.2	11	10	10	10
Other	1,387	925	584	181	3.4	4.3	5.5	4.2	(X)	(X)	(X)	(X)

¹ - Represents zero. ² X Not applicable. ³ Unhelpful employees, inadequate meals or cabin service, treatment of delayed. ⁴ problems, whether or not airline complied with DOT regulations. ⁵ Errors in reservations and obtaining tickets. ⁶ Incorrect or incomplete information about fares, discount etc.

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

No. 1080. Commuter/Regional Airline Operations—Summary: 1980 to 1989

[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 mean. For definition of mean, see Guide to Tabular Presentation]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989
Passenger carriers operating	Number	214	215	196	203	179	179	169	163	151
Passengers enplaned	Millions	14.8	18.6	21.8	26.1	26.0	28.4	31.8	35.2	37.4
Average passengers enplaned per carrier	1,000	69.2	86.5	111.2	128.1	152.4	158.4	187.7	213.9	247.4
Revenue passenger miles (RPM)	Billions	1.92	2.61	3.24	4.17	4.41	4.47	5.0	6.04	6.77
Average RPMs per carrier	Millions	8.97	12.14	16.53	20.46	24.64	24.98	29.60	37.05	44.84
Airports served	Number	732	817	854	853	854	824	834	861	817
Average trip length	Miles	129	141	149	160	173	158	158	173	181
Passenger aircraft operated	Number	1,339	1,573	1,545	1,747	1,745	1,806	1,841	1,801	1,907
Average seating capacity (seats)	Number	13.9	15.6	18.1	18.4	19.2	18.4	19.7	20.5	21.8
Fleet flying hours	1,000	1,740	2,180	2,415	2,764	2,854	2,929	2,942	3,078	3,266
Average annual utilization aircraft	Hours	1,299	1,373	1,563	1,582	1,635	1,622	1,598	1,709	1,712

¹ Adjusted to exclude a merger in 1986.

Source: Regional Airline Association, Washington, DC, 1990 Annual Report of the Regional Airline Industry (copyright).

No. 1081. Civil Flying—Summary: 1970 to 1989

[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	1983	1984	1985	1986	1987	1988	1989
Airports in operation ¹	Number	11,261	15,161	16,029	16,075	16,318	16,582	17,015	17,327	17,446
Heliports	Number	790	2,336	2,918	2,980	3,120	3,336	3,853	3,913	4,016
Public	Number	4,260	4,814	4,812	4,806	5,861	4,924	4,984	5,043	5,084
Private	Number	7,001	10,347	11,217	11,269	10,457	11,658	12,031	12,284	12,362
Airports with runway lights	Number	3,554	4,738	4,878	4,889	4,941	4,954	4,922	4,890	4,443
Airports with paved runways	Number	3,805	5,833	5,441	5,528	6,721	6,948	7,232	7,429	4,306
Miles (nautical) of Federal airways	1,000	324.7	411.1	364.4	364.8	368.5	332.0	332.8	334.8	368.6
Airport Improvement Program ²	Mil. dol.	50.5	639.0	321.5	793.3	842.1	1,615.3	918.4	1,278.3	1,271.2
Total civil aircraft ³	1,000	154.5	259.4	264.9	271.5	274.9	275.7	275.1	272.7	274.8
Active aircraft	1,000	134.5	214.8	217.5	225.3	215.4	224.9	222.4	215.9	(NA)
Air carriers, total ⁴	1,000	2.8	3.8	4.2	4.4	4.7	4.9	5.2	5.6	5.7
General aviation aircraft ⁵	1,000	131.7	211.0	213.3	220.9	210.7	220.0	217.2	210.3	(NA)
Fixed-wing aircraft:										
Multi-engine:	1,000	18.4	31.7	34.5	35.6	33.6	34.3	33.0	32.2	(NA)
Single-engine:										
4-place and over	1,000	64.6	107.9	107.2	109.9	105.6	109.4	107.5	105.2	(NA)
3-place and less	1,000	44.9	60.5	59.2	62.0	58.8	62.4	63.5	59.6	(NA)
Rotorcraft ⁶	1,000	2.2	6.0	6.5	7.1	6.4	6.9	6.3	6.4	(NA)
Balloons, blimps, gliders, etc.	1,000	1.6	5.0	5.9	6.3	6.3	7.0	6.8	6.9	(NA)
Airman certificates held	1,000	1,002	1,195	1,131	1,149	1,105	1,119	1,128	1,143	1,168
Pilot ⁷	1,000	733	827	718	722	710	709	700	694	700
Held by women	Percent	4.0	6.4	6.1	6.1	6.1	6.1	6.1	6.1	6.1
Airline transport	1,000	34	70	75	79	83	87	91	97	102
Commercial	1,000	187	183	159	155	152	148	144	143	145
Private	1,000	304	357	319	320	311	306	301	300	293
Student	1,000	196	200	147	150	147	150	146	137	143
Nonpilot ⁸	1,000	269	368	413	427	395	410	428	449	468
Ground technicians ⁹	1,000	241	321	365	376	341	353	367	385	401
FAA employees: Total	Number	(NA)	55,340	46,993	47,178	47,245	46,809	47,907	49,210	50,977
Air traffic control specialists ¹⁰	Number	(NA)	27,190	22,638	23,234	23,580	23,515	24,132	24,803	24,368
Full performance ¹¹	Number	(NA)	16,317	15,458	11,031	11,672	12,533	11,617	12,180	12,640
Developmental ¹¹	Number	(NA)	4,387	15,458	4,848	4,304	3,976	5,462	5,495	5,574
Assistants ¹¹	Number	(X)	(X)	1,367	1,475	1,465	1,479	1,481	1,283	1,316
Traffic management coordinators ¹²	Number	(X)	(X)	(X)	(X)	(X)	(X)	278	347	350
Electronic technicians	Number	(NA)	8,871	7,633	7,229	6,856	6,600	6,788	6,627	6,508
Aviation safety inspectors	Number	(NA)	2,038	1,805	1,945	1,897	2,204	2,350	2,499	2,766
Engineers	Number	(NA)	2,436	2,313	2,419	2,457	2,417	2,579	2,640	2,657
Other	Number	(NA)	14,805	12,604	12,351	12,455	12,073	12,058	12,641	14,678
General aviation: ⁵										
Hours flown	Million	26.0	41.0	35.2	36.1	34.1	34.4	33.4	33.6	35.0
Fuel consumed: ¹³										
Gasoline	Mil. gal.	362	520	428	462	420	410	402	398	(NA)
Jet fuel ¹⁴	Mil. gal.	415	766	613	739	691	732	672	746	(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. 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. ² Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1980 data are obligated Federal funds for the Airport Development Aid Program. 1983-1989 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1982. ³ Registered aircraft that flew 1 or more hours during the year. ⁴ Includes helicopters. ⁵ See text, section 22. ⁶ Includes autogyros; excludes air carrier helicopters. ⁷ 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. ⁸ Includes dispatchers, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. ⁹ No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. ¹⁰ Includes all air traffic control specialists (staff positions, managers, supervisors, and for 1970-1986 traffic management coordinators, not shown separately) and air traffic assistants. ¹¹ Serving in-flight service stations, towers, and centers. ¹² Prior to 1987, included in total air traffic control specialists. ¹³ Source: 1970, U.S. Bureau of Mines; thereafter, FAA General Aviation Activity and Avionics Survey. ¹⁴ Includes kerosene-type and naphtha-type jet fuels.

Source: Except as noted, 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. 1082. U.S. Aircraft Shipments, 1970 to 1990, and Projections, 1991

(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	3,987
1975	16,918	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	378	330	936	14,216
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	3,471	30,902	398	15,074	1,535	1,804	515	251	1,023	13,773
1990 ³	3,215	39,794	524	23,200	1,118	1,921	590	200	983	14,473
1991 ⁴	3,211	43,455	610	27,555	1,200	2,075	600	204	801	13,621

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*, 1991.**No. 1083. Employment and Earnings in Aircraft Industries: 1975 to 1989**

(Annual averages of monthly figures)

1987 SIC ¹ code	ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989
(X)	Employment: Total	1,000	596	746	729	794	856	883	893	907
3721	Aircraft	1,000	293	349	306	326	339	356	369	383
3724	Aircraft engines and engine parts	1,000	126	163	140	148	154	158	156	155
3728	Aircraft equipment, n.e.c. ²	1,000	84	123	129	143	163	163	160	174
376	Guided missiles, space vehicles, and parts	1,000	93	111	154	177	200	208	208	195
(X)	Average weekly earnings: ³									
3721	Aircraft	Dollars	256	404	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3724	Aircraft engines and parts	Dollars	247	394	523	542	561	567	582	616
376	Guided missiles, space vehicles, and parts	Dollars	245	378	496	518	517	541	567	589
(X)	Average hourly earnings: ³									
3721	Aircraft ⁴	Dollars	6.21	9.66	12.91	13.18	13.48	13.74	14.18	14.89
3724	Aircraft engines and parts	Dollars	6.04	9.42	12.40	12.85	13.08	13.33	13.80	14.42
376	Guided missiles, space vehicles, and parts	Dollars	6.02	9.22	11.82	12.14	12.20	12.73	13.13	13.70

NA Not available. X Not applicable. ¹ 1987 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; \$14.65 in 1988; and \$15.41 in 1989.Source: U.S. Bureau of Labor Statistics, Bulletin 2370 and *Employment and Earnings*, monthly.**No. 1084. Aerospace Industry—Summary, 1980 to 1990, and Projections, 1991**

[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	1983	1984	1985	1986	1987	1988	1989	1990 ¹	1991 ²
INDUSTRY DATA											
Value of shipments	Mil. dol.	58,483	74,823	77,826	90,795	100,999	103,563	108,678	101,971	119,820	127,642
In 1987 dollars	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	103,563	111,565	101,864	114,981	119,137
Employment, total	1,000	721	690	693	746	798	809	832	831	814	807
Production workers	1,000	367	341	344	372	400	407	399	397	393	389
Average hourly earnings	Dol.	9.90	13.08	13.24	13.88	14.37	14.92	15.00	(NA)	(NA)	(NA)
Capital expenditures	Mil. dol.	1,923	2,158	3,050	3,784	4,144	3,611	3,401	(NA)	(NA)	(NA)
PRODUCT DATA											
Value of shipments	Mil. dol.	53,296	66,229	70,200	80,625	90,907	97,169	102,620	95,652	112,989	116,232
In 1987 dollars	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	97,169	105,405	93,846	108,365	108,467

NA Not available. ¹ Estimated. ² Forecast.Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook*, 1991.

No. 1085. Aerospace—Sales, New Orders, and Backlog: 1970 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989 ¹
Net sales	24.8	29.5	58.4	75.5	83.5	88.9	100.5	105.6	110.3	113.5	121.2
Percent of U.S. Government	66.3	58.7	45.6	55.9	58.8	62.7	63.2	61.9	62.2	60.0	59.0
Complete aircraft and parts ²	10.4	11.3	22.6	23.2	27.3	28.3	34.2	38.0	37.0	35.7	37.9
Aircraft engines and parts	3.1	3.4	6.9	8.7	8.6	9.1	9.7	9.8	12.0	15.0	15.4
Missiles and space vehicles, parts	5.4	6.3	8.4	5.7	12.7	13.6	16.7	17.5	20.7	21.5	22.6
Other products, services	5.9	8.5	20.5	37.9	34.8	38.0	39.8	40.3	40.5	41.3	45.2
Net, new orders	21.2	29.0	70.4	84.9	91.6	104.9	111.0	110.8	121.2	147.1	176.5
Backlog, Dec. 31	24.7	35.0	90.5	103.5	116.6	132.5	143.0	148.2	158.7	191.5	246.8

¹ Data for 1989 are not comparable with earlier years. Data are being reported for 1989 which were previously not available. The extent of this noncomparability is not known. ² Except engines sold separately.

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

No. 1086. Aerospace Industry Sales, by Product Group and Customer: 1975 to 1991

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1085]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS ³					
	1975	1980	1985	1989	1990 ¹	1991 ²	1975	1980	1985	1989	1990 ¹	1991 ²
Total sales	29.7	54.7	96.6	117.6	131.4	133.1	56.0	68.1	86.6	101.0	106.3	102.6
PRODUCT GROUP												
Aircraft, total	16.4	31.5	50.5	61.0	69.7	70.2	31.0	39.2	45.3	53.7	56.4	54.1
Civil	6.5	16.3	13.7	22.1	31.4	38.1	12.2	20.3	12.3	16.8	25.4	29.3
Military	10.0	15.2	36.8	38.9	38.3	32.1	18.8	18.9	33.0	36.9	31.0	24.8
Missiles	3.8	6.5	11.4	11.2	10.6	10.1	7.1	8.1	10.3	9.1	8.6	7.8
Space	4.7	7.9	18.6	25.8	29.2	30.6	8.8	9.9	16.6	21.4	23.6	23.5
Related products and services ⁵	4.8	8.8	16.1	19.6	21.9	22.2	9.0	11.0	14.4	16.8	17.7	17.1
CUSTOMER GROUP												
Aerospace, total	24.9	45.9	80.5	98	109.5	110.9	47.0	57.1	72.2	84.2	88.6	85.5
DOD ⁶	13.1	22.8	53.2	58.5	56.8	48.6	24.8	28.4	47.7	54.1	45.9	37.4
NASA and other agencies	2.8	4.1	6.3	9.6	12.0	13.5	5.4	5.1	5.6	7.0	9.7	10.4
Other customers ⁸	8.9	19.0	21.0	29.9	40.8	48.9	16.9	23.6	18.9	23.1	33.0	37.6
Related products and services ⁵	4.8	8.8	16.1	19.6	21.9	22.2	9.0	11.0	14.4	16.8	17.7	17.1

¹ Preliminary. ² Estimate. ³ Based on aerospace composite price deflator supplied by the U.S. International Trade Administration. ⁴ All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). ⁵ 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. ⁶ Department of Defense. ⁷ National Aeronautics and Space Administration. ⁸ Includes civil aircraft sales (see footnote 4), 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*, 1990/91.

No. 1087. U.S. Exports of Aerospace Vehicles and Equipment, 1987 to 1990, and Projections, 1991

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1987	1988	1989	1990 ¹	1991 ²	1987	1988	1989	1990 ¹	1991 ²
Aerospace vehicles and equipment	(NA)	(NA)	(NA)	(NA)	(NA)	23,452	26,915	32,884	40,957	49,284
Civilian aircraft	1,812	2,784	3,840	4,051	4,641	7,518	10,294	14,257	19,519	24,694
Under 10,000 lbs. empty weight, new	473	619	1,638	1,246	1,400	254	298	265	308	286
10,000-33,000 lbs. empty weight, new	15	24	48	77	92	42	49	164	227	256
Over 33,000 lbs. empty weight, new	170	217	260	300	600	6,377	8,766	13,122	17,878	23,030
Rotocraft, new	240	280	294	364	382	200	219	155	133	140
Other new aircraft, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	141	323	18	12	14
Used, rebuilt, and converted	914	1,644	1,700	2,064	2,167	504	639	533	961	968
Military aircraft	(NA)	(NA)	846	422	432	3,587	2,157	892	1,762	2,090
Aircraft engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	4,396	5,420	6,629	6,710	7,910
Piston engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	352	389	438	423	419
Complete engines, new and used	3,099	6,260	8,653	6,424	6,200	57	57	131	115	111
Engine parts	(NA)	(NA)	(NA)	(NA)	(NA)	295	332	307	308	308
Turbine engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	4,044	5,031	6,191	6,287	7,491
Complete engines, new and used	1,831	2,486	3,917	3,286	4,200	1,322	1,705	2,053	1,835	2,484
Engine parts	(NA)	(NA)	(NA)	(NA)	(NA)	2,722	3,326	4,138	4,452	5,007
Propellers and parts	(NA)	(NA)	(NA)	(NA)	(NA)	47	75	271	310	372
Landing gear and parts	(NA)	(NA)	(NA)	(NA)	(NA)	131	125	273	264	310
Aircraft parts, n.e.c. ³	(NA)	(NA)	(NA)	(NA)	(NA)	6,497	7,228	8,198	9,421	10,363
Guided missiles and parts	(NA)	(NA)	(NA)	(NA)	(NA)	389	434	732	733	851
Flight simulators	(NA)	(NA)	(NA)	(NA)	(NA)	107	159	206	209	230
Space launch equipment	(NA)	(NA)	(NA)	(NA)	(NA)	457	622	1,042	1,429	1,644
Avionics	(NA)	(NA)	(NA)	(NA)	(NA)	323	401	384	600	820

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*, 1991.

No. 1088. U.S. Receipts and Payments for International Transportation: 1970 to 1989

[In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1385). 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	1982	1983	1984	1985	1986	1987	1988	1989
Total receipts	3,672	14,208	15,491	16,200	17,823	18,997	20,915	23,854	27,710	30,517
Ocean transportation	2,256	7,757	7,685	8,133	8,849	8,846	9,169	10,060	11,135	11,628
Export freight earnings	604	2,641	2,549	2,881	2,702	2,866	2,610	2,806	2,959	3,065
Freight earnings on shipments between foreign countries	209	588	555	575	563	574	578	595	708	755
Port expenditures	1,406	4,435	4,468	4,562	5,457	5,274	5,843	6,514	7,315	7,609
Charter hire	37	93	113	115	127	132	140	145	153	199
Air transportation	1,243	5,946	7,326	7,596	8,459	9,670	10,877	12,809	15,563	17,913
Export freight earnings	187	742	762	576	645	706	783	982	1,385	1,719
Passenger fares	544	2,591	3,174	3,610	4,014	4,323	5,457	6,866	8,771	10,101
Port expenditures	512	2,613	3,390	3,410	3,800	4,641	4,637	4,961	5,407	6,093
Other transportation	173	505	480	471	515	481	669	985	1,012	976
Total payments	4,058	15,397	16,482	18,225	20,721	22,293	23,381	25,496	27,607	29,313
Ocean transportation	2,380	8,447	8,307	8,624	10,560	11,018	11,619	11,649	12,641	12,641
Import freight payments	1,444	5,809	5,562	5,827	7,755	8,114	8,636	8,657	9,505	9,483
Passenger fares	245	268	290	305	305	320	320	328	328	322
Port expenditures	316	1,905	1,957	1,980	1,972	2,048	2,125	2,114	2,244	2,228
Charter hire	375	465	498	512	528	536	538	550	564	608
Air transportation	1,581	6,705	7,938	9,361	9,918	11,049	11,473	13,515	14,585	16,280
Import freight payments	115	562	725	1,066	1,633	1,866	2,051	2,242	2,226	2,197
Passenger fares	970	3,339	4,462	5,698	5,573	6,330	6,346	7,083	7,604	8,200
Port expenditures	496	2,804	2,731	2,597	2,712	3,053	3,076	4,190	4,755	5,883
Other transportation	97	245	237	240	243	226	289	332	381	392
Balance	-386	-1,189	-991	-2,025	-2,898	-3,296	-2,466	-1,642	103	1,204

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

No. 1089. Water Transportation Industry—Summary: 1987

[For establishments with payroll. Based on the 1987 Census of Transportation; see source for details]

1987 SIC code ¹	KIND OF BUSINESS	Establishments (number)	Revenue (mil. dol.)	Annual payroll (mil. dol.)	First quarter payroll (mil. dol.)	Paid employees ² (number)
44	Water transportation	7,032	20,637.9	4,317.1	1,004.8	169,014
441,2,3,4	Water transportation of freight	778	8,938.4	1,352.5	310.2	40,079
441,2	Deep sea foreign and domestic freight	470	7,834.3	1,013.3	237.4	28,472
441,2	Deep sea foreign freight	273	5,220.8	577.7	128.1	16,787
442,4	Deep sea domestic freight	197	2,613.5	435.6	109.3	11,885
443,4	Other water transportation of freight	306	2,104.1	339.2	72.8	11,607
443,2	Great Lakes-St. Lawrence Seaway freight	24	228.9	54.0	6.9	1,001
444,9	Water transportation of freight, n.e.c. ³	282	1,875.2	285.3	65.9	10,606
448	Water transportation of passengers	592	2,342.3	340.6	78.9	19,976
448,2	Ferries	101	95.6	29.9	5.1	1,592
448,1,9	Water transportation of passengers, except by ferry	491	2,246.7	310.7	73.8	18,384
448,1	Deep sea transportation	104	1,933.9	231.4	59.4	13,780
448,9	Water transportation, n.e.c. ³	387	312.8	79.3	14.4	4,604
449	Services incidental to water transportation	5,664	8,357.2	2,624.0	615.7	108,959
449,3	Marinas	2,641	1,454.6	263.1	52.9	16,433
449,1,2,9	Other services incidental to water transportation	3,023	6,902.6	2,360.8	562.9	92,526
449,1	Marine cargo handling	851	3,998.3	1,660.9	395.9	62,543
449,2	Towing and tugboat services	880	1,482.1	460.1	113.3	20,235
449,9	Water transportation services, n.e.c. ³	1,292	1,422.3	239.9	53.6	9,748

¹ 1987 Standard Industrial Classification Code; see text, section 13.

² Paid employees for pay period including March 12.

³ N.e.c. means not elsewhere classified.

Source: U.S. Bureau of the Census, *1987 Census of Transportation*, Geographic Area Series, TC87-A-1.

No. 1090. 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.	0.9	2.3	1.8	2.1	2.4	3.0	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. 1091. Federal Expenditures for Civil Functions of the Corps of Engineers, United States Army: 1960 to 1989

[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	Navigation	Flood control	Multiple purpose	FISCAL YEAR	Total program ¹	Navigation	Flood control	Multiple purpose
1960	873	310	293	270	1982	2,940	1,331	1,083	453
1965	1,169	426	447	283	1983	2,959	1,290	1,088	482
1970	1,128	398	379	331	1984	3,085	1,383	1,154	445
1975	2,070	694	904	439	1985	2,956	1,234	1,187	419
1977	2,340	792	918	594	1986	3,163	1,345	1,300	402
1978	2,645	951	1,069	583	1987	2,937	1,135	1,272	411
1979	2,934	1,083	1,218	577	1988	3,086	1,271	1,271	423
1980	3,061	1,225	1,228	551	1989	3,252	1,395	1,253	462
1981	3,198	1,339	1,273	527					

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. 1092. Freight Carried on Inland Waterways, by System: 1960 to 1988

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

ITEM	1960	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Total	220.3	318.6	424.6	406.9	410.2	351.2	359.0	399.0	381.7	392.6	410.7	438.2
Atlantic coast waterways	28.6	28.6	31.9	30.4	28.3	25.4	22.5	24.7	24.8	25.7	25.9	28.1
Gulf coast waterways	16.9	28.6	38.1	36.6	35.1	31.8	32.4	36.7	36.5	39.0	37.9	44.6
Pacific coast waterways ¹	6.0	8.4	14.1	14.9	14.4	12.8	13.2	20.5	19.9	20.8	22.8	24.5
Mississippi River system ²	69.3	138.5	218.8	228.9	234.4	218.0	223.0	234.6	224.7	239.3	251.6	257.8
Groat Lakes System ³	99.5	114.5	121.7	96.0	98.0	63.2	67.9	62.5	75.8	67.9	72.5	83.1

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

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

No. 1093. Domestic and Foreign Waterborne Commerce, by Type of Commodity: 1970 to 1988

[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 1094 due to minor differences in basic concepts]

COMMODITY	1970		1980		1985		1988			
	Total	Domestic	Total	Domestic	Total	Domestic	Total	Domestic	Foreign	
									Imports	Exports
Net total	1,531.7	950.7	1,998.9	1,077.5	1,788.4	1,014.1	2,088.0	1,111.8	549.9	426.3
Petroleum products ¹	394.7	287.3	423.2	339.2	368.8	259.0	435.9	288.5	107.0	40.4
Gasoline	89.3	88.7	87.3	81.0	94.0	78.0	108.3	85.0	22.2	1.1
Distillate fuel oil	78.8	76.9	74.6	72.1	70.0	55.0	78.2	56.4	17.9	3.9
Residual fuel oil	170.5	78.8	188.0	141.3	130.0	83.7	152.5	91.9	48.0	12.6
Crude petroleum	210.5	116.3	480.2	174.2	357.7	194.7	451.9	199.2	252.5	0.2
Coal and lignite	225.4	154.1	256.4	164.1	273.9	179.9	292.3	196.8	0.9	94.6
Nonmetallic minerals ^{1,2}	166.6	132.6	157.1	111.6	150.7	108.5	161.3	116.1	24.9	20.3
Sand and gravel ¹	78.4	73.9	65.1	60.8	66.4	62.0	68.9	62.6	4.8	1.5
Limestone	42.0	34.1	34.2	23.9	24.5	21.9	37.1	33.1	0.7	3.3
Phosphate rock	16.6	5.8	23.7	9.5	19.4	8.4	16.2	5.7	0.7	9.8
Iron and concentrates	129.3	75.2	98.4	64.9	72.7	50.0	87.3	60.8	20.9	5.6
Farm products ¹	90.4	28.5	216.8	63.4	172.8	60.0	203.9	67.9	6.5	129.5
Corn	27.2	11.7	98.6	30.8	76.3	29.0	81.6	32.1	(2)	49.5
Wheat	25.0	5.8	53.4	14.3	38.0	10.6	59.1	14.4	0.1	44.6
Soybeans	21.2	8.3	39.6	16.1	32.9	14.9	35.6	16.2	(2)	19.4
Chemicals and allied products	62.0	39.7	91.9	49.4	108.5	53.3	132.9	66.5	28.8	37.6
Food and kindred products	35.0	11.0	54.8	20.4	52.5	17.6	64.2	23.4	12.7	28.1
Lumber and wood products ⁴	49.9	27.3	52.0	22.7	47.2	18.8	58.3	20.2	5.1	33.0
Primary metal products	42.4	10.8	28.9	9.0	33.4	8.5	33.5	10.0	21.1	2.4
Waste and scrap	25.9	16.0	31.1	18.8	37.4	23.9	51.9	34.9	2.0	15.0
Other	99.7	51.9	108.1	39.8	112.8	40.0	114.6	27.5	67.5	19.6

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

⁵ Excludes furniture.

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

No. 1094. Waterborne Imports and Exports—Cargo Tonnage and Value, by Coastal District: 1970 to 1989

[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	1985	1986	1987	1988	1989	1970	1980	1985	1986	1987	1988	1989		
Imports:																
Atlantic	219	183	190	216	224	234	233	15.0	71.5	94.4	97.5	105.8	107.4	109.3		
Gulf	47	243	141	171	184	212	239	2.9	56.4	32.8	27.0	30.5	31.2	36.1		
Pacific	31	56	51	53	56	55	61	5.5	45.0	90.4	104.0	118.4	126.5	140.9		
Great Lakes	26	16	17	14	14	16	18	1.3	1.9	2.8	2.3	2.0	2.5	3.7		
Exports:																
Atlantic	79	117	93	83	78	92	104	11.9	51.0	35.2	36.3	38.7	48.2	56.3		
Gulf	78	163	144	135	155	162	166	6.9	41.5	31.8	29.0	31.6	37.9	40.9		
Pacific	48	78	81	82	95	110	114	4.1	25.2	25.8	26.3	31.9	43.3	50.1		
Great Lakes	36	45	34	32	32	37	37	1.4	4.6	2.4	1.9	2.1	3.2	3.6		

Source: U.S. Bureau of the Census, *U.S. Waterborne Exports and General Imports*, through 1988, FT 985, annual; thereafter TM 985, monthly.

No. 1095. Vessels Entered and Cleared in Foreign Trade—Net Registered Tonnage, by Flag of Carrier Vessel: 1966 to 1989

[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	209	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
1989	64,946	587	44	7.4	543	558	42	516	367	31	335
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	38	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
1989	63,042	590	45	7.6	545	561	44	517	304	30	274

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, through 1986, FT 975, annual; thereafter TA 987, annual.

No. 1096. Domestic Merchant Vessels Completed by U.S. Shipyards: 1970 to 1988

[Vessels of 1,000 gross tons and over. See also *Historical Statistics, Colonial Times to 1970*, series Q 438-48]

TYPE	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Merchant vessels	Number	13	15	15	10	12	11	13	5	8	5	4	4
Gross tons	1,000	342	452	1,149	375	275	337	376	118	172	215	153	153
Cargo	Number	6	3	4	6	2	6	6	-	4	2	3	3
Gross tons	1,000	120	65	53	105	53	221	228	-	113	66	58	58
Deadweight tons	1,000	134	71	47	114	73	219	219	-	97	53	63	63
Tankers	Number	7	12	11	4	10	5	7	5	4	3	1	1
Gross tons	1,000	222	387	1,096	270	222	116	148	118	59	149	95	95
Deadweight tons	1,000	427	742	1,901	354	358	226	277	210	92	271	209	209

- Represents zero.

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

No. 1097. United States Flag Merchant Vessels—Number and Vessel Deadweight Tonnage: 1970 to 1989

[Deadweight tonnage in thousands. As of end of fiscal year; see text, section 9. Covers ocean-going 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	1987	1988	1989	1970	1980	1985	1987	1988	1989
Number of vessels	1,479	553	485	470	432	422	301	310	263	254	251	239
Active:												
Foreign trade	354	195	129	97	128	125	32	32	32	38	42	39
Domestic trade	70	46	36	40	42	32	175	211	135	130	135	126
Coastwise	10	12	4	11	7	7	132	103	24	81	80	82
Noncontiguous	43	34	30	29	35	25	35	45	52	49	55	44
Special service	146	44	45	37	31	36	42	23	26	25	25	25
Inactive:												
Temporarily	41	31	58	60	14	17	22	24	50	38	17	21
Reserve fleet	868	237	217	236	217	212	30	20	20	23	32	28
Vessel deadweight tonnage	15,445	7,872	8,792	9,040	8,887	8,726	7,835	16,107	15,647	16,074	16,790	15,731
Active:												
Foreign trade	4,699	3,826	3,623	2,528	3,861	3,883	1,076	2,793	1,825	2,174	3,495	3,368
Domestic trade	850	713	659	881	875	697	4,518	10,546	8,909	8,700	9,464	8,270
Coastwise	116	200	108	340	220	203	3,483	3,078	1,028	3,386	3,202	3,429
Noncontiguous	482	479	509	541	655	484	870	3,699	5,534	5,314	6,262	4,841
Special service	1,741	560	932	796	743	752	1,189	661	747	744	744	750
Inactive:												
Temporarily	472	451	1,169	1,748	477	497	691	1,806	3,758	3,530	1,818	2,560
Reserve fleet	7,684	2,322	2,409	3,087	2,931	2,897	361	301	408	926	1,269	783

¹ Includes combination passenger and cargo vessels, not shown separately. ² Prior to 1987 includes intercoastal, not shown separately. ³ Beginning 1987, 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. 1098. Private Shipyards—Summary: 1970 to 1990

[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	1983	1984	1985	1986	1987	1988	1989	1990
Employment	1,000 . .	133.4	177.3	143.0	142.0	130.3	120.6	120.4	121.0	123.4	¹ 131.4
Production workers	1,000 . .	108.5	141.8	112.0	111.0	99.0	90.3	90.8	90.9	88.6	96.1
Value of work done	Mil. dol.	2,682	9,269	9,883	8,944	9,358	8,840	8,531	(NA)	(NA)	(NA)
On ships only	Mil. dol.	2,594	8,889	9,107	8,308	9,483	8,913	8,377	(NA)	(NA)	(NA)
Value added	Mil. dol.	1,616	5,338	5,752	5,206	5,740	5,426	5,227	(NA)	(NA)	(NA)
Building activity:											
Merchant vessels: ²											
Under construction ³	Number	49	69	21	10	10	7	6	-	-	-
Ordered	Number	13	7	4	5	-	-	-	-	-	-
Delivered	Number	13	23	15	5	3	1	4	-	-	-
Cancelled	Number	-	4	-	-	-	-	2	-	-	-
Under contract ⁴	Number	49	49	10	10	7	6	-	-	-	-
Naval vessels: ²											
Under construction ³	Number	108	99	105	111	100	85	79	83	105	98
Ordered	Number	6	11	27	11	11	16	20	32	16	(NA)
Delivered	Number	32	19	21	22	26	20	16	10	23	(NA)
Under contract ⁴	Number	82	91	111	100	85	⁵ 79	83	105	98	(NA)
Repairs/conversions:											
Commercial ships	Mil. dol.	431	1,335	1,419	1,631	852	847	806	(NA)	(NA)	(NA)
Naval ships	Mil. dol.	359	1,134	1,689	1,641	2,311	2,008	1,930	(NA)	(NA)	(NA)
Unfinished work: ³											
Commercial ships	Mil. dol.	765	2,070	372	100	450	315	53	-	-	-
Naval ships	Mil. dol.	1,719	7,107	12,200	14,003	12,091	9,595	8,265	10,500	16,010	(NA)

- 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 1980; thereafter, unpublished data.

No. 1099. Employees in Government and Private Shipyards: 1960 to 1989

[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	1980	251	178	73	1985	219	138	80
1970	216	134	83	1981	264	187	77	1986	206	131	75
1975	217	154	65	1982	252	172	80	1987	199	124	75
1978	243	172	71	1983	227	143	84	1988	197	124	73
1979	244	173	71	1984	229	146	83	1989	196	126	70

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

No. 1100. Employment on U.S. Flag Merchant Vessels, 1970 to 1989, and Basic Monthly (January) Wage Scale for Able-Bodied Seamen, 1970 to 1990

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

YEAR	Employment	YEAR	Employment	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	1984	13.7	1970	\$470	\$652	1985	\$1,419	\$2,069
1975	20.5	1985	13.1	1975	612	900	1986	1,419	2,132
1980	19.6	1986	11.5	1979	865	1,287	1987	1,419	2,132
1981	18.3	1987	10.4	1980	967	1,414	1988	1,419	2,175
1982	16.7	1988	10.7	1983	1,320	1,862	1989	1,448	2,218
1983	15.3	1989	9.9	1984	1,419	2,029	1990	1,505	2,218

¹ As of June 30, except beginning 1980, 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. 1101. Worldwide Tanker Casualties: 1975 to 1990

[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	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹
Casualties	Number	906	(NA)	(NA)	(NA)	(NA)	340	451	408	456	528	151
Total losses	Number	22	15	21	11	14	12	8	5	3	8	1
Deaths	Number	90	132	72	14	68	53	23	12	63	74	19
Oil spills	Number	45	32	9	17	15	9	8	12	13	31	8
Amount	1,000 ton	188.0	135.6	1.8	387.8	22.4	79.8	5.0	8.7	178.3	188.0	3.5

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

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

No. 1102. Merchant Vessels—World and United States: 1960 to 1989

[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	36,311	129,770	49	379	4,059	24,837
1970	2,814	20,980	52,444	227,490	156	375	2,983	18,463
1980	2,412	13,101	73,832	419,911	205	555	5,579	18,464
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	164	6,427	20,178
1988	1,575	10,909	75,680	403,406	60	11	6,442	20,832
1989	1,593	13,236	76,100	410,481	10	4	6,375	20,588

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

No. 1103. Merchant Vessels—Ships and Tonnage Lost Worldwide, by Type of Ship: 1980 to 1988

[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	1987	1988		1980	1985	1987	1988	
				Total	Percent of total				Total	Percent of total
Total ¹	387	307	219	231	100.0	1,804	1,651	1,284	865	100.0
Tankers	24	19	12	9	3.9	707	776	358	327	37.8
Ore/bulk carriers ²	21	22	18	8	3.5	458	405	522	133	15.4
General cargo	211	155	105	110	47.6	478	363	332	227	26.2
Container ships	2	5	3	4	1.7	6	41	22	26	3.0
Passenger ³	9	-	-	2	0.9	112	-	-	11	1.3
Fishing	96	66	51	60	26.0	30	26	19	22	2.6

- 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. 1104. Merchant Fleets of the World: 1980 to 1988

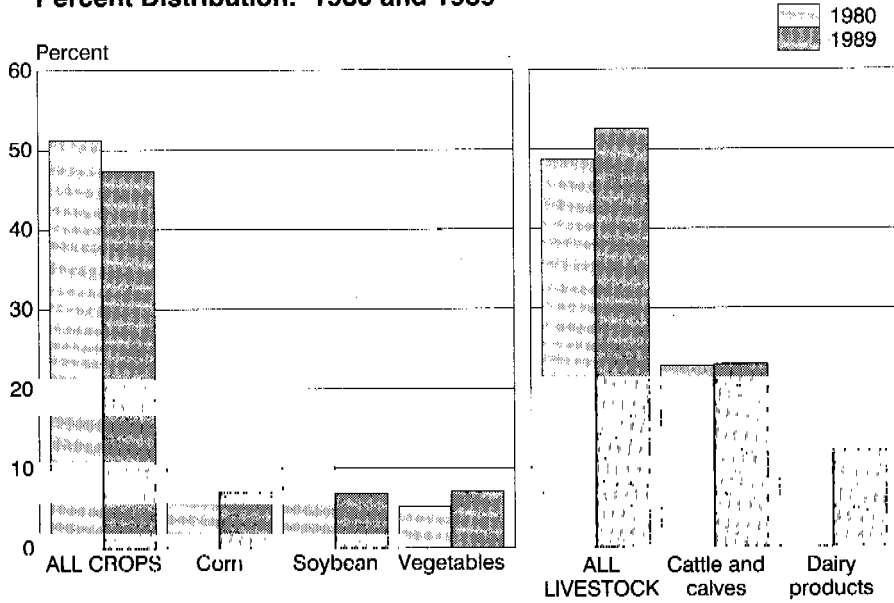
[Vessels of 1,000 gross tons and over. As of Jan. 1 of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, 1988	TOTAL		PASSENGER/CARGO COMB.		FREIGHTERS		BULK CARRIERS ¹		TANKERS	
	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)
1980, world total.	24,867	13	468	24	14,242	14	4,798	10	5,359	12
United States	864	23	65	22	471	23	20	22	308	20
Foreign	24,003	13	403	24	13,771	13	4,778	10	5,051	11
1985, world total.	25,555	14	375	25	13,937	15	5,787	11	5,458	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
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
Foreign	22,598	14	320	22	12,166	15	5,276	12	4,836	13
1988, world total.	23,468	14	368	23	12,518	15	5,332	12	5,250	14
United States	675	22	21	41	381	24	26	12	247	19
Privately-owned	424	16	5	36	178	14	26	12	215	18
Government-owned	251	33	16	43	203	32	(X)	32	31	31
Foreign	22,793	14	347	22	12,137	15	5,306	12	5,003	13
Argentina	144	18	-	-	75	18	19	16	50	17
Brazil	331	14	3	28	134	19	99	9	95	13
British Colonies	545	15	6	16	246	17	183	12	110	15
Bulgaria	116	15	3	16	52	16	46	14	15	17
China: Mainland	1,235	18	12	25	833	19	224	15	166	17
Taiwan	221	12	1	18	150	13	55	10	15	13
Cyprus	1,140	15	5	32	587	15	423	15	125	15
Denmark (DIS) ²	151	7	-	-	97	8	6	8	48	7
East Germany	149	14	1	8	127	15	17	13	4	10
Egypt	135	17	7	27	103	18	15	7	10	20
France	158	12	6	10	76	11	17	8	59	14
Greece	974	15	33	28	266	18	470	13	205	16
Honduras	135	25	1	34	100	26	14	24	20	23
India	312	13	6	24	122	15	114	11	70	10
Indonesia	336	19	9	13	223	21	12	8	92	16
Iran	121	13	-	-	37	17	51	10	33	15
Italy	500	16	14	19	194	16	69	14	223	17
Japan	1,118	8	15	10	473	7	316	9	314	8
Liberia	1,405	12	13	16	285	12	505	12	602	11
Malaysia	164	15	-	-	103	17	20	10	41	12
Malta	240	18	2	56	123	18	63	18	52	18
Netherlands	367	9	6	29	263	9	17	8	61	8
Norway	108	14	8	29	59	14	10	13	31	13
Norway (NIS) ²	366	12	9	85	85	12	96	12	176	12
Panama	3,304	12	39	29	1,742	13	895	10	628	11
Philippines	562	13	13	28	239	15	272	8	38	25
Poland	261	13	3	9	156	13	95	12	7	14
Romania	299	12	-	-	219	12	68	12	12	10
Singapore	417	12	-	-	218	14	72	9	127	11
South Korea	434	14	-	-	221	15	148	12	65	14
Soviet Union	2,434	17	34	25	1,716	17	240	12	444	15
Spain	346	13	2	1	200	13	57	12	87	15
Sweden	156	13	3	17	80	12	14	16	59	14
Thailand	110	21	-	-	78	22	1	19	31	21
Turkey	342	14	5	35	228	12	57	16	52	16
United Kingdom	242	14	14	16	107	13	33	10	88	15
West Germany	390	6	6	11	321	6	13	5	50	8
Yugoslavia	264	14	3	26	167	14	82	13	12	13
All others	2,761	(NA)	65	(NA)	1,612	(NA)	398	(NA)	686	(NA)

- Represents zero. NA Not available. X Not applicable. ¹ Includes bulk/oil, ore/oil, and ore/bulk/oil carriers. ² International Shipping Registry which is an open registry under which the ship flies the flag of the specified nation but is exempt from certain taxation and other regulations.

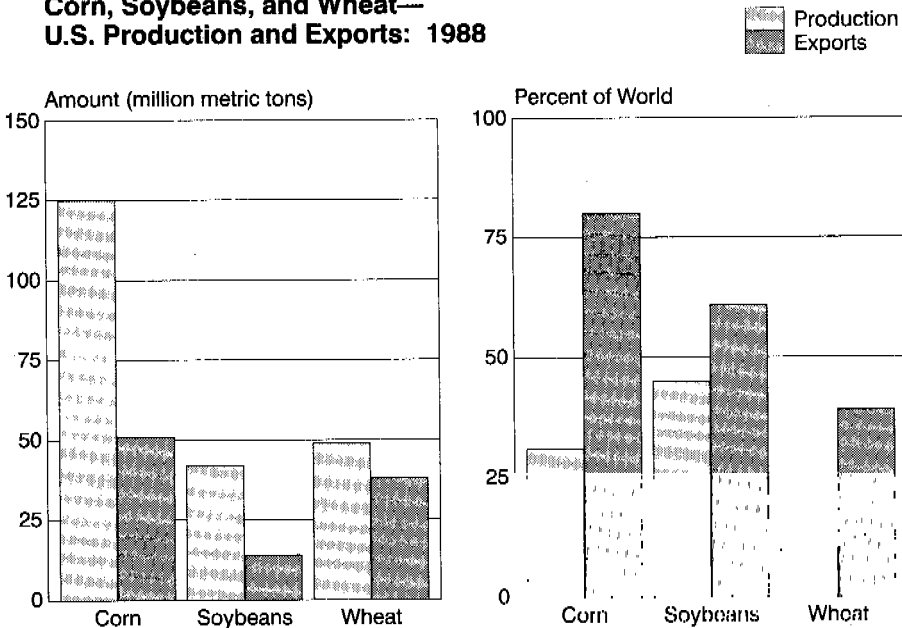
Source: U.S. Maritime Administration, *Merchant Fleets of the World*, summary report, annual.

Figure 23.1
**Farm Marketings Cash Receipts—
 Percent Distribution: 1980 and 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1131.

Figure 23.2
**Corn, Soybeans, and Wheat—
 U.S. Production and Exports: 1988**



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1148.



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. Imports for Consumption and General Imports—HTSUSA Commodity by Country of Origin* (FT 247), *U.S. Exports, Harmonized Schedule B, Commodity by Country* (FT447) and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption* (FT925).

The 45 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, 1982, and 1987 indicate about 3.4, 9.1, and 7.2 percent of all farms, respectively, were not included in census totals. Farms undercounted in these censuses were usually small and accounted for approximately 1 percent of the total value of agricultural

products sold and approximately 2 percent of the land in farms. For more explanation about mail list compilation and census coverage, see Appendixes A and C, *1987 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 1156, 1158-1163, 1166, and 1167 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.

No. 1105. Food and Fiber Sector of Domestic Economy—Employment and Value Added: 1975 to 1989

[Employment in millions; value added in billions of dollars, except as indicated]

SECTOR	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
EMPLOYMENT										
Food and fiber sector, total.	20.3	21.4	21.8	21.5	21.4	21.1	20.7	20.1	19.9	21.1
Percent of domestic economy ¹	21.6	20.1	19.8	19.3	18.9	18.2	17.6	16.7	16.3	17.0
Farm sector	3.0	2.6	2.6	2.8	2.7	2.3	2.2	1.9	1.9	2.5
Nonfarm sector	17.2	18.9	19.2	18.7	18.7	18.7	18.6	18.2	18.0	18.6
Food processing	1.5	1.5	1.6	1.5	1.4	1.5	1.4	1.3	1.2	1.3
Manufacturing	3.3	3.3	3.3	3.1	3.0	2.9	2.8	2.6	2.5	2.6
Transportation, trade, and retailing	5.7	6.4	6.6	6.5	6.6	6.7	6.7	6.6	6.5	6.8
Eating establishments	3.1	3.6	3.5	3.6	3.6	3.6	3.6	3.8	3.8	3.8
Other	3.7	4.0	4.2	4.0	4.1	4.1	4.0	3.9	3.9	4.1
VALUE ADDED²										
Food and fiber sector, total.	325.7	499.9	611.3	602.7	660.6	698.7	713.8	715.3	730.4	820.6
Percent of domestic economy	20.4	18.3	19.3	17.7	17.5	17.4	16.9	15.8	15.0	15.8
Farm sector	43.3	55.1	75.1	49.8	64.6	71.4	66.0	59.9	53.0	71.4
Nonfarm sector	282.4	444.8	536.2	552.9	596.0	627.4	647.8	655.4	677.4	749.1
Food processing	38.7	56.0	70.0	70.4	75.6	83.7	87.3	83.1	83.0	93.9
Manufacturing	57.0	83.0	97.5	98.0	101.5	102.1	104.7	101.3	104.7	116.0
Transportation, trade, and retailing	96.8	157.5	188.1	196.8	209.8	220.9	226.3	232.2	241.7	262.9
Eating establishments	25.7	42.0	48.1	52.0	55.7	57.5	60.2	65.8	70.3	73.5
Other	64.2	106.3	132.5	135.7	153.5	163.2	169.3	173.0	177.7	202.7

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. 1106. Farm Population and Employment: 1970 to 1989

[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	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Farm population (1974 definition) ¹	(NA)	(NA)	6,051	5,850	5,628	5,787	5,754	5,355	5,226	4,986	4,951	4,801
Percent of resident population	(NA)	(NA)	2.7	2.6	2.4	2.5	2.4	2.2	2.2	2.0	2.0	1.9
Farm population (1969 definition) ¹	9,712	8,864	7,241	7,014	6,880	7,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Percent of resident population	4.8	4.2	3.3	3.1	3.0	3.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Farm employment, total ²	4,523	4,342	3,705	3,330	4,043	3,749	3,405	3,115	2,912	2,897	2,954	2,863
Family member ³	3,348	3,025	2,402	2,236	2,494	2,271	2,175	2,017	1,873	1,846	1,917	1,935
Hired workers ⁴	1,175	1,317	1,303	1,094	1,549	1,478	1,230	1,098	1,039	1,051	1,037	928

NA Not available. ¹ April-centered five-quarter averages for 1970 to 1983; annual average for 1984 to 1989. ² 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. 1989 average from Jan., 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 and 1989, published in U.S. Bureau of the Census, *Current Population Reports*, series P-20, Nos. 439 and 446. Farm employment—U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Labor*, periodic.

No. 1107. Characteristics of Farm and Nonfarm Families: 1970 to 1989

[As of March. 1970 based on 1969 census farm definition and 1980 and 1989 based on 1974 definition; see text, section 23. 1970, 1980 and 1989 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			1989		
	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	65,835	1,351	64,484
Persons per family	3.62	3.77	3.61	3.28	3.35	3.27	3.16	3.20	3.16
With own children under 18 (1,000)	28,665	1,169	27,496	30,517	745	29,772	32,269	583	31,685
Mean number of own children	2.33	2.61	2.32	1.89	2.00	1.89	1.82	2.02	1.82
Percent with: 1 or 2 children	63.6	57.2	63.9	77.0	71.5	77.2	80.3	74.5	80.3
3 or 4 children	28.5	29.3	28.5	20.4	24.8	20.3	18.3	22.9	18.2
5 or more children	7.8	13.5	7.6	2.5	3.5	2.5	1.6	2.4	1.6
Percent distribution:									
Married couple	86.7	90.5	86.5	82.5	92.3	82.2	79.1	92.2	78.9
Male householder, no wife present	2.4	4.2	2.3	2.9	3.4	2.9	4.3	3.8	4.3
Female householder, no husband present	10.9	5.3	11.2	14.6	4.4	14.9	16.5	4.1	16.8
2-person families	34.5	37.0	34.3	39.2	42.7	39.1	41.6	41.1	41.6
3-to-5 person families	52.7	46.4	53.1	53.7	47.1	53.9	54.1	52.9	54.1
6-or-more person families	12.9	16.6	12.6	7.1	10.3	7.0	4.4	6.0	4.4
Median family income ¹ in constant (1988) dollars	31,872	21,560	32,341	33,581	27,938	33,740	33,742	28,534	33,874

¹ Income for previous year.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 446; and earlier series P-27 reports; and unpublished data.

No. 1108. Farm Population, by Characteristics: 1970 to 1989

[1970 and 1980, April-centered five-quarter averages; 1985 and 1989 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	1989				1980	1985	1989
					Total	Male	Female				
Total	9,712	7,241	6,051	5,355	4,801	2,501	2,300	100.0	100.0	100.0	100.0
White	8,775	6,828	5,714	5,195	4,678	2,442	2,235	90.4	94.4	97.0	97.4
Black and other races	938	413	337	160	123	59	65	9.7	5.6	3.0	2.5
Under 15 years old	¹ 2,490	¹ 1,391	¹ 1,146	1,100	990	508	482	¹ 25.6	¹ 18.9	20.5	20.6
15 years old and over	² 7,222	² 5,851	² 4,905	4,255	3,811	1,993	1,818	² 74.4	² 81.1	79.5	79.4
15-19 years old	³ 1,316	³ 926	³ 790	456	378	196	181	³ 13.6	³ 13.1	8.5	7.9
20-24 years old	502	502	444	381	265	144	121	5.2	7.3	7.1	5.5
25-34 years old	770	735	606	640	568	305	264	7.9	10.0	12.0	11.8
35-44 years old	1,061	862	712	687	652	338	314	10.9	11.8	12.8	13.6
45-64 years old	2,452	1,892	1,607	1,342	1,247	641	606	25.2	26.6	25.1	26.0
65 years old and over	1,122	934	746	747	702	369	333	11.6	12.3	13.9	14.6
In labor force ⁴	4,293	3,682	3,139	2,853	2,659	1,620	1,039	59.4	64.0	67.1	69.8
Employed, agriculture	2,333	1,722	1,642	1,363	1,226	955	270	32.3	33.5	32.0	32.2
Percent of labor force	54.3	46.8	52.3	47.8	46.1	59.0	26.0	(X)	(X)	(X)	(X)
Self-employed	1,411	1,083	1,034	896	838	695	143	19.5	21.1	21.1	22.0
Wage and salary workers	395	344	326	318	277	222	56	5.5	6.6	7.5	7.3
Unpaid family workers	526	295	282	149	110	38	72	7.3	5.7	3.5	2.9
Employed, nonagriculture	1,878	1,853	1,415	1,402	1,376	636	740	26.0	28.8	32.9	36.1
Self-employed	159	210	161	159	149	85	63	2.2	3.3	3.7	3.9
Wage and salary workers	1,698	1,624	1,239	1,237	1,219	550	670	23.5	25.3	29.1	32.0
Unpaid family workers	21	19	16	7	8	1	7	0.3	0.3	0.2	0.2
Unemployed	82	106	82	88	57	28	29	1.1	1.7	2.1	1.5
Not in labor force ⁴	2,929	2,169	1,766	1,402	1,152	373	779	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. 446; series P-27, No. 59 and earlier reports; and unpublished data.

No. 1109. Farms—Number and Acreage: 1959 to 1990

[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 livestock 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	
	Num-ber (1,000)	Annual change ¹ (1,000)	Total (mil. acres)	Aver-age per farm (acres)		Num-ber (1,000)	Annual change ¹ (1,000)	Total (mil. acres)	Aver-age per farm (acres)
1969 DEFINITION					1974 DEFINITION				
<i>1959</i>	<i>4,105</i>	<i>-139</i>	<i>1,183</i>	<i>288</i>	<i>1975</i>	<i>2,521</i>	(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>	<i>-127</i>	<i>1,146</i>	<i>332</i>	1977	2,456	-41	1,048	427
1965	3,356	101	1,140	340	<i>1978</i>	<i>2,436</i>	<i>-20</i>	<i>1,045</i>	<i>429</i>
<i>1969</i>	<i>3,000</i>	<i>-89</i>	<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	<i>1982</i>	<i>2,407</i>	<i>-33</i>	<i>1,028</i>	<i>427</i>
1973	2,823	37	1,088	385	1983	2,379	-28	1,023	430
<i>1974</i>	<i>2,795</i>	<i>-28</i>	<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	<i>1987</i>	<i>2,213</i>	<i>-37</i>	<i>999</i>	<i>451</i>
<i>1978</i>	<i>2,672</i>	<i>-34</i>	<i>1,072</i>	<i>401</i>	1988	2,197	-16	995	453
					1989	2,171	-26	991	457
					1990, prel	2,143	-28	988	461

- 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).

No. 1110. Farms—Number and Acreage, by State: 1980 and 1990

[1990 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	1990	1980	1990	1980	1990		1980	1990	1980	1990	1980	1990
U.S.	2,440	2,143	1,039	988	426	461							
Alabama	59	47	12	10	207	219	Missouri	120	108	31	30	261	281
Alaska	(Z)	(Z)	2	1	3,378	1,724	Montana	24	25	62	61	2,801	2,449
Arizona	6	8	38	36	5,080	4,615	Nebraska	65	57	48	47	734	826
Arkansas	59	47	17	16	280	330	Nevada	3	3	9	9	3,100	3,560
California	81	85	34	31	417	362	New Hampshire	3	3	1	(Z)	160	163
Colorado	27	27	36	33	1,358	1,249	New Jersey	9	8	1	1	109	107
Connecticut	4	4	(Z)	(Z)	117	108	New Mexico	14	14	47	45	3,467	3,296
Delaware	4	3	1	1	186	197	New York	47	39	9	8	200	218
Florida	39	41	13	11	344	266	North Carolina	93	62	12	10	126	156
Georgia	59	49	15	13	254	255	North Dakota	40	34	42	41	1,043	1,191
Hawaii	4	5	2	2	458	372	Ohio	95	84	16	16	171	187
Idaho	24	22	15	14	623	628	Oklahoma	72	70	35	33	481	471
Illinois	107	83	29	29	269	343	Oregon	35	37	18	18	517	488
Indiana	87	68	17	16	193	240	Pennsylvania	62	53	9	8	145	153
Iowa	119	104	34	34	284	322	Rhode Island	1	1	(Z)	(Z)	87	92
Kansas	75	69	48	48	644	694	South Carolina	34	25	6	5	188	212
Kentucky	102	93	15	14	143	152	South Dakota	39	35	45	44	1,169	1,266
Louisiana	37	34	10	9	273	265	Tennessee	96	89	14	12	142	139
Maine	8	7	2	1	195	199	Texas	196	186	138	132	705	710
Maryland	18	15	3	2	157	148	Utah	14	13	12	11	919	856
Massachusetts	6	7	1	1	116	99	Vermont	8	7	2	2	226	216
Michigan	65	54	11	11	175	200	Virginia	58	46	10	9	169	193
Minnesota	104	89	30	30	291	337	Washington	38	37	16	16	429	432
Mississippi	55	40	15	13	265	325	West Virginia	22	21	4	4	191	180
							Wisconsin	93	80	19	18	200	220
							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 1990 release).

No. 1111. 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 har- vested
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	0.6	0.7	0.7	0.2	0.3	0.2	8.8	0.1	0.1
10-49 acres	380	392	449	412	10.9	12.1	11.1	4.5	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	124.6	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	48.0	21.3

No. 1112. 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 1111 and 1112: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. II; 1982, vol. I; and 1987, vol. I.

No. 1113. Farms—Number, Acreage, and Value, by State: 1982 and 1987

[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	986.8	964.5	440	462	774,158	604,168	1,060	829.0	782	481,983
Northeast	131	123	23.0	21.4	175	174	28,272	32,045	61	18.0	261	22,477
N.E.	26	25	4.6	4.2	178	169	5,385	7,866	11	2.8	260	4,695
ME.....	7	6	1.5	1.3	210	214	1,053	1,321	3	0.9	332	746
NH.....	3	2	0.5	0.4	170	169	555	900	1	0.2	283	422
VT.....	6	6	1.6	1.4	249	240	1,305	1,521	3	1.1	325	1,058
MA.....	5	6	0.6	0.6	113	99	1,111	2,154	2	0.4	153	1,275
RI.....	1	1	0.1	0.1	86	84	173	295	(Z)	(Z)	116	155
CT.....	4	4	0.4	0.4	118	111	1,188	1,674	1	0.3	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	0.9	0.9	111	99	2,840	3,579	3	0.7	191	2,371
PA.....	56	51	8.3	7.9	149	153	12,538	12,337	26	5.7	221	9,147
Midwest	932	862	354.2	350.5	380	407	339,761	228,073	556	314.5	565	201,583
E.N.C.	403	365	88.6	86.6	220	237	134,967	96,291	219	76.3	348	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	7,683
WI.....	82	75	17.2	16.6	210	221	19,102	13,740	52	14.5	280	11,881
W.N.C.	529	497	265.6	263.8	502	531	204,793	131,782	337	238.3	707	117,667
MN.....	94	85	27.7	26.6	294	312	32,326	16,616	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
South	896	824	293.8	281.2	328	341	236,638	207,777	304	221.0	727	145,912
S.A.	274	240	57.2	51.2	209	214	69,752	64,886	93	37.4	403	46,003
DE.....	3	3	0.7	0.6	196	205	1,218	1,096	2	0.5	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	10,622	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	13,669	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	7,333	12	7.9	662	5,228
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
West	280	278	315.7	311.3	1,129	1,118	169,487	136,274	139	277.5	1,999	112,011
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	60.2	60.2	2,568	2,451	15,866	12,418	16	54.4	3,427	10,770
ID.....	25	24	13.9	13.9	563	577	11,353	8,126	14	12.0	881	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	2,272	1	9.3	6,288	1,955
Pac	158	154	69.6	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	390	368	61,532	48,567	43	27.7	647	40,689
AK.....	(Z)	1	1.3	1.0	2,323	1,789	264	317	(Z)	0.6	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. 1114. 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]

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	2,088	1,143	1,060					
White	2,187	2,043	1,127	1,046	Principal occupation:				
Black	33	23	7	4	Farming	1,235	1,138	901	811
American Indian, Eskimos, and Aleuts	7	7	2	2	Other	1,006	950	242	248
Asian or Pacific Islander	8	8	5	5	Place of residence: ²				
Other	6	7	2	2	On farm operated	1,581	1,488	833	776
Operators of Hispanic origin ¹	16	17	6	6	Not on farm operated	429	443	202	215
Female	122	132	37	42	Years on present farm: ²				
Under 25 years old	62	36	39	21	2 years or less	127	114	53	49
25-34 years old	294	243	173	147	3-4 years	193	135	83	56
35-44 years old	443	411	223	212	5-9 years	360	304	167	138
45-54 years old	505	455	264	228	10 years or more	1,098	1,163	638	653
55-64 years old	536	496	288	263	Days worked off farm: ²				
65 years old and over	400	447	156	188	None	862	844	591	561
Average age (years)	50.5	52.0	49.1	50.6	Less than 100 days	224	200	141	124
Full owner	1,326	1,239	482	445	100-199 days	189	178	77	80
Part owner	656	609	491	454	200 days or more	775	737	213	219
Tenant	259	240	170	161					

¹ Operators of Hispanic origin may be of any race. ² Excludes not reported.**No. 1115. 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	Partner- ship	Corpo- ration	PERCENT DISTRIBUTION			
						Total ¹	Individual or family	Partner- ship	Corpo- ration
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	88.9	16.3	13.6
1987	Mil. acres.	964	628	153	119	100.0	85.1	15.9	12.4
Value of land and buildings: ² 1982	Bi. dol.	763	547	119	90	100.0	71.7	15.6	11.8
1987	Bi. dol.	604	424	95	69	100.0	70.1	15.7	11.4
Value of farm products sold: 1982	Bi. dol.	132	78	22	31	100.0	59.2	16.4	23.9
1987	Bi. dol.	136	77	23	35	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. 1116. Corporate Farms—Characteristics, by Type: 1987**

ITEM	Unit	All corporations	FAMILY HELD CORPORATIONS			OTHER CORPORATIONS		
			Total	1-10 stock-holders	11 or more stock-holders	Total	1-10 stock-holders	11 or more stock-holders
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	Bi. dol. . . .	68.6	58.6	55.5	3.1	10.0	6.6	3.4
Average per farm	\$1,000 . . .	1,055	1,008	973	2,714	1,453	1,098	3,752
Farm products sold	Bi. dol. . . .	34.9	26.6	24.5	2.0	8.3	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 1114-1116: U.S. Bureau of the Census, *1987 Census of Agriculture*, vol. 1.

No. 1117. 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	
	Num- ber (1,000)	Per- cent distrib- ution	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					
180-499 acres	411	22.7	85.9	Value of land and bldgs ¹	Bil. dol . .	604	424	70.1
500-999 acres	161	8.9	80.6	Average per farm	\$1,000 . .	289	235	(X)
1,000 acres or more	118	6.5	70.1	Average per acre	Dollars . .	627	677	(X)
Less than \$2,500	457	25.2	93.1	Value of farms products sold	Bil. dol . .	136	77	56.3
\$2,500-\$4,999	242	13.4	92.2	Average per farm	\$1,000 . .	65	42	(X)
\$5,000-\$9,999	249	13.8	90.5	Crops	Bil. dol . .	59	33	56.0
\$10,000-\$24,999	286	15.8	87.7	Grains	Bil. dol . .	28	20	72.2
\$25,000-\$49,999	188	10.4	85.7	Livestock, poultry and their products ³	Bil. dol . .	77	44	56.5
\$50,000-\$99,999	182	10.1	83.4	Cattle, calves	Bil. dol . .	36	18	49.0
\$100,000-\$249,999	154	8.5	76.4	Dairy products	Bil. dol . .	16	11	66.4
\$250,000-\$499,999	38	2.1	61.5	Poultry, poultry products	Bil. dol . .	13	7	58.3
\$500,000-\$999,999	10	0.6	47.6	Hogs and pigs	Bil. dol . .	10	7	67.1
\$1,000,000 or more	3	0.2	28.2					

X Not applicable. ¹ Based on a sample of farms. ² Includes nursery and greenhouse products. ³ Includes other commodities, not shown separately.

No. 1118. 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	Acre- age	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	327	(NA)	(NA)	(NA)	(NA)	15.7	(NA)	(NA)
Occupation—Other than farming	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	12.6	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	782	132,645	125,180	50.8	86.1	97.5
\$10,000-\$24,999	326	92.3	283	5,244	16,079	15.8	9.6	3.9
\$25,000-\$49,999	220	110.6	504	7,889	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	0.5	6.5	27.8

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

No. 1119. 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	0.6	1.0	54.0	4.6	0.5	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 of tables 1117-1119: U.S. Bureau of the Census, 1987 Census of Agriculture, vol. 1.

No. 1120. 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
Arizona	4.4	4.2	60.4	55.3	18,871	17,167	49.9	47.3	1,098	914	2.9	2.5
California	58.4	58.9	70.8	70.7	18,402	17,567	57.2	57.4	8,461	7,596	26.3	24.8
Colorado	15.2	14.9	56.1	54.6	17,351	16,729	51.7	49.1	3,201	3,014	9.5	8.9
Florida	10.6	12.0	29.0	32.7	5,529	4,670	43.1	41.7	1,585	1,623	12.4	14.5
Idaho	17.4	16.6	70.2	68.6	9,168	9,053	65.8	64.9	3,450	3,219	24.8	23.1
Kansas	7.3	7.4	9.8	10.7	10,345	10,654	21.9	22.8	2,675	2,463	5.7	5.3
Louisiana	3.7	3.9	11.6	14.3	2,273	2,337	25.4	29.1	694	647	7.6	8.1
Montana	9.2	9.5	39.1	38.7	24,171	23,259	39.9	38.6	2,023	1,997	3.3	3.3
Nebraska	22.2	22.6	36.8	37.3	22,679	22,499	50.4	49.6	6,039	5,682	13.4	12.5
Nevada	2.2	2.2	79.2	73.3	7,881	7,806	78.9	78.1	830	779	8.3	7.8
New Mexico	6.2	7.0	45.9	49.2	14,755	12,385	31.3	26.9	807	718	1.7	1.6
North Dakota	0.8	0.8	2.2	2.2	1,416	1,497	3.5	3.7	163	168	0.4	0.4
Oklahoma	3.1	3.0	4.2	4.3	2,926	2,906	9.0	9.2	492	478	1.5	1.5
Oregon	15.3	14.4	44.9	45.0	11,382	11,340	64.1	63.6	1,808	1,648	10.2	9.3
South Dakota	1.8	1.9	4.8	5.1	4,198	3,791	9.5	8.5	376	362	0.9	0.8
Texas	19.8	19.8	10.6	10.4	22,161	20,270	16.8	15.5	5,576	4,271	4.2	3.3
Utah	11.2	11.1	79.9	79.2	7,598	7,594	77.7	76.0	1,082	1,161	11.1	11.6
Washington	16.3	15.4	45.0	45.9	6,003	5,468	36.4	33.9	1,638	1,519	9.9	9.4
Wyoming	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. 1121. Foreign Ownership of U.S. Agricultural Land: 1989**

[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, 1989]

CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²		CHARACTERISTIC	ACREAGE OWNED ¹		ACREAGE ACQUIRED ²	
	Total	Per- cent	Total	Per- cent		Total	Per- cent	Total	Per- cent
Total ³	12,876	100.0	306	100.0					
Type of owner:					Country of foreign owner:				
Corporation	10,451	81.2	253	82.7	Canada	1,658	12.9	94	30.7
Partnership	1,243	9.7	22	7.2	Netherlands Antilles	385	3.0	1	0.3
Individual	974	7.6	30	9.8	Switzerland	216	1.7	8	2.6
Other	208	1.6	1	0.3	United Kingdom	295	2.3	6	2.0
Size:					West Germany	740	5.7	24	7.8
Less than 100 acres	132	1.0	3	0.9	Through U.S. interest: ⁴				
100-299 acres	308	2.4	9	2.9	Canada	1,385	10.8	31	10.1
300-999 acres	907	7.0	24	7.8	France	828	6.4	23	7.5
1,000 acres or more	11,529	89.5	270	88.2	Luxembourg	233	1.8	-	-
Land use:					Netherlands	340	2.6	7	2.3
Cropland	2,328	18.1	59	19.3	Netherlands Antilles	230	1.8	1	0.3
Pasture	3,354	26.0	40	13.1	Switzerland	281	2.2	8	2.7
Forest	5,962	46.3	152	49.7	United Kingdom	2,427	18.8	14	4.6
Other agriculture	626	4.9	33	10.8	West Germany	417	3.2	1	0.3
Other nonagriculture	606	4.7	22	7.2					

- Represents or rounds to zero. ¹ Landholdings by foreign interests as of Dec. 31. ² Acquisitions by foreign interests from Jan. 1-Dec. 31, 1989. 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, 1989* (Economic Research Service Staff Report AGES 9026), 1990.

No. 1122. Farm Real Estate—Summary: 1980 to 1990

[1980-1981 and 1986-1989, value data as of Feb. 1; 1982-1985, as of April 1; 1990, as of January 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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total value	Bill. dol	763.3	843.7	843.3	803.9	812.9	719.4	641.1	597.1	626.9	659.4	685.0
Average value per acre	Dollars	737	819	823	788	801	713	640	599	632	667	693
Average value, operating unit	\$1,000	313.5	346.5	351.2	338.7	349.1	314.5	285.6	270.5	286.0	304.2	316.0

Source: U.S. Dept. of Agriculture, Economic Research Service, 1980-1984, *Farm Real Estate Market Developments*, annual; thereafter, *Agricultural Resources, Agricultural Land Values and Markets, Situation and Outlook Report*, annual.

No. 1123. Farm Real Estate—Value of Land and Buildings, by State: 1980 to 1990

[See headnote, table 1122. 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	1990	1980	1985	1987	1988	1989	1990
U.S.	763,285	719,398	597,110	626,909	659,381	685,048	\$737	\$713	\$599	\$632	\$667	\$693
Alabama	9,516	8,929	8,407	8,480	8,819	9,348	780	797	786	800	832	882
Arizona	10,173	11,062	11,071	10,184	9,944	9,645	267	295	299	279	276	268
Arkansas	15,147	14,425	11,434	12,024	12,306	12,183	918	907	724	761	784	776
California	48,131	59,829	49,559	49,770	52,255	54,868	1,424	1,841	1,554	1,575	1,670	1,753
Colorado	13,932	15,042	12,512	12,435	12,362	12,362	387	437	368	369	369	369
Connecticut	1,170	1,442	1,565	1,835	1,964	1,964	2,387	3,005	3,557	4,171	4,463	4,463
Delaware	1,169	1,037	1,040	1,041	1,218	1,377	1,798	1,596	1,677	1,765	2,065	2,334
Florida	18,505	19,346	18,775	20,585	21,251	23,801	1,381	1,599	1,605	1,790	1,897	2,125
Georgia	13,440	11,968	11,554	11,960	12,635	13,267	896	886	889	920	1,003	1,053
Idaho	10,610	10,711	7,612	7,836	8,228	9,380	698	739	552	572	601	685
Illinois	58,781	39,647	32,865	36,093	39,564	40,355	2,041	1,381	1,149	1,262	1,388	1,416
Indiana	31,298	22,049	17,194	18,991	20,510	21,126	1,863	1,344	1,061	1,158	1,251	1,288
Iowa	62,192	38,653	26,334	31,725	37,118	37,860	1,840	1,091	786	947	1,108	1,130
Kansas	28,352	23,443	17,861	19,783	20,970	22,647	587	448	373	413	438	473
Kentucky	14,250	13,849	12,649	12,813	13,105	14,677	976	955	878	896	923	1,034
Louisiana	12,686	13,791	8,564	8,554	8,917	8,739	1,256	1,407	921	940	959	940
Maine	959	1,153	1,284	1,395	1,493	1,493	594	774	885	962	1,029	1,029
Maryland	6,154	5,711	4,921	5,313	5,720	5,778	2,238	2,197	2,009	2,261	2,487	2,512
Massachusetts	1,158	1,616	2,078	2,416	2,585	2,585	1,608	2,377	3,012	3,553	3,802	3,802
Michigan	12,665	12,517	10,164	10,584	10,801	11,449	1,111	1,108	924	971	1,000	1,060
Minnesota	32,906	27,311	17,605	21,000	22,470	24,942	1,086	898	587	700	749	831
Mississippi	11,957	12,054	9,451	9,410	9,548	10,026	819	855	685	697	718	754
Missouri	28,232	21,234	18,479	19,520	20,623	21,448	902	689	604	640	678	706
Montana	14,546	14,800	12,138	12,444	12,671	14,699	235	243	200	205	209	243
Nebraska	30,290	22,911	18,886	21,525	24,753	26,486	635	485	400	457	526	562
Nevada	2,230	2,171	2,138	2,020	2,081	1,790	248	244	240	227	234	201
New Hampshire	547	777	923	1,077	1,153	1,153	1,004	1,439	1,847	2,112	2,260	2,260
New Jersey	3,006	2,833	3,356	3,493	4,086	4,168	2,947	2,951	3,729	3,969	4,644	4,737
New Mexico	8,658	8,324	6,974	8,010	8,571	8,914	185	185	156	180	193	200
New York	6,768	7,464	8,350	8,540	8,842	8,753	720	820	960	993	1,053	1,042
North Carolina	14,262	14,373	13,220	13,009	13,366	13,254	1,219	1,331	1,259	1,263	1,339	1,325
North Dakota	16,888	15,253	12,319	12,951	13,307	14,106	405	373	303	319	329	348
Ohio	28,026	19,203	17,115	18,704	20,081	19,880	1,730	1,215	1,097	1,199	1,271	1,258
Oklahoma	21,244	19,691	15,686	15,840	17,266	16,920	614	597	475	480	523	513
Oregon	10,625	11,077	9,676	9,648	9,648	10,709	587	615	541	542	542	602
Pennsylvania	13,176	12,416	12,939	13,106	15,667	15,667	1,464	1,427	1,540	1,579	1,911	1,911
Rhode Island	186	218	247	347	371	371	2,523	2,980	3,389	4,748	5,080	5,080
South Carolina	5,760	4,939	4,197	4,616	5,032	5,032	900	898	792	871	949	949
South Dakota	13,140	12,856	10,548	11,917	12,989	14,938	292	289	238	269	293	337
Tennessee	13,274	12,650	11,790	12,613	12,665	13,251	976	944	936	1,001	1,021	1,052
Texas	60,255	94,025	72,664	71,808	68,218	66,853	436	694	546	545	517	506
Utah	6,572	5,947	5,101	4,803	4,803	4,562	530	513	451	425	425	404
Vermont	1,255	1,515	1,704	1,708	1,828	1,828	721	947	1,114	1,124	1,203	1,203
Virginia	10,074	10,588	10,497	10,902	12,184	14,377	1,028	1,112	1,154	1,198	1,354	1,597
Washington	11,997	15,187	12,095	11,824	12,297	13,035	736	943	756	739	769	815
West Virginia	2,810	2,186	2,343	2,523	2,650	2,411	669	607	633	682	716	652
Wisconsin	18,674	16,905	13,761	14,620	15,264	15,264	1,004	944	777	826	867	867
Wyoming	5,638	6,287	5,464	5,116	4,962	5,309	161	181	157	147	143	153

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. 1124. Balance Sheet of the Farming Sector In Current and Constant (1982) Dollars: 1970 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CURRENT DOLLARS											
Assets	324.0	1,088.2	1,088.4	1,046.6	1,056.4	969.2	885.8	841.0	886.8	938.5	972.2
Physical assets:											
Real estate	224.5	850.1	851.7	812.2	821.8	727.7	650.0	606.0	633.5	665.8	688.1
Non-real estate	76.4	198.7	195.8	194.7	190.0	193.7	186.5	181.3	196.6	214.7	225.4
Livestock and poultry	23.7	60.6	53.5	53.0	49.5	49.5	46.3	47.8	58.0	65.5	69.7
Machinery, motor vehicles	34.4	86.9	92.5	92.6	92.1	91.1	88.3	86.1	84.5	85.7	88.2
Crops stored	8.4	31.9	29.0	26.1	24.0	26.2	22.9	16.7	18.0	23.0	23.5
Household furnishings, equipment	10.0	19.4	20.8	23.0	24.4	24.3	27.8	28.7	32.9	37.0	41.3
Purchased inputs	(NA)	(NA)	(NA)	(NA)	(NA)	2.6	1.3	2.0	3.3	3.4	2.8
Financial assets:	23.0	39.3	40.9	39.7	44.6	47.7	49.3	53.8	56.7	58.0	58.7
Investment in cooperatives	7.0	19.3	20.6	21.9	22.8	24.3	24.3	24.4	25.3	25.1	26.1
Other financial assets	16.0	20.0	20.3	17.8	21.8	23.5	25.0	29.4	31.4	32.9	32.6
Claims	324.0	1,088.2	1,088.4	1,046.6	1,056.4	969.2	885.8	841.0	886.8	938.5	972.2
Debt	52.8	178.7	195.4	203.1	206.4	204.3	187.9	166.6	153.7	148.5	146.0
Real estate debt	30.5	97.5	107.2	111.3	113.7	112.3	105.7	95.9	87.7	83.0	80.5
Non-real estate debt	22.3	81.2	88.2	91.8	92.7	92.0	82.2	70.8	66.0	65.6	65.5
Equity	271.2	909.5	893.0	843.4	850.0	764.9	697.9	674.4	733.1	790.0	826.3
Farm debt/asset ratio (percent)	16.3	16.4	18.0	19.4	19.5	21.1	21.2	19.8	17.3	15.8	15.0
CONSTANT (1982) DOLLARS ²											
Assets	771.4	1,269.8	1,157.9	1,046.6	1,016.7	899.9	798.7	739.0	755.4	773.7	769.8
Physical assets:											
Real estate	534.6	992.0	906.0	812.2	790.9	675.7	586.1	532.5	539.6	548.9	544.8
Non-real estate	182.0	231.9	208.3	194.7	182.9	179.9	168.2	159.3	167.5	177.0	178.5
Livestock and poultry	56.4	70.7	56.9	53.0	47.6	46.0	41.7	42.0	49.4	54.0	55.1
Machinery, motor vehicles	81.8	101.4	98.4	92.6	88.6	84.6	79.6	75.7	72.0	70.7	69.8
Crops stored	20.0	37.2	30.9	26.1	23.1	24.3	20.6	14.7	15.3	19.0	18.6
Household furnishings, equipment	23.7	22.6	22.1	23.0	23.5	22.5	25.1	25.2	28.0	30.5	32.7
Purchased inputs	(NA)	(NA)	(NA)	(NA)	(NA)	2.5	1.1	1.8	2.8	2.8	2.2
Financial assets:	54.8	45.9	43.5	39.7	42.9	44.3	44.5	47.3	48.3	47.8	46.5
Investment in cooperatives	16.7	22.5	21.9	21.9	21.9	22.5	21.9	21.5	21.6	20.7	20.7
Other financial assets	38.1	23.3	21.6	17.8	21.0	21.8	22.5	25.8	26.7	27.1	25.8
Claims	771.4	1,269.8	1,157.9	1,046.6	1,016.7	899.9	798.7	739.0	755.4	773.7	769.8
Debt	125.7	208.5	207.9	203.1	198.7	189.7	169.4	146.4	130.9	122.5	115.6
Real estate debt	72.6	113.8	114.1	111.3	109.5	104.3	95.3	84.3	74.7	68.4	63.7
Non-real estate debt	53.1	94.7	93.8	91.8	89.2	85.4	74.1	62.2	56.2	54.1	51.9
Equity	645.7	1,061.3	950.0	843.4	818.1	710.2	629.3	592.6	624.4	651.2	654.2

NA Not available. 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, 1989*, and unpublished data.

No. 1125. Indicators of Financial Stress in Agriculture, 1980 to 1989, and by Farm Region, 1989

[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	1987	1988	1989					
					Total	North-east ¹	Corn Belt ²	South ³	Plains ⁴	West ⁵
Average delinquency rate ^{6,7}	(NA)	5.3	2.7	1.6	1.5	1.9	1.1	1.3	1.7	1.6
Farm borrowers who had bank financing discontinued	4.5	4.5	3.3	3.2	2.8	2.8	2.1	2.3	3.4	3.9
Farm borrowers loaned-up to practical limit	27	37	29	23	25	22	24	28	26	26
Farmers in bank lending area who went out of business	2.1	4.8	4.6	2.8	2.9	3.4	2.5	3.5	2.7	2.5
Farmers in bank lending area who went through bankruptcy	(NA)	3.8	3.3	2.2	2.0	1.6	1.7	2.2	2.6	2.4

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. 1126. Financial Characteristics of Farms, by Value of Sales and Type of Farm: 1985 to 1989

[Income data for calendar year shown; balance sheet data as of January 1 of the 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 per- cent	41-70 per- cent	Over 70 per- cent
		Favor- able ¹	Marg- inal in- come ²	Marg- inal sol- vency ³	Vulner- able ⁴	Less than 41 per- cent	41-70 per- cent	Over 70 per- cent				
1985	100.0	(NA)	(NA)	(NA)	(NA)	78.7	12.7	8.6	100.0	33.7	32.9	33.4
1987	100.0	59.1	25.9	8.8	6.2	85.1	10.0	4.9	100.0	45.2	31.4	23.4
1988	100.0	57.0	29.4	6.7	6.9	86.4	9.2	4.4	100.0	49.0	31.6	19.4
1989, total	100.0	62.8	26.0	6.4	4.8	88.8	7.9	3.3	100.0	55.5	29.8	14.7
Less than \$10,000	100.0	58.7	32.9	2.9	5.4	91.7	5.7	2.6	100.0	54.2	23.7	22.1
\$10,000-\$19,999	100.0	63.3	29.9	3.7	3.1	93.2	5.1	1.7	100.0	60.7	29.9	9.4
\$20,000-\$39,999	100.0	67.9	22.2	5.1	4.8	90.2	5.3	4.5	100.0	60.2	18.4	21.3
\$40,000-\$99,999	100.0	67.4	17.5	10.8	3.9	85.4	10.3	4.3	100.0	57.5	26.9	15.6
\$100,000-\$249,999	100.0	67.8	12.2	15.5	4.6	80.0	15.2	4.8	100.0	55.0	31.8	13.2
\$250,000-\$499,999	100.0	66.4	13.2	14.1	6.3	79.6	15.5	4.9	100.0	58.1	29.5	12.4
\$500,000 and over	100.0	60.8	14.8	18.8	5.6	75.6	17.0	7.4	100.0	50.0	38.7	11.3
Cash grain	100.0	64.2	21.2	8.8	5.9	85.3	10.5	4.2	100.0	53.8	32.2	14.0
Tobacco	100.0	77.6	12.3	6.9	3.2	89.9	8.2	1.9	100.0	59.1	31.0	9.9
Cotton	100.0	56.8	19.8	18.6	4.9	76.5	12.8	10.7	100.0	28.1	50.9	21.0
Other field crops	100.0	61.6	25.9	7.2	5.4	87.4	7.8	4.8	100.0	54.3	31.2	14.5
Vegetable, fruit, and nut	100.0	61.0	31.8	3.9	3.3	92.8	4.6	2.6	100.0	67.5	22.2	10.3
Nursery, greenhouse	100.0	60.4	23.8	10.1	5.7	84.1	11.3	4.6	100.0	51.3	24.4	24.3
General livestock	100.0	62.4	29.2	3.5	4.9	91.6	6.2	2.2	100.0	58.7	26.5	14.8
Poultry	100.0	60.1	15.6	16.8	7.4	75.7	17.5	6.8	100.0	38.0	37.0	25.0
Dairy	100.0	72.3	11.9	13.2	2.6	84.2	12.0	3.8	100.0	55.6	30.8	13.6
Other livestock	100.0	45.8	44.7	5.7	3.9	90.5	4.2	5.3	100.0	57.8	26.0	16.2

NA Not available. ¹ Represents farms with positive income and 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, *Farms End Decade With Strong Financial Performance*, 1990.

No. 1127. Farms, Farm Income, Assets, and Debt, by Value of Sales: 1989

FARMS WITH VALUE OF SALES OF—	Number of farms ¹ (1,000)	Gross cash income ² (bil. dol.)	Cash receipts (bil. dol.)	Govt. payments (bil. dol.)	Net cash income ² (bil. dol.)	Assets ³ (bil. dol.)	Debt ³ (bil. dol.)	Debt/asset ratio ³ (percent)	PERCENT DISTRIBUTION		
									Number of farms ¹	Gross cash income ²	Assets ³
Total	2,171	177.5	158.2	10.9	54.6	972.3	145.9	15.0	100.0	100.0	100.0
Less than \$10,000	1,019	5.0	3.5	0.3	-1.1	272.4	37.0	13.6	46.9	2.8	28.0
\$10,000-\$19,999	256	4.6	3.7	0.4	0.7	81.3	11.1	13.7	11.8	2.6	8.4
\$20,000-\$39,999	269	9.7	8.0	1.0	2.4	105.4	15.9	15.1	12.4	5.5	10.8
\$40,000-\$99,999	303	24.4	20.5	2.4	7.5	160.2	25.6	16.0	14.0	13.7	16.5
\$100,000-\$249,999	211	38.3	33.4	3.5	13.3	170.4	27.6	16.2	9.7	21.6	17.5
\$250,000-\$499,999	74	28.2	25.6	2.0	9.7	75.8	12.9	17.0	3.4	15.9	7.8
\$500,000 and over	39	67.4	64.4	1.2	22.0	106.8	15.8	14.8	1.8	38.0	11.0

¹ Based on 1974 census definition. See text, section 23. ² For components of income, see table 1130. Minus sign (-) indicates loss. ³ Data as of December 31. Includes farm households.

No. 1128. Net Cash Income and Net Cash Flow From Farming: 1970 to 1989

[In billions of dollars. Net cash income measures the cash income from a farm operator's farm business and net cash flow measures the cash flow within the agricultural sector. Minus sign (-) indicates net loan redemption or decrease]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Net cash income	18.4	29.6	34.2	32.8	37.9	39.5	36.6	47.9	46.7	56.1	58.1	54.6
Gross cash income	54.8	90.7	143.3	146.0	150.6	150.6	155.5	157.2	152.0	164.3	170.4	177.5
Cash expenses	36.4	61.1	109.1	113.2	112.8	111.0	119.0	109.3	105.2	108.2	112.3	122.8
Change in loans outstanding	2.3	9.2	15.2	15.5	7.2	3.2	-2.8	-15.9	-19.7	-12.3	-4.4	-2.0
Real estate loans	1.1	4.6	9.9	9.0	3.8	2.3	-2.0	-6.4	-8.7	-7.7	-4.1	-2.1
Nonreal estate loans	1.2	4.6	5.3	6.5	3.4	0.9	-0.8	-9.6	-11.0	-4.6	-0.3	0.1
Net change in other financial assets	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.7	1.1	-0.2	0.5	0.1
Net rent received by nonoperator landlords	2.1	4.0	6.1	6.2	6.2	5.1	9.0	8.4	7.0	7.0	7.0	8.2
Capital expenditures	6.8	12.4	18.0	16.8	13.3	12.7	12.5	9.2	8.5	11.1	11.1	13.0
Net cash flow	16.1	30.5	37.6	37.8	38.2	35.4	30.4	31.9	26.6	39.5	50.2	48.0

¹ Excludes Commodity Credit Corporation loans. ² Net cash income plus change in loans outstanding plus net change in other financial assets plus net rent received by nonoperator landlords minus capital expenditures.

Source of tables 1127 and 1128: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

No. 1129. Gross Farm Product—Summary: 1970 to 1989

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

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CURRENT DOLLARS												
Total value of farm output ¹	55.1	99.8	148.4	164.3	159.0	142.9	166.8	158.8	149.0	157.1	164.0	182.5
Farm marketings cash receipts ²	50.5	88.9	139.8	142.1	142.9	133.1	141.7	144.9	134.4	143.0	149.9	159.0
Farm products consumed ³	0.8	1.1	1.1	1.1	1.0	1.1	1.1	0.9	0.9	0.8	0.8	0.6
Change in farm inventories	-	3.4	-5.9	5.8	-1.4	-7.5	7.1	-3.3	-1.8	-3.9	-3.6	5.0
Gross rental value of farm housing	3.3	5.4	11.0	12.6	12.9	12.1	12.2	10.9	9.7	10.3	10.4	10.3
Less: Intermediate products purchased ⁴	28.8	49.5	82.9	84.5	82.0	83.6	89.2	83.4	73.2	78.2	83.3	93.9
Equals: Gross farm product	26.3	50.3	65.5	79.8	77.0	59.3	77.6	75.4	75.8	78.8	80.7	88.6
Less: Capital consumption allowances ⁵	5.9	10.4	18.9	20.8	22.0	22.4	22.5	22.0	21.5	21.0	20.3	20.5
Indirect business taxes	2.0	2.5	3.0	3.2	3.3	3.2	3.0	3.1	3.0	3.8	3.5	4.1
Plus: Subsidies to farm operators	3.3	0.7	1.1	1.6	2.4	7.9	7.0	6.3	9.5	13.9	11.8	9.3
Equals: Farm national income	21.7	38.1	44.7	57.3	54.0	41.7	59.2	56.6	60.8	67.9	68.6	73.3
CONSTANT (1982) DOLLARS												
Total value of farm output ¹	135.2	138.6	151.7	159.3	159.0	143.1	155.2	164.1	163.1	167.0	156.9	165.7
Farm marketings cash receipts ²	112.7	117.4	138.5	136.9	142.9	132.4	133.2	150.7	147.8	155.0	142.9	143.8
Farm products consumed ³	1.7	2.0	1.2	1.1	1.0	1.1	1.0	1.0	0.9	0.8	0.8	0.6
Change in farm inventories	0.8	1.4	-4.7	4.9	-1.4	-6.3	4.6	-4.3	-2.4	-5.9	-2.9	5.0
Gross rental value of farm housing	18.3	16.4	14.3	13.6	12.9	12.3	12.1	11.7	11.4	11.0	10.7	10.3
Less: Intermediate products purchased ⁴	74.5	73.8	87.6	83.5	82.0	81.8	86.7	84.7	79.0	83.2	81.6	86.9
Equals: Gross farm product	60.7	64.8	64.2	75.7	77.0	61.3	68.5	79.4	84.1	83.8	75.3	78.8
Less: Capital consumption allowances ⁵	16.0	19.0	22.3	22.2	22.0	21.4	20.8	20.0	19.0	18.0	17.1	16.5
Indirect business taxes	2.6	2.8	2.8	3.3	3.3	2.7	3.0	3.4	3.6	3.6	3.3	3.4
Plus: Subsidies to farm operators	1.6	1.8	2.3	2.2	2.4	2.0	2.0	2.5	2.4	2.6	2.2	2.2
Equals: Farm national income	43.7	44.7	41.4	52.4	54.0	39.3	46.8	58.5	63.9	64.8	57.1	61.2

- 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. 1130. Farm Income and Expenses: 1970 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Gross farm income	58.8	100.6	149.3	166.3	163.5	153.2	170.2	162.9	156.5	169.0	173.8	189.2
Cash income	54.8	90.7	143.3	146.0	150.6	150.6	155.5	157.2	152.0	164.3	170.4	177.5
Farm marketings	50.5	88.9	139.7	141.6	142.6	136.8	142.8	144.1	135.2	141.7	150.2	159.2
Crops	21.0	45.8	71.7	72.5	72.3	67.2	69.9	74.3	63.7	65.6	71.4	75.4
Livestock and products	29.5	43.1	68.0	69.2	70.3	69.6	72.9	69.8	71.5	76.0	78.8	83.7
Government payments	3.7	0.8	1.3	1.9	3.5	9.3	8.4	7.7	11.8	16.7	14.5	10.9
Other farm income	0.6	1.0	2.3	2.5	4.6	4.5	4.3	5.3	5.0	5.9	5.7	7.4
Value of home consumption	0.8	1.1	1.2	1.2	1.1	1.0	1.0	0.9	0.9	0.8	0.8	0.7
Rental value of dwellings ²	3.3	5.4	11.0	12.6	13.1	12.5	7.6	7.1	6.0	6.6	6.7	6.6
Value of inventory adjustment ³	(2)	3.4	-6.3	6.5	1.4	10.9	6.0	-2.3	-2.4	-2.8	4.1	4.4
Expenses of farm production	44.5	75.1	133.1	139.4	140.0	137.9	143.8	131.9	125.5	127.7	132.1	142.6
Intermediate products	25.2	42.5	76.1	76.6	73.5	73.6	78.2	70.9	69.4	73.0	76.9	84.7
Farm origin	13.3	20.0	34.9	33.3	31.4	31.9	33.1	29.6	30.8	33.1	36.7	39.4
Feed purchased	8.0	12.9	21.0	20.9	18.6	20.4	20.2	17.2	17.9	18.0	20.6	22.7
Livestock, poultry purchased ⁴	4.3	5.0	10.7	9.0	9.7	8.8	9.5	9.2	9.8	11.8	12.8	13.0
Seed purchased ⁴	0.9	2.1	3.2	3.4	3.2	2.7	3.4	3.1	3.2	3.3	3.3	3.7
Manufactured inputs	5.4	12.4	22.4	23.9	22.1	20.0	22.6	20.2	18.2	18.1	18.4	20.7
Fertilizer and lime	2.4	6.7	9.5	9.4	8.0	7.0	8.6	7.5	6.8	6.5	6.8	7.6
Pesticides	1.0	1.8	3.5	4.2	4.3	3.9	4.7	4.3	4.3	4.5	4.4	5.7
Fuel and oil	1.7	3.3	7.9	8.6	7.7	7.2	7.3	6.4	5.3	5.0	4.9	5.3
Electricity	0.3	0.6	1.5	1.7	2.0	2.0	2.1	1.9	1.8	2.2	2.2	2.1
Repairs and maintenance ⁵	2.8	4.5	7.1	7.0	6.4	6.5	6.7	6.6	6.5	6.8	6.9	7.8
Other ⁶	3.7	5.6	11.8	12.4	13.6	15.2	15.7	14.7	13.8	15.0	14.9	16.8
Interest	3.4	6.4	16.3	19.9	21.8	21.4	21.1	18.6	17.1	15.5	15.2	15.1
Real estate	1.8	3.3	7.5	9.1	10.5	10.8	10.7	9.9	9.1	8.2	7.9	7.6
Non-real estate	1.6	3.1	8.7	10.7	11.3	10.6	10.4	8.7	7.9	7.3	7.3	7.5
Contract, hired labor expenses ⁷	4.3	6.6	9.3	8.9	10.1	9.7	9.7	9.8	9.9	10.8	11.2	11.9
Net rent to nonoperator landlords ⁸	2.1	4.0	6.1	6.2	6.2	5.1	9.0	8.4	7.0	7.0	7.0	8.2
Capital consumption ⁹	6.9	12.4	21.5	23.6	24.3	23.9	21.6	19.6	17.7	16.5	16.7	17.3
Property taxes	2.6	3.2	3.9	4.2	4.1	4.1	4.2	4.5	4.5	5.0	5.1	5.3
Net farm income	14.4	25.5	16.1	26.9	23.5	15.3	26.3	31.0	31.0	41.3	41.8	46.7

Z Less than \$50 million. ¹ Forest product sales are included in cash receipts for crops for 1970 and 1975 and in other farm income beginning 1980. ² Data for 1970 to 1983 are not comparable with later data. ³ Minus sign (-) indicates decrease in inventories. ⁴ Includes bulbs, plants, and trees. ⁵ Expenditures for repairs and maintenance of farm buildings, motor vehicles, and machinery. ⁶ Includes machine hire and customwork expenses; marketing, storage, and transportation expenses and miscellaneous expenses. Beginning 1980 data not strictly comparable with prior years. ⁷ Includes Social Security payments and perquisites. ⁸ Data for periods 1970-1975, 1980-1983, and 1984 and later are based on different sources, creating potential inconsistencies in estimates among these periods. 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. 1131. Farm Income—Cash Receipts From Farm Marketings: 1980 to 1989

[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		
	1980	1983	1984	1985	1986	1987	1988	1989		1980	1985	1989
Total	139,737	136,770	142,784	144,114	135,197	141,653	150,192	159,173		100.0	100.0	100.0
All crops	71,746	67,165	69,889	74,293	63,658	65,643	71,372	75,449		51.3	51.6	47.4
Corn	13,959	10,855	10,909	16,880	12,315	9,824	9,006	11,116		10.0	11.7	7.0
Hay	1,917	2,185	2,363	2,390	2,246	2,499	3,059	3,407		1.4	1.7	2.1
Sorghum	1,392	1,220	1,469	1,981	1,332	1,103	1,080	1,143		1.0	1.4	0.7
Barley	735	990	1,087	1,039	835	754	865	750		0.5	0.7	0.5
Soybean	14,241	12,154	11,957	11,161	9,235	10,029	12,175	10,837		10.2	7.7	6.8
Peanuts	607	802	1,233	1,005	1,074	1,027	1,116	1,119		0.4	0.7	0.7
Wheat	8,854	8,777	8,576	7,909	4,975	5,048	6,354	7,185		6.3	5.5	4.5
Rice	1,519	882	1,096	1,042	738	707	1,088	869		1.1	0.7	0.5
Vegetables ²	7,307	8,472	9,152	8,572	8,849	9,889	9,754	11,340		5.2	5.9	7.1
Potatoes	(NA)	1,689	1,921	1,601	1,377	1,707	1,625	2,288	(NA)	1.1	1.4	
Tomatoes	(NA)	1,137	1,240	1,198	1,265	1,466	1,415	1,824	(NA)	0.8	1.1	
Fruits, tree nuts ²	6,557	6,056	6,734	6,946	7,248	8,058	9,139	9,020		4.7	4.8	5.7
Oranges	(NA)	1,335	1,359	1,404	1,184	1,363	1,773	1,814	(NA)	1.0	1.1	
Apples	(NA)	739	951	892	927	1,060	1,109	1,125	(NA)	0.6	0.7	
Grapes	(NA)	1,075	983	961	1,177	1,362	1,596	1,718	(NA)	0.7	1.1	
Cotton lint, seed	4,447	3,705	3,674	3,687	3,371	4,189	4,546	4,740		3.2	2.6	3.0
Tobacco	2,672	2,752	2,813	2,699	1,921	1,826	1,960	2,381		1.9	1.9	1.5
Sugar beets		778	750	774	902	1,025	1,022	1,037			0.5	0.7
Greenhouse, nursery, other ³	6,560	4,529	5,176	5,407	5,883	6,655	6,969	7,295		4.7	3.8	4.6
All livestock and products ¹	67,991	69,606	72,895	69,822	71,539	76,010	78,821	83,724		48.7	48.4	52.6
Cattle and calves	31,819	28,861	30,589	29,002	28,865	33,583	36,201	36,676		22.8	20.1	23.0
Dairy products	16,365	18,748	17,931	18,055	17,724	17,727	17,641	19,401		11.7	12.5	12.2
Hogs	8,942	9,790	9,701	9,033	9,734	10,337	9,207	9,426		6.4	6.3	5.9
Broilers	4,303	4,873	6,020	5,668	6,784	6,178	7,435	8,780		3.1	3.9	5.5
Eggs	3,247	3,451	4,110	3,262	3,543	3,209	3,067	3,854		2.3	2.3	2.4
Turkeys	1,273	1,269	1,655	1,820	1,949	1,703	1,951	2,222		0.9	1.3	1.4

NA Not available. ¹ Includes other commodities not shown separately. ² Melons included with vegetables. ³ Sugarcane, mushrooms, legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber.

No. 1132. Government Payments to Farms, by Program: 1980 to 1989

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

PROGRAM	1980	1985	1986	1987	1988	1989	PROGRAM	1980	1985	1986	1987	1988	1989
Total	1,285	7,705	11,814	16,747	14,480	10,867	Rice	2	577	423	475	465	671
Feed grain	382	2,861	5,158	8,490	7,219	3,141	Wool	28	98	112	144	117	81
Wheat	211	1,950	3,500	2,931	1,842	603	Conservation	214	189	254	1,531	1,607	1,771
Cotton	172	1,106	1,042	1,204	924	1,184	Miscellaneous ¹	276	924	1,325	1,972	2,306	3,436

¹ Includes value of commodities transferred to farmers under the payment-in-kind program (PIK).

Source of tables 1131 and 1132: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, 1989.

No. 1133. Farms Receiving Government Payments or Commodity Credit Corporation Loans: 1987

SIZE OF FARM 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	0.7	1,788	6,805	2.3	53	0.6	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
Farms with payments/loans of—										
\$1-\$999	94,213	13.5	45	0.5	482	12,943	4.3	7	0.1	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

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. 1134. Farm Assets, Debt, and Income, by State: 1988 and 1989

[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.)	
	1988	1989	1988	1989	1988	1989	1988	1989	1988	1989
United States	938,515	972,232	148,541	145,966	15.8	15.0	173,838	189,219	41,775	46,652
New England:										
Maine	2,283	2,341	375	340	16.4	14.5	472	522	99	127
New Hampshire	1,448	1,343	71	73	4.9	5.4	161	158	48	38
Vermont	2,757	2,805	338	350	12.3	12.5	456	481	115	112
Massachusetts	3,296	3,336	234	265	7.1	7.9	463	480	160	156
Rhode Island	467	472	29	30	6.2	6.4	90	90	51	49
Connecticut	2,477	2,504	232	216	9.4	8.6	427	435	146	139
Middle Atlantic:										
New York	15,096	15,070	2,248	2,363	14.9	15.7	2,947	3,284	664	830
New Jersey	5,196	5,332	392	401	7.5	7.5	728	767	260	267
Pennsylvania	22,573	22,744	2,418	2,392	10.7	10.5	3,562	4,009	822	1,040
East North Central:										
Ohio	28,830	29,211	3,515	3,453	12.2	11.8	4,077	4,574	640	823
Indiana	28,988	29,965	5,004	4,926	17.3	16.4	4,622	5,483	506	1,019
Illinois	52,477	53,795	7,610	7,473	14.5	13.9	7,552	9,360	1,212	2,193
Michigan	16,906	17,668	3,091	2,912	18.3	16.5	3,122	3,644	462	765
Wisconsin	27,615	28,379	5,414	5,297	19.6	18.7	5,411	6,541	1,209	1,669
West North Central:										
Minnesota	35,807	38,598	7,154	7,000	20.0	18.1	7,033	8,011	1,458	1,936
Iowa	54,085	55,531	9,959	9,971	18.4	18.0	10,630	11,773	1,988	2,413
Missouri	30,960	32,252	4,873	4,756	15.7	14.7	4,402	4,758	686	731
North Dakota	20,463	21,514	3,652	3,570	17.8	16.6	2,648	3,057	303	512
South Dakota	19,571	21,669	3,367	3,281	17.2	15.1	3,231	3,524	660	806
Nebraska	35,774	37,855	6,457	6,474	18.0	17.1	9,562	10,126	2,058	2,092
Kansas	31,515	33,493	5,580	5,603	17.7	16.7	7,570	7,619	1,415	1,086
South Atlantic:										
Delaware	1,631	1,810	281	278	17.2	15.4	634	699	180	202
Maryland	7,813	7,839	903	996	11.6	12.7	1,400	1,501	376	397
Virginia	17,079	19,612	1,972	2,013	11.5	10.3	2,316	2,487	542	574
West Virginia	3,824	3,678	453	440	11.9	12.0	387	414	52	34
North Carolina	18,930	18,504	2,826	2,758	14.9	14.9	4,871	5,353	1,353	1,545
South Carolina	7,297	7,386	1,107	1,011	15.2	13.7	1,287	1,408	325	374
Georgia	18,150	18,630	3,351	3,065	18.5	16.5	3,991	4,340	1,098	1,215
Florida	26,803	28,958	3,697	3,711	13.8	12.8	6,086	6,435	2,575	2,600
East South Central:										
Kentucky	20,297	22,155	2,857	2,795	14.1	12.6	3,113	3,620	875	1,118
Tennessee	18,883	19,631	2,217	2,160	11.7	11.0	2,426	2,428	490	430
Alabama	12,472	13,166	1,616	1,565	13.0	11.9	2,777	2,989	770	823
Mississippi	13,507	13,941	3,041	2,877	22.5	20.6	2,769	2,790	758	623
West South Central:										
Arkansas	17,064	17,063	3,043	3,018	17.8	17.7	4,459	4,810	1,255	1,301
Louisiana	11,589	11,073	2,240	2,072	19.3	18.7	2,115	2,088	678	571
Oklahoma	24,359	24,521	4,203	4,113	17.3	16.8	4,054	4,274	953	975
Texas	90,792	90,058	10,718	10,238	11.8	11.4	12,575	12,905	3,194	3,007
Mountain:										
Montana	17,643	19,943	2,777	2,724	15.7	13.7	1,755	2,154	212	460
Idaho	12,239	13,603	2,518	2,408	20.6	17.7	2,712	3,075	615	812
Wyoming	6,941	7,277	788	770	11.4	10.6	819	790	87	45
Colorado	18,011	18,218	3,150	3,107	17.5	17.1	4,415	4,541	838	952
New Mexico	10,812	11,063	1,082	1,065	10.2	9.6	1,432	1,570	268	306
Arizona	11,636	11,236	1,644	1,637	14.1	14.6	2,122	2,099	667	604
Utah	6,353	6,128	793	737	12.5	12.0	809	812	191	178
Nevada	2,745	2,499	298	287	10.9	11.5	258	299	45	68
Pacific:										
Washington	17,114	18,046	2,921	2,981	17.1	16.5	3,939	4,341	1,272	1,471
Oregon	13,751	14,971	2,626	2,565	19.1	17.1	2,574	2,760	844	874
California	68,253	71,067	13,033	13,068	19.1	18.4	17,943	18,905	6,141	5,963
Alaska	540	545	33	33	6.1	6.1	32	30	12	9
Hawaii	3,601	3,732	341	322	9.5	8.6	603	605	144	118

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1989*.

No. 1135. Farm Income—Farm Marketings, 1988 and 1989, Government Payments, 1989, and Principal Commodities, 1989, by State

[In millions of dollars. Cattle include calves; sheep include lambs; and greenhouse includes nursery]

DIVISION AND STATE	1988			1989			Gov- ern- ment pay- ments	State rank for total farm marketings and four principal commodities in order of marketing receipts
	Farm marketings			Farm marketings				
	Total	Crops	Live- stock and prod- ucts	Total	Crops	Live- stock and prod- ucts		
U.S. . . .	150,192	71,372	78,821	159,173	75,449	83,724	10,887	Cattle, dairy products, corn, hogs
N.E. . . .	1,838	911	927	1,927	963	964	23	(X)
ME . . .	414	197	217	447	233	215	7	42-Potatoes, eggs, dairy products, apples
NH . . .	136	77	59	142	79	63	2	48-Dairy products, greenhouse, apples, cattle
VT . . .	401	51	351	426	51	375	7	44-Dairy products, cattle, hay, maple products
MA . . .	410	305	105	429	317	112	4	43-Greenhouse, cranberries, dairy products, eggs
RI . . .	79	66	13	79	66	13	(Z)	49-Greenhouse, dairy products, eggs, potatoes
CT . . .	398	214	183	404	218	186	2	45-Greenhouse, eggs, dairy products, tobacco
M.A. . . .	6,608	2,281	4,327	7,098	2,360	4,738	166	(X)
NY . . .	2,668	865	1,803	2,857	911	1,946	76	23-Dairy products, greenhouse, cattle, apples
NJ . . .	645	452	193	660	463	197	21	40-Greenhouse, dairy products, eggs, blueberries
PA . . .	3,296	964	2,332	3,581	986	2,595	68	19-Dairy products, cattle, greenhouse, eggs
E.N.C. . . .	21,501	10,528	10,975	23,059	11,642	11,417	2,118	(X)
OH . . .	3,564	1,980	1,584	3,812	2,114	1,698	274	16-Soybeans, dairy products, corn, cattle
IN . . .	4,036	2,320	1,716	4,318	2,502	1,817	334	11-Corn, soybeans, hogs, cattle
IL . . .	6,182	3,927	2,255	6,710	4,458	2,252	726	5-Corn, soybeans, hogs, cattle
MI . . .	2,739	1,535	1,205	2,940	1,627	1,313	262	21-Dairy products, cattle, corn, greenhouse
WI . . .	4,980	784	4,215	5,278	941	4,337	522	9-Dairy products, cattle, hogs, corn
W.N.C. . . .	38,022	15,189	22,832	39,490	15,758	23,732	3,883	(X)
MN . . .	6,067	2,649	3,418	6,526	2,809	3,716	600	6-Dairy products, cattle, soybeans, hogs
IA . . .	8,775	3,787	4,988	9,119	3,911	5,209	981	3-Hogs, cattle, corn, soybeans
MO . . .	3,758	1,746	2,012	3,900	1,732	2,168	356	13-Cattle, soybeans, hogs, dairy products
ND . . .	2,358	1,507	851	2,108	1,465	642	475	28-Wheat, cattle, barley, sunflower
SD . . .	2,945	895	2,050	2,992	884	2,108	340	20-Cattle, hogs, soybeans, wheat
NE . . .	7,800	2,409	5,390	8,521	2,878	5,643	542	4-Cattle, corn, hogs, soybeans
KS . . .	6,320	2,195	4,124	6,324	2,079	4,245	588	7-Cattle, wheat, sorghum grain, corn
S.A. . . .	18,552	9,998	8,554	20,228	10,687	9,541	457	(X)
DE . . .	595	152	444	663	160	503	5	39-Broilers, soybeans, greenhouse, corn
MD . . .	1,224	457	768	1,346	476	870	24	35-Broilers, dairy products, greenhouse, soybeans
VA . . .	1,914	614	1,300	2,058	685	1,372	39	29-Cattle, broilers, dairy products, tobacco
WV . . .	286	68	218	314	64	250	12	46-Cattle, broilers, dairy products, turkeys
NC . . .	4,038	1,850	2,188	4,551	2,046	2,505	94	10-Tobacco, broilers, hogs, turkeys
SC . . .	1,106	616	490	1,225	675	551	73	36-Tobacco, cattle, soybeans, broilers
GA . . .	3,570	1,554	2,016	3,869	1,598	2,270	173	15-Broilers, peanuts, eggs, cattle
FL . . .	5,820	4,688	1,132	6,203	4,982	1,221	38	8-Oranges, greenhouse, tomatoes, sugar
E.S.C. . . .	9,189	3,717	5,452	9,768	3,814	5,954	705	(X)
KY . . .	2,510	980	1,530	2,928	1,258	1,670	118	22-Tobacco, cattle, horses, dairy products
TN . . .	1,933	877	1,056	1,921	881	1,060	141	30-Cattle, dairy products, soybeans, hogs
AL . . .	2,422	728	1,695	2,628	696	1,932	121	25-Broilers, cattle, greenhouse, peanuts
MS . . .	2,305	1,133	1,172	2,292	1,000	1,292	325	27-Broilers, cotton, soybeans, cattle
W.S.C. . . .	19,314	7,647	11,666	20,147	7,600	12,547	2,173	(X)
AR . . .	3,831	1,552	2,280	4,131	1,470	2,661	440	12-Broilers, soybeans, cattle, rice
LA . . .	1,676	1,295	582	1,681	1,048	614	250	32-Cotton, soybeans, sugar, cattle
OK . . .	3,354	1,112	2,243	3,594	1,185	2,409	235	18-Cattle, wheat, greenhouse, broilers
TX . . .	10,251	3,689	6,562	10,760	3,897	6,863	1,249	2-Cattle, cotton, dairy products, broilers
Mt. . . .	12,409	4,916	7,493	13,389	5,692	7,697	797	(X)
MT . . .	1,433	617	816	1,610	710	899	289	33-Cattle, wheat, hay, barley
ID . . .	2,324	1,285	1,039	2,715	1,670	1,046	99	24-Cattle, potatoes, wheat, dairy products
WY . . .	761	177	584	856	186	669	34	37-Cattle, hay, sugar beets, sheep
CO . . .	3,700	1,034	2,666	3,899	1,250	2,649	183	14-Cattle, corn, wheat, dairy products
NM . . .	1,283	375	909	1,424	450	974	65	34-Cattle, dairy products, hay, cotton
AZ . . .	1,969	1,177	792	1,902	1,158	744	85	31-Cotton, cattle, dairy products, lettuce
UT . . .	701	173	528	748	174	574	35	38-Cattle, dairy products, hay, turkeys
NV . . .	236	79	159	235	94	141	6	47-Cattle, hay, dairy products, potatoes
Pac. . . .	22,778	16,185	6,593	24,066	16,932	7,134	565	(X)
WA . . .	3,336	2,196	1,140	3,639	2,438	1,201	131	17-Dairy products, wheat, apples, cattle
OR . . .	2,182	1,508	673	2,297	1,558	739	60	26-Cattle, greenhouse, wheat, dairy products
CA . . .	16,652	11,970	4,682	17,515	12,422	5,093	372	1-Dairy products, greenhouse, grapes, cattle
AK . . .	30	20	10	29	20	9	1	50-Greenhouse, dairy products, potatoes, cattle
HI . . .	579	490	89	587	495	92	(Z)	41-Sugar, pineapples, greenhouse, macadamia nuts

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, 1989*.

No. 1136. Commodity Credit Corporation—Summary: 1970 to 1989

[In millions of dollars. As of end of fiscal year or for fiscal year 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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
LOAN ACTIVITY ¹											
Loans made	2,388	4,228	5,849	11,454	13,710	5,131	10,187	17,391	16,566	13,302	7,068
Loans repaid	1,830	4,148	5,741	4,629	9,373	10,581	4,458	5,675	13,894	17,979	9,394
Loans cancelled by acquisition of collateral	1,073	115	71	363	860	1,032	1,638	5,583	6,144	2,110	1,055
Loans outstanding ²	2,952	5,119	5,193	11,633	15,084	8,571	12,631	18,668	15,174	8,354	4,922
Wheat	576	837	1,871	3,321	4,162	3,414	4,591	3,753	2,836	1,608	865
Corn	632	1,617	629	4,210	5,274	1,236	2,766	7,878	7,424	3,803	1,921
Cotton	170	35	76	714	960	67	376	1,076	450	569	594
Tobacco	845	815	764	867	1,738	2,084	2,539	2,336	2,071	1,616	1,236
COMMODITY INVENTORY OPERATIONS											
Acquisitions, value ^{2,3}	1,518	2,759	2,507	2,968	8,634	8,741	4,294	9,912	17,617	12,167	3,193
Purchases	398	2,643	2,503	2,593	7,644	7,676	2,616	4,195	11,212	9,901	2,201
Collateral acquired from loans	1,120	116	4	375	990	1,065	1,678	5,717	6,405	2,266	992
Wheat	217	601	28	27	1,600	1,983	919	2,196	1,802	1,051	294
Corn	49	416	21	179	3,132	2,591	192	2,287	10,218	8,484	1,418
Cotton	304	1	(Z)	(Z)	175	1,056	53	559	1,273	138	73
Dairy products	253	1,262	1,991	2,282	2,716	1,983	1,820	2,036	956	1,125	611
Commodities owned, value ²	1,858	2,737	3,727	5,103	10,227	7,358	6,921	11,050	11,735	5,588	3,771
Wheat	405	705	679	679	1,533	1,510	1,951	3,491	3,272	1,208	697
Corn	293	596	555	709	3,392	1,045	757	1,757	4,172	2,197	1,253
Cotton	225	1	1	2	174	74	46	226	24	2	34
Sorghum	173	93	79	91	520	290	359	725	1,244	1,268	96
Dairy products	134	1,266	2,396	3,442	4,219	4,102	3,014	2,930	1,439	732	681

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. 1137. Commodity Credit Corporation—Net Outlays, by Commodity and Function: 1970 to 1990

[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	1982	1983	1984	1985	1986	1987	1988	1989	1990 ¹
Total	3,839	2,752	11,652	18,851	7,315	17,683	25,841	22,408	12,481	10,523	6,742
Feed grains	1,440	1,286	5,397	6,815	-758	5,211	12,211	13,967	9,053	3,384	2,984
Wheat	796	879	2,238	3,419	2,536	4,891	3,440	2,836	678	53	576
Cotton, upland	891	64	1,190	1,363	244	1,553	2,142	1,786	666	1,461	-109
Dairy	87	1,011	2,182	2,528	1,502	2,085	2,337	1,166	1,295	679	423
Rice	39	-76	164	664	333	990	947	906	128	631	701
Wool	56	35	54	94	132	109	123	152	5	93	112
Honey	1	9	27	48	90	81	89	73	100	42	63
Peanuts	35	28	12	-6	1	12	32	8	7	13	-6
Sugar	-	-405	-5	49	10	184	214	-65	-246	-25	-
Tobacco	115	-88	103	880	346	455	253	-346	-453	-367	-242
Soybeans	-161	116	169	288	-585	711	1,597	-476	-1,678	-86	116
Operating expense	57	157	294	328	362	346	457	535	614	620	627
Interest expenditure	312	518	-13	3,525	1,064	1,435	1,411	1,219	395	65	653
Export programs	45	-669	65	398	743	134	102	276	200	-102	-39
1988/89 disaster/livestock assistance	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3,919	³ 196
Other	126	-113	-225	-1,542	1,295	-314	486	371	1,695	143	687
Price support loans ⁴	552	-66	7,015	8,438	-27	6,272	13,628	12,199	4,579	-926	-276
Direct payments ⁵	2,135	418	1,491	3,600	2,117	7,827	6,746	5,862	4,245	6,011	4,337
Deficiency payments	1,529	79	1,184	2,780	612	6,302	6,166	4,833	3,971	5,798	4,158
Diversion payments	606	56	(Z)	705	1,504	1,525	64	382	8	-1	-
1988/89 crop disaster	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	3,386	³ 16
Emergency livestock/forage assistance	-	23	16	-	-	-	-	-	31	533	180
Purchases	-336	1,681	2,031	2,540	1,470	1,331	1,670	-479	-1,131	116	-122
Producer storage payments	144	254	679	964	268	329	485	832	658	174	175
Processing, storage and transportation	215	259	355	665	639	657	1,013	1,659	1,113	659	380
Operating expense	57	157	294	328	362	346	457	535	614	620	627
Interest expenditure	312	518	-13	3,525	1,064	1,435	1,411	1,219	395	65	653
Export programs	146	-669	65	398	743	134	102	276	200	-102	-39
Other	614	177	-281	-1,607	679	-648	329	305	1,757	-13	811

- Represents zero. X Not applicable. Z Less than \$500,000. ¹ Estimated in the fiscal 1991 mid-session review of the 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 Benefits to farmers under the Disaster Assistance Act of 1989 are being paid in generic certificates and are not recorded directly as disaster assistance outlays. ⁴ Price support loans made less loans repaid. ⁵ Includes disaster payments; for 1970 includes support and acreage diversion payments; and beginning 1986 includes dairy termination program. ⁶ Purchases less sales proceeds.

⁷ 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 1136 and 1137: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual, and *Agricultural Outlook*, monthly.

No. 1138. Indexes of Prices Received and Paid by Farmers: 1980 to 1990

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

ITEM	1980	1985	1989	1990	ITEM	1980	1985	1989	1990
Prices received, all products	134	128	147	150	Prices paid, total ³	138	162	178	184
Crops	125	120	134	128	Production	138	151	167	171
Food grains	165	133	156	123	Feed	123	116	135	128
Feed grains and hay	132	122	128	123	Feeder livestock	177	154	194	213
Cotton	114	93	98	107	Seed	118	153	165	165
Tobacco	125	153	145	148	Fertilizer	134	135	137	130
Oil-bearing crops	102	84	102	93	Agricultural chemicals	102	128	132	139
Fruits	124	180	192	191	Fuels and energy	188	201	181	204
Commercial vegetables	113	129	151	154	Farm and motor supplies	134	146	155	154
Livestock and products	144	136	160	171	Interest payable per acre	174	228	177	174
Meat animals	156	142	174	193	Taxes payable per acre	115	136	152	157
Dairy products	135	131	140	142	Wage rates	127	154	186	192
Poultry and eggs	112	119	137	131	Parity ratio (1910-14 = 100)	65	52	55	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 770. 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. 1139. Civilian Consumer Expenditures for Farm Foods—Farm Value and Marketing Bill: 1970 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Consumer expenditures, total	110.6	264.4	287.7	298.9	315.0	332.0	345.4	359.6	375.5	398.8	423.4
Farm value, total	35.5	81.7	81.7	81.4	85.3	89.8	86.4	88.3	90.4	96.8	103.0
Marketing bill, total ¹	75.1	182.7	206.0	217.5	229.7	242.2	259.0	270.8	285.1	301.9	320.4
Percent of total consumer expenditures	67.9	69.1	71.6	72.8	72.9	73.0	75.3	75.9	75.7	75.7	75.7
At-home expenditures	78.2	180.1	194.0	196.7	204.6	213.1	220.8	226.0	230.2	241.2	258.6
Farm value	29.1	65.9	65.4	64.1	66.5	69.5	66.6	67.6	67.5	72.5	76.6
Marketing bill	49.1	114.2	128.6	132.6	138.1	143.6	154.2	158.4	162.7	169.6	182.0
Percent of at-home expenditures	62.8	63.4	66.3	67.4	67.5	67.4	69.8	70.1	70.7	70.1	70.4
Away-from-home expenditures	32.4	84.3	93.7	102.2	110.4	118.9	124.6	133.6	145.3	156.7	164.8
Farm value	6.4	15.8	16.3	17.3	18.8	20.3	19.8	21.2	22.9	24.3	26.4
Marketing bill	26.0	68.5	77.4	84.9	91.6	98.6	104.8	112.4	122.4	132.4	138.4
Percent of away-from-home expenditures	80.2	81.3	82.6	83.1	83.0	82.9	84.1	84.1	84.2	84.5	84.0
Marketing bill cost components:											
Labor cost ²	32.2	81.5	91.0	96.6	102.4	109.3	115.6	122.9	130.0	137.9	146.7
Packaging materials	8.2	21.0	22.6	23.7	24.7	26.2	26.9	27.7	29.9	32.4	35.1
Rail and truck transport ³	5.2	13.0	14.3	14.7	15.4	15.9	16.5	16.8	17.2	17.8	18.6
Corporate profits before taxes	3.6	9.9	9.7	9.3	9.6	9.6	10.5	9.9	10.4	11.3	11.1
Fuels and electricity	2.2	9.0	10.0	11.0	11.7	12.5	13.1	13.2	13.6	14.4	15.8
Other	23.7	48.3	58.4	62.2	65.9	68.7	76.4	80.3	84.0	88.2	93.1
Processing	29.7	66.3	73.7	75.6	77.8	80.8	88.4	91.0	93.9	99.7	106.0
Wholesaling	8.7	20.4	23.0	25.9	27.1	28.6	29.8	30.5	31.8	33.8	35.9
Transportation	5.2	13.0	14.4	14.9	15.4	16.0	16.6	16.8	17.6	17.7	18.6
Retailing and food service	31.5	83.0	95.0	101.1	109.4	116.8	124.2	132.5	141.8	150.8	159.9
SELECTED FOOD COMMODITY GROUPS											
Meat products:											
Total expenditures	33.7	83.3	86.6	91.9	97.9	101.7	103.2	106.3	110.0	117.4	122.7
Farm value	14.4	30.8	31.1	31.5	31.4	32.4	30.5	30.9	32.7	33.5	34.0
Percent of total	42.7	37.0	35.9	34.3	32.1	31.9	29.6	29.1	29.7	28.5	27.7
Marketing bill	19.4	52.5	55.5	60.4	66.5	69.3	72.7	75.4	77.3	83.9	88.7
Poultry and eggs:											
Total expenditures	9.1	18.3	19.9	20.3	21.7	24.2	26.0	27.6	29.4	31.3	33.6
Farm value	4.0	8.4	8.8	8.5	9.3	11.0	10.2	11.5	10.3	12.1	14.1
Percent of total	44.0	45.9	44.2	41.9	42.9	45.5	39.2	41.7	35.0	38.7	42.0
Marketing bill	5.1	9.9	11.1	11.8	12.4	13.2	15.8	16.1	19.1	19.2	19.5
Dairy products:											
Total expenditures	16.7	37.8	41.4	42.0	45.0	47.4	49.4	51.4	54.0	56.0	58.7
Farm value	6.9	16.0	17.0	16.7	18.0	18.1	17.7	17.8	18.2	17.9	19.6
Percent of total	41.3	42.3	41.1	39.8	40.0	38.2	35.8	34.6	33.7	32.0	33.4
Marketing bill	9.8	21.8	24.4	25.3	27.0	29.3	31.7	33.6	35.8	38.1	39.1
Fruits and vegetables:											
Total expenditures	22.6	55.5	62.8	66.7	70.0	74.7	78.5	81.6	84.7	89.3	95.1
Farm value	5.1	11.7	11.8	11.5	12.9	13.5	13.3	14.6	14.3	16.2	17.6
Percent of total	22.6	21.1	18.8	17.2	18.4	18.1	16.9	17.9	16.9	18.1	18.5
Marketing bill	17.5	43.8	51.0	55.2	57.1	61.2	65.2	67.0	70.4	73.1	77.5
Bakery, grain mill products:											
Total expenditures	13.6	35.2	37.9	39.6	40.6	43.3	45.5	48.3	49.9	54.7	59.5
Farm value	2.0	5.1	4.9	4.8	4.9	5.1	4.7	4.0	3.8	4.9	5.9
Percent of total	14.7	14.5	12.9	12.1	12.1	11.8	10.3	8.3	7.6	9.0	9.9
Marketing bill	11.6	30.1	33.0	34.8	35.7	38.2	40.8	44.3	46.1	49.8	53.6

¹ The difference between 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, rent, depreciation, interest on borrowed capital, taxes other than income, and other costs.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review*, 1989, AER No. 636, July 1990; *National Food Review*, periodic; and *Agricultural Statistics*, annual.

No. 1140. Farmer Marketing and Farm Supply Cooperatives—Summary: 1970 to 1988

[1970 and 1975, for fiscal years of cooperatives ending between July 1 of preceding year and June 30 of year shown. Beginning 1980, 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	1980	1981	1982	1983	1984	1985	1986	1987	1988
Cooperatives listed	7,790	7,645	6,293	6,211	6,125	5,989	5,782	5,625	5,369	5,109	4,937
Marketing ¹	5,015	4,916	3,924	3,855	3,826	3,781	3,646	3,589	3,398	3,168	3,101
Farm supply	2,775	2,729	2,369	2,356	2,299	2,208	2,136	2,036	1,971	1,941	1,836
Memberships² (1,000)	6,355	6,123	5,379	5,335	5,136	4,955	4,842	4,781	4,600	4,440	4,195
Marketing ¹ (1,000)	3,133	3,151	2,574	2,479	2,469	2,402	2,445	2,383	2,290	2,158	2,053
Farm supply (1,000)	3,222	2,972	2,804	2,856	2,666	2,553	2,397	2,398	2,310	2,282	2,142
Business³ (mil. dol.)	19,080	41,342	66,254	71,534	69,150	68,755	73,047	65,801	58,395	60,318	66,430
Marketing ¹ (mil. dol.)	15,207	32,682	50,120	54,475	52,788	50,812	56,078	48,961	43,300	46,047	51,006
Farm supply (mil. dol.)	3,873	8,660	16,134	17,059	16,362	15,943	16,969	16,841	15,095	14,271	15,424

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. 1141. Selected Indexes of Farm Inputs: 1970 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	96	103	102	99	96	96	92	89	89	87	88
Farm labor	112	96	96	93	97	92	85	80	78	75	76
Farm real estate ¹	105	103	104	102	101	99	97	96	95	94	93
Mechanical power and machinery	85	101	98	92	89	86	80	77	73	72	73
Agricultural chemicals ²	75	123	129	118	102	120	115	109	111	111	122
Feed, seed, and livestock purchases ³	96	114	108	107	103	106	102	110	117	110	119
Taxes and interest	102	100	99	95	99	93	96	97	100	97	94
Miscellaneous	89	96	108	116	101	110	116	110	122	119	123

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. 1142. Farm Machinery and Equipment: 1970 to 1989

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

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Value of farm implements and machinery¹	Bil. dol.	34.4	62.1	99.3	107.8	107.9	106.2	102.7	92.4	84.4	78.6	79.7	82.0
Farmers' expenditures:													
Motor vehicles ²	Mil. dol.	2,030	3,833	5,813	5,652	4,436	4,724	4,583	3,699	3,227	4,265	4,707	5,407
Tractors	Mil. dol.	1,123	2,460	3,683	3,740	2,597	2,606	2,539	1,937	1,513	2,098	2,411	2,846
Machinery, equipment	Mil. dol.	2,888	4,820	6,956	6,481	5,068	4,735	4,682	3,232	3,094	4,257	4,026	5,089
Repair and maintenance	Mil. dol.	1,910	3,417	5,205	5,278	4,635	4,793	4,908	4,834	4,825	5,096	5,167	6,098
Tractors, machinery and equipment	Mil. dol.	1,126	2,360	3,746	3,771	3,585	3,707	3,796	3,739	3,732	3,941	3,996	4,716
Autos and trucks ³	Mil. dol.	784	1,057	1,459	1,507	1,050	1,086	1,112	1,095	1,093	1,154	1,171	1,381
Retail sales:⁴													
Tractors, total ⁵	1,000 . . .	135.5	161.1	119.3	103.8	77.2	71.3	66.7	58.5	47.1	48.3	52.0	59.7
2-wheel drive	1,000 . . .	135.5	150.5	108.4	94.1	70.4	66.2	62.7	55.5	45.1	46.6	49.3	55.5
4-wheel drive	1,000 . . .	(NA)	10.6	10.9	9.7	6.8	5.1	4.0	3.0	2.0	1.7	2.7	4.2
Combines	1,000 . . .	26.7	33.1	25.7	26.8	16.2	12.8	11.4	8.4	7.7	7.2	6.0	9.1
Field forage harvesters	1,000 . . .	15.0	13.1	9.5	7.6	5.1	4.1	3.5	2.5	2.2	2.3	2.4	2.8

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: Equipment Manufacturers Institute, Chicago, IL, unpublished data. ⁵ Beginning 1980, 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. 1143. Corn, Wheat, and Soybean Acreage Treated With Agrichemicals, by Type: 1971 to 1989

YEAR	CORN			WHEAT			SOYBEANS		
	Fertilizer	Herbi- cides	Insecti- cides	Fertilizer	Herbi- cides	Insecti- cides	Fertil- izers	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
1985	81,779	80,110	37,552	58,193	(NA)	(NA)	20,202	59,974	4,419
1987	63,076	63,076	26,939	52,667	40,817	4,608	17,386	55,057	1,739
1988	65,685	65,008	23,701	54,389	34,730	2,621	18,828	56,486	4,707
1989	70,127	70,127	23,135	62,058	36,009	2,298	20,629	58,243	1,213
PERCENT OF ACRES TREATED									
1971	94	79	35	58	41	7	20	68	8
1980	96	93	43	67	(NA)	(NA)	37	92	11
1985	98	96	45	77	(NA)	(NA)	32	95	7
1987	96	96	41	80	62	7	30	95	3
1988	97	96	35	83	53	4	32	96	8
1989	97	97	32	81	47	3	34	96	2

NA Not available.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Resources: Situation and Outlook Report*, February 1990 and previous issues.

No. 1144. 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)	11,072	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	171,268		

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. 1145. 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	1987						1975	1981	1985	1987
				Total	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	4,649
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	1,980	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 .	446	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. 1146. Farm Output Indexes: 1970 to 1990

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

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990, prel.
Farm output ¹	84	104	118	118	96	112	118	111	110	102	114	117
Per unit of total input	87	101	116	117	99	117	128	124	124	117	128	(NA)
Gross production:												
Livestock and products ²	99	108	109	107	109	107	110	110	113	116	116	117
Meat animals	102	107	106	101	104	101	102	100	102	105	104	101
Dairy products	95	105	108	110	114	110	117	116	116	118	117	120
Poultry and eggs	93	115	119	119	120	123	128	133	144	148	153	165
Crops ³	77	101	117	117	88	111	118	109	108	92	107	112
Feed grains	71	97	121	122	67	116	134	123	106	73	108	112
Hay and forage	92	98	106	109	100	107	106	106	102	89	101	101
Food grains	69	121	144	138	117	129	121	107	107	98	107	136
Vegetables	96	104	111	116	107	117	122	117	126	115	132	(NA)
Fruits and nuts	81	119	111	113	110	114	119	111	137	137	129	(NA)
Sugar crops	95	97	107	96	93	95	97	106	111	105	105	106
Cotton	72	79	109	85	55	91	94	69	103	107	86	102
Tobacco	100	93	108	104	75	90	81	63	62	72	71	84
Oil crops	66	99	114	121	91	106	117	110	108	89	106	102

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, 1989*. Also in *Agricultural Outlook*, monthly.

No. 1147. Selected Farm Products—Production and Exports: 1970 to 1990

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989	1990
Corn for grain: Production	Mil. bu.	4,152	6,639	4,175	7,872	8,876	8,226	7,131	4,929	7,525	7,933
Exports	Mil. bu.	517	2,355	1,902	1,850	1,227	1,492	1,716	2,028	2,367	1,750
Percent of production	Percent	12.5	35.5	45.5	24.1	13.8	18.1	24.1	41.1	31.5	22.1
Soybeans, for beans: Production	Mil. bu.	1,127	1,798	1,836	1,861	2,099	1,940	1,938	1,549	1,924	1,922
Exports ¹	Mil. bu.	434	724	743	598	740	757	802	527	623	540
Percent of production	Percent	38.5	40.3	45.4	32.1	35.7	39.0	41.4	34.0	32.4	28.1
Wheat: Production	Mil. bu.	1,352	2,381	2,420	2,595	2,424	2,091	2,108	1,812	2,037	2,739
Exports	Mil. bu.	741	1,514	1,429	1,424	909	999	1,598	1,419	1,233	1,050
Percent of production	Percent	54.8	63.6	59.0	54.9	37.5	47.8	75.8	78.3	60.5	38.3
Cotton: Production	Mil. bales ²	10.2	11.1	7.8	13.0	13.4	9.7	14.8	15.4	12.2	15.8
Exports	Mil. bales	3.9	5.9	6.8	6.2	2.0	6.7	6.6	6.2	7.7	7.9
Percent of production	Percent	38.2	53.2	87.2	47.7	14.9	69.1	44.6	40.3	63.1	50.6
Tobacco: Production	Mil. lb.	1,906	1,786	1,429	1,728	1,511	1,164	1,191	1,370	1,370	(NA)
Exports	Mil. lb.	639	649	596	666	620	591	573	555	558	(NA)
Percent of production	Percent	33.5	36.3	41.7	38.5	41.0	50.8	48.1	40.5	40.7	(NA)

NA Not available. 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. 1148. Selected Farm Products—United States and World Production and Exports: 1986 to 1988

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

ITEM	Unit	AMOUNT						UNITED STATES AS PERCENT OF WORLD		
		United States			World			1986	1987	1988
		1986	1987	1988	1986	1987	1988			
PRODUCTION ¹										
Wheat	Million.	57	57	49	531	502	501	10.7	11.4	9.8
Corn for grain	Million.	210	181	125	476	448	400	44.1	40.4	31.3
Soybeans	Million.	53	53	42	98	104	95	53.9	51.0	44.6
Rice, rough	Million.	6.0	5.9	7.3	468	463	488	1.3	1.3	1.4
Tobacco, unmanufactured ²	1,000	528	539	621	5,928	6,160	6,840	8.9	8.8	9.1
Vegetable oils	Million.	6.7	7.1	6.4	50.3	53.1	53.6	13.7	13.8	11.9
Cotton	Million bales ³	9.7	14.8	15.4	70.7	81.3	84.8	13.7	18.2	18.2
EXPORTS ⁴										
Wheat ⁵	Million.	28.4	43.4	37.6	90.7	105.0	96.9	31.3	41.3	38.8
Corn	Million.	39.4	44.5	51.3	56.4	56.7	63.8	69.9	78.5	80.4
Soybeans	Million.	20.6	21.9	14.4	28.5	30.1	23.5	72.2	72.8	61.3
Rice, milled basis	Million.	2.4	2.2	3.0	12.9	11.9	15.1	18.6	18.5	19.9
Tobacco, unmanufactured ⁶	1,000	217	195	219	1,334	1,350	1,368	16.3	14.4	16.0
Vegetable oils	Million.	0.9	1.5	1.3	16.9	17.7	18.4	5.3	8.5	7.0
Cotton	Million bales ³	6.7	6.6	6.1	26.0	23.3	26.1	25.8	28.3	23.4

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. 1149. Agricultural Exports and Imports—Volume, by Principal Commodities: 1980 to 1989

[In thousands of metric tons]

EXPORTS	1980	1985	1988	1989	IMPORTS	1980	1985	1988	1989
Animal products ¹	2,575	2,517	2,765	2,966	Fruits, nuts, and vegetables	2,325	3,669	3,845	4,287
Wheat and products ²	37,130	26,123	41,957	37,652	Bananas	2,352	2,969	2,891	2,930
Feed grains and products	72,970	51,735	55,211	67,113	Green coffee	1,089	1,122	965	1,163
Rice	3,075	1,961	2,303	3,057	Cocoa and products	252	565	512	569
Feeds and fodders	6,888	6,710	11,374	10,993	Meat and products ⁵	931	1,139	1,263	1,111
Oilseeds and products ³	31,042	23,679	26,904	21,798	Vegetable oils	704	961	1,346	1,054
Fruits, nuts and vegetables ⁴	4,147	3,255	4,057	4,287	Sugar	3,744	2,198	1,214	1,542
Cotton	1,880	1,135	1,346	1,580					
Tobacco	272	249	219	225					

¹ Includes meat and products, poultry meats, dairy products, and fats, oils and greases. Excludes live animals, hides, skins, and eggs. ² Includes flour and bulgur. ³ Includes soybeans, sunflowerseeds, peanuts, cottonseed, safflowerseed, flaxseed, and nondefatted soybean flour. ⁴ Excludes fruit juices. ⁵ Excludes poultry.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, annual, and *Foreign Agricultural Trade of the United States*, Jan./Feb. 1990.

No. 1150. Agricultural Exports and Imports—Value: 1970 to 1989

[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
1985-1989, avg.	11.3	32.2	12	20.9	5	1981	26.6	43.3	18	16.8	6
1970	1.5	7.3	17	5.8	15	1982	21.2	36.6	17	15.4	6
1971	1.9	7.7	18	5.8	13	1983	19.5	36.1	18	16.6	7
1972	2.9	9.4	19	6.5	12	1984	18.5	37.8	17	19.3	6
1973	9.3	17.7	25	8.4	12	1985	9.1	29.0	13	20.0	6
1974	11.7	21.9	23	10.2	10	1986	4.8	26.2	13	21.5	6
1975	12.6	21.9	21	9.3	10	1987	8.3	28.7	12	20.4	5
1976	12.0	23.0	20	11.0	9	1988	16.2	37.1	12	21.0	5
1977	10.2	23.6	20	13.4	9	1989	18.2	40.0	11	21.8	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. 1151. Agricultural Imports—Value, by Selected Commodity, 1970 to 1989, and by Leading Countries of Origin, 1989

[In millions of dollars]

COMMODITY	1970	1980	1985	1986	1987	1988	1989	Leading countries of origin, 1989
Total	5,770	17,366	19,968	21,453	20,402	20,951	21,752	Canada, Brazil, Mexico
Competitive products	3,609	10,374	13,067	13,436	13,781	14,688	15,627	Canada, Mexico, New Zealand
Beef and veal	680	1,780	1,276	1,289	1,562	1,679	1,663	Australia, New Zealand, Canada
Pork	272	486	861	1,001	1,096	933	754	Canada, Denmark, Poland
Dairy products	126	488	765	827	831	875	857	New Zealand, Ireland, France
Fruits and preparations	146	564	1,738	1,598	1,718	1,866	1,820	Brazil, Mexico, Chile
Vegetables and preparations	296	864	1,385	1,602	1,535	1,615	2,049	Mexico, Spain, Canada
Wine	145	692	998	1,017	966	939	930	France, Italy, Spain
Malt beverages	32	367	633	791	882	918	855	Netherlands, Canada, Mexico
Grains and feeds	99	371	623	693	748	909	1,217	Canada, Thailand, Italy
Sugar and related products	798	2,205	1,190	991	630	690	956	Dominican Republic, Canada, Philippines
Noncompetitive products	2,161	6,992	6,902	8,017	6,621	6,263	6,125	Indonesia, Brazil, Mexico
Coffee and products	1,213	4,186	3,322	4,620	2,908	2,470	2,432	Mexico, Brazil, Colombia
Rubber, crude natural	236	817	654	622	760	1,023	958	Indonesia, Malaysia, Thailand
Cocoa and products	279	920	1,351	1,129	1,194	1,003	977	Brazil, Ivory Coast, Canada
Bananas and plantains	194	430	763	763	819	832	871	Ecuador, Costa Rica, Honduras

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

No. 1152. Agricultural Exports—Value, by Principal Commodities and Selected Countries of Destination: 1970 to 1989

[See headnote, table 1150. Data by country of destination for 1970 and 1980 are not adjusted for transshipments]

COMMODITY AND COUNTRY	VALUE (mil. dol.)									PERCENT		
	1970	1980	1984	1985	1986	1987	1988	1989		1970	1980	1989
Total agricultural exports ¹	7,255	41,233	37,804	29,041	25,222	28,709	37,128	38,991		100.0	100.0	100.0
Grains and feeds ²	2,720	19,117	17,163	11,882	8,656	9,423	13,979	17,202		37.5	46.4	43.0
Feed grains and products	1,093	9,831	8,204	6,112	3,176	3,917	5,970	7,874		15.1	23.8	19.7
Corn	818	8,492	6,999	5,206	2,605	3,209	5,040	6,581		11.3	20.6	15.5
Wheat and products	1,136	6,660	6,740	3,898	3,290	3,280	5,117	6,150		15.7	16.2	15.4
Rice	313	1,289	845	665	625	576	806	970		4.3	3.1	2.4
Oilseeds and products ²	1,831	9,393	8,369	5,794	6,467	6,446	7,753	8,316		26.8	22.8	15.8
Soybeans	1,228	5,880	5,418	3,732	4,326	4,378	4,920	3,944		16.9	14.3	9.9
Soybean oil cake and meal	344	1,665	997	870	1,229	1,211	1,580	1,136		4.7	4.0	2.8
Vegetable oils and waxes	295	1,216	1,270	870	672	626	983	672		4.1	2.9	2.2
Animals and animal products ²	865	3,768	4,228	4,150	4,547	5,156	6,422	6,373		11.9	9.1	15.9
Hides and skins, incl. furskins	187	1,046	1,383	1,295	1,522	1,731	1,829	1,717		2.6	2.5	4.3
Cattle hides	130	623	1,086	1,007	1,219	1,328	1,466	1,343		1.8	1.5	3.4
Meats and meat products	132	890	928	905	1,130	1,368	1,974	2,346		1.8	2.2	5.9
Beef and veal	25	249	470	467	634	771	1,109	1,418		0.3	0.6	3.5
Fats, oils, and greases	246	769	698	619	413	431	577	512		3.4	1.9	1.3
Poultry and poultry products	82	603	415	384	504	602	689	720		1.1	1.5	1.8
Cotton, excluding lint	372	2,864	2,441	1,633	812	1,631	1,975	2,250		5.1	6.9	5.6
Tobacco, unmanufactured	517	1,334	1,511	1,521	1,223	1,090	1,253	1,341		7.1	3.2	3.4
Fruits and preparations	334	1,335	1,243	1,186	1,306	1,484	1,762	1,836		4.6	3.2	4.6
Fresh fruits	164	739	758	743	851	939	1,093	1,133		2.3	1.8	2.8
Vegetables and preparations	219	1,188	1,002	930	1,085	1,158	1,361	1,604		3.0	2.9	4.0
Nuts and preparations	69	757	604	683	753	804	884	866		1.0	1.8	2.1
Other	232	1,477	1,243	1,262	1,373	1,517	1,737	2,223		3.2	3.6	5.6
Asia ¹	2,717	14,886	14,907	11,191	10,617	12,535	16,871	18,841		37.5	36.1	47.1
Japan	1,214	6,111	6,782	5,409	5,141	5,723	7,640	8,164		16.7	14.8	20.4
South Korea	224	1,797	1,650	1,413	1,306	1,833	2,283	2,593		3.1	4.4	6.5
China: Taiwan	134	1,095	1,458	1,231	1,171	1,285	1,661	1,754		1.9	2.7	4.4
Mainland	-	2,210	613	157	58	362	759	1,433		-	5.4	3.6
Iraq	2	255	535	326	360	538	808	749		-	0.6	1.9
Hong Kong	57	437	412	389	400	466	489	615		0.8	1.1	1.5
Pakistan	119	158	310	268	225	138	393	552		1.6	0.4	1.4
Western Europe ¹	2,534	11,744	8,837	6,937	7,056	7,309	7,877	7,058		34.9	28.5	17.6
European Economic Community	2,316	11,033	8,257	6,477	6,627	6,880	7,338	6,566		29.4	22.4	16.4
Netherlands	528	3,412	2,323	1,869	2,073	1,985	2,066	1,722		7.3	8.3	4.3
West Germany	529	1,831	1,065	944	1,048	1,285	1,215	1,000		7.3	4.4	2.4
Spain	143	1,129	1,029	837	703	666	883	859		2.0	2.7	2.1
United Kingdom	210	411	928	754	604	681	835	703		5.7	2.3	1.8
Italy	411	1,084	806	669	727	697	693	637		2.9	2.7	1.6
Latin America ¹	688	6,150	5,263	4,224	3,681	3,878	4,927	5,346		9.5	14.9	13.4
Mexico	155	2,488	1,993	1,439	1,080	1,202	2,227	2,731		2.1	6.0	6.8
Canada	826	1,852	1,963	1,622	1,542	1,808	2,019	2,228		11.4	4.5	5.6
Soviet Union	16	1,047	2,878	1,923	658	938	2,252	3,586		0.2	2.5	9.0
Eastern Europe	169	2,071	758	479	434	436	540	401		2.3	5.0	1.0
Africa ¹	254	2,179	2,972	2,488	2,008	1,766	2,385	2,261		3.5	5.3	5.7
Egypt	26	770	909	891	811	679	811	989		0.4	1.9	2.5

- 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, France, 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, and *Foreign Agricultural Trade of the United States*, Jan/Feb 1990.

No. 1153. Agricultural Exports—Estimated Value, by Leading States: 1989

[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 commodities ¹	39,651	CA	3,561	NE	2,984	IA	2,978	KS	2,845	TX	2,640
Feed grains and products	8,346	NE	1,447	IA	1,408	IL	1,107	KS	656	IN	650
Wheat and products	6,292	KS	1,027	WA	623	OK	549	ND	437	ID	358
Soybeans and products	5,774	IA	936	IL	876	MN	465	IN	431	MO	418
Live animals and meat	2,830	KS	388	NE	386	TX	363	IA	236	KY	217
Cotton and lint	2,059	TX	706	CA	378	MS	244	AZ	148	AR	140
Fruits and preparations	1,800	CA	912	FL	403	WA	160	OR	56	MI	52
Hides and skins	1,657	KS	300	NE	285	TX	268	CO	109	IA	95
Vegetables and preparations	1,546	CA	715	WA	180	ID	74	WI	72	OR	69
Tobacco, unmanufactured	1,274	NC	540	KY	278	SC	98	VA	94	GA	84
Feeds and fodders	1,061	IA	108	MN	93	NE	89	IL	88	FL	79

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. 1990.

No. 1154. Cropland Used for Crops and Acreages of Crops Harvested: 1970 to 1989

[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)				Index (1977 = 100)		Total (mil. acres)	Used to produce goods for—			
	Total	Crop-land harvested ¹	Crop failure	Culti-vated summer fallow				Domestic use		Exports	
								Amount (mil. acres)	Per capita (acres) ³	Amount (mil. acres)	Per-cent of total
1970	332	289	5	38	88	88	293	221	1.08	72	24.6
1980	382	342	10	30	101	100	352	215	0.94	137	38.9
1984	373	337	6	30	99	112	348	252	1.06	96	27.6
1985	372	334	7	31	98	120	342	263	1.10	81	23.7
1986	357	316	9	32	94	116	325	229	0.95	96	29.5
1987	331	293	6	32	88	123	302	196	0.80	106	35.1
1988	327	287	10	30	86	107	298	180	0.73	118	39.6
1989 ⁴	341	306	8	27	90	119	318	216	0.87	102	32.1

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. 1155. Crops—Acreage and Value, 1987 to 1989, and Order of Value, 1989, by State

STATE	ACREAGE HARVESTED (1,000)			FARM VALUE (mil. dol.)			Crops in order of value, 1989	
	1987	1988	1989, prel.	1987	1988	1989, prel.		
						Value		Rank
U.S. ¹	289,422	289,846	305,641	68,963	72,828	76,967	(X) Corn, hay, soybeans, wheat	
AL	2,358	2,389	2,356	533	571	576	34 Peanuts, cotton lint, hay, soybeans	
AZ	723	784	830	875	1,060	1,032	28 Cotton lint, lettuce, hay, cottonseed	
AR	7,132	7,538	7,595	1,391	1,780	1,582	19 Rice, soybeans, cotton lint, wheat	
CA	4,950	5,107	4,891	9,366	9,860	9,470	1 Grapes, tomatoes, cotton lint, hay	
CO	5,634	5,609	5,677	963	1,366	1,255	22 Hay, wheat, potatoes, dry edible beans	
CT	132	124	128	72	93	94	46 Tobacco, mushrooms, hay, apples	
DE	514	504	537	86	128	125	44 Soybeans, corn, wheat	
FL	1,108	1,115	1,137	2,763	3,253	3,151	7 Oranges, tomatoes, sugarcane, potatoes	
GA	3,601	3,754	4,210	1,125	1,305	1,380	21 Peanuts, soybeans, tobacco, corn	
HI	87	86	80	384	393	4174	40 Sugarcane, pineapples, coffee	
ID	4,141	4,018	4,333	1,271	1,684	1,702	18 Potatoes, hay, wheat, barley	
IL	20,335	21,581	22,977	4,815	4,242	5,872	2 Corn, soybeans, wheat, hay	
IN	10,781	11,082	11,631	2,701	2,397	3,052	8 Corn, soybeans, wheat, hay	
IA	20,956	23,092	24,097	4,906	4,632	5,519	3 Corn, soybeans, hay, oats	
KS	19,924	19,191	18,795	2,343	2,774	2,333	10 Wheat, hay, sorghum, corn	
KY	4,975	4,968	5,491	1,207	1,395	1,723	17 Tobacco, hay, corn, soybeans	
LA	3,905	4,308	3,933	1,034	1,251	827	31 Cotton lint, soybeans, sugarcane, rice	
ME	356	346	364	143	212	206	39 Potatoes, hay, apples, oats	
MD	1,493	1,493	1,603	270	356	353	36 Corn, soybeans, hay, wheat	
MA	158	143	136	138	169	166	42 Cranberries, hay, sweet corn, tobacco	
MI	6,124	6,401	6,390	1,442	1,575	1,723	16 Corn, hay, soybeans, apples	
MN	17,397	18,767	18,661	3,674	3,134	3,819	4 Corn, soybeans, hay, wheat	
MS	5,020	5,149	4,613	1,093	1,204	1,034	27 Cotton lint, soybeans, rice, hay	
MO	12,436	12,684	13,249	2,035	2,138	2,261	11 Soybeans, corn, hay, wheat	
MT	9,242	7,118	9,475	851	640	1,047	25 Wheat, hay, barley, sugarbeets	
NE	15,932	16,765	17,641	2,881	3,661	3,309	6 Corn, hay, soybeans, wheat	
NV	558	549	554	121	149	167	41 Hay, potatoes, wheat, barley	
NH	102	99	93	26	30	26	48 Hay, apples	
NJ	381	368	380	172	167	162	43 Peaches, tomatoes, hay, soybeans	
NM	953	936	926	304	338	385	35 Hay, onions, potatoes, sorghum	
NY	3,628	3,439	3,560	880	873	876	30 Hay, apples, onions, corn	
NC	4,155	4,104	4,526	1,484	1,851	1,858	14 Tobacco, soybeans, corn, peanuts	
ND	19,415	16,216	20,660	1,926	1,301	1,751	15 Wheat, hay, barley, sugarbeets	
OH	9,698	9,731	10,259	2,227	2,162	2,480	9 Corn, soybeans, hay, wheat	
OK	8,353	8,482	9,380	854	1,203	1,196	24 Wheat, hay, peanuts, cotton lint	
OR	2,257	2,168	2,339	855	1,011	1,040	26 Hay, wheat, pears, onions	
PA	4,257	4,199	4,199	1,123	1,114	1,240	23 Hay, corn, mushrooms, apples	
RI	13	11	10	5	6	5	49 Potatoes, hay, apples	
SC	1,925	2,022	2,283	494	603	624	33 Tobacco, soybeans, corn, wheat	
SD	14,601	13,508	15,294	1,408	1,158	1,456	20 Corn, hay, soybeans, wheat	
TN	4,463	4,548	4,564	840	953	917	29 Soybeans, hay, tobacco, cotton lint	
TX	16,267	16,527	16,644	3,440	3,655	3,385	5 Cotton lint, hay, corn, sorghum	
UT	1,080	1,026	983	239	260	247	37 Hay, barley, wheat	
VT	465	453	442	72	72	76	47 Hay, apples	
VA	2,732	2,708	2,767	576	741	803	32 Hay, tobacco, corn, soybeans	
WA	3,902	3,890	4,045	1,641	2,199	2,239	12 Apples, wheat, potatoes, hay	
WV	657	644	664	81	97	114	45 Hay, apples, corn, tobacco	
WI	8,351	8,430	8,614	1,608	1,325	1,906	13 Corn, hay, potatoes	
WY	1,796	1,674	1,628	223	284	231	38 Hay, sugarbeets, dry edible beans, barley	

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. 1156. Principal Crops—Production, Supply, and Disappearance: 1985 to 1990

[Marketing year beginning May 1 for hay, June 1 for wheat, 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 supply ³	DISAPPEAR-ANCE		Ending stocks
	Set aside ¹	Plant-ed	Har-vested						Total ⁴	Ex-ports	
Corn for grain:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1985	14.3	76.7	68.9	119.4	8,226	1.50	12,541	12,267	7,385	1,492	4,882
1987	23.1	65.2	59.5	119.8	7,131	1.94	14,108	12,016	7,757	1,716	4,259
1988	20.5	67.7	58.3	84.6	4,929	2.54	12,661	9,191	7,260	2,028	1,930
1989	10.8	72.3	64.8	116.2	7,525	2.25	17,020	9,458	8,113	2,367	1,344
1990	10.1	74.2	67.0	118.5	7,933	(NA)	(NA)	9,280	7,880	1,700	1,400
Hay:				Sh. tons	Mil. sh. tons	\$/ton			Mil. sh. tons		
1985	-	(NA)	60.4	2.46	149	⁵ \$67.50	9,437	175.5	148.8	(NA)	26.7
1986	-	(NA)	62.4	2.49	156	⁵ \$69.70	8,611	182.2	149.9	(NA)	32.3
1987	-	(NA)	60.1	2.45	148	⁵ \$69.70	8,845	179.8	152.7	(NA)	27.1
1988	-	(NA)	65.1	1.94	126	⁵ \$65.20	10,457	153.1	135.6	(NA)	17.5
1989	-	(NA)	63.4	2.29	145	⁵ \$69.50	11,778	162.9	140.0	(NA)	22.9
Soybeans:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1985	-	60.4	58.3	33.3	1,940	4.78	9,263	2,476	2,040	757	436
1987	-	58.2	57.2	33.9	1,938	5.88	11,391	2,374	2,072	802	302
1988	-	58.8	57.4	27.0	1,549	7.42	11,488	1,855	1,673	527	182
1989	-	60.8	59.5	32.3	1,924	5.55	10,622	2,109	1,870	623	239
1990	-	57.8	56.5	34.0	1,922	5.75	(NA)	2,163	1,808	540	355
Wheat:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1985	21.0	72.1	60.7	34.4	2,091	2.42	5,044	4,017	2,198	999	1,821
1987	23.9	65.8	56.0	37.7	2,108	2.57	5,498	3,945	2,684	1,598	1,261
1988	22.5	65.5	53.2	34.1	1,812	3.72	6,684	3,096	2,394	1,419	702
1989	9.6	76.6	62.1	32.7	2,037	3.82	7,742	2,762	2,225	1,293	536
1990	7.1	77.3	69.4	39.5	2,739	2.61	(NA)	3,310	2,454	1,075	856
Cotton:				Lb.	bales ⁷	cents/lb.			Mil. bales ⁷		
1985	4.2	10.0	8.5	552	⁸ 9.7	52.4	2,449	19.1	14.1	6.7	⁹ 5.0
1987	3.9	10.4	10.0	706	⁸ 14.8	84.3	4,555	19.8	14.2	6.6	⁹ 5.8
1988	2.2	12.5	12.0	619	⁸ 15.4	56.6	4,190	21.2	13.9	6.2	⁹ 7.1
1989	3.5	10.6	9.5	614	⁸ 12.2	67.3	3,953	19.3	16.4	7.7	⁹ 3.0
1990	1.9	12.4	11.7	640	⁸ 15.5	67.8	(NA)	18.5	16.3	7.9	⁹ 2.3
Potatoes:				Cwt.	cwt.	\$/cwt.			Mil. cwt.		
1985	(NA)	1.4	1.3	299	407	3.92	1,568	583	¹⁰ 293	¹¹ 7	(NA)
1986	(NA)	1.2	1.2	296	362	5.03	1,808	567	¹⁰ 309	¹¹ 10	(NA)
1987	(NA)	1.3	1.3	301	389	4.38	1,682	574	¹⁰ 307	¹¹ 11	(NA)
1988	(NA)	1.3	1.2	283	356	6.02	2,144	559	¹⁰ 303	¹¹ 14	(NA)
1989	(NA)	1.3	1.3	289	370	6.85	2,524	554	¹⁰ 314	¹¹ 15	(NA)
Tobacco: ¹²				Lb.	Mil. lb.	\$/lb.			Mil. lb.		
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	1,189	⁶ 1.57	1,870	4,597	1,688	573	2,909
1988	(NA)	(NA)	6	2,180	1,370	⁶ 1.65	2,254	4,279	1,566	555	2,713
1989	(NA)	(NA)	7	2,016	1,370	⁶ 1.71	2,340	4,083	1,605	558	2,478
Sorghum for grain:				Bu.	Mil. bu.	\$/bu.			Mil. bu.		
1985	3.0	15.3	13.9	67.7	938	1.37	1,322	1,489	746	198	743
1987	4.1	11.8	10.5	69.4	731	1.70	1,179	1,474	811	231	663
1988	3.9	10.3	9.0	63.8	577	2.27	1,337	1,239	800	310	440
1989	3.3	12.6	11.2	55.4	615	2.05	1,280	1,055	835	304	220
1990	3.0	10.7	9.1	62.9	571	(NA)	(NA)	791	673	210	118
Rice, rough:				Lb.	Mil. cwt.	\$/cwt.			Mil. cwt.		
1985	1.5	2.4	2.4	5,651	133	3.75	499	213	162	84	51
1987	1.6	2.4	2.3	5,555	130	7.27	945	184	153	72	31
1988	1.1	2.9	2.9	5,514	160	6.83	1,092	195	168	86	27
1989	1.2	2.7	2.7	5,749	155	7.10	1,097	185	159	77	26
1990	1.0	2.9	2.8	5,507	155	(NA)	(NA)	186	162	73	24

- 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 Covers potatoes used for table use, frozen and canned products, chips, and dehydration. ¹¹ Covers fresh potatoes and frozen and dehydrated products. ¹² Flue-cured and cigar wrapper, crop year July-June; all other types October-September. Farm-sales-weight basis.

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. 1157. Price Support Operations—Selected Commodities: 1985 to 1989

[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: ⁷				
1985	3.03	2.55	3,158	36	1985	81.0	57.3	1,000 bales ⁸	
1986	3.03	1.92	4,894	59	1986	81.0	55.0	7,291	54
1987	3.03	1.82	4,186	59	1987	79.4	52.3	6,170	63
1988	2.93	1.77	756	15	1988	75.9	51.8	5,362	36
1989	2.84	1.65	5925	12	1989	73.4	50.0	11,231	74
Soybeans: ³					Sorghum: ³			5,732	32
1985	(X)	5.02	518	25	1985	5.14	4.32	201	32
1986	(X)	4.77	327	17	1986	5.14	3.25	222	42
1987	(X)	4.77	275	14	1987	5.14	3.11	201	49
1988	(X)	4.77	120	8	1988	4.96	3.00	23	7
1989	(X)	4.53	5210	11	1989	4.82	2.80	512	4
Wheat: ⁸					Rice:				
1985	4.38	3.30	842	35	1985	11.90	8.00	75	56
1986	4.38	2.40	514	25	1986	11.90	7.20	132	99
1987	4.38	2.28	472	22	1987	11.66	6.84	126	97
1988	4.23	2.21	106	6	1988	11.15	6.63	148	93
1989	4.10	2.06	5113	6	1989	10.80	6.50	5121	78

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. 1158. Corn—Acreage, Production, and Value, by State: 1987 to 1989

[See also *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.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. ³	59,505	58,250	54,781	119.8	84.8	116.2	7,131	4,929	7,527	1.94	2.54	2.25	14,108	12,661	17,020
CA	221	187	170	160.0	145.0	160.0	35	27	27	2.41	3.16	3.55	85	86	97
CO	690	800	930	155.0	160.0	145.0	107	128	135	1.95	2.54	2.20	209	325	297
DE	148	140	133	75.0	70.0	100.0	11	10	13	2.10	3.01	2.55	23	29	34
GA	610	500	550	84.0	62.0	95.0	51	31	52	2.25	3.02	2.55	115	94	133
IL	9,200	9,600	10,750	132.0	73.0	123.0	1,214	701	1,322	1.96	2.59	2.30	2,380	1,815	3,041
IN	4,880	5,000	5,200	135.0	83.0	133.0	659	415	692	2.08	2.65	2.30	1,370	1,100	1,591
IA	10,150	10,700	12,250	130.0	84.0	118.0	1,320	899	1,446	1.89	2.45	2.15	2,494	2,202	3,108
KS	1,230	1,150	1,240	120.0	125.0	125.0	148	144	155	1.84	2.60	2.25	272	374	349
KY	1,140	1,100	1,180	104.0	73.0	116.0	119	80	137	2.02	2.76	2.45	239	222	335
LA	211	125	132	102.0	95.0	95.0	22	12	13	1.90	2.80	2.55	41	33	32
MD	460	420	400	78.0	65.0	110.0	36	27	44	2.15	3.02	2.60	77	82	114
MI	1,980	1,600	1,970	97.0	70.0	113.0	192	112	223	1.97	2.53	2.20	378	263	490
MN	4,800	4,700	5,600	127.0	74.0	125.0	610	348	700	1.98	2.40	2.10	1,207	835	1,470
MS	150	150	140	80.0	60.0	70.0	12	9	10	2.30	3.10	2.60	28	28	25
MO	2,150	2,020	2,290	113.0	76.0	96.0	243	154	220	1.82	2.63	2.25	442	404	495
NE	6,200	6,600	7,100	131.0	124.0	120.0	812	818	852	1.96	2.48	2.20	1,592	2,030	1,874
NM	49	55	63	155.0	155.0	155.0	8	9	10	2.04	2.91	2.45	15	25	24
NY	600	540	570	109.0	85.0	93.0	65	46	53	2.20	2.83	2.60	144	130	138
NC	1,100	970	950	88.0	84.0	93.0	75	81	88	2.15	2.91	2.60	161	237	230
ND	500	380	465	93.0	58.0	75.0	47	22	35	1.91	2.40	2.15	89	53	75
OH	3,100	3,000	2,900	120.0	85.0	118.0	372	255	342	1.95	2.61	2.35	725	666	804
PA	1,090	910	960	93.0	65.0	103.0	101	59	99	2.47	3.10	2.75	250	183	272
SC	375	335	340	78.0	58.0	91.0	29	19	31	2.10	2.95	2.40	61	57	74
SD	2,650	2,400	2,650	83.0	55.0	72.0	220	132	191	1.92	2.38	2.05	422	314	391
TN	580	530	530	91.0	73.0	107.0	53	39	57	1.95	2.75	2.40	103	106	136
TX	1,250	1,350	1,400	107.0	96.0	106.0	134	130	148	2.17	2.71	2.65	290	351	393
VA	325	295	365	63.0	79.0	110.0	20	23	40	2.05	2.90	2.50	42	68	100
WA	80	80	90	170.0	175.0	175.0	14	14	16	2.15	3.00	2.85	29	41	45
WI	2,800	1,950	2,800	118.0	67.0	111.0	330	131	311	2.01	2.55	2.20	664	333	684

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. 1159. Soybeans for Beans—Acreage, Production, and Value, by State: 1987 to 1989[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.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. ² . . .	57,172	57,383	59,388	33.9	27.0	32.4	1,938	1,549	1,927	5.88	7.42	5.55	11,391	11,488	10,622
AR.	3,250	3,200	3,200	23.0	26.0	24.0	75	83	77	5.92	7.55	5.60	443	628	430
GA.	780	900	1,100	21.0	25.0	26.0	16	23	29	5.61	7.30	5.55	92	164	159
IL.	8,700	8,700	8,850	38.0	27.0	40.0	331	235	354	6.00	7.45	5.55	1,984	1,750	1,965
IN.	4,350	4,200	4,550	40.0	27.5	37.0	174	116	168	5.94	7.55	5.70	1,034	872	960
IA.	7,900	8,100	8,280	43.5	31.0	39.0	344	251	323	5.97	7.33	5.45	2,052	1,841	1,760
KS.	2,110	2,000	1,850	32.0	23.0	27.0	68	46	50	5.49	7.26	5.30	371	334	265
KY.	1,030	910	1,170	26.5	26.5	31.5	27	24	37	5.93	7.66	5.75	162	185	212
LA.	1,650	1,950	1,600	25.0	29.0	21.0	41	57	34	5.59	7.51	5.90	231	425	198
MI.	1,090	1,210	1,080	36.0	29.0	36.0	39	35	39	5.62	7.28	5.50	221	255	214
MN.	4,650	4,800	5,000	39.0	26.0	37.0	181	125	185	6.10	7.30	5.35	1,106	911	990
MS.	2,450	2,250	2,000	19.5	22.0	20.0	48	50	40	5.84	7.47	5.80	279	370	232
MO.	4,930	4,230	4,350	32.0	26.5	28.5	158	112	124	5.70	7.45	5.45	899	835	676
NE.	2,350	2,360	2,560	35.5	30.0	32.0	83	71	82	5.82	7.31	5.30	486	518	434
NC.	1,340	1,310	1,550	24.5	27.0	27.0	33	35	42	5.79	7.46	5.55	190	264	232
OH.	3,900	3,700	3,980	37.0	27.0	32.0	144	100	127	5.94	7.54	5.60	857	753	713
SC.	730	790	960	22.0	23.5	21.0	16	19	20	5.89	7.43	5.65	95	138	114
SD.	1,390	1,730	1,880	32.5	24.0	26.0	45	42	49	5.37	7.21	5.25	243	299	257
TN.	1,250	1,230	1,240	23.0	26.0	24.0	29	32	30	5.61	7.64	5.80	161	244	173
VA.	490	515	540	22.0	28.0	32.0	11	14	17	6.05	7.40	5.85	65	107	98

¹ See footnote 2, table 1158. ² Includes other States not shown separately.**No. 1160. Wheat—Acreage, Production, and Value, by State: 1987 to 1989**[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 (bu.) ¹			PRODUCTION (mil. bu.) ¹			PRICE ² (dol. per bu.)			FARM VALUE (mil. dol.)		
	1987	1988	1989, prel.	1987	1988	1989, prel.	1987	1988	1989, prel.	1987	1988	1989, prel.	1987	1988	1989, prel.
U.S. ³ . . .	55,945	53,189	52,149	37.7	34.1	32.8	2,108	1,812	2,036	2.57	3.72	3.82	5,498	6,684	7,742
CO.	2,555	2,352	2,270	38.1	33.8	27.4	97	80	62	2.51	3.69	3.83	245	293	238
ID.	1,140	1,150	1,370	75.0	65.7	66.7	86	76	91	2.59	4.01	3.89	221	303	355
IL.	950	1,250	1,780	59.0	54.0	59.0	56	68	105	2.51	3.50	3.90	141	236	410
KS.	9,900	9,500	8,900	37.0	34.0	24.0	366	323	214	2.43	3.58	3.85	890	1,156	822
MO.	770	1,550	1,850	46.0	49.0	47.0	35	76	87	2.53	3.45	3.75	90	262	326
MT.	4,690	3,830	5,235	32.2	15.7	27.7	151	60	145	2.74	3.98	3.79	414	239	550
NE.	1,950	2,000	2,050	44.0	36.0	27.0	86	72	55	2.45	3.66	3.90	210	264	216
ND.	9,135	7,230	10,330	29.5	14.3	23.5	269	103	242	2.95	4.02	3.53	794	416	856
OK.	4,800	4,800	5,700	27.0	36.0	27.0	130	173	154	2.46	3.57	3.85	319	617	593
TX.	3,600	3,200	3,000	28.0	28.0	20.0	101	90	60	2.36	3.39	3.80	238	304	228
WA.	2,015	2,060	2,270	56.7	60.5	48.7	114	125	111	2.82	4.19	4.30	322	522	476

¹ 60 pounds per bushel. ² See footnote 2, table 1158. ³ Includes other States not shown separately.**No. 1161. Cotton—Acreage, Production, and Value, by State: 1987 to 1989**[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.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. ³ . . .	10,030	11,948	9,538	706	619	614	14,760	15,412	12,196	64.3	56.6	67.3	4,555	4,190	3,953
AL.	333	375	322	572	486	571	397	380	383	64.8	53.3	63.2	123	97	116
AZ.	380	477	484	1,342	1,113	1,118	1,062	1,106	1,126	73.4	70.4	78.5	374	374	424
AR.	550	675	595	736	742	687	901	1,044	851	65.5	54.4	62.7	275	273	256
CA.	1,141	1,337	1,058	1,258	1,015	1,226	2,891	2,827	2,701	69.6	64.8	70.8	1,000	879	918
GA.	245	315	260	682	564	631	338	370	342	61.8	55.2	64.8	100	98	106
LA.	600	645	620	781	705	672	977	948	868	63.2	54.5	63.6	296	248	265
MS.	1,010	1,190	1,021	829	736	731	1,745	1,825	1,556	63.6	53.7	61.3	533	470	458
MO.	199	242	209	796	607	618	330	306	269	66.0	53.5	64.7	105	79	84
OK.	385	435	340	431	334	244	346	303	173	58.4	46.8	57.0	97	68	47
TN.	435	530	460	699	529	497	634	584	476	63.0	53.9	62.6	192	151	143
TX.	4,431	5,342	3,828	507	475	376	4,686	5,282	2,999	60.1	52.4	60.8	1,351	1,329	875

¹ Bales of 480 lb. net weight. ² See footnote 2, table 1158. ³ Includes other States not shown separately.Source of tables 1159-1161: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual.

No. 1162. Tobacco—Acreage, Production, and Value, by State: 1987 to 1989[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.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
Total ²	586	634	680	2,028	2,160	2,016	1,189	1,370	1,370	1.57	1.65	1.71	1,670	2,254	2,340
FL	6	6	7	2,465	2,680	2,650	14	17	18	1.64	1.65	1.68	23	28	30
GA	32	38	40	2,255	2,260	2,180	72	86	87	1.63	1.63	1.67	118	140	146
KY	148	158	178	2,056	2,247	2,059	305	355	367	1.56	1.64	1.68	476	581	617
MD	12	9	9	1,140	1,330	1,250	13	12	11	1.25	1.61	1.70	17	19	18
NC	225	250	267	2,075	2,211	2,029	467	553	541	1.58	1.61	1.68	737	890	906
OH	7	8	9	1,639	1,854	1,750	12	14	16	1.54	1.60	1.67	19	23	27
PA	10	10	10	1,880	1,913	1,887	19	18	18	0.78	1.14	1.38	15	21	25
SC	42	45	48	2,240	2,225	2,160	94	100	104	1.61	1.61	1.66	151	162	172
TN	49	49	46	1,766	1,920	1,754	87	93	80	1.55	1.71	1.73	135	159	138
VA	39	47	50	1,951	1,973	1,892	77	92	94	1.52	1.59	1.68	117	147	157

¹ See footnote 6, table 1156. ² Includes other States not shown separately.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual.**No. 1163. Sugar Beets and Sugarcane, and Sugar—Summary: 1985 to 1989**[Data are for crop year. See also *Historical Statistics, Colonial Times to 1970*, series K 542-546]

ITEM	Unit	SUGAR BEETS			SUGARCANE FOR SUGAR AND SEED			YEAR	SUGAR PRODUCTION (1,000 tons)	
		1985	1988	1989	1985	1988	1989		Raw value ¹	Refined basis ²
Acreage harvested	1,000 acres	1,103	1,301	1,295	770	845	852	Beet: 1985.	3,000	2,804
Yield per acre	Sh. tons	20.4	19.1	19.4	36.6	35.4	34.5	1988.	3,507	3,278
Production	Mil. tons	22.5	24.8	25.1	28.2	29.9	29.4	1989.	3,486	3,258
Price per ton	Dollars	33.80	41.20	(NA)	⁴ 26.70	⁴ 29.40	(NA)	Cane: 1985	3,033	2,835
Farm value	Mil. dol	761	1,022	(NA)	⁵ 752	⁵ 878	(NA)	1988.	3,398	3,176
								1989.	3,133	2,929

NA Not available. ¹ Raw value equals 96 degree sugar as defined in Sugar Act of 1948. ² Calculated on the basis of 100 lbs. of raw sugar required to produce 93.46 lbs. of refined sugar. ³ Season average prices received by farmers. Prices exclude Government payments under Sugar Act. ⁴ Price per ton for sugar. ⁵ Price per ton of cane for sugar used in evaluating value of production for seed.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Field Crops* (Statistical Bulletin 793); *Crop Production*, June issue and annual; and *Crop Values*, annual.

No. 1164. Spices—Imports, by Type of Spice: 1970 to 1989

[In thousands of pounds. Data shown are annual averages. The United States produces only three major spices - capsicum (red pepper), paprika, and mustard - in any profitable degree. Unground or unprocessed spices enter duty-free. Most spices imported into the U.S. are unground or unprocessed]

SPICE	1970-74	1975-79	1980-84	1985-89	SPICE	1970-74	1975-79	1980-84	1985-89
Total ¹	254,404	298,059	350,971	405,604	Ginger root	6,470	7,842	9,477	11,400
Anise seed	571	988	1,407	2,156	Mace	576	553	644	586
Capsicum	13,743	10,201	13,879	23,812	Mustard seed	70,891	72,702	79,521	93,252
Caraway seed	5,910	6,458	7,511	7,741	Nutmeg	4,167	4,442	4,767	4,213
Cassia	8,915	15,530	20,513	20,971	Paprika	15,282	12,362	10,506	13,059
Celery seed	3,111	4,244	4,661	4,632	Pepper, black and white	54,515	58,976	72,326	79,376
Cinnamon	5,251	3,057	2,870	8,460	Pimento	1,391	1,458	1,650	1,938
Cloves	2,679	2,484	2,084	2,499	Poppy seed	4,721	9,205	7,171	8,619
Coriander seed	3,420	6,796	10,387	7,729	Sage	2,958	2,887	3,675	4,392
Cumin seed	6,207	8,121	8,808	9,167	Sesame seed	37,050	62,326	80,373	77,887
Fennel seed	1,261	1,927	3,400	4,790	Turmeric	3,321	3,202	3,706	4,359
					Vanilla beans	2,194	2,298	1,625	2,421

¹ The United States also imports limited amounts of other spices which are not included in the total.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, annual, and unpublished data from U.S. Bureau of the Census, IM 146 microfiche, December 1989.

No. 1165. Fruits and Planted Nuts—Bearing Areas, by Type: 1980 to 1989

[In thousands of acres]

TYPE	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	3,556	3,537	3,552	3,581	3,569	3,498	3,445	3,458	3,486	3,481
Citrus fruit ¹	1,143	1,130	1,116	1,084	1,003	894	819	826	835	843
Major deciduous fruits	1,608	1,599	1,659	1,694	1,738	1,735	1,743	1,739	1,749	1,748
Miscellaneous noncitrus ³	242	249	199	205	205	211	214	217	216	210
Planted nuts ⁴	563	559	578	599	624	657	689	675	686	680

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. 1166. Fruits and Nuts—Utilized Production and Value, 1987 to 1989, and Leading Producing States, 1989

FRUIT OR NUT	UTILIZED PRODUCTION ¹				FARM VALUE (mil. dol.)			Leading States in order of production, 1989
	Unit	1987	1988	1989	1987	1988	1989	
Apples (35 States) ²	Mil. lb	10,451	9,081	9,920	903	1,150	1,007	WA, NY, MI.
Apricots	1,000 tons	106	94	113	37	34	38	CA, WA, UT.
Avocados	1,000 tons	209	192	134	214	220	212	CA, FL.
Bananas	Mil. lb	11	13	12	3	4	4	HI.
Cherries, sweet	1,000 tons	213	185	192	159	145	137	WA, OR, CA.
Cherries, tart	Mil. lb	286	234	244	22	44	32	MI, NY, UT.
Cranberries	1,000 bbl. ³	3,391	4,080	3,836	151	186	175	MA, WI, NJ.
Dates	1,000 tons	19	22	22	17	20	22	CA.
Figs (fresh)	1,000 tons	52	56	48	17	19	17	CA.
Grapefruit (4 States)	Mil. boxes ⁴	63	69	70	414	479	424	FL, CA, TX.
Grapes (13 States)	1,000 tons	5,254	6,032	5,930	1,359	1,603	1,832	CA, WA, NY.
Kiwifruit	1,000 tons	27	30	37	19	22	15	CA.
Lemons (2 States)	Mil. boxes ⁵	29	21	20	182	202	224	CA, AZ.
Limes (FL)	Mil. boxes ⁶	1	1	1	19	23	21	FL.
Nectarines	1,000 tons	191	200	200	66	79	79	CA.
Olives	1,000 tons	68	88	123	41	45	63	CA.
Oranges and tangerines (4 States)	Mil. boxes ⁷	186	205	215	1,392	1,854	1,890	FL, CA, TX.
Papayas	Mil. lb	67	69	74	11	12	14	HI.
Peaches (32 States)	Mil. lb	2,239	2,449	2,210	309	382	360	CA, SC, GA.
Pears	1,000 tons	936	860	917	185	235	252	WA, CA, OR.
Pineapples	1,000 tons	692	659	580	99	107	95	HI.
Plums and prunes (fresh)	1,000 tons	973	734	1,010	250	230	279	CA, WA, MI.
Pomegranates	1,000 tons	17	18	18	6	6	5	CA.
Tangelos (FL)	Mil. boxes ⁸	4	4	4	25	33	31	FL.
Templets (FL)	Mil. boxes ⁸	3	4	4	21	28	25	FL.
Almonds (shelled basis)	Mil. lb	519	452	395	648	600	495	CA.
Filberts (in the shell)	1,000 tons	22	17	13	21	14	11	OR, WA.
Macadamia nuts	Mil. lb	43	46	51	36	41	45	HI.
Pecans (in the shell) (11 States)	Mil. lb	262	308	251	139	167	179	GA, TX, NM.
Pistachios	Mil. lb	33	94	39	45	115	61	CA.
Walnuts, English (in the shell)	1,000 tons	247	209	229	243	193	223	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. 1167. Commercial Vegetable and Other Specified Crops—Area, Production, and Value, 1987 to 1989, and Leading Producing States, 1989

[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, 1989
	1987	1988	1989	1987	1988	1989	1987	1988	1989	
Asparagus	99.8	100.9	98.5	117	121	125	136	152	150	CA, WA, MI.
Beans, snap ⁴	224.0	217.7	249.0	686	588	870	110	99	151	WI, OR, IL.
Beans, dry edible	1,665.4	1,353.0	1,689.9	1,302	963	1,217	428	575	680	MI, NE, ID.
Broccoli	121.7	114.4	116.8	576	640	676	240	292	276	CA, AZ, TX.
Carrots	99.6	97.6	103.6	1,436	1,370	1,547	248	293	317	CA, WA, TX.
Cauliflower	66.1	62.8	67.7	369	394	392	188	202	203	CA, AZ, OR.
Celery	33.9	34.0	35.3	892	971	1,014	199	231	268	CA, FL, MI.
Corn, sweet	625.2	625.3	641.1	3,650	3,136	3,751	372	359	468	WI, MN, WA.
Cucumbers	109.6	118.9	124.2	636	652	643	114	130	131	MI, NC, TX.
Honeydew melons	28.6	31.2	29.9	241	262	256	69.3	75.3	62.1	CA, TX, AZ.
Lettuce	224.9	239.8	242.6	3,394	3,525	3,759	1,003	1,040	950	CA, AZ, FL.
Peppermint	67.0	80.5	100.8	4.5	5.4	6.7	52.4	85.3	86.4	OR, WA, ID.
Spearmint	24.0	22.6	26.4	2.1	1.7	1.8	25.0	22.4	25.6	WA, WI, IN.
Mushrooms ⁵	129.7	130.5	132.3	307	316	334	532	544	595	PA, CA, MI.
Onions	123.7	129.0	132.6	2,256	2,337	2,395	505	414	502	CA, CO, TX.
Peas, green ⁴	290.3	283.9	316.5	440	313	505	99	73	120	WI, MN, WA.
Potatoes	1,293.4	1,259.3	1,281.6	1,947	1,782	1,852	1,683	2,144	2,524	ID, WA, WI.
Strawberries	46.1	47.2	45.6	559	590	555	552	544	520	CA, FL, OR.
Sweet potatoes	88.9	85.5	85.7	581	547	575	134	141	185	NC, LA, CA.
Tomatoes	387.0	414.6	462.1	9,228	9,203	11,280	1,290	1,415	1,824	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. 1168. Red Meats—Slaughtering, Supply, and Use: 1980 to 1990

[Quantities in millions of pounds (carcass weight equivalent), except as noted. Carcass weight equivalent is the weight of the animal minus entrails, head, and hide; includes internal organs, fat, and bone. Covers inspected, noninspected, retail, and farm slaughter. See also *Historical Statistics, Colonial Times to 1970*, series K 583-594]

YEAR AND TYPE OF MEAT	Animals slaughtered (mil. head)	Production	Imports	Supply, total	Consumption	Exports	Ending stocks
All red meats:							
1980	139.7	38,978	2,668	42,488	41,174	430	884
1985	131.3	39,409	3,255	43,505	42,311	461	733
1987	125.1	38,684	3,532	42,895	41,420	721	758
1988	131.0	40,004	3,594	44,356	42,599	887	870
1989	130.5	39,602	3,138	43,610	41,663	1,287	660
1990	130.9	38,787	3,313	42,760	40,805	1,248	707
Beef:							
1980	34.1	21,643	2,064	24,166	23,561	173	432
1985	36.6	23,728	2,071	26,271	25,523	328	420
1987	35.9	23,566	2,269	26,247	25,257	604	366
1988	35.3	23,589	2,380	26,355	25,252	681	422
1989	34.1	23,087	2,179	25,688	24,330	1,023	335
1990	33.8	22,743	2,356	25,434	24,031	1,006	397
Pork:							
1980	97.2	16,617	550	17,529	16,844	252	433
1985	84.9	14,807	1,128	16,282	15,866	128	288
1987	81.4	14,373	1,195	15,821	15,352	109	360
1988	88.1	15,684	1,136	17,160	16,548	195	437
1989	89.0	15,813	896	17,146	16,571	262	313
1990	89.4	15,354	898	16,565	16,030	239	296
Veal:							
1980	2.7	400	21	431	418	4	9
1985	3.5	515	20	549	534	5	11
1987	2.9	429	24	450	449	7	4
1988	2.6	396	27	427	412	10	5
1989	2.2	355	(NA)	360	356	(NA)	4
1990	2.0	327	(NA)	331	325	(NA)	6
Lamb and mutton:							
1980	5.7	318	33	362	351	2	9
1985	6.3	358	36	401	387	1	13
1987	5.2	315	44	372	363	1	8
1988	5.4	335	51	394	387	1	6
1989	5.6	347	63	416	406	2	8
1990	5.7	363	59	430	419	3	8

NA Not available. 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. 1169. Livestock Inventory and Production: 1970 to 1990

[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	1982	1983	1984	1985	1986	1987	1988	1989	1990
ALL CATTLE ¹												
Inventory: ² Number on farms	Mil.	112.4	111.2	115.4	115.0	113.4	109.6	105.4	102.1	99.6	99.2	99.3
Total value	Bil. dol.	20.2	55.6	47.9	46.7	44.8	44.0	41.2	41.6	52.1	60.4	63.6
Value per head	Dol.	179	502	415	406	396	402	391	407	523	607	641
Production: Quantity	Bil. lb.	39.4	40.3	40.7	40.4	40.1	40.1	40.6	40.5	40.6	40.1	(NA)
Beef, price per 100 lb.	Dol.	27.10	62.40	56.70	55.50	57.30	53.70	52.80	61.10	66.60	69.50	(NA)
Calves, price per 100 lb.	Dol.	34.50	76.80	59.80	61.70	59.90	62.10	61.10	78.50	89.20	90.80	(NA)
Value of production	Bil. dol.	10.9	25.5	22.6	22.0	22.1	21.2	21.0	24.8	27.2	27.9	(NA)
HOGS AND PIGS												
Inventory: ³ Number on farms	Mil.	57.0	67.3	58.7	54.5	56.7	54.1	52.3	51.0	54.4	55.5	53.9
Total value	Bil. dol.	2.2	9.8	4.1	4.9	3.3	4.1	3.6	4.7	4.1	3.7	4.3
Value per head	Dol.	39.00	56.00	70.10	89.90	58.80	75.00	69.60	91.90	76.00	66.30	79.10
Production: Quantity	Bil. lb.	21.8	23.4	19.7	21.2	20.2	20.2	19.5	20.4	21.7	21.8	(NA)
Price per 100 lb.	Dol.	22.70	38.00	52.30	46.80	47.10	44.00	49.30	51.20	42.30	42.50	(NA)
Value of production	Bil. dol.	5.0	8.9	10.3	9.9	9.5	8.9	9.6	10.4	9.1	9.3	(NA)
SHEEP AND LAMBS												
Inventory: ² Number on farms	Mil.	20.4	12.7	13.0	12.1	11.6	10.7	10.1	10.6	10.9	10.9	11.4
Total value	Mil. dol.	513	993	742	629	603	654	684	799	985	894	904
Value per head	Dol.	25.10	78.20	57.10	51.80	52.10	61.10	67.40	75.70	90.00	82.40	79.40
Production: Quantity	Mil. lb.	1,099	746	785	769	700	704	726	733	707	778	(NA)
Sheep, price per 100 lb.	Dol.	7.52	21.30	19.50	15.70	16.40	23.90	25.60	29.50	25.60	24.40	(NA)
Lambs, price per 100 lb.	Dol.	26.40	63.60	63.10	53.90	60.10	67.70	69.00	77.60	89.10	66.10	(NA)
Value of production	Mil. dol.	260	403	356	356	378	434	445	503	420	449	(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. 1170. Cattle and Calves—Number, Production, and Value, by State: 1987 to 1990

[Includes milk cows. See headnote, table 1169]

STATE	NUMBER ON FARMS ¹ (1,000)			QUANTITY PRODUCED (mil. lb.)			VALUE OF PRODUCTION (mil. dol.)			COMMERCIAL SLAUGHTER ² (mil. lb.)		
	1988	1989	1990	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. ³	99,622	99,180	99,337	40,502	40,618	40,051	24,766	27,247	27,893	39,387	39,294	38,467
AL.	1,750	1,800	1,780	760	672	635	421	431	433	339	283	297
AZ.	960	880	830	581	532	455	356	352	308	421	454	391
AR.	1,850	1,750	1,750	658	621	642	384	394	438	52	43	39
CA.	4,650	4,700	4,900	1,818	2,111	1,986	1,035	1,314	1,251	1,500	1,408	1,362
CO.	2,800	2,850	2,900	1,683	1,818	1,724	1,110	1,296	1,258	2,326	2,541	2,542
FL.	1,970	1,975	1,925	425	472	412	297	358	336	203	179	171
GA.	1,520	1,500	1,450	394	396	368	229	260	245	224	188	184
ID.	1,600	1,650	1,660	748	824	810	451	525	527	808	899	825
IL.	2,050	1,950	1,950	802	778	760	508	547	578	1,539	1,463	1,389
IN.	1,360	1,290	1,300	431	380	362	247	231	211	187	171	133
IA.	4,450	4,600	4,700	2,120	2,058	2,028	1,308	1,389	1,436	2,437	2,213	2,162
KS.	5,650	5,650	5,700	3,111	2,948	2,988	2,007	2,104	2,191	6,905	7,012	7,001
KY.	2,500	2,500	2,420	729	730	701	433	492	505	112	107	105
LA.	1,125	1,075	1,100	310	348	302	188	242	220	31	34	35
MI.	1,225	1,225	1,225	462	441	437	247	252	262	492	503	514
MN.	2,850	2,820	2,650	1,382	1,291	1,236	807	816	814	1,188	1,309	1,209
MS.	1,350	1,390	1,390	374	384	371	213	249	256	196	120	121
MO.	4,400	4,500	4,500	1,305	1,236	1,241	838	911	958	412	433	390
MT.	2,450	2,450	2,350	884	923	960	557	631	674	24	19	16
NE.	5,700	5,500	5,800	3,540	3,618	3,714	2,275	2,541	2,728	6,296	6,659	6,698
NM.	1,320	1,350	1,380	602	657	669	363	429	441	134	127	123
ND.	1,800	1,600	1,750	749	631	671	497	489	520	90	189	238
OH.	1,820	1,760	1,680	579	575	499	346	370	339	551	472	331
OK.	5,000	5,150	5,300	2,116	2,054	2,047	1,227	1,310	1,379	301	126	82
OR.	1,360	1,390	1,400	488	508	513	289	335	331	62	60	68
PA.	1,890	1,900	1,890	554	586	596	323	369	383	1,204	1,166	1,197
SD.	3,600	3,480	3,380	1,749	1,773	1,823	1,110	1,236	1,298	677	704	751
TN.	2,300	2,300	2,325	744	726	652	408	439	425	242	173	105
TX.	13,600	13,600	13,400	5,546	5,736	5,635	3,453	3,866	3,980	6,452	6,267	6,282
UT.	800	830	800	302	333	334	193	232	234	502	559	576
VA.	1,700	1,670	1,700	682	624	647	387	401	438	93	68	75
WA.	1,290	1,300	1,330	533	610	589	326	401	402	980	1,074	986
WI.	4,230	4,130	4,170	1,355	1,280	1,244	788	798	801	1,551	1,464	1,436
WY.	1,360	1,380	1,220	487	498	486	329	352	348	8	8	7

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. 1171. Hogs and Pigs—Number, Production, and Value, by State: 1987 to 1989

[See headnote, table 1169]

STATE	NUMBER ON FARMS ¹ (1,000)			QUANTITY PRODUCED (mil. lb.)			VALUE OF PRODUCTION (mil. dol.)			COMMERCIAL SLAUGHTER ² (mil. lb.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. ³	54,384	55,469	53,852	20,446	21,670	21,850	10,444	9,145	9,255	20,060	21,838	22,027
CA.	140	130	140	59	41	37	34	20	18	409	485	483
GA.	1,175	1,210	1,200	412	451	440	213	186	187	401	287	354
IL.	5,400	5,600	5,700	2,124	2,471	2,324	1,072	1,026	986	1,489	2,063	2,178
IN.	4,500	4,300	4,350	1,656	1,671	1,647	831	696	688	988	1,037	919
IA.	13,900	14,000	13,500	5,315	5,508	5,544	2,729	2,359	2,379	5,340	6,257	6,421
KS.	1,470	1,500	1,450	575	621	638	284	254	261	483	493	508
KY.	900	1,090	975	345	357	420	183	157	182	637	710	617
MI.	1,350	1,250	1,260	434	455	472	218	188	196	1,070	1,168	1,168
MN.	4,500	4,690	4,450	1,621	1,739	1,807	843	752	789	1,419	1,093	1,228
MS.	230	210	180	81	83	74	42	35	32	429	448	443
MO.	3,000	2,850	2,700	1,130	1,192	1,078	585	510	460	958	990	899
NE.	4,050	4,150	4,200	1,482	1,557	1,657	758	655	707	966	1,165	1,243
NC.	2,580	2,700	2,570	980	1,065	1,179	499	446	493	637	672	698
OH.	2,100	2,210	2,080	795	882	889	400	367	373	708	754	757
PA.	900	970	975	297	287	323	153	124	141	358	392	461
SC.	400	450	430	132	131	162	67	54	67	121	147	156
SD.	1,670	1,810	1,720	668	772	771	349	329	328	955	1,053	998
TN.	820	1,000	700	266	340	366	139	145	148	520	547	556
TX.	580	560	500	217	237	229	109	97	91	226	249	235
VA.	380	400	450	163	163	161	82	67	64	1,108	1,142	1,064
WI.	1,320	1,275	1,250	564	534	496	287	221	206	288	107	134

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 1170 and 1171: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition and Income, annual and Livestock and Meat Statistics, annual.*

No. 1172. Milk Production and Commercial Use: 1980 to 1990*[In billions of pounds milkfat basis]*

YEAR	Pro- duc- tion	Farm use	COMMERCIAL		Imports	Commer- cial supply, total	CCC net remov- als ¹	COMMERCIAL		Milk price per 100 lb. ² (dol.)
			Farm market- ings	Begin- ning stock				End- ing stock	Disap- pear- ance	
1980	128.4	2.3	128.1	5.4	2.1	133.6	8.8	5.7	119.0	13.05
1985	143.0	2.5	140.6	4.9	2.8	148.3	13.2	4.6	130.5	12.75
1986	143.1	2.4	140.7	4.6	2.7	148.1	10.6	4.2	133.3	12.51
1987	142.7	2.3	140.5	4.2	2.5	147.1	6.7	4.6	135.8	12.54
1988	145.2	2.2	142.9	4.6	2.4	149.9	9.4	4.3	136.6	12.24
1989	144.2	2.1	142.2	4.3	2.5	148.9	9.4	4.1	135.4	13.54
1990	148.3	2.1	146.2	4.1	2.7	153.0	9.0	5.1	138.9	13.75

¹ Removals from commercial supply to Commodity Credit Corporation stocks. ² Wholesale price received by farmers for all milk delivered to plants and dealers.

Source: U.S. Dept. of Agriculture, *Agricultural Outlook*, monthly.

No. 1173. Milk Production and Manufactured Dairy Products: 1970 to 1989*[See also Historical Statistics, Colonial Times to 1970, series K 595-601]*

ITEM	Unit	1970	1980	1983	1984	1985	1986	1987	1988	1989
Cows and heifers that have calved, kept for milk, Jan. 1 ¹	Mil. head	13.3	10.8	11.0	11.0	10.8	11.2	10.3	10.3	10.1
Milk produced on farms	Bil. lb.	117	128	140	135	143	143	143	145	144
Production per cow	1,000 lb.	9.8	11.9	12.6	12.5	13.0	13.3	13.8	14.1	14.2
Whole milk sold from farms ²	Bil. lb.	113	126	137	132	141	141	140	143	142
Sales to plants and dealers	Bil. lb.	110	125	136	131	139	140	139	142	141
Value of milk produced	Bil. dol.	6.8	16.9	19.1	18.3	18.4	18.0	18.0	17.9	19.7
Gross farm income, dairy products	Bil. dol.	6.7	16.7	18.9	18.0	18.1	17.8	17.8	17.7	19.5
Cash receipts from marketing of milk and cream ³	Bil. dol.	6.5	16.6	18.7	17.9	18.1	17.7	17.7	17.6	19.4
Sales to plants and dealers	Bil. dol.	6.3	16.3	18.5	17.7	17.8	17.5	17.5	17.4	19.1
Number of dairy manufacturing plants	Number	3,749	2,257	2,120	2,059	2,061	1,998	1,933	1,846	1,750
Manufactured dairy products:										
Butter (incl. whey butter)	Mil. lb.	1,137	1,145	1,299	1,103	1,248	1,202	1,104	1,208	1,074
Cheese, total ⁴	Mil. lb.	2,201	3,984	4,819	4,674	5,081	5,209	5,344	5,572	5,614
American (excl. full-skim American)	Mil. lb.	1,428	2,376	2,928	2,648	2,855	2,798	2,717	2,757	2,673
Cream and Neufchatel	Mil. lb.	126	229	270	276	294	322	342	376	401
All Italian varieties	Mil. lb.	394	983	1,200	1,319	1,491	1,633	1,800	1,937	2,043
Cottage cheese: Creamed ⁵	Mil. lb.	1,038	825	743	736	716	705	675	647	570
Curd, pot, and bakers	Mil. lb.	726	667	618	606	599	600	574	557	526
Condensed bulk milk	Mil. lb.	1,237	952	984	1,159	1,232	1,362	1,383	1,364	1,417
Evaporated and condensed canned milk	Mil. lb.	1,293	725	710	666	656	602	597	612	545
Nonfat dry milk solids ⁶	Mil. lb.	1,456	1,168	1,510	1,168	1,398	1,294	1,057	990	875
Dry whey ⁷	Mil. lb.	621	690	892	898	987	1,031	1,097	1,137	1,069
Ice cream of all kinds	Mil. gal	762	830	882	894	901	924	928	882	831
Ice milk	Mil. gal	287	293	295	300	301	315	330	355	377

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 fullskim. ⁴ Includes partially creamed (low fat). ⁵ Includes dry skim milk for animal feed. ⁶ Includes animal but excludes modified whey production.

No. 1174. Milk Cows—Number, Production, and Value, by State: 1987 to 1989

STATE	NUMBER ON FARMS ¹ (1,000)			MILK PRODUCED ON FARMS (mil. lb.)			VALUE OF PRODUCTION ² (mil. dol.)		
	1987	1988	1989	1987	1988	1989	1987	1988	1989
U.S. ³	10,327	10,262	10,127	142,709	145,152	144,252	18,014	17,921	19,694
CA	1,061	1,083	1,104	17,928	18,607	19,353	2,090	2,078	2,438
FL	177	182	181	2,209	2,350	2,447	345	357	369
ID	159	168	171	2,375	2,628	2,669	273	294	328
IL	212	206	197	2,775	2,805	2,743	350	342	373
IN	177	172	162	2,287	2,234	2,231	290	275	301
IA	302	307	309	3,910	4,040	4,202	473	477	555
KY	213	212	212	2,338	2,327	2,265	302	293	308
MI	361	350	345	5,248	5,228	5,152	663	650	702
MN	809	783	734	10,420	10,413	10,108	1,236	1,215	1,322
MO	232	230	228	2,940	3,000	2,975	365	366	396
NY	822	794	776	11,439	11,444	11,142	1,458	1,446	1,565
OH	350	351	350	4,840	4,785	4,555	617	577	613
PA	721	717	698	10,183	10,204	9,998	1,356	1,359	1,469
TN	198	197	196	2,207	2,213	2,192	297	291	303
TX	342	375	368	4,277	4,874	5,170	590	646	746
VT	180	177	163	2,410	2,389	2,331	318	306	330
WA	216	221	225	3,763	3,966	4,097	475	496	559
WI	1,795	1,760	1,739	24,800	25,000	24,000	3,014	2,993	3,228

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 of tables 1173 and 1174: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Production of Manufactured Dairy Products*, annual; and *Milk Production, Disposition, and Income*, annual.

No. 1175. Poultry—Number on Farms, Value, Production, and Prices: 1970 to 1989[For year ending November 30, except as noted. See also *Historical Statistics, Colonial Times to 1970*, series K 609-623]

ITEM	Unit	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Chickens: ¹ Number ²	Million	433	392	385	379	365	374	370	373	380	356	356
Value per head ²	Dollars	1.21	1.88	1.89	1.85	1.96	2.02	1.90	1.87	1.87	2.04	2.18
Value, total ²	Mil. dol.	525	737	728	703	717	757	704	698	711	726	770
Number sold ³	Million	264	241	242	246	232	225	220	218	218	224	199
Price per lb. ³	Cents	9.1	11.0	11.1	10.3	12.7	15.9	14.8	12.5	11.0	9.2	14.9
Value of sales ³	Mil. dol.	107	129	135	121	145	170	152	128	112	95	140
Broilers: ⁴ Number produced	Million	2,987	3,963	4,148	4,149	4,184	4,283	4,470	4,649	5,004	5,238	5,518
Price per lb.	Cents	13.6	27.7	28.4	26.9	28.6	33.7	30.1	34.5	28.7	33.1	36.6
Production value	Mil. dol.	1,475	4,303	4,699	4,502	4,873	6,020	5,668	6,784	6,177	7,435	8,780
Turkeys: Number produced	Million	116	165	171	165	171	171	185	207	240	242	260
Price per lb.	Cents	22.6	41.3	38.2	39.5	38.0	48.9	49.1	47.0	34.8	38.6	41.1
Gross income	Mil. dol.	498	1,272	1,248	1,255	1,269	1,655	1,820	1,951	1,703	1,951	2,239

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 *Chickens and Eggs*.**No. 1176. Poultry—Production, by State: 1987 to 1989**[In millions. See *Historical Statistics, Colonial Times to 1970*, series K 614 and 621 for U.S. totals]

STATE	BROILERS			TURKEYS			STATE	BROILERS			TURKEYS		
	1987	1988	1989	1987	1988	1989		1987	1988	1989	1987	1988	1989
U.S. ¹	5,004	5,238	5,518	240	242	260	MS.	343.4	361.0	387.3	(Z)	(Z)	(Z)
AL	666.5	702.8	750.1	(Z)	(Z)	(Z)	MO	50.4	54.5	70.1	15.5	16.5	17.3
AR	878.6	896.8	920.5	18.0	18.0	19.8	NY	2.1	2.5	3.3	0.4	0.3	0.4
CA	196.1	212.2	222.4	25.5	26.5	29.0	NC	477.7	500.1	523.0	48.4	47.9	52.2
DE	209.8	217.5	226.4	(Z)	(Z)	(Z)	OH	14.0	14.5	16.0	3.4	3.6	4.1
FL	117.0	123.2	123.6	(Z)	(Z)	(Z)	OK	90.6	120.9	135.1	(D)	(D)	(D)
GA	733.4	772.8	812.0	2.4	2.4	1.9	OR	18.0	17.3	20.0	1.8	1.8	2.4
IL	(Z)	(Z)	(Z)	0.7	1.7	3.3	PA	115.6	126.9	127.7	8.0	7.9	8.4
IN	(D)	(D)	(D)	13.0	13.2	13.2	SC	68.1	70.8	76.9	4.0	5.6	5.4
IA	2.6	2.9	4.0	8.5	7.8	7.6	TN	89.5	87.0	99.3	(Z)	(Z)	(Z)
KY	2.9	2.7	2.3	(Z)	(Z)	(Z)	TX	259.0	266.3	291.6	(D)	(D)	(D)
MD	264.2	252.4	257.8	(D)	(D)	(D)	VA	154.0	175.7	182.4	16.2	16.3	16.6
MA	(Z)	(Z)	(Z)	0.1	0.2	0.2	WA	28.8	28.2	30.5	(Z)	(Z)	(Z)
MI	0.7	0.8	0.8	3.0	3.0	4.2	WV	32.8	35.2	35.3	2.4	2.3	2.9
MN	31.7	33.1	32.8	40.5	38.5	43.1	WI	13.2	13.1	11.6	5.5	(D)	(D)

D Withheld to avoid disclosure. Z Less than 500,000 broilers or 50,000 turkeys. ¹ Includes other States not shown separately.Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Poultry—Production and Value*; and *Turkeys*, annual.**No. 1177. Egg Production, Supply, and Use: 1980 to 1990**

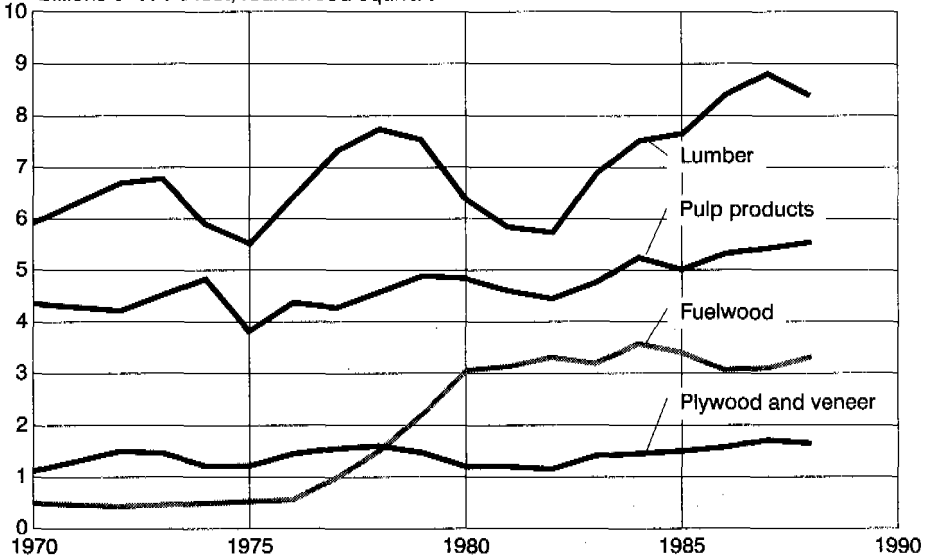
[In millions of dozens, except as indicated]

YEAR	PRODUCTION ¹			SUPPLY			USE			
	Number produced	Price per dozen (cents)	Production value (mil. dol.)	Total ²	Production	Imports	Total	Consumption ³	Hatching use	Exports
1980	5,807	56.3	3,268	5,830	5,806	5	5,811	5,169	499	143
1985	5,704	57.2	3,262	5,734	5,710	13	5,723	5,104	548	71
1986	5,759	61.5	3,543	5,791	5,766	14	5,780	5,112	567	102
1987	5,863	54.7	3,209	5,884	5,868	6	5,870	5,160	599	111
1988	5,805	52.8	3,067	5,804	5,784	5	5,789	5,041	606	142
1989	5,592	68.9	3,854	5,638	5,598	25	5,628	4,893	643	92
1990	(NA)	(NA)	(NA)	5,680	5,660	9	5,668	4,892	676	101

NA Not available. 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.

Figure 24.1
**Domestic Consumption of Selected
Timber Products: 1970 to 1988**

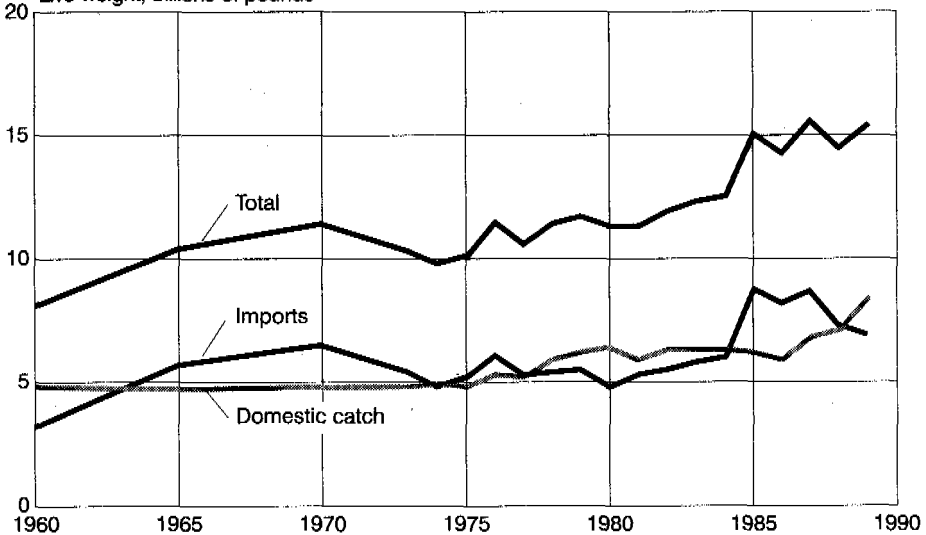
Billions of cubic feet, roundwood equivalent



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1184.

Figure 24.2
**Fishery Products—
Domestic Catch and Imports: 1960 to 1989**

Live weight, billions of pounds



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1197.



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; *Forest Statistics of the United States, 1987*; *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960—88*; 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 5 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. 1178. National Forest System Land and Purchases: 1960 to 1989

[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	1984	1985	1986	1987	1988	1989
Gross area ¹	Mil. acres	227	226	226	226	230	230	230	230	230	231
National forest system ²	Mil. acres	186	187	188	187	191	191	191	191	191	191
Approved for purchase	1,000 acres	8	92	12	42	8	16	23	87	42	99
Average price per acre	Dollars	15	125	275	664	544	431	308	437	561	346
Total price	Mil. dol	0.1	11.5	3.3	27.9	4.2	6.9	7.0	38.0	23.5	34.0
Purchases completed	1,000 acres	8	113	34	27	35	7	33	53	18	46
Average price per acre	Dollars	31	96	267	617	407	653	295	360	153	428
Total price	Mil. dol	0.2	10.9	9.1	17.1	14.0	4.2	9.8	19.0	7.2	20.0
Gross area of purchase units ³	Mil. acres	56	56	56	56	58	58	58	58	58	58
Purchase completed, net area	Mil. acres	19	20	20	20	20	20	20	20	20	20
Average price per acre	Dollars	4	6	9	12	15	15	16	17	17	17
Total price	Mil. dol	75	125	179	250	298	305	314	333	340	360

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. 1179. National Forest System—Summary: 1970 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989
Timber cut, total value	Mil. dol	308.6	736.6	348.7	655.9	763.9	724.5	789.9	1,019.0	1,243.0	1,313.1
Commercial and cost sales:											
Volume	Mil. bd.	11,527	9,178	6,747	9,244	10,549	10,941	11,786	12,712	12,649	11,913
Value	Mil. dol	307.6	729.8	339.2	648.7	759.6	720.6	786.9	1,016.0	1,239.8	1,308.1
Free use:											
Volume	Mil. bd.	179	2,070	2,343	1,071	570	399	308	209	223	214
Value	Mil. dol	0.3	5.7	7.5	4.5	2.6	2.2	1.4	1.1	1.2	1.2
Misc. forest products:											
Value	Mil. dol	0.7	1.1	2.0	1.7	1.7	1.7	1.6	1.9	2.0	2.8
Livestock grazing:											
Cattle and horses ⁴	1,000	1,607	1,521	1,562	1,609	1,521	1,545	1,491	1,410	1,387	1,313
Sheep and goats	1,000	2,105	1,328	1,340	1,242	1,129	1,183	1,168	1,134	1,051	1,067
Roads and trails:											
Road construction ⁵	Miles	942	925	1,867	2,016	1,667	1,903	1,252	2,394	1,352	866
Trail construction ⁶	Miles	278	2,419	782	959	874	987	1,092	1,046	1,834	1,944
Receipts, total	Mil. dol	299.7	702.9	350.2	495.3	637.3	635.9	831.8	886.4	980.2	1,050.8
Timber use	Mil. dol	283.9	625.4	251.0	398.5	544.3	514.8	745.1	807.9	888.4	909.5
Grazing use	Mil. dol	4.4	15.8	12.4	10.2	9.6	9.0	8.6	8.1	8.7	10.9
Special land use, etc.	Mil. dol	11.4	61.6	86.8	86.6	83.5	112.3	78.0	82.3	83.1	130.3
Payments to local govt. ⁷	Mil. dol	72.8	240.1	144.3	203.5	235.3	229.0	270.9	295.4	325.5	362.1
25-percent fund	Mil. dol	71.9	233.6	132.6	192.7	224.9	212.2	262.1	285.3	317.3	353.8
Other ⁸	Mil. dol	0.9	6.5	11.7	10.8	10.4	16.8	8.8	10.1	8.2	8.3
Allotments to Forest Service, total ¹⁰	Mil. dol	29.5	73.1	35.2	49.0	62.3	60.0	82.1	88.1	97.0	102.0
Roads and trails	Mil. dol	28.8	65.5	29.4	44.5	58.0	55.5	78.0	83.9	92.4	96.3
Other	Mil. dol	0.8	7.6	5.8	4.5	4.3	4.5	4.1	4.2	4.6	5.7

¹ Includes land exchanges. ² Includes some free use timber not reducible to board feet. ³ For 1970, data for livestock permitted to graze; 1980-1989 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. 1180. National Forest System Land—States and Other Areas: 1989(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	Gross area within unit boundaries ¹	National forest system land ²	Other lands within unit boundaries
Total	230,839	191,268	39,570	NV	6,009	5,743	266
AL	1,275	651	623	NH	825	720	105
AK	24,233	22,437	1,796	NM	10,367	9,320	1,046
AZ	11,889	11,242	647	NY	13	13	-
AR	3,490	2,495	995	NC	3,165	1,221	1,944
CA	24,434	20,588	3,845	ND	1,106	1,106	(Z)
CO	16,027	14,444	1,582	OH	833	191	642
CT	(Z)	(Z)	-	OK	461	296	165
FL	1,246	1,122	124	OR	17,496	15,634	1,862
GA	1,846	858	988	PA	743	512	231
HI	(Z)	(Z)	-	SC	1,376	605	770
ID	21,694	20,457	1,238	SD	2,342	1,997	345
IL	840	264	576	TN	1,212	626	586
IN	644	188	456	TX	1,994	753	1,241
KS	116	108	8	UT	9,128	8,041	1,086
KY	2,102	667	1,435	VT	630	327	302
LA	1,023	601	422	VA	3,226	1,642	1,584
ME	93	53	40	WA	10,045	9,147	898
MI	4,872	2,801	2,071	WV	1,861	1,021	840
MN	5,467	2,808	2,659	WI	2,023	1,513	510
MS	2,310	1,149	1,161	WY	9,704	9,255	449
MO	3,082	1,474	1,608	PR	56	28	28
MT	19,101	16,796	2,305	VI	(Z)	(Z)	-
NE	442	352	90				

- 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. 1181. Forest Land—Total and Timberland Area, Volume of Sawtimber, and Growing Stock: 1952 to 1987**

(As of Jan. 1)

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

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 8.0-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, *Forest Statistics of the United States, 1987*.

No. 1182. Timber-Based Industries—Summary of Manufactures: 1982 to 1988

[Data based on 1987 *Standard Industrial Classification Manual*, published by the Office of Management and Budget, see text, section 27. Based on Census of Manufactures except where noted. N.e.c. = Not elsewhere classified]

SIC ¹ code	INDUSTRY	1982				1987				1988 ²			
		All employees		Value of shipments (bil. dol.)	Establishments (number)	All employees		Value of shipments (bil. dol.)	All employees		Value of shipments (bil. dol.)		
		Number (1,000)	Payroll (mil. dol.)			Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)			
242	Logging and sawmills	238.6	3,513.8	19.4	18,649	268.0	4,805.4	30.1	270.0	5,088.2	31.8		
2411	Logging	80.8	1,207.9	8.3	11,936	85.7	1,515.5	10.9	86.9	1,591.4	11.7		
2421	Sawmills and planing mills, general	131.9	2,020.2	10.1	5,742	148.2	2,816.5	17.4	152.0	3,007.9	18.3		
2426	Hardwood dimension and flooring mills	22.9	252.6	0.9	737	29.9	440.8	1.7	28.9	454.9	1.7		
2429	Special product sawmills, n.e.c.	3.0	33.1	0.2	234	2.2	32.6	0.1	2.2	34.0	0.1		
243	Millwork and veneer³	165.3	2,596.1	11.7	7,929	240.0	4,656.9	22.6	241.2	4,921.6	22.9		
2431	Millwork	56.8	895.4	4.2	2,782	89.0	1,809.8	9.3	90.7	2,013.7	9.4		
2434	Wood kitchen cabinets	43.6	606.9	2.1	3,713	67.0	1,184.8	4.4	67.3	1,214.0	4.5		
2435	Hardwood veneer and plywood	17.8	241.0	1.3	310	20.5	339.6	2.1	20.6	347.5	2.1		
2436	Softwood veneer and plywood	34.9	667.3	3.2	231	38.9	888.0	4.9	38.4	900.4	4.8		
2439	Structural wood members, n.e.c.	12.2	185.5	0.8	893	24.6	434.7	1.9	24.2	446.1	2.0		
244	Wood containers	35.9	390.9	1.6	2,217	37.0	483.1	2.1	38.4	524.7	2.3		
2441	Nailed and lock corner wood boxes and shooks	6.4	76.5	0.3	308	5.9	84.7	0.3	6.1	88.4	0.4		
2448	Wood pallets and skids	22.1	230.4	1.0	1,701	25.7	328.0	1.5	26.9	362.7	1.6		
2449	Wood containers, n.e.c.	7.4	84.0	0.3	208	5.4	70.4	0.2	5.4	73.6	0.3		
245	Wood buildings and mobile homes	59.6	880.2	5.0	1,083	65.3	1,207.5	6.6	66.0	1,251.2	6.6		
2451	Mobile homes	42.8	622.4	3.6	395	39.9	734.2	4.1	40.8	772.5	4.2		
2452	Prefabricated wood buildings and components	16.8	257.8	1.3	688	25.4	473.3	2.5	25.2	478.7	2.4		
249	Miscellaneous wood products	(NA)	(NA)	(NA)	4,104	89.9	1,536.4	8.3	88.5	1,563.7	8.5		
2491	Wood preserving	10.9	159.4	1.4	540	11.8	207.7	2.2	11.7	214.3	2.3		
2493	Reconstituted wood products	(NA)	(NA)	(NA)	240	22.0	504.5	2.9	22.8	532.0	3.0		
2499	Wood products, n.e.c.	(NA)	(NA)	(NA)	3,324	56.1	824.2	3.3	54.0	817.4	3.2		
261	Pulp mills	16.7	467.5	3.1	39	14.2	535.1	4.3	14.4	559.5	5.3		
262	Paper mills	129.0	3,430.6	21.0	282	129.1	4,597.0	28.9	130.4	4,773.0	33.5		
263	Paperboard mills	55.6	1,501.5	9.5	205	52.3	1,858.8	13.7	53.6	1,964.4	16.1		
265	Paperboard containers and boxes	187.4	3,516.7	19.2	2,781	193.6	4,618.1	25.9	194.4	4,837.7	28.2		
2652	Setup paperboard boxes	10.6	134.7	0.4	200	8.7	131.0	0.4	8.8	135.2	0.5		
2653	Corrugated and solid fiber boxes	94.4	1,861.8	10.6	1,601	105.8	2,610.1	16.1	106.1	2,725.7	17.8		
2655	Fiber cans, tubes, drums, and similar products	14.1	252.5	1.5	282	12.6	281.4	1.5	12.4	289.7	1.6		
2656	Sanitary food containers, except folding	68.3	1,267.7	6.7	92	15.8	339.8	2.1	16.0	356.5	2.2		
2657	Folding paperboard boxes, including sanitary				606	50.7	1,255.8	5.7	51.1	1,330.6	6.1		
267	Converted paper and paperboard products⁴	213.3	3,960.6	26.7	2,987	222.1	5,251.0	36.2	226.0	5,490.9	39.5		
2671	Packaging paper and plastics film, coated and laminated	43.1	882.4	5.5	120	15.0	406.2	2.4	15.5	434.5	2.6		
2672	Coated and laminated paper, n.e.c.				412	30.9	838.7	5.9	32.5	908.4	6.8		
2673	Plastics, foil, and coated paper bags	50.2	850.9	5.0	483	36.6	783.7	4.6	36.2	790.1	5.1		
2674	Uncoated paper and multiwall bags				132	17.1	347.8	2.4	17.2	364.7	2.7		
2675	Die-cut paper and paperboard and cardboard	15.9	245.9	1.7	399	15.7	307.8	1.7	16.2	329.4	1.9		
2676	Sanitary paper products	36.7	863.3	9.1	133	38.4	1,155.0	11.7	37.5	1,197.7	12.3		
2677	Envelopes	24.4	428.7	1.8	298	27.6	612.8	2.6	27.5	628.4	2.8		
2678	Stationery, tablets, and related products	12.6	193.1	1.0	189	11.2	205.9	1.2	12.4	215.9	1.3		
2679	Converted paper and paperboard products, n.e.c.	30.4	496.3	2.6	821	29.6	593.1	3.6	31.0	621.8	4.0		

NA Not available. ¹ Standard Industrial Classification code; see text, section 13. ² Source: U.S. Bureau of the Census, *Annual Survey of Manufactures*, 1988. ³ Includes plywood and structural members. ⁴ Except containers and boxes.

Source: except as noted, U.S. Bureau of the Census, *Census of Manufactures, 1987 Final Industry Series*, MC87-1-24A-D and MC87-1-26A-C.

No. 1183. Timber-Based Industries—Employment and Average Hourly Earnings: 1970 to 1989

[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	1987	1988	1989	1970	1980	1985	1987	1988	1989
24	Lumber and wood products ² . . .	564	587	593	629	640	627	2.97	6.57	8.25	8.43	8.59	8.84
241	Logging . . .	(NA)	71	67	71	74	72	(NA)	8.64	10.92	10.68	10.78	11.15
242	Sawmills and planing mills . . .	196	190	172	178	180	176	2.84	6.70	8.52	8.58	8.75	9.02
243	Millwork, plywood, and structural members . . .	(NA)	170	195	221	224	220	(NA)	6.44	8.09	8.35	8.55	8.73
26	Paper and allied products . . .	540	519	509	513	517	522	3.44	7.84	10.83	11.43	11.89	11.96
25	Furniture and fixtures . . .	362	376	394	413	421	420	2.77	5.49	7.17	7.67	7.95	8.26

¹ NA Not available. ² 1987 Standard Industrial Classification; see text, section 27. ³ Includes other industries, not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2370 and *Employment and Earnings*, monthly.

No. 1184. Timber Products—Production, Foreign Trade, and Consumption, by Type of Product: 1970 to 1988

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

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, prel.
Industrial roundwood:										
Domestic production ¹ . . .	11,105	10,575	12,120	10,910	12,065	12,725	12,515	13,845	14,670	14,985
Softwoods . . .	8,635	8,380	9,290	8,450	9,285	9,790	9,690	10,595	11,390	11,430
Hardwoods . . .	2,470	2,195	2,825	2,465	2,780	2,935	2,825	3,250	3,280	3,555
Imports . . .	2,430	2,215	3,250	3,015	3,710	4,165	4,340	4,375	4,575	4,445
Exports . . .	1,540	1,685	2,350	1,995	2,110	2,060	2,070	2,300	2,650	3,200
Consumption ² . . .	11,995	11,105	13,020	11,930	13,665	14,830	14,785	15,920	16,595	16,230
Softwoods . . .	9,425	8,875	10,345	9,575	10,975	11,965	11,960	12,735	13,430	12,970
Hardwoods . . .	2,565	2,230	2,675	2,355	2,690	2,865	2,825	3,180	3,165	3,260
Lumber:										
Domestic production . . .	5,215	4,890	5,300	4,635	5,370	5,770	5,665	6,545	6,990	6,920
Imports . . .	955	930	1,540	1,460	1,915	2,130	2,345	2,285	2,380	2,225
Exports . . .	195	255	395	320	360	340	305	385	510	720
Consumption . . .	5,970	5,565	6,450	5,780	6,925	7,560	7,700	8,445	8,860	8,425
Plywood and veneer:										
Domestic production . . .	1,020	1,165	1,175	1,135	1,365	1,400	1,420	1,505	1,650	1,630
Imports . . .	170	170	120	115	180	145	185	185	190	165
Exports . . .	15	70	45	50	65	45	40	65	80	100
Consumption . . .	1,170	1,265	1,250	1,200	1,460	1,500	1,550	1,625	1,760	1,695
Pulp products:										
Domestic production . . .	3,835	3,485	4,390	3,980	4,165	4,355	4,165	4,545	4,670	4,685
Imports . . .	1,280	1,105	1,565	1,415	1,605	1,860	1,810	1,895	1,985	2,045
Exports . . .	720	715	1,070	900	965	930	920	1,080	1,195	1,345
Consumption . . .	4,400	3,875	4,885	4,495	4,805	5,290	5,055	5,360	5,465	5,585
Logs:										
Imports . . .	25	15	25	20	30	30	20	15	15	15
Exports . . .	465	455	560	550	565	600	655	620	705	825
Pulpwood chips, exports . . .	145	195	275	175	155	145	145	150	160	215
Other industrial prod. ³ consumption . . .	425	385	415	435	445	455	465	475	495	510
Fuelwood consumption . . .	540	570	3,105	3,355	3,235	3,620	3,450	3,115	3,150	3,360

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. 1185. Timber Products—Per Capita Consumption: 1970 to 1988

[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	1982	1983	1984	1985	1986	1987	1988, prel.
All products . . .	Cu. ft. . .	61.1	54.0	70.8	65.7	72	77.9	76.2	78.8	81.0	79.5
Industrial roundwood . . .	Cu. ft. . .	58.5	51.4	57.2	51.3	58.2	62.6	61.8	65.9	68.0	65.9
Lumber . . .	Cu. ft. . .	29.1	25.8	28.3	24.9	29.5	31.9	32.2	35.0	36.3	34.2
Plywood and veneer . . .	Cu. ft. . .	5.7	5.9	5.5	5.2	6.2	6.3	6.5	6.7	7.2	6.9
Pulp products . . .	Cu. ft. . .	21.4	17.9	21.4	19.3	20.5	22.3	21.1	22.2	22.4	22.7
Other products . . .	Cu. ft. . .	2.1	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1
Fuelwood . . .	Cu. ft. . .	2.6	2.6	13.6	14.4	13.8	15.3	14.4	12.9	12.9	13.6
Lumber . . .	Bd. ft. . .	193	171	188	161	190	205	207	224	233	221
Plywood and veneer . . .	Bd. ft. . .	34	32	30	28	34	34	35	37	39	37
Pulp products . . .	Cords (128 cu. ft.) . . .	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3

Source of tables 1184 and 1185: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88*, annual.

No. 1186. 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
Total	39,076	39,869	44,853	57,203	New housing	14,180	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	47,084	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	7,296	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. 1187. Selected Timber Products—Producer Price Indexes: 1980 to 1989

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

PRODUCT	Unit	1980	1985	1986	1987	1988	1989
Lumber and wood products, except furniture	Dec. 1984 = 100	(NA)	100.3	101.5	105.3	109.2	115.3
Logging camps and logging contractors	Dec. 1981 = 100	(NA)	94.8	93.1	100.4	112.8	128.0
Sawmills and planing mills	Dec. 1984 = 100	(NA)	99.7	100.7	106.7	110.2	114.6
Millwork, veneer, and plywood	Dec. 1984 = 100	(NA)	99.9	101.7	105.3	107.5	114.1
Softwood plywood	Dec. 1980 = 100	91.4	90.0	91.5	93.8	93.0	104.8
Wood containers	June 1985 = 100	(NA)	(NA)	100.4	101.3	103.8	109.7
Wood buildings and mobile homes	Dec. 1984 = 100	(NA)	100.6	102.1	103.6	107.9	112.1
Particleboard	Dec. 1982 = 100	91.6	110.0	111.8	120.3	124.6	127.8
Paper and allied products	Dec. 1984 = 100	(NA)	98.8	99.5	104.8	113.7	120.8
Pulp mills	Dec. 1982 = 100	105.5	100.9	103.0	117.0	141.7	161.3
Paper mill products except building paper	June 1981 = 100	93.5	109.5	110.3	115.5	127.4	134.6
Paperboard mills	Dec. 1982 = 100	97.3	112.0	113.0	126.2	141.6	149.9
Converted paper and paperboard products ²	Dec. 1984 = 100	(NA)	100.3	101.8	104.9	112.0	120.2
Paperboard containers and boxes	Dec. 1984 = 100	(NA)	98.4	97.3	104.3	111.7	117.2
Building paper and building board mills	Dec. 1985 = 100	(NA)	(NA)	101.6	104.2	108.8	114.4

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. 1188. Selected Species—Stumpage Prices in Current and Constant (1982) Dollars: 1970 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
CURRENT DOLLARS												
Softwoods:												
Douglas-fir ¹	41.90	169.50	432.20	350.20	118.20	161.60	132.90	126.20	160.70	190.20	256.00	389.80
Southern pine ²	44.10	57.00	155.40	172.00	127.20	140.60	139.40	90.70	103.60	135.70	141.90	131.40
Sugar pine ³	38.50	99.20	666.60	225.20	71.90	137.70	84.30	109.70	169.60	287.60	260.40	289.10
Ponderosa pine ⁴	32.10	71.20	206.10	195.20	66.90	104.00	122.70	101.40	156.60	209.30	182.10	292.00
Western hemlock ⁵	20.50	68.80	212.70	163.40	44.50	62.20	61.80	50.50	74.70	105.40	162.90	223.30
Hardwoods:												
All eastern hardwoods ⁶	26.90	33.90	52.40	50.90	56.40	60.10	90.10	65.40	69.90	88.10	151.30	135.80
Oak, white, red, and black ⁷	26.60	29.70	65.60	63.20	70.80	87.90	145.00	94.50	108.10	146.80	146.30	178.90
Maple, sugar ⁸	(NA)	42.10	70.10	67.80	71.10	55.10	80.50	70.00	66.20	80.50	108.40	128.60
CONSTANT (1982) DOLLARS⁹												
Softwoods:												
Douglas-fir ¹	113.60	290.20	481.30	357.30	118.20	159.50	128.20	122.30	160.40	185.00	239.50	347.40
Southern pine ²	119.50	97.60	173.10	175.50	127.20	138.80	134.40	87.80	103.40	132.00	132.70	117.10
Sugar pine ³	104.30	169.80	742.30	229.80	71.90	135.90	81.30	106.30	169.30	279.80	243.60	257.70
Ponderosa pine ⁴	87.00	121.90	229.50	199.20	66.90	102.70	118.30	98.30	156.30	203.60	170.30	260.20
Western hemlock ⁵	55.60	117.80	236.90	166.70	44.50	61.40	59.60	49.90	74.60	102.50	152.40	199.00
Hardwoods:												
All eastern hardwoods ⁶	72.90	58.00	58.40	51.90	56.40	59.30	86.90	63.40	69.80	85.70	141.50	121.00
Oak, white, red, and black ⁷	72.10	50.90	73.10	64.50	70.80	86.80	139.80	91.60	107.90	142.80	136.90	159.40
Maple, sugar ⁸	(NA)	72.10	78.10	69.20	71.10	54.40	77.60	67.80	66.10	78.30	101.40	114.60

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, 1960-89*, annual, forthcoming.

No. 1189. Lumber Production and Consumption, by Kind of Wood: 1980 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total production	35,354	31,672	30,010	34,572	37,065	38,445	41,999	44,886	44,730	(NA)
Softwoods ^{1 2}	28,239	25,420	24,949	28,927	30,801	30,479	34,815	37,410	37,003	(NA)
Cedar	722	757	470	744	752	759	860	924	883	
Douglas fir	6,853	5,868	4,842	6,434	7,809	7,751	9,600	10,422	10,092	
Hemlock	1,855	1,501	1,284	1,316	(NA)	(NA)	(NA)	(NA)	(NA)	
Ponderosa pine	3,269	2,894	2,350	2,869	3,679	3,773	3,967	4,125	3,943	
Redwood	770	730	760	852	999	1,155	984	1,157	1,172	
Southern yellow pine ²	8,217	8,415	8,754	10,181	10,648	10,230	11,443	12,043	12,471	
White fir	1,643	1,253	974	1,316	2,017	2,272	2,659	2,899	2,886	
Hardwoods ^{1 2}	7,115	6,252	5,061	5,644	6,264	5,966	7,184	7,476	7,727	
Ash	(S)	130	122	224	219	218	257	265	296	
Beech	183	95	88	112	111	89	125	116	117	
Cottonwood and aspen	303	155	105	197	133	216	247	235	239	
Elm	149	77	57	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Maple	³ 225	426	367	524	538	532	587	636	630	
Oak	3,356	1,922	1,855	2,183	2,788	2,793	3,410	3,804	3,684	
Sweet gum ⁴	371	231	193							
Tupelo and black gum	(S)	79	64	278	300	293	375	330	354	
Yellow poplar	661	409	399	475	569	544	724	805	836	
Domestic consumption	44,536	42,555	39,240	48,674	52,861	53,468	57,448	61,754	58,834	58,445
Percent net imports ⁵	16.6	16.8	18.7	18.5	21.8	24.4	21.2	19.4	16.5	16.6
Softwoods	33,812	32,049	31,168	39,611	42,832	44,240	47,492	50,558	48,513	47,576
Per capita (bd. ft.) ⁶	149	140	134	169	181	185	197	208	197	192
Mill stocks, yearend	4,228	4,167	4,270	4,806	4,584	4,765	4,905	4,840	4,999	4,898
Exports	1,956	1,878	1,630	1,745	1,599	1,515	1,877	2,423	3,264	3,414
Imports	9,540	9,205	9,119	11,977	13,270	14,608	14,238	14,680	13,806	13,638
Hardwoods	10,724	10,506	8,072	9,063	9,829	9,956	11,196	10,321	10,869	10,869
Per capita (bd. ft.) ⁶	47	46	35	39	42	39	41	46	42	44
Mill stocks, yearend	1,572	1,727	1,539	1,334	1,561	1,719	1,836	(NA)	(NA)	(NA)
Exports	379	406	356	478	467	397	498	775	1,232	853
Imports	293	291	211	261	326	364	347	511	390	375

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 Imports minus exports. ⁶ Based on estimated resident population as of July 1.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24T, annual.

No. 1190. Lumber Production, by Geographic Area: 1970 to 1988

[In billion board feet. Data based in part on a sample of sawmills and are subject to sampling variability; see source. See *Historical Statistics, Colonial Times to 1970*, series L 113-121, for data by regions]

SECTION AND DIVISION	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
United States	34.7	32.6	¹40.5	¹40.6	¹35.4	¹31.7	30.0	34.6	37.1	36.4	42.0	44.9	44.7
North ^{2 3}	4.4	4.1	(NA)	(NA)	(NA)	(NA)	3.8	4.3	4.5	4.2	4.9	5.3	5.2
Hardwood	3.4	3.0	(NA)	(NA)	(NA)	(NA)	2.7	3.0	3.3	3.0	3.6	3.8	3.9
Softwood	1.0	1.1	(NA)	(NA)	(NA)	(NA)	1.1	1.3	1.2	1.2	1.4	1.5	1.4
South ²	10.8	9.7	(NA)	(NA)	(NA)	(NA)	10.8	12.7	13.4	13.0	15.1	15.7	16.3
Hardwood	3.6	2.7	(NA)	(NA)	(NA)	(NA)	2.0	2.4	2.8	2.7	3.4	3.4	3.6
Softwood	7.2	7.0	(NA)	(NA)	(NA)	(NA)	8.8	10.3	10.7	10.2	11.7	12.3	12.7
West ²	19.4	18.8	21.7	21.1	17.2	(NA)	15.4	17.6	19.1	19.3	22.0	23.9	23.2
Hardwood	0.1	0.1	0.2	0.2	0.3	(NA)	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Softwood	19.3	18.6	21.4	20.9	16.9	(NA)	15.1	17.4	19.0	19.1	21.7	23.6	22.9
New England	0.7	0.8	1.0	1.0	1.1	0.7	1.0	1.2	1.1	1.1	1.2	1.2	1.2
Middle Atlantic	0.8	0.7	0.9	0.9	0.9	0.5	0.8	0.8	0.8	0.7	0.9	0.9	0.9
East North Central	1.2	1.1	1.4	1.4	1.3	1.0	1.1	1.2	1.3	1.3	1.5	1.6	1.5
West North Central	0.6	0.5	0.7	0.6	0.6	0.2	0.3	0.4	0.4	0.6	0.7	0.6	0.6
South Atlantic	5.2	4.7	5.4	5.8	5.2	4.4	5.4	6.5	6.7	6.4	7.4	7.7	8.1
East South Central	3.4	3.0	3.7	3.6	3.2	2.8	3.2	3.8	4.2	4.1	5.0	5.3	5.3
West South Central	3.2	3.0	3.6	3.2	2.9	2.3	2.8	3.1	3.3	3.1	3.4	3.7	3.9
Mountain	4.2	3.9	4.7	4.5	3.8	3.3	3.3	3.8	4.4	4.3	4.8	4.8	4.8
Pacific	15.3	14.8	17.0	16.6	13.4	11.2	12.2	13.6	14.8	14.8	17.0	23.9	23.2

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, 1960-88*, 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. 1191. Wood Products—Production: 1970 to 1989

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Hardwood flooring	Mil. bd. ft.	307	99	78	75	98	110	122	145	174	193	206
Softwood plywood	Bil. sq. ft., 3/8"	14.1	15.1	15.5	15.1	18.3	18.9	19.3	20.4	21.1	22.9	22.0
Insulation boards	1,000 short tons	1,219	1,249	1,051	593	713	785	735	732	605	529	517
Hardboard	Mil. sq. ft., 1/8"	4,340	5,681	6,140	5,587	7,303	6,837	6,300	5,822	5,458	5,118	5,196
Particleboard	Mil. sq. ft., 3/4"	1,731	2,503	2,950	2,393	3,009	3,196	3,331	3,603	3,708	3,829	3,858

¹ 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. 1192. Paper and Paperboard—Production and Consumption: 1970 to 1989

(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	1987	1988	1989	1970	1980	1985	1987	1988	1989
Total paper and paperboard	51.7	63.5	68.7	76.0	78.1	78.2	56.0	67.2	76.1	83.5	85.5	85.0
Paper: Newsprint	3.5	4.7	5.4	5.8	6.0	6.1	9.8	11.4	12.8	13.7	13.6	13.1
Coated printing, converting	3.2	4.6	5.9	6.9	7.4	7.2	3.2	4.6	6.3	7.4	8.1	7.8
Uncoated free sheet	5.1	8.0	9.7	11	11.3	11.0	5.1	8.0	10.0	11.3	11.8	11.5
Other printing, writing, etc.	2.6	2.9	2.9	3	3.3	3.3	2.8	3.5	4.3	4.7	5.2	5.1
Packaging and industrial converting	5.3	5.5	5.2	5.1	5.0	4.9	5.1	5.2	5.1	5.1	5.0	5.0
Tissue and other machine creped	3.7	4.4	4.9	5.3	5.5	5.6	3.7	4.4	5.0	5.3	5.5	5.7
Paperboard: Unbleached kraft	11.5	16.3	16.4	18.9	19.1	19.5	9.9	13.0	14.6	16.7	16.9	17.2
Bleached kraft	3.3	3.8	3.9	4.4	4.5	4.5	3.2	3.3	3.4	3.8	3.9	3.8
Chemical	3.5	4.7	5.1	5.5	5.7	5.7	3.4	4.4	5.0	5.5	5.7	5.7
Recycled finish	7.0	7.1	7.6	8.6	8.8	8.8	7.0	7.0	7.6	8.7	8.8	9.0
Construction paper and board ²	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 1.7

¹ Total consumption of paper and paperboard includes net imports of paper and paperboard converted products; not available by grade. ² Source: 1970-80, 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. 1193. Newsprint—Production, Stocks, Consumption, Imports, and Price Index: 1970 to 1989

(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	1982	1983	1984	1985	1986	1987	1988	1989
Canada: Production	7,808	6,966	8,625	8,109	8,486	9,013	8,988	9,289	9,689	9,840	9,640
Shipments from mills	7,795	7,010	8,622	8,054	8,439	9,018	8,988	9,302	9,757	9,740	9,607
Stocks at mills, end of year	214	86	165	256	303	298	290	277	189	288	321
United States: Estimated consumption ¹	8,805	8,395	10,088	10,107	10,589	11,431	11,587	11,937	12,322	12,244	12,241
Production	3,142	3,348	4,239	4,574	4,688	5,025	4,924	5,107	5,300	5,427	5,523
Shipments from mills	3,136	3,347	4,234	4,526	4,674	5,065	4,927	5,115	5,310	5,415	5,515
Stocks, end of year: At mills	30	19	21	88	99	60	57	49	36	48	56
At and in transit to publishers	680	666	732	854	790	874	910	849	900	933	749
Imports ²	6,635	5,847	7,280	6,531	6,919	7,899	8,472	8,589	8,976	8,592	8,765
Producer price index (1982=100)	34.1	58.3	³ 88.5	100.0	95.9	102.3	105.3	103.3	112.3	127.6	122.5

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 1982, 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. 1194. Wastepaper Utilization and Recovery Rates: 1970 to 1989

(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	1982	1983	1984	1985	1986	1987	1988	1989
Paper and board, production ¹	51.7	51.0	63.5	61.0	66.8	70.3	68.7	72.5	76.0	78.1	78.2
Wastepaper consumption	11.8	11.7	14.9	14.4	15.6	16.7	16.4	17.9	18.7	19.7	20.7
Wastepaper utilization rate (percent)	22.8	23.0	23.5	23.7	23.4	23.8	23.8	24.7	24.6	25.2	26.4
Other wastepaper uses	0.42	0.54	0.47	0.49	0.46	0.46	0.53	0.59	0.66	0.70	0.71
Wastepaper exports	0.41	0.09	2.64	2.23	2.71	3.46	3.56	4.09	4.81	5.95	6.31
Total wastepaper recovered	12.6	13.1	17.9	17.1	18.7	20.5	20.4	22.5	24.0	26.2	27.5
Paper and board, new supply ³	56.0	54.1	67.2	64.7	71.2	77.0	76.1	79.7	83.5	85.5	85.0
Recovery rate (percent)	22.4	24.2	26.7	26.4	26.3	26.7	26.8	28.2	28.8	30.6	32.4

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.

No. 1195. Selected Wood Products—Production and Consumption: 1970 to 1988(See also *Historical Statistics of the United States, Colonial Times to 1970*, series L 151-170)

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988
PULPWOOD										
Receipts, total	Mil. cords ¹	68.9	65.4	81.0	83.4	88.0	85.4	90.6	93.9	95.6
Softwood	Mil. cords	52.4	49.3	60.2	59.8	62.9	60.2	63.3	65.3	66.3
Hardwood	Mil. cords	16.5	16.2	20.8	23.6	25.2	25.1	27.3	28.6	29.3
Consumption, total	Mil. cords ¹	67.6	65.4	79.7	83.5	87.0	84.8	91.1	92.4	95.5
Softwood	Mil. cords	51.3	48.9	58.8	59.9	62.0	59.7	63.1	64.2	66.2
Hardwood	Mil. cords	16.3	16.5	20.9	23.6	24.9	25.1	28.1	28.2	29.3
Inventories ²	Mil. cords ¹	6.6	6.6	6.7	5.2	5.2	5.1	4.7	5.6	5.2
WOODPULP										
Production	Mil. short tons	43.9	43.1	53.0	54.1	57.8	57.7	60.6	62.4	63.8
Consumption, ³ total	Mil. short tons	43.2	42.4	52.4	54.0	57.5	56.6	60.0	61.2	62.6
Own pulp	Mil. short tons	38.9	38.5	46.6	47.7	50.3	49.7	52.6	53.8	54.9
Purchased pulp	Mil. short tons	4.3	3.9	5.9	6.3	7.2	7.0	7.5	7.4	7.7
PLYWOOD										
Softwood:										
Production	Mil. sq. ft. ⁴	14,149	15,706	15,483	18,281	18,865	19,341	20,363	22,312	22,089
Consumption, total	Mil. sq. ft. ⁴	(NA)	(NA)	15,145	17,737	18,526	19,122	19,880	21,503	21,006
Value	Mil. dol.	949	(NA)	2,582	2,877	2,995	3,080	3,237	3,483	3,299
Hardwood:										
Production	Mil. sq. ft. ⁵	1,904	1,280	1,311	1,248	1,185	1,016	1,088	1,256	1,247
Consumption, total	Mil. sq. ft. ⁵	5,772	4,970	3,416	4,324	3,831	4,311	4,884	4,918	4,206
Value	Mil. dol.	516	586	977	1,131	1,199	1,192	1,320	1,471	1,401

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 3/8" basis. ⁵ Surface measure.

Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA26-A, MA24-H and MA24-F.

No. 1196. Selected Timber Products—Imports and Exports: 1970 to 1989

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
IMPORTS ¹											
Lumber, total ²	Mil. bd. ft.	6,114	9,866	9,360	12,254	13,632	14,996	14,619	15,234	14,226	15,277
From Canada	Percent	96.0	97.5	98.2	98.3	97.9	97.6	97.5	96.9	97.5	91.3
Softwoods	Mil. bd. ft.	5,778	9,573	9,150	11,993	13,304	14,632	14,272	14,723	13,841	14,928
Value	Mil. dol	434	1,826	2,569	2,681	2,898	2,969	3,060	2,939	2,875	2,875
Hardwoods	Mil. bd. ft.	337	293	211	260	328	364	347	511	386	349
Value	Mil. dol	62	152	104	134	173	180	168	273	238	152
Logs, total	Mil. bd. ft. ³	144	128	117	165	147	99	78	83	68	42
From Canada	Percent	79.6	97.4	98.6	97.9	97.4	81.8	77.9	91.6	91.9	61.5
Softwoods	Mil. bd. ft. ³	107	114	99	142	117	71	52	69	56	24
Value	Mil. dol	9	17	23	24	15	17	7	19	15	12
Hardwoods	Mil. bd. ft. ³	38	13	18	23	30	28	26	14	12	18
Value	Mil. dol	5	3	3	3	5	4	4	3	3	17
Paper and board ⁴	1,000 tons	7,115	8,780	8,024	8,986	11,075	11,522	11,936	12,837	13,110	13,100
Value	Mil. dol	1,039	3,418	3,682	4,019	5,324	5,698	6,036	6,928	8,002	8,330
Woodpulp	1,000 tons	3,518	4,051	3,656	4,093	4,490	4,466	4,594	4,848	4,938	5,105
Value	Mil. dol	483	1,684	1,493	1,472	1,845	1,521	1,606	2,069	2,608	3,037
Plywood	Mil. sq. ft.	4,171	2,477	2,270	3,393	3,056	3,609	3,941	4,094	3,358	(NA)
Value	Mil. dol	208	409	331	451	438	463	519	638	577	(NA)
EXPORTS											
Lumber, total ²	Mil. bd. ft.	1,243	2,494	2,021	2,270	2,150	1,945	2,427	3,217	4,527	4,236
To: Canada	Percent	21.7	25.3	20.7	29.3	25.8	23.7	22.0	20.9	17.6	15.5
Japan	Percent	30.8	26.0	31.1	27.8	28.0	32.1	36.4	36.8	34.5	38.2
Europe	Percent	24.1	23.8	20.3	20.2	16.0	15.1	16.6	16.9	20.5	16.7
Softwoods	Mil. bd. ft.	1,115	2,007	1,635	1,756	1,624	1,518	1,878	2,424	3,266	3,379
Value	Mil. dol	163	789	582	609	541	497	644	856	1,143	1,404
Hardwoods	Mil. bd. ft.	128	487	386	514	527	427	548	793	1,261	856
Value	Mil. dol	31	272	229	305	300	263	350	493	683	653
Logs, total	Mil. bd. ft. ³	2,741	3,261	3,208	3,307	3,495	3,843	3,627	4,110	4,798	4,773
To: Canada	Percent	10.6	9.7	9.4	10.5	12.1	11.6	12.2	10.3	7.9	5.8
Japan	Percent	86.3	78.0	61.7	55.4	50.4	49.4	57.3	58.3	50.3	63.2
China: Mainland	Percent	(NA)	2.7	17.1	21.9	24.8	27.8	17.0	14.1	23.4	10.1
Softwoods	Mil. bd. ft.	2,672	3,109	3,115	3,196	3,369	3,732	3,488	3,960	4,594	4,557
Value	Mil. dol	320	1,452	1,174	1,068	1,079	1,169	1,129	1,526	2,090	2,177
Hardwoods	Mil. bd. ft. ³	69	152	93	112	126	111	139	149	204	216
Value	Mil. dol	36	129	84	98	101	91	97	118	160	230
Paper and board ⁴	1,000 tons	2,817	5,214	4,246	4,569	4,387	4,071	4,687	5,304	5,691	6,300
Value	Mil. dol	602	2,773	2,589	2,481	2,552	2,266	2,540	3,104	3,753	4,261
Woodpulp	1,000 tons	3,095	3,806	3,395	3,644	3,594	3,796	4,459	4,869	5,528	6,231
Value	Mil. dol	464	1,652	1,415	1,362	1,502	1,354	1,663	2,251	2,915	3,513
Plywood	Mil. sq. ft.	183	420	493	615	407	365	656	855	1,108	(NA)
Value	Mil. dol	16	108	117	143	94	86	145	194	247	(NA)

NA Not available. ¹ Customs value of imports; see text, section 29. ² Includes railroad ties. ³ Log scale. ⁴ Includes paper and board products. Excludes hardwood.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics: 1980-89*, forthcoming.

No. 1197. Fishery Products—Domestic Catch and Imports, Summary: 1970 to 1989

[Live weight, in millions of pounds, except percent. 1979-1989 preliminary. For data on commercial catch for selected countries, see table 1478, section 31. See *Historical Statistics, Colonial Times to 1970*, series L 224-226, for domestic catch]

ITEM	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	11,474	11,831	11,357	11,353	12,011	12,352	12,552	15,150	14,368	15,744	14,628	15,485
For human food	6,213	8,251	8,006	8,267	7,968	8,413	8,498	9,337	9,620	10,561	10,505	12,268
Finfish	(NA)	6,324	6,139	6,316	6,090	6,358	6,303	6,991	7,087	7,919	7,786	9,735
Shellfish	(NA)	1,927	1,867	1,951	1,878	2,055	2,195	2,346	2,533	2,642	2,719	2,533
For industrial use	5,261	3,580	3,351	3,086	4,043	3,939	4,054	5,813	4,748	5,183	4,123	3,217
Domestic catch	4,917	6,267	6,482	5,977	6,367	6,439	6,438	6,258	6,031	6,896	7,192	8,463
Percent of total	42.8	53.0	57.1	52.7	53.0	52.1	51.3	41.3	42.0	43.8	49.2	54.7
For human food	2,537	3,318	3,654	3,547	3,285	3,238	3,320	3,294	3,393	3,946	4,588	6,204
Finfish	(NA)	2,204	2,516	2,414	2,324	2,351	2,348	2,273	2,240	2,769	3,306	4,897
Shellfish	(NA)	1,114	1,138	1,133	961	887	972	1,021	1,153	1,177	1,282	1,307
For industrial use	2,380	2,949	2,828	2,430	3,082	3,201	3,118	2,964	2,638	2,950	2,604	2,259
Imports ²	6,557	5,564	4,875	5,376	5,644	5,913	6,114	8,892	8,337	8,848	7,436	7,022
Percent of total	57.2	47.0	42.9	47.3	47.0	47.9	48.7	58.7	58.0	56.2	50.8	45.3
For human food	3,676	4,933	4,352	4,720	4,683	5,175	5,178	6,043	6,227	6,615	5,917	6,064
Finfish	(NA)	4,120	3,623	3,902	3,766	4,007	3,955	4,718	4,847	5,150	4,480	4,838
Shellfish	(NA)	813	729	818	917	1,168	1,223	1,325	1,380	1,465	1,437	1,226
For industrial use ³	2,881	631	523	656	961	738	936	2,849	2,110	2,233	1,519	958

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. 1198. Fisheries—Employment, Fishing Craft, and Establishments: 1970 to 1988

[In thousands. As of Dec. 31, 1978-1988 preliminary. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970*, series L 254-261]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Persons employed in U.S.	227	260	257	267	296	303	314	333	340	351	347	359	364
Fishermen	140	168	172	184	193	198	216	223	230	239	247	256	274
Shore workers	87	92	85	83	103	105	98	110	110	112	100	103	90
Craft used	88	103	104	103	113	115	123	127	127	130	128	293	293
Vessels, 5 net tons and over	14	16	18	18	19	20	20	21	24	24	38	223	223
Motorboats	72	85	84	84	93	93	102	105	102	104	88	268	268
Other boats	2	2	2	1	1	2	1	1	1	2	2	2	2
Fishery shore establishments.	3.7	3.6	3.3	3.4	3.6	3.6	3.6	3.9	4.0	4.0	4.0	4.2	4.6

¹ Seasonal average for processors and wholesaling plants. ² Excludes Maryland and Virginia. ³ Excludes Maryland, Virginia, and Alaska.

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. 1199. Fisheries—Quantity and Value of Domestic Catch: 1960 to 1989

[1978-1989 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	1980.	6,482	3,654	2,828	2,237	34.5
1965.	4,777	2,587	2,190	446	9.3	1981.	5,977	3,547	2,430	2,388	40.0
1970.	4,917	2,537	2,380	613	12.5	1982.	6,367	3,285	3,082	2,390	37.5
1972.	4,806	2,435	2,371	748	15.6	1983.	6,439	3,238	3,201	2,355	36.6
1973.	4,858	2,398	2,460	937	19.3	1984.	6,438	3,320	3,118	2,350	36.5
1974.	4,967	2,496	2,471	932	18.7	1985.	6,258	3,294	2,964	2,328	37.2
1975.	4,877	2,465	2,412	977	20.0	1986.	6,031	3,393	2,638	2,763	45.6
1976.	5,388	2,775	2,613	1,349	25.0	1987.	6,896	3,946	2,950	3,115	45.2
1977.	5,271	2,952	2,319	1,554	29.5	1988.	7,192	4,588	2,604	3,520	48.9
1978.	6,028	3,177	2,851	1,854	30.7	1989.	8,463	6,204	2,259	3,238	38.3
1979.	6,267	3,318	2,949	2,234	35.6						

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. 1200. Fisheries—Quantity and Value of Catch, by State, and Catch of Principal Species, by Area: 1980 to 1989

[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	1988	1989	AREA, STATE, CATCH, AND VALUE	1980	1985	1988	1989
Total:					Value	20	21	21	20
Catch	6,482	6,258	7,192	8,483	Florida (east coast):				
Value	2,237	2,326	3,520	3,238	Catch	77	66	56	56
New England:					Value	39	57	55	53
Catch	788	590	570	565	Catch for certain species:				
Value	327	419	494	509	Menhaden	218	105	75	68
Maine:					Shrimp	33	28	24	34
Catch	245	175	157	151	Crabs	55	48	54	52
Value	93	101	124	133	Scallops	1	13	14	5
New Hampshire:					Gulf States:				
Catch	19	8	11	11	Catch	1,979	2,412	1,937	1,789
Value	5	5	9	10	Value	463	597	708	649
Massachusetts:					Florida (west coast):				
Catch	438	296	287	269	Catch	115	117	126	141
Value	178	232	274	273	Value	86	114	114	132
Rhode Island:					Alabama:				
Catch	81	104	106	125	Catch	25	30	24	25
Value	46	70	69	75	Value	25	41	40	38
Connecticut:					Mississippi:				
Catch	5	7	9	9	Catch	334	471	336	298
Value	5	12	17	18	Value	25	40	61	44
Catch for certain species:					Louisiana:				
Clams	15	22	17	16	Catch	1,412	1,693	1,356	1,228
Cod	118	83	75	78	Value	174	225	317	265
Crabs	7	8	13	11	Texas:				
Flounder	118	98	59	50	Catch	94	103	96	96
Haddock	55	14	6	4	Value	153	177	176	170
Herring, sea	184	52	89	90	Catch for certain species:				
Lobster, American	36	44	45	49	Crabs	45	53	83	61
Ocean perch, Atlantic	24	10	2	1	Mullet	31	17	27	27
Pollock	40	43	33	23	Oysters (meats)	17	25	16	15
Scallops, sea	17	10	18	21	Shrimp	208	263	226	228
Squid	6	15	44	47	Great Lakes:				
Whiting	18	31	25	23	Catch	44	54	40	38
Middle Atlantic:					Value	14	15	19	20
Catch	244	151	156	172	Mississippi River and tributaries:				
Value	97	101	129	133	Catch	85	92	(NA)	(NA)
New York:					Value	21	29	(NA)	(NA)
Catch	39	39	38	37	Pacific Coast:				
Value	45	38	54	51	Catch	2,140	1,816	3,457	4,840
New Jersey:					Value	1,025	863	1,809	1,560
Catch	201	108	113	128	Washington:				
Value	50	61	72	79	Catch	156	167	174	163
Delaware:					Value	86	93	172	135
Catch	4	5	6	7	Oregon:				
Value	2	2	3	3	Catch	126	101	149	170
Catch for certain species:					Value	56	46	98	79
Clams (meats)	40	73	62	80	California:				
Scup or porgy	8	2	4	4	Catch	804	363	496	418
Squid	3	8	17	17	Value	323	133	199	123
Chesapeake Bay:					Alaska:				
Catch	717	815	731	778	Catch	1,054	1,185	2,639	4,089
Value	130	124	148	152	Value	560	591	1,339	1,223
Maryland:					Catch for certain species:				
Catch	80	92	80	85	Anchovies	107	15	12	13
Value	45	47	44	52	Bonito	14	5	9	2
Virginia:					Cod	20	120	267	372
Catch	637	723	651	693	Crabs	347	129	217	199
Value	85	76	104	100	Flounder	60	68	133	133
Catch for certain species:					Hake	12	16	16	17
Crabs	65	91	78	89	Halibut	19	61	81	75
Clams	36	47	47	38	Herring, sea	107	142	131	119
Scallops, sea	6	3	7	8	Jack mackerel	44	21	23	28
Flounder	10	6	8	4	Mackerel	65	75	100	89
Oysters	21	8	5	4	Oysters	7	8	10	8
South Atlantic:					Pollock	3	93	1,257	2,362
Catch	473	311	280	256	Rockfish	106	82	124	134
Value	148	156	174	169	Sablefish	22	63	108	98
North Carolina:					Salmon	614	727	562	785
Catch	356	215	191	164	Shrimp	98	35	74	81
Value	69	65	76	71	Tuna	387	64	73	58
South Carolina:					Hawaii:				
Catch	21	13	16	20	Catch	11	17	21	24
Value	20	14	21	25	Tuna catch	7	11	11	14
Georgia:					Value	12	22	40	47
Catch	19	17	17	16					

NA Not available. ¹ Collected largely by State fishery agencies and compiled by State fishery agencies and 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. 1201. Fisheries—Domestic Catch and Value, by Selected Major U.S. Ports: 1985 to 1989

[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.)				
	1985	1986	1987	1988	1989	1985	1986	1987	1988	1989
Dutch Harbor-Unalaska, AK	106.3	88.3	128.2	377.3	504.3	21.3	37.2	62.7	100.9	107.0
Cameron, LA	673.6	616.8	672.4	438.9	352.7	29.9	34.8	31.9	33.2	20.5
Pascagoula-Moss Point, MS	423.2	365.5	391.6	292.0	282.1	18.4	20.4	20.3	28.2	16.9
Empire-Venice, LA	224.5	317.6	357.4	297.2	272.7	34.3	47.1	60.1	67.7	49.2
Kodiak, AK	96.1	141.2	204.1	304.6	213.2	65.8	89.8	132.1	166.3	100.2
Dulac-Chauvin, LA	398.6	294.6	331.7	244.1	210.9	59.9	71.0	65.6	56.5	50.0
Intercoastal City, LA	(NA)	298.9	314.3	209.7	207.2	(NA)	11.3	13.4	14.7	9.5
Los Angeles, CA	150.3	187.4	203.1	232.0	177.6	32.5	29.5	55.6	34.0	20.3
Petersburg, AK	(NA)	85.2	42.4	50.4	113.5	(NA)	38.1	36.9	58.5	61.4
Gloucester, MA	116.5	110.0	93.0	107.4	98.5	37.1	37.8	34.0	30.8	30.0
Beaufort-Morehead City, NC	133.2	98.9	85.7	110.0	95.0	22.7	24.7	22.7	27.0	25.0
Ketchikan, AK	(NA)	42.2	27.6	28.3	91.8	(NA)	20.6	22.8	43.5	45.6
New Bedford, MA	90.6	65.8	78.7	90.3	90.4	103.2	106.0	143.7	140.9	141.0
Morgan City-Berwick, LA	7.7	17.4	27.0	43.3	68.1	(NA)	(NA)	11.0	16.7	17.8
Cordova, AK	(NA)	(NA)	69.6	42.5	55.3	(NA)	(NA)	41.9	46.4	35.3
Cape May-Wildwood, NJ	30.3	36.6	56.8	47.9	54.0	18.1	20.9	30.5	28.4	30.8
Astoria, OR	25.5	36.8	46.6	44.2	51.0	9.5	18.4	24.6	24.3	20.0
Port Hueneme-Oxnard-Ventura, CA	19.9	31.0	42.3	55.0	50.9	5.4	5.8	8.1	10.0	7.9
Portland, ME	36.1	34.9	43.8	43.9	49.0	17.2	22.4	35.8	30.4	34.4
Point Judith, RI	56.8	52.1	46.6	49.6	48.3	28.0	28.5	27.4	25.4	23.6

NA Not available. ¹ Record.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1202. Domestic Fish and Shellfish Catch and Value, by Species: 1985 to 1989

SPECIES	QUANTITY (1,000 lb.)					VALUE (\$1,000)			
	1985-89 5 year average	1985	1987	1988	1989	1985	1987	1988	1989
Total	(X)	6,257,642	6,896,728	7,192,553	8,463,080	2,326,237	3,114,713	3,520,259	3,238,440
Fish, total ¹	(X)	5,214,363	5,708,215	5,905,561	7,145,154	1,193,427	1,629,041	2,023,230	1,726,247
Anchovies	13,335	14,566	12,857	12,425	13,389	2,704	2,706	2,615	2,698
Bluefish	14,044	13,743	15,226	16,853	10,429	2,363	3,254	3,012	2,245
Butterfish	8,605	10,338	10,315	5,441	7,051	3,537	6,496	3,407	4,108
Cod: Atlantic	71,511	82,823	59,100	76,073	78,423	35,140	44,179	42,941	47,772
Pacific	206,934	120,275	170,811	267,205	372,137	18,556	31,443	38,429	55,375
Croaker	10,681	11,088	11,044	10,804	8,287	3,858	4,396	4,596	4,114
Flounders	199,118	195,718	199,711	228,620	202,489	129,121	145,080	140,142	118,831
Haddock	8,459	14,416	6,673	6,429	3,808	13,545	8,522	7,030	4,538
Halibut	74,321	61,032	76,107	81,808	75,168	38,376	88,254	72,718	85,145
Herring, sea: Atlantic	80,221	57,133	84,536	90,397	89,657	2,968	4,368	5,229	5,041
Herring, sea: Pacific	129,243	142,074	122,598	131,432	119,346	47,025	47,916	57,431	24,381
Jack mackerel	24,433	20,852	26,671	22,546	28,422	1,770	1,831	1,685	1,927
Mackerel, Pacific	88,732	75,453	93,755	100,342	88,667	6,324	6,433	7,498	6,023
Menhaden	2,383,569	2,739,401	2,712,285	2,086,068	1,968,726	100,680	104,425	105,704	84,462
Mullet	27,442	21,205	30,125	32,642	31,594	5,720	8,224	11,218	15,023
Ocean perch, Atlantic	4,837	9,686	4,202	2,350	1,392	3,179	2,709	1,467	919
Ocean perch, Pacific	15,770	9,034	19,982	11,919	22,332	1,757	4,478	2,546	4,646
Pollock, Atlantic	39,978	43,477	45,645	33,052	23,249	5,409	17,916	11,071	9,922
Pollock, Alaska	878,909	92,933	552,048	1,257,251	2,361,988	6,878	45,449	95,252	186,921
Rockfish	109,934	82,109	117,881	124,026	133,623	23,107	38,153	38,663	42,338
Sablefish	91,209	63,380	102,698	107,511	97,590	28,692	58,107	91,779	73,272
Salmon	667,900	726,946	562,018	606,148	785,868	439,795	596,376	910,673	591,234
Scup or porgy	14,082	15,996	14,295	14,358	9,582	9,338	9,810	9,572	7,720
Sea trout, gray	17,930	16,400	17,927	20,533	14,187	7,330	7,499	7,948	7,160
Shark, Dogfish	11,944	16,400	14,167	10,070	12,804	842	1,573	975	1,602
Snapper, red	4,303	5,181	3,732	4,154	3,959	10,661	8,661	9,496	10,329
Wardfish	11,255	12,258	9,761	12,818	11,768	33,191	34,974	42,703	38,321
Tuna	94,337	83,054	100,058	111,349	89,413	52,515	95,803	120,990	103,543
Whiting	38,813	44,545	34,673	35,669	39,353	8,274	11,584	8,621	9,403
Shellfish, total	(X)	1,043,279	1,187,511	1,286,992	1,317,926	1,132,810	1,485,672	1,497,028	1,512,193
Clams	140,041	150,551	134,357	131,740	138,166	128,349	132,861	134,781	134,943
Crabs	398,733	337,632	396,368	455,629	458,378	203,044	321,875	383,560	414,401
LOBSTERS: American	47,866	46,152	45,558	48,643	52,926	114,895	133,554	145,236	149,115
Oysters	37,268	44,173	39,807	31,892	29,926	70,053	92,423	78,498	83,585
Scallops: Calico	8,146	12,513	8,155	11,868	6,580	12,524	8,889	12,462	5,928
Sea	26,435	15,828	32,038	30,557	33,757	74,562	132,263	128,243	132,594
Shrimp	355,881	333,691	363,142	330,873	351,514	472,850	578,084	506,034	467,571
Squid: Atlantic	38,551	71,157	38,883	46,739	66,829	7,256	12,493	16,220	25,592
Pacific	49,728	22,276	43,166	80,426	60,509	4,047	4,300	7,689	5,509

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. 1203. Disposition of U.S. Domestic Catch: 1970 to 1989

[Live weight catch in millions of pounds. 1979-89 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	1977	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	4,917	4,875	6,482	5,977	6,367	6,439	6,438	6,258	6,031	6,896	7,192	8,463
Fresh and frozen	1,595	1,744	2,621	2,547	2,550	2,304	2,336	2,242	2,487	3,157	3,813	5,209
Canned	1,150	907	1,161	1,118	891	1,087	1,128	1,232	1,134	1,009	1,017	1,244
Cured	71	55	96	90	85	80	82	70	60	89	86	58
Reduced to meal, oil, etc.	2,101	2,171	2,604	2,222	2,841	2,968	2,892	2,714	2,350	2,641	2,276	1,952

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. 1204. Joint Venture Catches in the U.S. Exclusive Economic Zone (EEZ), by Species: 1985 to 1989

[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	1987	1988	1989	1985	1987	1988	1989
Total	2,008,889	3,286,604	3,201,487	1,700,293	104,320	202,133	221,090	112,165
Atka mackerel	88,047	66,206	43,253	-	8,109	4,775	3,571	-
Cod	80,189	131,220	245,871	97,837	7,799	15,334	30,429	12,495
Flounders	396,084	494,381	727,778	426,436	24,833	33,272	53,763	34,179
Hake, Pacific (D)	233,681	299,343	448,808	-	(D)	11,653	14,660	21,628
Ocean perch	619	1,225	-	-	56	173	-	-
Mackerel, Atlantic	8,350	17,663	12,533	(Z)	584	1,058	780	(Z)
Pollock, Alaska	1,354,368	1,993,203	1,822,242	634,386	59,730	134,302	116,102	40,378
Rockfishes	154	705	4,636	-	14	100	705	-
Sablefish	207	271	112	-	30	37	14	-
Whiting	-	11	-	-	-	(Z)	-	-
Squid	7,987	9,112	(D)	-	1,194	1,373	(D)	-
Other	72,884	1,124	45,719	92,727	3,971	56	1,086	3,485

- 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. 1205. U.S. Catch and Value of Fish and Shellfish, by Distance Caught Off U.S. Shores—Selected Species: 1989

[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 1204]

SPECIES	Total U.S. catch (mil. lb.)	BY DISTANCE FROM U.S. SHORES						Value of U.S. catch ¹ (mil. dol.)
		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	
Total	10,855	4,174	5,971	510	39.2	56.0	4.8	3,565
Fish ³	9,332	3,464	5,358	510	37.1	57.4	5.5	2,045
Cod	548	56	492	(Z)	10.2	89.8	(Z)	116
Flounder	629	89	536	4	14.2	85.2	0.6	154
Halibut	75	28	47	(Z)	37.3	62.7	(Z)	85
Herring, sea	237	150	87	-	63.3	36.7	-	31
Mackerel	131	3	128	-	2.3	97.7	-	18
Menhaden	2,073	1,665	408	-	80.3	19.7	-	86
Pollock	3,020	354	2,666	-	11.7	88.3	-	237
Salmon, Pacific	786	778	8	-	99.0	1.0	-	591
Tuna	541	1	35	505	0.2	6.5	93.3	309
Shellfish ³	1,323	710	613	-	53.7	46.3	-	1,520
Clams (meats)	138	38	100	-	27.5	72.5	-	135
Crabs	458	266	192	-	58.1	41.9	-	414
Lobsters	61	47	14	-	77.0	23.0	-	176
Scallops (meats)	41	2	39	-	4.9	95.1	-	140
Shrimp	356	176	180	-	49.4	50.6	-	475
Squid	128	46	82	-	35.9	64.1	-	31

- Represents or rounds to 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 two 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. 1206. 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	613,653
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	2,506	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	49,750	35,525
Freshwater prawns	300	317	267	178	200	1,200	1,698	1,540	893	1,250
Mussels ²	(NA)	917	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	42,797	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	-	1,566	1,687	3,408	7,208
Trout	48,141	49,940	50,600	51,000	56,247	37,474	54,435	55,154	55,590	57,336
Other species	(NA)	9,900	14,000	15,500	³ 17,072	(NA)	9,900	20,000	21,700	³ 53,285

- Represents or rounds to zero. NA Not available. ¹ Not used for food consumption. ² Production is shown in meat weight. ³ Includes 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. 1207. Supply of Selected Fishery Items: 1980 to 1989

[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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Sardines, canned	Canned weight	69	84	67	46	58	76	68	77	63	61
Salmon, canned	Canned weight	126	151	71	127	150	113	87	76	59	159
Tuna, canned	Canned weight	666	698	626	713	777	759	873	866	843	1,034
Clams	Meat weight	102	130	119	126	144	164	162	151	145	150
King crab	Round weight	133	60	28	23	13	11	19	14	10	(NA)
Snow crab	Round weight	54	43	25	30	23	45	49	29	31	(NA)
Crab meat, canned	Canned weight	9	7	7	8	7	8	9	8	8	8
American lobster	Round weight	69	78	81	93	100	108	113	115	121	125
Spiny lobster	Round weight	127	134	127	137	153	154	152	151	139	78
Oysters	Meat weight	71	76	82	81	84	90	91	92	78	68
Scallops	Meat weight	51	72	55	67	87	72	70	81	75	81
Shrimp	Heads-off weight	425	434	458	541	584	633	706	773	767	743

NA Not available.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1208. Canned, Fresh, and Frozen Fishery Products—Production and Value: 1980 to 1989

[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 358]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)				
	1980	1985	1986	1987	1988	1989 ¹	1980	1985	1986	1987	1988 ¹
CANNED											
Total ²	1,516	1,161	1,332	1,186	1,131	1,455	1,928	1,360	1,485	1,562	1,481
Tuna	602	545	637	654	598	686	1,144	821	882	1,015	960
Salmon	200	159	142	105	88	197	376	228	265	262	219
Clam products	77	117	116	117	127	135	66	109	118	88	98
Mackerel ³	38	15	17	15	18	18	12	7	6	6	9
Sardines, Maine	20	20	16	13	19	13	32	38	28	22	24
Shrimp	16	4	5	4	4	3	80	19	23	22	25
Crabs	5	1	1	(Z)	(Z)	1	19	2	2	1	2
Oysters ⁴	(Z)	2	3	4	3	4	(Z)	2	4	2	2
FRESH AND FROZEN											
Fish filets and steaks ⁵	202	246	280	356	378	390	261	440	564	753	767
Cod	31	57	77	78	62	74	43	89	142	165	137
Flounder	49	69	64	58	53	44	87	157	169	168	163
Haddock	17	8	8	9	8	7	29	19	25	32	30
Ocean perch, Atlantic	7	2	3	3	2	2	9	3	6	6	5
Rockfish	14	18	17	18	36	26	13	25	24	27	57
Pollock, Atlantic	9	15	16	18	14	11	9	17	21	30	21
Pollock, Alaska	(NA)	11	24	75	110	131	(NA)	24	25	82	110
Other	74	66	71	97	93	95	71	106	152	243	244

NA Not available. Z Less than 500,000 pounds or \$500,000. ¹ Preliminary. ² Includes other products, not shown separately. ³ Includes Jack and a small amount of Pacific mackerel. ⁴ Includes oyster specialties. ⁵ Fresh and frozen.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual.

No. 1209. Processed Fishery Products—Production and Value: 1980 to 1989[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	1985	1986	1987	1988	1989 ¹	1980	1985	1986	1987	1988	1989 ¹
Total²	(X)	(X)	(X)	(X)	(X)	(X)	4,458	4,936	5,263	5,951	5,829	6,889
Fresh and frozen ³	(X)	(X)	(X)	(X)	(X)	(X)	2,110	3,242	3,481	4,041	3,987	4,517
Fillets	197	232	266	338	356	364	247	408	527	696	696	656
Steaks	5	13	14	18	22	25	14	32	37	58	70	81
Fish sticks	88	96	87	99	80	89	89	111	94	143	114	116
Fish portions	344	330	342	324	301	280	388	368	394	446	439	400
Breaded shrimp	83	95	108	109	99	121	254	355	358	372	293	405
Canned products	1,516	1,161	1,332	1,188	1,131	1,455	1,928	1,360	1,485	1,562	1,481	1,992
Fish and shellfish	1,009	913	1,011	965	908	1,110	1,782	1,269	1,395	1,476	1,388	1,754
Animal food	507	248	321	221	223	345	146	91	100	85	93	238
Industrial products	(X)	(X)	(X)	(X)	(X)	(X)	270	182	175	212	236	206
Meal and scrap	724	722	702	787	644	618	134	84	83	121	131	115
Oil (body and liver)	312	285	337	298	225	225	58	42	44	36	44	24
Solubles	267	323	195	249	223	233	14	19	12	17	15	18
Other	(X)	(X)	(X)	(X)	(X)	(X)	64	37	36	38	47	49

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, *Fisheries of the United States*, annual.**No. 1210. Imports and Exports: 1970 to 1989**[Imports include landings of tuna by foreign vessels at American Samoa. See also *Historical Statistics, Colonial Times to 1970*, series L 227-235]

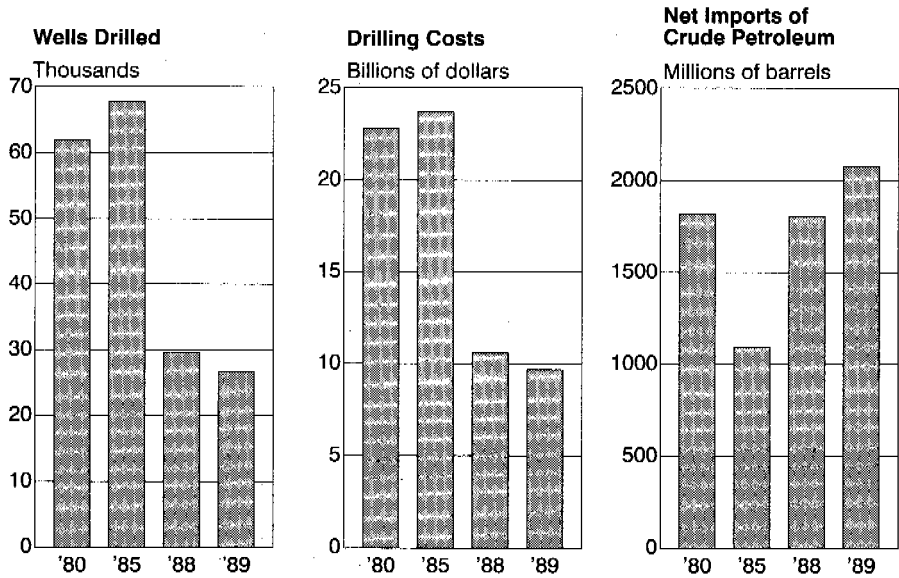
YEAR	IMPORTS					EXPORTS				
	Total U.S. value (mil. dol.)	Fishery products				Total U.S. value (mil. dol.)	Fishery products			
		Total value (mil. dol.)	Edible products		Noned-ible, value (mil. dol.)		Total value (mil. dol.)	Edible products		Noned-ible, value (mil. dol.)
			Quantity (mil. lb.)	Value (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
1985	368,657	7,626	2,979	4,813	2,813	217,304	1,356	735	1,290	66
1987	402,066	8,818	3,201	5,711	3,106	252,866	1,660	783	1,577	83
1988	437,140	8,872	2,968	5,442	3,430	320,385	2,275	1,060	2,156	119
1989, prel	468,012	9,604	3,243	5,498	4,106	363,785	2,470	1,374	2,283	2,424

¹ Record. ² Increase from 1988 due to change in classification of products in new harmonized system; see text, section 29.**No. 1211. Selected Fishery Products—Imports and Exports: 1985 to 1989**[See *Historical Statistics, Colonial Times to 1970*, series L 312-318, for selected imports]

PRODUCT	QUANTITY (mil. lb.)					VALUE (mil. dol.)				
	1985	1986	1987	1988	1989, prel.	1985	1986	1987	1988	1989, prel.
IMPORTS										
Edible¹	2,754.0	2,978.9	3,201.1	2,967.8	3,243.0	4,064.3	4,813.5	5,711.2	5,441.6	5,497.8
Fresh or frozen	2,229.0	2,423.7	2,661.6	2,473.2	2,627.4	3,461.8	4,150.0	5,021.9	4,779.5	4,720.9
Salmon ²	27.0	40.5	41.9	50.1	98.8	75.6	100.7	113.0	155.2	228.9
Tuna	478.8	563.8	572.5	550.1	649.7	266.3	298.8	330.8	372.3	401.7
Groundfish fillets, blocks ⁴	639.8	651.0	630.4	500.8	484.4	655.3	790.6	1,003.5	759.4	702.0
Other fillets and steaks	231.0	251.4	394.2	320.1	252.6	333.7	416.1	651.0	533.0	490.3
Scallops (meats)	42.0	47.9	39.9	32.0	40.9	147.1	192.6	162.3	115.7	139.0
Lobster, American, spiny	77.4	79.3	80.9	77.5	72.1	464.9	464.9	575.9	546.7	453.3
Shrimp and prawn	342.8	384.3	461.2	489.7	491.6	1,120.7	1,404.9	1,676.8	1,726.0	1,684.8
Canned ¹	414.4	438.8	428.7	424.4	532.1	465.8	504.4	515.9	550.9	639.2
Sardines and herring ⁵	39.8	38.0	43.3	37.1	40.1	30.3	30.4	34.2	33.4	33.4
Tuna	213.9	236.6	211.7	244.5	348.2	209.1	228.6	206.9	298.7	375.9
Oysters	28.9	32.1	32.7	27.3	20.4	30.2	32.3	36.1	39.7	36.9
Pickled or salted	57.1	61.4	57.4	55.8	50.5	53.4	62.2	74.6	66.9	54.5
Cod, haddock, hake, pollock, cusk	34.7	36.9	31.9	31.4	16.6	41.2	49.5	60.5	52.7	25.4
Nonedible scrap and meal	510.7	370.0	393.7	265.3	171.1	61.7	47.2	52.5	49.0	31.7
EXPORTS										
Canned salmon	48.2	59.4	35.9	32.9	40.4	83.1	101.2	85.8	91.6	89.7
Fish oil, nonedible	279.1	192.2	249.1	149.3	194.8	36.8	20.8	23.3	21.9	20.2

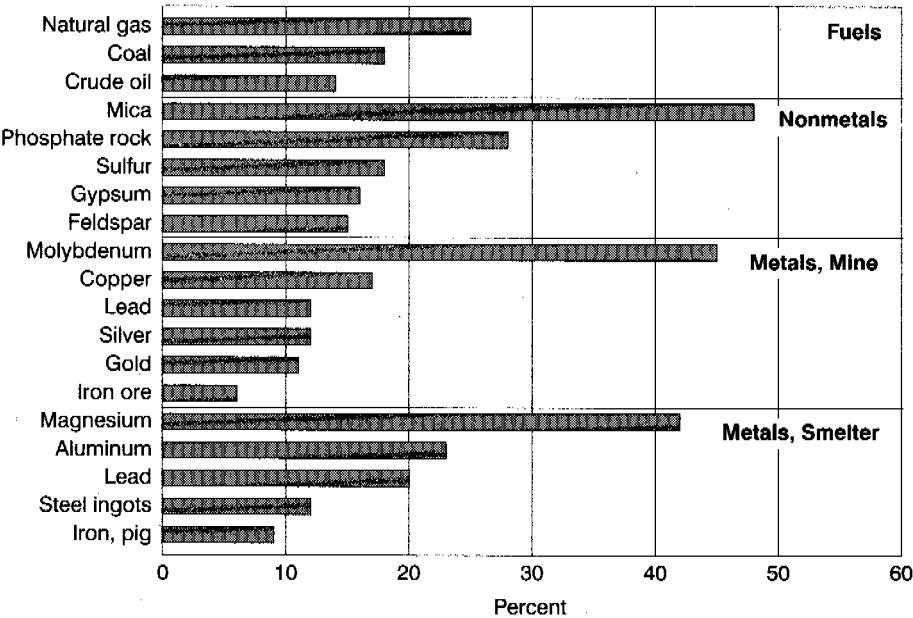
¹ Includes products not shown separately. ² Excludes fillets. ³ Includes landings of tuna by foreign vessels at American Samoa. ⁴ Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting. ⁵ Not in oil.Source of tables 1210 and 1211: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *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 1989**



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1229 and 1232.

Figure 25.2
U.S. Mineral Production as a Percentage of World: 1988



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1222.



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 5th 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 1216. 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. 1212. 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	36,392	38,651	28,579	25,269	31,359	42,241	33,617
With 20 or more employees	Number	6,045	5,499	5,682	5,312	6,632	(NA)	6,299
Including all operations in manufactures	Number	37,966	40,532	29,688	26,178	31,967	42,585	34,041
Excluding oil and gas extraction	Number	19,444	19,290	13,330	11,680	13,520	12,267	10,707
Employees, total	1,000.	734	616	567	595	799	1,114	698
Production workers ¹	1,000.	565	482	433	443	593	762	451
All other	1,000.	169	134	134	152	206	352	247
Worker-hours, production workers	Million	1,081	973	892	909	1,183	1,578	942
Worker-hours 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	21,739
Wages, production workers	Mil. dol.	2,623	2,680	2,888	4,250	9,082	18,030	12,443
Salaries, all other employees	Mil. dol.	1,126	1,063	1,299	1,976	4,085	10,607	9,296
Cost of supplies, etc. ²	Mil. dol.	7,521	8,974	10,576	14,884	46,079	109,697	62,423
Value added in mining	Mil. dol.	13,385	15,910	19,330	26,471	68,013	188,056	110,959
Metal mining	Mil. dol.	1,180	1,418	1,557	2,382	3,504	3,215	4,610
Coal mining	Mil. dol.	1,780	1,727	2,091	3,754	11,266	18,631	17,068
Oil and gas extraction	Mil. dol.	9,033	11,020	13,394	17,612	48,587	159,937	80,049
Nonmetallic minerals mining	Mil. dol.	1,392	1,745	2,288	2,723	4,656	6,273	9,233
Value of shipments and receipts ³	Mil. dol.	16,373	18,804	22,784	36,319	96,375	250,000	157,964
Capital expenditures	Mil. dol.	2,804	3,264	4,058	5,036	17,718	47,753	15,418

NA Not available. ¹ See footnote 4, table 1215. ² Includes purchased machinery installed. ³ See footnote 6, table 1215.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1972, 1977, 1982, and 1987*.

No. 1213. Gross National Product (GNP) in Mining: 1970 to 1988

[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	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Current dollars, total	18.7	41.3	72.7	107.3	143.7	132.1	118.4	119.4	114.2	74.3	77.0	80.4
Percent of total GNP	1.8	2.6	2.9	3.9	4.7	4.2	3.5	3.2	2.8	1.9	1.9	1.6
Metal mining	1.5	1.6	3.3	3.8	3.9	2.3	2.5	2.2	1.8	1.8	2.1	3.0
Coal mining	3.0	9.1	11.4	12.9	13.8	15.1	14.3	14.6	13.9	13.2	12.7	12.7
Oil and gas extraction	12.2	27.4	53.1	84.9	120.8	110.2	96.4	96.4	92.4	52.4	56.3	58.2
Nonmetallic minerals, exc. fuels	1.9	3.2	4.8	5.6	5.2	4.5	5.1	6.2	6.1	6.9	5.9	6.6
Constant (1982) dollars, total	134.5	125.6	142.2	143.5	145.7	132.1	129.9	137.9	139.0	128.3	125.5	127.3
Metal mining	4.0	3.5	2.2	2.1	2.9	2.3	2.2	2.5	2.4	2.6	2.3	2.6
Coal mining	11.2	11.9	11.9	13.9	14.2	15.1	15.5	16.5	16.4	17.0	17.6	19.1
Oil and gas extraction	115.2	105.7	121.7	121.5	123.5	110.2	107.0	112.6	114.1	100.1	100.1	99.5
Nonmetallic minerals, exc. fuels	4.2	4.5	6.3	6.0	5.0	4.5	5.1	6.3	6.1	6.6	5.5	6.2

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. 1214. Mining and Primary Metal Production Indexes: 1970 to 1989

[1987 = 100. See also *Historical Statistics, Colonial Times to 1970*, series M 68-71]

INDUSTRY GROUP	1970	1975	1980	1981	1982	1983	1984	1985	1986	1988	1989
Mining	100.4	98.0	110.0	114.3	109.3	104.8	111.9	109.0	101.0	101.8	100.5
Coal	67.2	71.5	90.2	89.7	91.3	85.4	97.5	96.3	97.1	105.0	105.7
Antracite	274.1	175.0	169.6	152.6	129.0	115.1	116.9	132.8	120.8	115.6	96.3
Bituminous	66.0	71.0	89.7	89.3	91.1	85.2	97.4	96.1	96.9	105.0	105.8
Oil and gas extraction	104.8	101.8	112.1	118.2	114.2	109.3	115.5	111.9	102.0	99.4	99.5
Crude oil and natural gas	122.3	107.5	108.4	107.9	105.1	102.1	106.4	105.0	101.7	99.2	95.6
Oil and gas drilling	65.2	109.7	181.2	241.5	226.5	197.1	226.6	198.9	109.8	100.0	93.7
Metal mining	129.5	106.4	108.8	117.7	87.1	83.5	91.7	91.3	95.2	122.7	141.4
Iron ore	194.4	172.1	149.4	160.7	79.1	82.0	111.0	104.9	84.4	119.8	123.3
Nonferrous ores	111.5	88.7	95.0	103.2	89.9	84.0	84.8	86.4	99.1	123.3	145.1
Copper ore	123.2	101.5	93.1	121.2	90.3	83.0	85.9	86.9	91.2	113.8	118.4
Lead and zinc ores	192.2	189.9	166.7	142.9	156.9	138.1	109.7	120.1	103.3	119.8	130.4
Primary metals, manufacturing	115.2	107.2	110.8	117.5	83.2	91.0	102.4	101.8	93.8	110.3	109.2
Nonferrous metals	77.1	75.3	92.5	96.2	79.6	84.9	98.2	98.5	97.3	105.4	109.0
Copper	135.2	103.0	94.7	113.7	82.5	85.6	97.0	99.8	99.1	113.5	115.5
Aluminum	107.8	105.2	138.7	134.2	97.9	100.1	122.2	104.7	90.9	117.6	120.8
Iron and steel	148.2	133.5	126.0	135.1	86.2	96.1	105.9	104.5	90.8	113.8	109.3

Source: Board of Governors of the Federal Reserve System, *Federal Reserve Bulletin*, monthly.

No. 1215. Mineral Industries—Summary: 1977 to 1987

["N.e.c." means not elsewhere classified. See also *Historical Statistics, Colonial Times to 1970*, series M1-12.]

MINERAL INDUSTRY	1977			1982			1987							Value of ship-ments and re-exports ⁶ (mil. dol.)	Capital ex-pen-ditures (mil. dol.)			
	Estab-lish-ments	All employ-ees, pay-rol ¹ (mil. dol.)	Value added in min- ² ing (mil. dol.)	Establishments	All employees		With 20 or more employ-ees	Total	Num-ber ³ (1,000)	Pay-rol ¹ (mil. dol.)	Production workers ⁴		Value added in min- ² ing (mil. dol.)					
					Num-ber ³ (1,000)	Pay-rol ¹ (mil. dol.)					Hours ⁵ (mil-lions)	Wages ⁵ (mil. dol.)						
All Industries.....	31,359	13,167	68,013	742,241	(NA)	1,114	28,637	186,056	33,617	6,299	698	21,739	451	942	12,443	110,959	157,964	15,418
Metal mining	1,206	1,485	3,504	1,434	(NA)	68	1,860	3,215	1,027	260	44	1,354	34	68	952	4,610	6,852	899
Iron ores.....	97	3	1,046	78	40	12	340	770	157	16	7	224	6	11	166	768	1,382	24
Copper ores.....	133	544	1,067	81	51	22	604	672	61	39	14	405	11	21	283	1,301	2,150	205
Lead and zinc ores.....	88	105	329	71	28	4	112	201	39	19	2	58	1	3	40	176	268	12
Gold and silver ores.....	175	71	161	371	80	10	263	650	372	101	13	423	10	21	305	1,814	2,261	555
Ferromanganese ores, except vanadium.....	56	107	256	69	18	5	150	146	58	10	4	46	1	2	24	61	110	8
Metal mining services.....	270	52	112	313	(NA)	3	61	90	268	42	3	81	2	5	60	176	251	26
Miscellaneous metal ores.....	387	234	533	451	91	12	332	686	178	42	4	116	3	5	75	313	449	70
Coal mining	5,451	4,171	11,266	5,087	(NA)	251	6,805	18,631	3,905	1,418	163	5,567	129	259	4,251	17,068	25,955	1,865
Bituminous coal and lignite mining.....	4,944	4,005	10,837	4,513	1,787	241	6,570	18,041	3,507	1,335	158	5,410	124	249	4,125	16,679	25,347	1,614
Anthracite mining.....	156	48	116	152	40	3	67	172	291	26	7	116	2	3	32	109	206	39
Coal mining services.....	351	119	313	422	(NA)	7	168	418	291	57	4	116	3	7	94	280	402	12
Oil and gas extraction.....	18,447	5,902	48,587	29,974	(NA)	685	17,693	158,937	22,810	3,167	378	11,961	206	437	5,283	80,049	112,363	11,717
Crude petroleum and natural gas.....	8,573	2,738	38,327	12,087	(NA)	264	8,084	126,035	10,303	1,170	199	7,510	69	142	2,154	67,955	76,518	10,549
Natural gas liquids.....	892	227	3,286	793	236	14	402	865	11,983	120	13	433	10	20	320	4,025	24,750	383
Oil and gas field services.....	9,182	2,936	6,974	17,094	(NA)	406	9,207	25,037	11,893	1786	167	4,018	127	275	2,809	8,069	11,095	786
Drilling oil and gas wells.....	2,625	1,317	3,307	4,385	(NA)	166	4,007	11,316	2,591	620	55	1,318	46	93	1,012	2,549	3,626	321
Oil, gas exploratn serv's.....	1,252	220	545	2,934	(NA)	42	810	2,307	1,917	143	17	452	13	27	311	771	1,096	69
Oil, gas field services, n.e.c.....	5,305	1,399	3,122	9,775	(NA)	199	4,391	11,415	7,485	1,023	95	2,245	69	154	1,486	4,748	6,373	395
Nonmetallic minerals	6,525	1,609	4,656	5,746	(NA)	110	2,278	6,273	5,775	1,454	113	2,858	83	178	1,956	9,233	12,795	1,136
Dimension stone ⁸	209	19	39	154	22	21	50	14	307	19	1	25	1	2	18	65	86	4
Crushed and broken stone ⁹	2,055	543	1,501	1,932	567	37	701	1,787	2,002	71	44	1,082	33	72	754	3,465	4,768	521
Sand and gravel.....	2,807	418	1,017	2,758	343	28	520	1,336	2,320	436	33	772	24	51	551	2,320	3,139	238
Clay and related minerals ⁹	255	136	358	224	97	11	212	510	197	100	10	272	7	15	165	827	1,472	111
Chemical and fertilizer minerals.....	205	372	1,433	196	114	26	681	178	148	79	16	501	12	24	336	1,999	2,742	192
Nonmetallic minerals, services.....	176	36	70	167	(NA)	2	35	70	177	23	3	45	1	3	32	119	165	25
Miscellaneous.....	548	87	238	315	72	6	109	283	352	86	7	162	3	5	101	438	616	46

NA Not available. ¹ Gross earnings paid to all employees on payroll. ² Computed by subtracting cost of supplies, materials received for preparation, purchased fuel and electric energy, contract work, and purchased machinery from the value of shipments and capital expenditures. ³ Excludes proprietors and firm members of unincorporated concerns. ⁴ Represents employees up through the working foreign level engaged in manual work. Includes development and exploration workers. ⁵ Excludes paid vacations, holidays, and sick leave. Includes actual overtime hours (not straight-time equivalent). ⁶ Represents 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. ⁷ Redefined to conform to 1987 and pre-1982 definition of establishment; for detail, see source. 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, 1982, and 1987*, final industry series reports.

No. 1216. Mineral Production and Value, 1980 to 1988,

[Data represent production as measured by mine shipments, mine sales, or marketable production]

	MINERAL	PRODUCTION QUANTITY							
		Unit	1980	1983	1984	1985	1986	1987	1988
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	Mill. sh. ton.	824	778	892	879	886	915	947
4	Pennsylvania anthracite	Mill. sh. ton.	6	4	4	5	4	4	4
5	Natural gas (wet)	Tril. cu. ft.	20.18	16.82	18.23	17.20	16.79	17.35	17.81
6	Petroleum ² (crude)	Mill. bbl. ¹	3,146	3,171	3,250	3,274	3,168	3,047	2,983
7	Uranium	Mill. lb.	43.7	21.2	14.9	11.3	13.5	13.0	13.1
8	Industrial minerals	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
9	Abrasive stone ³	Sh. ton	631	1,101	1,290	1,157	(D)	12,773	14,675
10	Asbestos	1,000 metric ton	(NA)	(NA)	(NA)	57	51	51	51
11	Asphalt and related bitumens (native) ⁴	1,000 sh. ton	1,252	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Barite	1,000 sh. ton	2,245	754	775	739	297	448	445
13	Boron minerals	1,000 sh. ton	1,545	1,303	1,367	1,269	1,251	1,385	1,267
14	Bromine	Mill. lb.	378	370	385	320	310	33	360
15	Calcium chloride	1,000 sh. ton	581	(D)	838	(D)	(D)	(D)	(D)
16	Carbon dioxide, natural (estimate)	Mill. cu. ft.	1,628	-	-	-	-	-	-
17	Cement: Portland	Mill. sh. ton.	71.6	67.2	74.4	74.3	75.2	74.9	74.1
18	Masonry	Mill. sh. ton.	3.0	2.9	3.3	3.2	3.5	3.7	3.6
19	Clays	Mill. sh. ton.	48.8	40.9	43.7	45.0	44.6	47.7	49.1
20	Diatomite	1,000 sh. ton	689	619	627	635	628	658	693
21	Feldspar	1,000 sh. ton	710	710	710	700	735	720	715
22	Fluorspar	1,000 sh. ton	93	61	72	66	78	69	(D)
23	Garnet (abrasive)	1,000 sh. ton	26.9	29.8	29.6	36.7	32.3	42.3	46.9
24	Gem stones (estimate)	(X)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
25	Gypsum	Mill. sh. ton.	12.4	12.9	14.3	14.4	15.4	15.6	13.4
26	Helium ⁶	Mill. cu. ft.	1,458	1,299	1,642	1,865	1,941	2,230	2,574
27	Lime	Mill. sh. ton.	19.0	14.9	15.9	15.7	14.5	15.7	17.3
28	Magnesium compounds ⁷	1,000 sh. ton	(D)	618	(D)	(D)	(D)	(D)	(D)
29	Mica: Scrap	1,000 sh. ton	116	140	161	138	148	161	143
30	Peat	1,000 sh. ton	788	725	814	882	1,038	958	929
31	Perlite	1,000 sh. ton	638	474	498	507	507	533	576
32	Phosphate rock	Mill. metric ton	(NA)	(NA)	(NA)	50.8	40.3	41.0	45.4
33	Potassium salts (K ₂ O equivalent)	1,000 metric ton	(NA)	(NA)	(NA)	1,266	1,147	1,485	1,427
34	Pumice	1,000 sh. ton	543	449	502	508	554	392	389
35	Pyrites	1,000 lg. ton	834	(D)	(D)	(D)	(D)	(D)	(D)
36	Salt (common)	Mill. sh. ton.	40.4	34.6	39.2	40.1	36.7	36.5	38.0
37	Sand and gravel	Mill. sh. ton.	793	682	803	830	910	924	952
38	Sodium carbonate (natural)	1,000 sh. ton	(D)	(D)	(D)	(D)	(D)	(D)	9,632
39	Sodium sulfate (natural)	1,000 sh. ton	583	423	435	389	396	382	398
40	Stone ⁸	Mill. sh. ton.	982	863	957	1,002	1,024	1,201	1,249
41	Sulfur: Frasch mines (shipments)	1,000 metric ton	(NA)	(NA)	(NA)	4,678	4,180	3,610	4,341
42	Talc, soapstone, pyrophyllite	1,000 sh. ton	1,473	1,066	1,127	1,269	1,302	1,282	1,377
43	Tripoli	1,000 sh. ton	121	111	124	(D)	117	115	110
44	Vermiculite	1,000 sh. ton	337	282	315	314	317	303	304
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	760	505	(D)	(D)	(D)	(D)
48	Bauxite (dried)	1,000 metric ton ¹²	1,559	679	856	674	510	576	588
49	Copper ²	1,000 metric ton	1,181	1,038	1,103	1,106	1,147	1,244	1,420
50	Gold ²	1,000 troy oz.	970	2,003	2,085	2,427	3,739	4,947	6,460
51	Iron ore, ¹³	Mill. metric tons ¹⁴	70.7	45.3	51.7	50.2	42.0	48.0	57.1
52	Lead ²	1,000 metric ton	550	449	322	414	340	311	385
53	Manganiferous ore ¹⁵	1,000 sh. ton ¹⁴	174	34	88	20	14	(D)	(D)
54	Mercury	76 lb. flasks	30,657	25,070	19,048	16,530	(D)	(D)	(D)
55	Molybdenum ¹⁶	Mill. lb.	149	49	102	112	95	70	100
56	Nickel ¹⁷	1,000 sh. ton	11	(NA)	10	6	2	-	-
57	Silver ²	Mill. troy oz.	32.3	43.4	44.6	39.4	34.5	39.9	53.4
58	Titanium concentrate: Ilmenite ²	1,000 metric ton ¹⁴	539	(D)	(D)	(D)	(D)	(D)	(D)
59	Tungsten ore and concentrate	Metric ton ¹⁸	(NA)	(NA)	(NA)	983	817	(D)	(D)
60	Vanadium ²	Sh. ton	4,806	2,171	1,617	(D)	(D)	(D)	(D)
61	Zinc mine production ²	1,000 metric ton	317	275	253	227	203	216	244
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, 1988

(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, 1988	
1980	1983	1984	1985	1986	1987	1988		
146,750	168,868.4	179,201.0	167,978.5	117,265.7	123,808.2	(X)	(X)	1
121,616.0	147,748.4	156,040.0	144,671.5	93,801.7	97,462.2	88,897.2	(X)	2
20,200	20,110.0	22,749.8	22,062.9	21,000.6	21,049.6	20,830.0	WY, KY, WV, PA, IL	3
260	210.0	202.5	215.3	189.6	155.4	157.0	PA	4
32,090	43,570.0	48,491.8	43,167.0	32,574.5	28,888.6	30,096.0	TX, LA, OK, NM.	5
67,930	83,050.0	84,110.0	78,870.7	39,631.7	46,929.6	37,477.4	AK, TX, CA, LA, OK.	6
1,136	808.4	485.9	355.6	405.3	355.5	336.8	WY, NM, TX.	7
16,213.0	15,263.0	17,157.0	17,678.0	17,847.0	18,894.0	19,803.0	(X)	8
1.9	0.5	0.6	0.5	(D)	1.0	1.1	OH, AR, IN, WI.	9
30.6	27.9	24.2	20.5	17.4	17.2	(D)	CA and VT.	10
25	(⁵)	(⁵)	(⁵)	(NA)	(NA)	(NA)	(NA)	11
66	29.2	25.4	21.5	12.3	15.8	15.5	NV, GA, MO, CA.	12
366.8	439.2	456.7	404.8	426.1	475.1	429.7	CA.	13
95.4	91.0	95.0	80.0	93.0	107.0	144.0	AR and MI.	14
47.9	(⁵)	93.0	(⁵)	(⁵)	(⁵)	(⁵)	MI, CA, WA.	15
2.6	-	-	-	(NA)	(NA)	(NA)	(X)	16
3,613.3	3,315.7	3,810.4	3,817.3	3,759.9	3,646.6	3,575.9	CA, TX, PA, MI.	17
188.5	186.2	219.9	213.1	231.6	259.9	243.9	FL, IN, PA, AL	18
898.9	931.1	1,032.1	1,011.4	1,095.2	1,202.3	1,400.8	GA, OH, NC, TX.	19
100.6	114.3	120.9	127.0	128.4	134.2	143.8	CA, NV, WA, OR.	20
23.2	22.5	23.5	22.8	26.1	26.1	28.1	NC, CT, CA, GA.	21
12.6	10.0	(⁵)	(D)	(D)	11.7	(D)	IL and NV.	22
1.9	2.5	2.5	3.0	2.6	4.4	4.7	ID, NY, ME.	23
6.9	7.4	7.5	7.4	9.2	21.4	43.5	(X)	24
103.1	101.4	113.7	111.8	99.6	107.0	109.2	OK, IA, MI, TX.	25
30.2	45.5	61.6	69.9	72.8	82.5	95.2	KS, WY, TX, NM.	26
842.9	757.6	811.2	809.0	757.9	786.1	828.0	OH, MO, PA, KY.	27
(⁵)	182.5	(⁵)	(⁵)	(⁵)	(⁵)	(⁵)	MI, CA, UT, DE.	28
6.3	6.5	7.1	6.3	7.1	8.2	6.8	NC, SD, GA, SC.	29
16.2	18.7	19.9	21.9	24.0	21.0	19.9	MI, FL, IN, IL	30
16.5	15.7	16.6	17.2	15.6	16.5	17.7	NM, AZ, CA, ID.	31
1,256.9	1,021.1	1,182.2	1,235.8	897.1	793.3	887.8	FL, NC, ID, UT.	32
(NA)	(NA)	(NA)	178.4	152.0	195.7	240.3	NM, UT, CA.	33
4.3	4.5	4.9	4.6	5.8	4.5	4.1	OR, NM, ID, CA.	34
13.8	(⁵)	(⁵)	(⁵)	(⁵)	(⁵)	(⁵)	AZ.	35
656.2	597.1	675.1	739.6	665.4	684.2	680.2	LA, TX, NY, OH.	36
2,289.0	2,270.2	2,621.2	2,812.1	3,106.5	3,366.6	3,514.0	CA, TX, MI, AZ.	37
(⁵)	(⁵)	(⁵)	(⁵)	(⁵)	593.7	645.0	WY and CA.	38
36.4	39.4	40.1	35.9	34.1	33.1	31.4	CA, TX, UT.	39
3,393.5	3,474.8	3,917.5	4,225.4	4,228.3	5,438.8	5,754.3	PA, FL, TX, VA.	40
720.5	414.2	546.1	573.6	508.5	386.8	430.8	TX and LA.	41
25.6	20.3	23.2	29.2	31.2	28.9	29.4	MT, VT, TX, NY.	42
0.7	0.7	(D)	(D)	0.9	1.0	0.9	IL, OK, AR, PA.	43
23.5	27.2	31.5	32.4	34.4	33.9	33.9	SC, MT, VA.	44
941.2	867.5	937.9	1,046.0	994.4	374.8	442.6	(X)	45
8,921.0	5,857.0	6,004.0	5,629.0	5,824.0	7,423.0	10,219.0	(X)	46
(¹¹)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	(NA)	(NA)	(X)	47
22.4	11.3	15.6	12.9	10.4	10.9	10.6	AR, AL, GA.	48
2,666.9	1,751.5	1,625.1	1,632.5	1,670.7	2,261.8	3,771.6	AZ, NM, VT, MT.	49
594.1	849.1	751.8	771.0	1,376.9	2,216.0	2,831.3	NV, CA, SD, UT.	50
2,544.1	1,945.0	2,247.7	2,076.7	1,472.5	1,503.1	1,716.7	MN, MI, MO, UT.	51
515.2	214.7	181.7	174.0	165.2	246.7	315.2	MO, ID, CO, MT.	52
2.4	0.2	0.9	(D)	(D)	(D)	(D)	SC.	53
11.9	(¹¹)	(¹¹)	(D)	(D)	(D)	(D)	NV, UT, CA.	54
1,344.2	166.6	326.8	347.8	240.5	179.3	266.9	AZ, CO, MT, VT.	55
(¹¹)	-	(¹¹)	(D)	(D)	-	-	(X)	56
667.3	496.9	363.0	242.2	188.8	279.7	349.3	NV, ID, MT, AZ.	57
32	(¹¹)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	FL.	58
50.6	10.5	13.4	9.1	5.8	(D)	(D)	CA.	59
64.4	30.7	(¹¹)	(¹¹)	(¹¹)	(¹¹)	(¹¹)	ID, CO, UT.	60
261.7	251.2	270.8	201.6	170.1	199.9	324.2	TN, NY, MO, MT.	61
144.8	135.6	2,428.0	2,234.9	1,562.6	1,636.7	159.4	(X)	62

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 manganiferous 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. 1217. Nonfuel Mineral Commodities—Summary: 1989

[Preliminary estimates]

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	5,100	1,500	(²)	5,100	³ 89.0	23,600
Antimony	Metric ton	⁴ 37,600	2,600	60	39,500	⁵ 99.0	100
Arsenic	Metric ton	-	(NA)	100	24,000	⁶ 243.0	(NA)
Asbestos	1,000 metric ton	17	23	65	48	(D)	58
Barite	1,000 sh. ton	387	9	77	1,678	40.91	400
Bauxite	1,000 metric ton	615	60	97	4,800	15-20	50
Beryllium	Metric ton	205	20	23	260	⁷ 225	425
Bismuth	Metric ton	(D)	120	(D)	7,400	5.56	30
Boron (B ₂ O ₃ content)	1,000 sh. ton	620	700	(²)	286	247	1,100
Bromine	Mil. lb	380	28	(²)	376	⁸ 43-46	300
Cadmium	Metric ton	1,750	500	(²)	4,000	⁹ 6.35	190
Cement	1,000 sh. ton	77,800	500	17	92,000	50.00	19,900
Cesium	Kilograms	(D)	(NA)	100	(NA)	¹⁰ 275-325	25
Chromium	1,000 metric ton ¹¹	113	16	79	540	¹¹ 200	-
Clays	1,000 sh. ton	50,220	4,000	(²)	46,250	-	11,200
Columbium	1,000 lb	-	90	100	7,600	¹² 2.65	450
Copper (Mine)	1,000 metric ton	3,480	640	9	2,250	¹³ 32.0	13,000
Diamond (industrial)	Mil. carats	97.3	70.0	(²)	82.9	¹⁴ 1.00	-
Diatomite	1,000 sh. ton	695	162	(²)	534	36	1,000
Feldspar	1,000 sh. ton	730	12	(²)	731	37.00	450
Fluorspar	1,000 sh. ton	170	3	91	760	-	180
Gallium	Kilograms	-	(NA)	(NA)	(NA)	525	20
Garnet (industrial)	Sh. ton	43,920	8,800	(²)	40,070	60-2,000	150
Gem stones	Mil. dol	59.7	1,178	99	4,430	(¹⁵)	800
Germanium	Kilograms	20,000	(NA)	(NA)	36,000	1,060	(NA)
Gold (gold content)	Metric tons	5,800	190.0	(NA)	130.0	¹⁶ 385.00	15,000
Graphite	1,000 sh. ton	(D)	9	(D)	(D)	¹⁷ 720	(D)
Gypsum	1,000 sh. ton	35,000	160	37	27,000	7.00	6,800
Indium	Kilograms	(NA)	(NA)	(NA)	25,000	¹⁸ 8.72	(NA)
Iodine	1,000 lb	2,900	4.7	56	8,500	8.62	50
Iron ore	Mil. metric ton	58.7	5.5	20	72.8	¹⁹ 58.0-74.0	7,400
Iron and steel scrap	Mil. sh. ton	84.5	11.8	(²)	73.8	108.66	110,000
Iron and steel slag	1,000 sh. ton	22,000	300	(NA)	(NA)	5.50	3,000
Lead	1,000 metric ton	845	60	8	1,210	²⁰ 40.0	4,300
Lime	1,000 sh. ton	17,100	32	1	17,254	48.00	5,500
Magnesium metal	1,000 metric ton	150	57	(²)	135	²¹ 1.63	450
Magnesium compounds	1,000 metric ton	625	20	20	780	-	650
Manganese	1,000 sh. ton	-	85	100	740	2.85	-
Mercury	Metric ton	170	250	(D)	(D)	²² 285.00	20
Mica, scrap and flake	1,000 sh. ton	258	6	7	127	47.00	80
Molybdenum	1,000 lb	140,000	95,000	(²)	51,000	3.65	1,300
Nickel	Sh. ton	750	27,500	65	160,000	6.30	250
Nitrogen	1,000 sh. ton	13,800	600	14	16,120	85.00	2,500
Peat	1,000 sh. ton	870	-	41	1,463	21.00	720
Perlite	1,000 sh. ton	589	25	4	614	31.06	125
Phosphate rock	1,000 metric ton	51,000	9,000	(²)	42,700	19.50	6,000
Platinum-group metals	Kilograms	51,010	23,800	94	70,300	510.00	400
Potash	1,000 metric ton	1,540	400	72	5,480	130.00	1,820
Pumice and pumicite	1,000 sh. ton	396	3	43	693	13.37	55
Rare-earth metals	Metric ton	14,000	(NA)	(NA)	(NA)	²³ 20-20	330
Salt	1,000 sh. ton	39,400	1,300	8	42,800	²⁴ 93.50	4,200
Sand and gravel:							
Construction	1,000 sh. ton	888,000	1,000	(²)	887,400	3.64	35,500
Industrial	1,000 sh. ton	28,300	900	(²)	27,500	13.60	1,600
Silicon	1,000 sh. ton	470	35	23	609	51.40	2,700
Silver	Metric ton	4,260	1,060	(²)	310	²⁵ 5.55	2,300
Sodium carbonate	1,000 sh. ton	9,775	2,700	(²)	7,219	93.00	2,800
Sodium sulfate	1,000 sh. ton	800	60	16	949	117.00	300
Stone (crushed)	Mil. sh. ton	1,220	3	-	1,221	4.38	69,000
Sulfur (all forms)	1,000 metric ton	11,725	850	8	12,725	88.00	3,300

- Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. ¹ Net import reliance as a percent of consumption. ² Net exporter. ³ Average cents per pound. ⁴ Refinery production. ⁵ Metal, 99% As₂O₃. ⁶ Metal, vacuum-cast ingot. ⁷ Reported consumption. ⁸ Average dollars per pound, 1 to 5 short ton lots. ⁹ Metal, dollars per pound. ¹⁰ Secondary production. ¹¹ Turkish, dollars per metric ton. ¹² Columbite, dollars per pound. ¹³ Domestic producer cathode, cents per pound. ¹⁴ Dollars, per carat. ¹⁵ Variable, depending on size, type and quality. ¹⁶ Dollars, per ounce. ¹⁷ Flake. ¹⁸ Dollars, per troy oz. ¹⁹ Cents per long ton. ²⁰ Primary. ²¹ Dollars per pound. ²² Prices per flask. ²³ Represents range of values. ²⁴ Vacuum and open pit.

Source: U.S. Bureau of Mines, *Mineral Commodity Summaries*, annual.

No. 1218. Value of Domestic Nonfuel Mineral Production: 1980 to 1988

(In millions of dollars. For composition of regions see fig. 1, inside front cover)

STATE	1980	1985	1986	1987	1988	Principal minerals in order of value
U.S.	25,141	23,303	23,459	26,306	30,015	(X)
AL.	328	407	405	447	459	Cement, crushed stone, lime.
AK.	115	90	91	141	119	Gold, sand and gravel, crushed stone.
AZ.	2,471	1,550	1,560	1,750	2,773	Copper, molybdenum, sand and gravel.
AR.	293	270	283	264	307	Bromine, crushed stone, cement.
CA.	1,872	2,112	2,269	2,551	2,709	Sand and gravel, cement, boron minerals.
CO.	1,265	408	370	373	364	Molybdenum, gold, sand and gravel.
CT.	66	72	80	122	118	Crushed stone, sand and gravel, feldspar.
DE.	2	4	4	6	6	Magnesium compounds, sand and gravel, marl.
FL.	1,509	1,562	1,290	1,346	1,392	Phosphate rock, crushed stone, cement.
GA.	771	946	1,091	1,212	1,374	Clays, crushed stone, cement.
HI.	60	53	70	73	75	Crushed stone, cement, sand and gravel.
ID.	522	359	274	269	291	Phosphate rock, silver, gold.
IL.	443	460	470	517	588	Crushed stone, cement, sand and gravel.
IN.	288	303	305	364	406	Crushed stone, cement, sand and gravel.
IA.	252	228	249	305	290	Crushed stone, cement, sand and gravel.
KS.	262	322	318	320	292	Cement, crushed stone, salt.
KY.	204	268	267	290	345	Lime, cement, sand and gravel.
LA.	584	521	447	424	435	Sulfur (Frasch), salt, sand and gravel.
ME.	37	41	53	65	68	Sand and gravel, cement, dimension stone.
MD.	186	258	313	345	363	Crushed stone, sand and gravel, cement.
MA.	91	117	134	177	192	Crushed stone, sand and gravel, dimension stone.
MI.	1,485	1,387	1,240	1,366	1,588	Iron ore, cement, sand and gravel.
MN.	1,782	1,548	1,128	1,143	1,267	Iron ore, sand and gravel, crushed stone.
MS.	104	103	101	110	103	Sand and gravel, clays, cement.
MO.	1,055	735	749	863	968	Lead, cement, crushed stone.
MT.	280	200	238	368	548	Copper, gold platinum - group metals.
NE.	80	100	94	90	91	Cement, sand and gravel, crushed stone.
NV.	394	631	977	1,447	1,945	Gold, silver, sand and gravel.
NH.	25	33	39	55	53	Sand and gravel, dimension stone, crushed stone.
NJ.	149	178	186	214	242	Crushed stone, sand and gravel, zircon concentrates.
NM.	766	657	612	738	1,019	Copper, potassium salts, sand and gravel.
NY.	496	657	678	650	696	Crushed stone, cement, salt.
NC.	380	466	467	477	529	Crushed stone, phosphate rock, lithium minerals.
ND.	22	24	21	26	19	Sand and gravel, lime, salt.
OH.	562	594	610	769	737	Crushed stone, sand and gravel, salt.
OK.	224	252	247	223	220	Crushed stone, cement, sand and gravel.
OR.	152	130	126	161	178	Crushed stone, sand and gravel, cement.
PA.	668	804	843	1,016	1,042	Crushed stone, cement, sand and gravel.
RI.	6	12	14	19	17	Crushed stone, sand and gravel, gem stones.
SC.	195	276	296	341	358	Cement, crushed stone, clays.
SD.	228	208	233	263	286	Gold, cement, crushed stone.
TN.	394	473	476	528	586	Crushed stone, zinc, cement.
TX.	1,735	1,737	1,712	1,431	1,469	Cement, crushed stone, magnesium metal.
UT.	764	313	374	700	1,015	Copper, gold, magnesium metal.
VT.	43	50	55	73	77	Dimension stone, crushed stone, sand and gravel.
VA.	305	381	393	461	495	Crushed stone, sand and gravel, cement.
WA.	207	222	377	438	459	Magnesium metal, gold, sand and gravel.
WV.	106	105	130	144	127	Crushed stone, cement, sand and gravel.
WI.	152	125	165	186	205	Crushed stone, sand and gravel, lime.
WY.	761	551	555	645	710	Natural sodium carbonate, clays, grade-A helium.

X Not applicable. ¹ Partial data only.Source: U.S. Bureau of the Census. Compiled from data from U.S. Bureau of Mines, *Minerals Yearbook*, annual.

No. 1219. Mineral Industries—Gross Assets and Capital Expenditures: 1972 to 1987

[In millions of dollars]

INDUSTRY AND YEAR	END OF YEAR GROSS VALUE OF DEPRECIABLE ASSETS					CAPITAL EXPENDITURES					
	Total ¹	Build- ings and other struc- tures	Mach- inery and equip- ment	Mineral explora- tion and develop- ment ¹	Mineral land and rights ¹	Total ²	New build- ings and other struc- tures	New mach- inery and equip- ment	Used build- ings and other struc- tures	Used mach- inery and equip- ment	Mineral explora- tion and develop- ment ²
Mineral industries: ³											
1972	21,690	4,244	15,038	(⁴)	4,209	2,802	317	1,407	(⁴)	4128	230
1977	44,664	6,099	33,068	2,625	2,871	6,802	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
1987	84,286	9,314	64,143	5,034	5,795	4,869	349	3,234	88	797	401
Crude oil, nat. 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	1,967	5,550	20	215	26,529
1987	(NA)	(NA)	(NA)	(NA)	(NA)	10,549	590	3,176	18	218	6,548

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, 1987*.**No. 1220. Mineral Industries—Employment, Hours, and Earnings: 1985 to 1989**

ITEM	Unit	1985	1987	1988	1989	ITEM	Unit	1985	1987	1988	1989
All mining:						Avg. weekly hours . .	No . . .	44.2	41.7	41.3	42
All employees	1,000	927	717	713	700	Avg. weekly earnings . .	Dol . . .	489	481	489	524
Production workers	1,000	658	511	512	499	Metal mining:					
Avg. weekly hours	No . . .	43.4	42.4	42.3	43.0	All employees	1,000	46	44	50	57
Avg. weekly earnings	Dol . . .	520	532	541	570	Production workers	1,000	34	33	39	45
Coal mining:						Avg. weekly hours	No . . .	40.9	41.9	42.3	42.8
All employees	1,000	187	162	151	146	Avg. weekly earnings	Dol . . .	547	542	560	582
Production workers	1,000	153	132	123	118	Nonmetallic minerals,					
Avg. weekly hours	No . . .	41.3	42.2	42.2	43.4	except fuels:					
Avg. weekly earnings	Dol . . .	626	662	676	705	All employees	1,000	110	110	112	112
Oil and gas extraction:						Production workers	1,000	84	85	85	85
All employees	1,000	583	402	401	386	Avg. weekly hours	No . . .	44.5	45.4	45.5	45.7
Production workers	1,000	387	261	265	252	Avg. weekly earnings	Dol . . .	453	481	498	514

Source: U.S. Bureau of Labor Statistics, *Bulletin 2370 and Employment and Earnings*, monthly.**No. 1221. Selected Mineral Products—Average Prices: 1970 to 1989**

[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, electro- lytic ² (cents per lb.)	Plat- inum 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 (dol./ metric ton)	Bitumi- nous coal ⁸ (dol./ short ton)	Crude petro- leum ⁹ (dol./ bbl.)	Natural gas ¹⁰ (dol./ 1,000 cu. ft.)
1970	9.15	58.2	133	36	1.77	15.7	174.2	15.3	922.77	6.26	3.18	0.17
1975	18.32	64.2	164	161	4.42	21.5	339.8	39.0	944.91	19.23	7.67	0.45
1976	20.31	69.6	162	125	4.35	23.1	379.8	37.1	945.72	19.43	8.19	0.58
1977	25.64	66.8	162	148	4.62	30.7	534.6	34.4	944.38	19.82	8.57	0.79
1978	34.19	66.5	237	194	5.40	33.7	629.6	31.0	45.17	21.78	9.00	0.91
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	47.37	120.5	600	438	6.54	37.1	441.4	60.2	85.95	22.00	12.58	1.69
1989, prel.	44.93	132.0	600	385	5.55	40.0	536.0	83.0	88.0	21.00	15.85	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. 1222. Principal Fuels, Nonmetals, and Metals—U.S. Production as Percent of World Production: 1980 to 1988

MINERAL	WORLD PRODUCTION					PERCENT U.S. OF WORLD			
	Unit	1980	1985	1987	1988	1980	1985	1987	1988
Fuels: ¹									
Coal	Bil. sh. ton	4.2	4.8	5.1	5.2	20	18	18	18
Petroleum (crude)	Bil. bbl	21.7	19.6	20.6	21.4	15	17	15	14
Natural gas (dry, marketable)	Tril. cu. ft	53.1	62.0	66.2	67.7	37	26	25	24
Natural gas plant liquids	Bil. bbl	1.4	1.5	1.7	1.8	43	38	34	34
Nonmetals:									
Asbestos	Mil. metric ton	5	4	4	4	2	1	1	(Z)
Barite	Mil. short ton	8.3	6.6	5.1	5.8	27	11	9	8
Feldspar	Mil. short ton	3.5	4.5	4.5	4.7	20	16	15	15
Fluorspar	Mil. short ton	5.3	5.4	5.2	5.7	2	1	1	1
Gypsum	Mil. short ton	86.5	94.3	98.9	104.9	13	15	16	16
Mica (incl. scrap)	1,000 short ton	251.0	280.0	327.0	263.0	46	49	50	48
Nitrogen, agricultural ²	Mil. short ton	81.4	98.9	102.7	109.0	20	13	13	13
Phosphate rock	Mil. metric ton	139	149	145	164	39	34	28	28
Potash	Mil. metric ton	28	29	30	31	8	4	4	5
Sulfur, elemental	Mil. metric ton	55	54	54	58	22	21	19	18
Metals, mine basis:									
Bauxite	Mil. metric ton	89	85	90	98	2	1	1	1
Columbian concentrates (columbian content)	Mil. lb.	33.4	32.7	20.6	37.0	-	-	-	-
Copper ³	Mil. metric ton	8	8	8	9	15	14	15	17
Gold	Mil. troy oz	39.2	49.2	53.3	59.4	2	5	9	11
Iron ore	Mil. metric ton	891	861	889	905	8	6	5	6
Lead ³	1,000 metric ton	4	3	3	3	16	12	9	12
Mercury	1,000 flasks ⁴	197	178	169	171	16	8	(NA)	(NA)
Molybdenum ³	Mil. lb.	242	217	197	208	62	50	38	45
Nickel ³	1,000 short ton	859	896	910	961	2	(Z)	-	-
Silver	Mil. troy oz	344	420	442	455	9	9	9	12
Tantalum concentrates (tantalum content)	Mil. lb.	1.2	0.7	0.6	0.8	-	-	-	-
Titanium concentrates:									
Ilmenite	Mil. short ton	4.1	3.4	3.9	4.0	14	(NA)	(NA)	(NA)
Tungsten	1,000 metric ton	52	47	42	43	5	2	(Z)	(NA)
Vanadium ³	1,000 short ton	38.3	33.3	31.3	33.7	13	(NA)	(NA)	(NA)
Zinc ³	Mil. metric ton	6	7	7	7	5	4	3	4
Metals, smelter basis:									
Aluminum	1,000 metric ton	15	15	16	18	30	23	20	23
Cadmium	Metric ton	40	42	42	41	9	9	8	10
Copper	Mil. metric ton	8	9	9	9	13	14	14	15
Iron, pig (incl. ferroalloys)	Mil. short ton	565	572	583	611	12	9	9	9
Lead	1,000 metric ton	5	6	6	6	23	20	19	20
Magnesium	1,000 short ton	348	362	324	334	49	41	38	42
Steel ingots and castings	Mil. short ton	787	790	808	806	14	11	11	12
Tin	1,000 metric ton	249	198	189	215	1	2	2	1
Zinc	1,000 metric ton	6	7	7	7	6	5	5	5

- Represents zero. NA Not available. Z Less than half the unit of measure. 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. 1223. Federal Strategic and Critical Materials Inventory: 1980 to 1989

[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	QUANTITY ¹					VALUE (mil. dol.)			
	Unit	1980	1985	1988	1989	1980	1985	1988	1989
Tin	1,000 metric ton.	200	185	174	171	3,158	2,324	1,316	1,182
Silver	1,000 troy oz.	139,500	136,006	104,921	98,174	2,288	801	640	543
Cobalt	Mil. lb.	41	53	53	53	1,020	590	398	406
Bauxite ²	1,000 lg. ton	14,333	17,957	18,031	18,031	583	871	888	888
Manganese ³	1,000 sh. ton	5,130	4,470	4,146	4,109	599	520	665	881
Tungsten ⁴	Mil. lb.	97	87	85	82	817	369	516	291
Zinc	1,000 sh. ton	380	378	378	378	317	268	570	559
Titanium	1,000 sh. ton	43	48	48	36	432	405	314	402
Platinum	1,000 troy oz.	466	466	466	452	215	154	261	231
Chromium ⁵	1,000 sh. ton	804	854	997	1,022	773	836	920	952
Diamonds: Stones	Carat	19,224	12,549	7,777	7,777	349	336	267	267
Industrial, bort	Carat	23,693	22,001	22,001	22,001	73	39	39	21

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. 1224. Selected Mineral and Metal Products—Quantity and Value of Imports and Exports: 1980 to 1988

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries]

PRODUCT	QUANTITY					VALUE (mil. dol.)			
	Unit	1980	1985	1987	1988	1980	1985	1987	1988
IMPORTS									
Petroleum (crude)	Mil. bbl	1,975	1,625	1,735	1,873	61,899	22,608	29,130	25,657
Gem stones: Diamonds	Mil. carat	4.2	8.2	9.1	10.4	2,251	3,007	3,423	4,305.8
Ores and concentrates:									
Chromium (Cr ₂ O ₃ content)	1,000 metric ton	372	160	207	270	57	20	24	42
Copper	1,000 metric ton	14	3	2	3	73	2	2	8
Iron	Mil. lg. ton	25.1	15.8	16.6	19.9	773	452	409	485
Tungsten	Mil. lb	11.4	10.5	9.7	17.7	87	37	24	48
Metals:									
Aluminum	1,000 sh. ton	581	958	1,373	1,132	778	1,017	1,852	2,198
Cobalt ²	Mil. lb	15.0	16.6	18.6	14.7	359	181	123	106
Copper refined ingots, etc.	1,000 metric ton	427	378	469	332	935	492	735	810
Gold (bullion)	1,000 troy oz	4,090	6,361	2,423	1,852	2,507	2,109	1,053	800
Iron and steel products									
(major)	Mil. sh. ton	15.5	24.3	20.4	20.8	7,713	10,874	8,567	8,932
Platinum group ³	1,000 troy oz	3,502	3,990	3,809	3,997	1,177	1,026	1,240	1,348
Silver (bullion)	Mil. troy oz	64.9	137.4	68.0	72.7	1,332	856	460	476
Zinc: Blocks, pigs, slabs	1,000 sh. ton	452	673	778	826	319	508	581	834
EXPORTS									
Fuels: ¹									
Bituminous coal	Mil. sh. ton	89.9	84.0	77.6	94.0	4,523	3,862	3,309	3,960
Petroleum (crude)	Mil. bbl	30.6	6.0	7.1	4.7	751	117	126	77
Nonmetallic minerals:									
Gem stones: Diamonds	Mil. carat	1.3	2.4	2.5	2.1	1,041	571	968	1,228
Nitrogen compounds (maj.)	Mil. sh. ton	11.1	10.8	10.9	11.3	1,842	1,553	(NA)	(NA)
Phosphatic fertilizers	Mil. sh. ton	7.2	6.1	7.5	7.6	1,383	1,225	1,083	(NA)
Metals:									
Aluminum: Ingots, slabs,									
crude	1,000 sh. ton	715	383	310	441	1,107	442	415	926
Plates, sheets, bars, etc	1,000 sh. ton	306	185	278	368	716	411	648	996
Gold (refined bullion)	1,000 troy oz	4,702	2,888	2,288	8,724	2,787	919	1,034	3,883
Iron and steel products									
(major)	Mil. sh. ton	4.1	0.9	1.1	2.1	3,504	1,321	950	1,702
Magnesium ⁵	1,000 sh. ton	56.8	40.3	48.7	54.9	128	114	131	145
Molybdenum ⁶	1,000 lb.	614	574	513	995	5	2	4	7
Silver (refined bullion)	Mil. troy oz	57.2	12.6	11.2	14.3	1,327	82	79	94
Scrap exports:									
Aluminum	1,000 sh. ton	445	413	407	537	483	351	410	774
Iron and steel	Mil. sh. ton	11.4	10.2	10.7	10.5	1,257	940	996	1,403

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 1980-88. For 1989, *Foreign Trade Import and Export CD-ROM* disc. ² Includes unwrought metal, waste and scrap. ³ Unwrought and semimanufactured. 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. 1225. Mineral Industries—Lost Workday Injuries and Fatalities: 1980 to 1989

[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	COAL MINING			QUARRYING: RELATED INDUS. ¹			METAL: NONMETAL MINING ²		
	1980	1985	1989	1980	1985	1989	1980	1985	1989
Injuries, total	18,822	9,141	12,040	3,551	2,571	3,966	6,923	2,234	4,083
Fatal	133	68	68	42	26	23	46	22	21
Rate per million work-hrs:									
Fatal	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1
Nonfatal	43	27	42	21	19	27	28	17	27
Fatalities per 1,000 employed ³	0.55	0.36	0.44	0.5	0.4	0.3	0.3	0.3	0.3

¹ Includes cement. ² Nonmetal mines exclude extraction of Frasch process sulfur. ³ Average number of persons at work each day mines were active.

Source: U.S. Mine Safety and Health Administration, Denver, CO, unpublished data.

No. 1226. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1980 to 1988, and by Major Foreign Sources, 1982 to 1988

[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	1983	1984	1985	1986	1987	1988	Rank of major foreign sources, 1982-1988
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.
Manganese	98	99	98	100	100	100	100	Gabon, Brazil, Australia.
Bauxite	94	96	96	96	96	97	97	Bauxite: Guinea, Jamaica, Australia.
Platinum group	88	89	89	92	90	94	95	So. Africa, United Kingdom, U.S.S.R.
Tantalum	90	97	92	89	91	85	86	Thailand, Brazil, Canada.
Cobalt	93	95	95	94	85	86	88	Zaire, Zambia, Canada.
Tungsten	53	52	70	68	70	79	76	China: Mainland, Bolivia, F.R. of Germany.
Asbestos	78	65	75	65	58	40	75	Canada, South Africa.
Potassium	65	75	74	76	75	75	71	Canada, Israel, U.S.S.R.
Chromium	91	76	80	75	79	76	77	South Africa, Turkey, Zimbabwe.
Nickel	71	75	68	71	73	75	68	Canada, Norway, Australia.
Tin	79	73	74	72	74	74	78	Brazil, China, Indonesia.
Zinc	60	65	68	70	73	71	69	Canada, Peru, Honduras.
Barium	44	85	69	74	71	65	74	China, India, Morocco.
Titanium	32	(D)	(D)	(D)	(D)	(D)	(D)	Australia, Canada, South Africa.
Silver	7	59	58	59	71	(NA)	(NA)	Mexico, Canada, Peru.
Antimony	48	54	58	63	64	63	65	China: Mainland, Mexico, Hong Kong.
Mercury	26	30	57	50	(D)	(D)	NA	Spain, China: Mainland, Turkey.
Cadmium	55	72	51	57	66	64	48	Canada, Australia, Mexico.
Selenium	59	39	47	(D)	(D)	(D)	56	Canada, United Kingdom, Japan.
Vanadium	35	26	54	(D)	(D)	(D)	(D)	So. Africa, So. America, E.E.C. ³
Gypsum	35	40	38	38	36	38	36	Canada, Mexico, Spain.
Petroleum	39	30	32	29	36	35	38	Mexico, Canada, Venezuela.
Copper	14	19	23	28	27	26	13	Canada, Chile, Peru.
Iron ore	25	37	19	21	33	22	18	Canada, Brazil, Venezuela.
Aluminum	(⁴)	17	7	16	26	23	7	Canada, Japan, Venezuela.
Iron and steel	15	16	23	22	21	19	17	E.E.C. ³ , Japan, Canada.
Sulfur	14	15	16	5	6	7	16	Canada, Mexico.
Natural gas	5	5	4	5	4	5	7	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, *Annual Energy Review*, and *Monthly Energy Review*. ⁶ 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. 1227. Federal Offshore Leasing, Exploration, Production, and Revenue: 1975 to 1988

[See source for explanation of terms and for reliability statement]

ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988
Tracts offered	Number	1,374	483	1,410	21,689	27,984	15,754	10,724	10,928	33,376
Tracts leased	Number	321	218	357	1,251	1,400	667	142	640	1,856
Acres offered	1,000	7,247	2,563	7,637	120,054	154,384	87,029	58,670	59,762	85,366
Acres leased	1,000	1,680	1,134	1,886	6,588	7,495	3,512	734	45,075	10,040
Bonus paid for leased tracts	Bil. dol.	1.1	4.2	4.0	5.7	4.0	1.5	0.2	0.5	1.2
New wells being drilled:										
Active	Number	97	191	166	134	253	195	95	142	116
Suspended	Number	292	739	701	597	313	348	279	265	289
Wells completed	Number	6,104	9,638	11,164	11,990	13,012	12,285	12,536	12,736	12,827
Wells plugged and abandoned	Number	5,617	8,057	8,913	9,374	9,903	10,487	11,909	12,373	13,164
Revenues, total	Bil. dol.	1.7	6.4	7.8	9.2	8.0	5.2	2.8	2.9	3.4
Bonuses	Bil. dol.	1.1	4.2	4.0	5.7	4.0	1.5	0.2	0.5	1.2
Oil and gas royalties	Bil. dol.	0.6	2.1	3.8	3.4	4.0	3.6	2.6	2.3	2.1
Rentals	Bil. dol.	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.1	0.1
Production, value	Bil. dol.	3.9	13.1	22.6	21.0	24.0	22.2	15.7	14.6	12.9
Crude oil	Bil. dol.	2.2	4.8	8.9	9.1	9.6	9.6	5.8	5.6	4.2
Condensate	Bil. dol.	0.2	0.4	1.2	1.1	1.2	1.0	0.7	0.7	0.7
Natural gas	Bil. dol.	1.5	7.9	12.4	11.0	13.2	11.5	9.3	8.1	7.9
Production:										
Crude oil	Mil. bbls.	303	259	284	304	330	352	350	325	279
Condensate	Mil. bbls.	27	19	37	36	40	37	39	41	41
Natural gas	Tril. cu. ft.	3,459	4,641	4,680	3,940	4,537	4,000	3,949	4,425	4,310

Z Less than \$50 million. ¹ Includes condensate royalties. ² 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. 1228. Petroleum Industry—Summary: 1975 to 1989

ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Crude oil producing wells (Dec.31)	1,000 . . .	500	548	580	603	621	647	623	620	612	603
Daily output per well . . .	Bbl.	16.8	15.9	14.9	14.4	14.3	13.9	13.9	13.5	13.3	12.7
Completed wells drilled, total . . .	1,000 . . .	39	70	84	75	85	70	39	35	31	28
Crude oil	1,000 . . .	17	32	39	37	42	35	19	16	13	11
Gas	1,000 . . .	8	17	19	14	17	14	8	8	8	9
Dry	1,000 . . .	14	20	26	24	25	21	13	11	10	9
Crude oil production, total	Mil. bbl. . .	3,057	3,146	3,157	3,171	3,250	3,275	3,168	3,047	2,979	2,785
Value at wells	Bil. dol. . .	23.5	67.9	90.0	83.1	84.1	78.9	39.6	46.9	37.5	44.2
Average price per barrel	Dollars . . .	7.67	21.59	28.52	26.19	25.88	24.09	12.51	15.40	12.58	15.85
Refinery input of crude oil	Mil. bbl. . .	4,541	4,934	4,297	4,265	4,408	4,381	4,641	4,692	4,848	4,891
Imports: Crude oil	Mil. bbl. . .	1,498	1,926	1,273	1,215	1,254	1,168	1,525	1,706	1,869	2,120
Refined petroleum products	Mil. bbl. . .	712	603	593	629	736	681	747	731	840	792
Import value	Mil. dol. . .	25,059	74,440	59,587	51,333	54,310	50,368	34,790	41,495	39,982	49,624
Export value	Mil. dol. . .	1,007	2,871	6,330	5,100	4,801	5,121	3,883	3,922	2,802	4,940
Operable refineries	Number . . .	279	319	301	258	247	223	216	219	213	204
Capacity (Jan. 1)	Mil. bbl. . .	5,461	6,584	6,530	6,154	5,906	5,716	5,643	5,681	5,825	5,714
Output	Mil. bbl. . .	4,995	5,352	4,888	4,795	5,007	5,019	5,301	5,339	5,498	5,530
Utilization rate	Percent . . .	85.5	75.4	69.9	71.7	76.2	77.6	82.9	83.1	84.7	86.6
Proved reserves	Bil. bbl. . .	32.7	29.8	27.9	27.7	28.4	28.4	26.9	27.3	26.8	(NA)

NA Not available.

Source: U.S. Energy Information Administration, *Annual Energy Review*, and *Petroleum Supply Annual*.**No. 1229. Crude Petroleum and Natural Gas Wells Drilled—Summary: 1970 to 1989**

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

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Wells drilled	Number . . .	27,177	36,960	62,011	67,536	77,210	67,821	37,173	33,041	29,741	26,693
Offshore	Number . . .	1,058	1,028	1,272	1,270	1,421	1,247	898	709	666	746
Footage drilled	Mil. ft. . . .	136.9	177.6	296.0	301.2	350.6	314.5	176.3	157.4	150.2	131.5
Drilling cost	Mil. dol. . .	2,579	6,571	22,800	25,105	25,206	23,697	13,552	9,239	10,550	9,669
Average depth per well	Feet	5,037	4,806	4,773	4,460	4,541	4,637	4,742	4,762	5,051	4,925
Average cost per well	\$1,000 . . .	95	178	368	372	326	349	365	280	355	362
Offshore	\$1,000 . . .	566	1,142	3,024	3,906	3,536	4,073	4,004	2,896	3,112	3,197
Average cost per foot	Dollars . . .	18.84	36.99	77.02	83.34	71.90	75.35	76.88	58.71	70.23	73.55

Source: American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association, *Joint Association Survey on Drilling Costs*, annual.**No. 1230. Domestic Motor Gasoline Supply: 1975 to 1989**

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

ITEM	1975	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Supply ¹	6,875	6,579	6,588	6,539	6,622	6,693	6,831	7,034	7,206	7,336	7,326
Unleaded	(NA)	3,067	3,264	3,409	3,647	3,987	4,406	4,854	5,470	5,995	6,500
Production	6,520	6,506	6,405	6,338	6,340	6,453	6,419	6,752	6,841	6,956	6,968
Net imports	182	139	155	177	237	293	371	293	349	383	324
Stocks (mil.bbl) ²	235	261	253	235	222	243	223	233	226	228	214

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*.**No. 1231. Natural Gas Plant Liquids—Production and Value: 1970 to 1989**[Barrels of 42 gallons. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989
Field production ¹	Mil. bbl. . .	606	594	576	569	596	582	564	581	593	564
Pentanes plus	Mil. bbl. . .	197	149	126	85	107	103	98	106	111	113
Liquefied petroleum gases	Mil. bbl. . .	400	444	441	480	488	479	466	474	483	451
Natural gas processed	Tril. cu. ft. .	19	18	15	13	14	13	13	14	-	13

- Represents zero. ¹ Includes other finished petroleum products, not shown separately. ² 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. 1232. U.S. Petroleum Balance: 1980 to 1989
 (In millions of barrels)

ITEM	1980	1983	1984	1985	1986	1987	1988	1989
Petroleum products supplied	6,242	5,559	5,756	5,740	5,942	6,083	6,308	6,324
New supply of products	6,249	5,471	5,800	5,676	5,995	6,053	6,290	6,270
Production of products	5,765	5,160	5,392	5,363	5,604	5,680	5,849	5,874
Crude input to refineries	4,934	4,265	4,406	4,381	4,641	4,692	4,835	4,891
Oil, field production	3,146	3,171	3,250	3,275	3,168	3,047	2,979	2,779
Alaska	592	626	631	666	681	716	738	684
Lower 48 States	2,555	2,545	2,619	2,609	2,487	2,331	2,241	2,095
Net imports	1,821	1,155	1,188	1,094	1,468	1,651	1,807	2,081
Imports (gross excluding SPR) ¹	1,910	1,130	1,182	1,125	1,507	1,679	1,845	2,112
SPR ¹ imports	16	85	72	43	18	27	19	20
Exports	-105	60	66	75	56	55	57	52
Other sources	33	61	29	12	4	7	57	32
Natural gas plant liquids (NGPL), supply	577	570	596	604	575	585	593	563
Other liquids	253	326	371	378	368	403	418	420
Net imports of refined products	484	311	407	313	391	373	441	396
Imports	578	520	604	523	621	596	681	656
Exports	94	110	197	210	229	223	240	260
Stock withdrawal, refined products	7	88	44	64	53	30	17	53
Ending stocks, all oils	1,392	1,454	1,556	1,519	1,593	1,607	1,597	1,581
Crude oil and lease condensate	358	344	345	321	331	349	330	341
Strategic petroleum reserve (SPR) ¹	108	379	451	493	512	541	560	580
Unfinished oils	124	108	94	107	94	93	100	(NA)
Gasoline blending components	17	38	39	33	39	38	39	(NA)
Pentanes plus	(NA)	16	8	8	7	7	7	(NA)
Finished refined products	785	569	621	557	609	580	562	580
PRODUCT TYPE SUPPLIED								
Total products	6,242	5,559	5,756	5,740	5,942	6,083	6,328	6,324
Finished motor gasoline	2,407	2,417	2,449	2,493	2,567	2,630	2,678	2,675
Distillate fuel oil	1,049	982	1,041	1,047	1,064	1,086	1,140	1,152
Residual fuel oil	918	519	501	439	518	462	5,030	500
Liquidified petroleum gases ²	414	551	576	584	552	588	604	609
Pentanes plus, other liquids, etc.	1,454	1,067	1,165	1,155	1,223	1,304	1,369	1,378
Crude oil	(NA)	24	23	22	18	12	15	10

 NA Not available. ¹ SPR=Strategic petroleum reserve. For more information, see table 965. ² Includes ethane.

 Source: U.S. Energy Information Administration, *Petroleum Supply Annual*.

No. 1233. Crude Petroleum and Natural Gas—Production, by State: 1985 to 1988

 [See also *Historical Statistics, Colonial Times to 1970*, series M 138, M 142, and M 147-161]

STATE	CRUDE PETROLEUM						NATURAL GAS MARKETING PRODUCTION ¹					
	Quantity (mil. bbl.)			Value (mil. dol.)			Quantity (bil. cu. ft.)			Value (mil. dol.)		
	1985	1987	1988	1985	1987	1988	1985	1987	1988	1985	1987	1988
Total²	3,274	3,053	2,983	78,884	46,930	37,477	17,198	17,349	17,808	43,183	28,889	30,096
AL	22	21	21	579	325	272	107	117	130	398	348	344
AK	666	716	738	10,655	7,962	6,391	321	360	379	236	340	480
AR	19	14	13	443	229	(D)	155	141	167	393	323	323
CA	424	366	356	8,386	4,698	3,693	491	425	359	1,653	1,006	861
CO	30	29	33	758	489	453	178	165	192	517	290	305
FL	11	8	8	(NA)	(NA)	(NA)	11	8	7	26	14	11
IL	30	24	22	795	412	325	1	1	1	4	3	3
IN	5	4	4	134	68	53	(Z)	(Z)	(Z)	1	(Z)	1
KS	75	61	59	1,939	1,054	863	513	457	576	652	526	781
KY	8	6	5	201	96	77	73	70	74	174	128	189
LA	508	175	165	5,387	3,185	2,577	5,014	5,123	5,180	13,355	9,120	9,356
MI	27	26	23	726	461	353	132	147	146	475	476	465
MS	31	28	28	796	494	409	144	140	124	456	271	231
MT	30	25	23	734	412	319	52	46	52	125	84	88
NE	7	6	6	163	104	83	2	1	(Z)	6	3	2
NM	79	72	71	2,028	1,246	1,031	905	824	792	2,370	1,368	1,347
NY	1	1	1	25	11	8	32	26	23	106	51	54
ND	51	41	39	1,307	726	580	73	62	58	138	81	115
OH	15	12	12	361	199	150	182	167	167	580	430	425
OK	163	134	129	4,256	2,391	1,987	1,936	2,005	2,107	4,789	2,938	3,255
PA	5	3	3	114	56	42	150	163	167	474	367	359
TX	889	762	736	23	13,469	10,795	6,053	6,126	6,286	14,097	9,007	9,471
UT	41	36	33	773	536	423	83	87	101	293	164	242
WV	4	3	3	86	47	37	145	160	182	558	616	555
WY	129	116	114	3,061	1,858	1,481	417	498	509	1,252	876	778

 D Withheld to avoid disclosure. NA Not available. Z Less than 500 million cubic feet or less than \$500,000. 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, *Energy Data Reports, Petroleum Supply Annual, Natural Gas Annual, and Natural Gas Monthly*.

No. 1234. Natural Gas—Supply, Consumption, Reserves, and Marketed Production: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series M 147-161]

ITEM	Unit	1970	1973	1975	1980	1983	1984	1985	1986	1987	1988	1989
Producing wells (yearend)	1,000	117	124	130	182	222	234	243	242	249	256	261
Production value at wells	Bil. dol.	3.7	4.9	8.9	32.0	43.6	48.4	43.2	32.6	28.9	30.1	30.6
Avg. per 1,000 cu. ft.	Dollars	0.17	0.22	0.45	1.59	2.59	2.66	2.51	1.94	1.67	1.69	1.71
Proved reserves	Tril. cu. ft.	291	250	228	199	200	198	193	192	187	168	(NA)
Marketed production	Tril. cu. ft.	21.92	22.65	20.11	20.18	16.82	18.23	17.20	16.79	17.35	17.81	17.96
Drawn from storage	Tril. cu. ft.	1.46	1.53	1.76	1.97	2.27	2.10	2.40	1.84	1.91	2.27	2.57
Imports	Tril. cu. ft.	0.82	1.03	0.95	0.98	0.92	0.84	0.95	0.75	0.99	1.29	1.38
Consumption, total	Tril. cu. ft.	21.14	22.05	19.54	19.88	16.84	17.95	17.28	16.22	17.21	18.03	18.95
Residential	Tril. cu. ft.	4.84	4.88	4.92	4.75	4.38	4.56	4.43	4.31	4.31	4.63	4.84
Commercial	Tril. cu. ft.	2.40	2.60	2.51	2.61	2.43	2.52	2.43	2.32	2.43	2.67	2.73
Industrial	Tril. cu. ft.	9.25	10.18	8.36	8.20	6.62	7.23	6.87	6.50	7.10	7.48	8.02
Lease and plant fuel	Tril. cu. ft.	1.40	1.50	1.40	1.03	0.98	1.08	0.97	0.92	1.15	1.10	1.19
Other industrial	Tril. cu. ft.	7.85	8.69	6.97	7.17	5.64	6.15	5.90	5.58	5.95	6.38	6.84
Electric utilities	Tril. cu. ft.	3.93	3.66	3.16	3.68	2.91	3.11	3.04	2.60	2.84	2.64	2.77
Transportation	Tril. cu. ft.	0.72	0.73	0.58	0.63	0.49	0.53	0.50	0.49	0.52	0.61	0.59
Extraction losses	Tril. cu. ft.	0.91	0.92	0.87	0.78	0.79	0.84	0.82	0.80	0.81	0.82	0.84
Exports	Tril. cu. ft.	0.07	0.08	0.07	0.05	0.05	0.05	0.06	0.06	0.05	0.07	0.07
Additions to storage	Tril. cu. ft.	1.86	1.97	2.10	1.95	1.82	2.30	2.16	1.98	1.91	2.21	2.21
Unaccounted for gas	Tril. cu. ft.	0.23	0.20	0.24	0.64	0.64	0.14	0.36	0.43	0.36	0.34	-0.12
World production (dry)	Tril. cu. ft.	37.54	43.15	44.10	53.11	54.57	59.66	62.00	63.25	66.17	68.03	(NA)
U.S. production (dry)	Tril. cu. ft.	21.01	21.73	19.24	19.40	16.03	17.39	16.38	15.99	16.54	16.99	17.12
Percent U.S. of world	Percent	56.0	50.4	43.6	36.4	29.4	29.8	26.3	25.3	25.0	25.0	(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*, *Natural Gas Annual*, and *Monthly Energy Review*, March 1990.

No. 1235. Liquefied Petroleum Gases—Summary: 1980 to 1989

[In millions of 42-gallon barrels. Includes ethane]

ITEM	1980	1985	1988	1989	ITEM	1980	1985	1988	1989
Production	561	622	663	665	Consumption	538	584	604	609
At natural gas plants	441	479	481	452	Ethane	164	210	190	170
At refineries	121	143	182	202	Propane	298	322	338	361
Imports	79	68	76	66	Butane (incl. isobutane)	76	52	80	69
Refinery input	85	111	117	115	Stocks, Dec. 31.	116	74	97	80
Exports	9	23	18	13					

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. 1236. World Coal Trade: 1975 to 1988

[In millions of short tons]

COUNTRIES	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Exporting countries, total	212.5	222.5	254.9	277.2	288.4	292.0	284.5	332.9	370.2	376.3	383.0	411.0
United States	66.3	40.7	66.0	88.7	106.5	106.5	78.2	82.0	93.2	85.5	79.6	94.9
Australia	33.5	42.6	44.6	46.6	54.3	48.8	62.3	82.2	96.6	101.3	111.9	109.3
South Africa	3.0	17.0	25.7	30.7	33.3	30.5	32.7	40.9	49.8	50.1	46.9	47.0
Soviet Union	28.8	31.6	28.4	26.2	22.5	23.0	22.8	22.8	26.5	36.9	39.1	43.4
West Germany	16.2	21.0	17.2	13.8	13.1	11.2	11.5	12.4	10.5	7.9	6.9	5.5
Canada	12.9	15.1	15.3	16.1	17.9	16.6	18.6	26.8	30.3	28.6	29.5	34.8
Poland	42.4	44.2	45.6	34.6	16.6	30.6	38.7	47.2	39.7	37.9	34.2	35.5
China: Mainland	0.5	0.9	1.7	4.2	4.1	5.1	6.8	7.7	8.6	10.9	14.4	16.2
Importing countries, total	212.5	222.5	254.9	277.2	288.4	292.0	284.5	332.9	370.2	376.3	383.0	411.0
Western Europe/Mediterranean	80.8	94.3	107.4	126.9	129.4	126.5	112.9	132.4	152.3	149.0	145.6	147.0
Japan	68.5	57.5	64.5	75.6	86.0	86.5	82.8	96.2	103.0	79.6	100.2	111.5
Eastern Europe	35.1	38.4	40.2	34.8	30.1	37.0	39.7	39.9	39.1	45.4	44.9	48.5
Canada	16.8	14.6	19.4	17.4	16.3	17.3	16.7	20.3	16.1	14.7	15.8	19.2

¹ Includes areas not shown separately. ² Includes trade with Japan only.

Source: U.S. Energy Information Administration, 1975-84, *Outlook for U.S. Coal Imports*; thereafter, *Annual Prospects for World Coal Trade*.

No. 1237. Coal and Coke—Summary: 1970 to 1989

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1989, was an estimated 473 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	1984	1985	1986	1987	1988	1989 ¹
COAL²										
Production, total.	Mil. sh. tons	613	655	830	896	884	890	919	950	980
Value	Mil. dol.	3,882	12,670	20,453	22,949	22,277	21,188	21,101	20,890	(NA)
Anthracite production	Mil. sh. tons	9.7	6.2	6.1	4.2	4.7	4.3	3.1	3.6	3.3
Bituminous coal and lignite:										
Number of mines	Number	5,601	6,168	5,598	4,902	4,547	4,203	3,894	3,462	(NA)
Production	Mil. sh. tons	603	648	824	892	879	886	915	947	971
Value, total	Mil. dol.	3,774	12,469	20,196	22,749	22,061	20,999	21,050	20,752	(NA)
Average per ton	Dollars	6,26	19,23	24,52	25,51	25,10	23,70	23,00	22,00	21,00
Exports	Mil. sh. tons	71	66	90	81	91	84	78	94	100
Value	Mil. dol.	961	3,259	4,627	4,098	4,403	3,862	3,354	3,975	4,255
Imports	1,000 sh. tns.	36	940	1,194	1,286	1,952	2,212	1,747	2,134	2,851
Method of mining:										
Underground	Mil. sh. tons	339	293	338	351	350	360	372	382	394
Surface	Mil. sh. tons	264	356	487	540	529	526	543	565	577
Percent of total prod.	Percent	43.8	54.8	59.1	60.6	60.2	59.4	59.4	59.7	59.4
Value	Mil. dol.	(Z)	22	30	45	70	80	(NA)	(NA)	(NA)
Consumption ⁴	Mil. sh. tons	515	558	699	788	815	802	834	881	887
Electric power utilities	Mil. sh. tons	318	404	568	663	693	684	717	757	765
Industrial	Mil. sh. tons	184	146	126	117	116	111	112	118	117
Productivity average:										
Daily employment	1,000	140	190	225	178	169	155	143	135	(NA)
Days worked	Number	228	232	210	204	204	205	207	211	(NA)
Tons per worker:										
Per day	Sh./tons.	18.84	14.74	16.32	22.26	23.13	25.69	28.19	(NA)	(NA)
Per year	Sh./tons.	4,296	3,420	3,427	4,541	4,719	5,266	5,835	(NA)	(NA)
Production, by State:										
Alabama	Mil. sh. tons	20.6	22.6	26.4	27.1	27.8	25.8	25.5	26.5	28.5
Illinois	Mil. sh. tons	65.1	59.5	62.5	63.8	59.2	61.9	59.2	58.6	59.7
Indiana	Mil. sh. tons	22.3	25.1	30.9	37.6	33.3	32.9	34.2	31.3	33.7
Kentucky	Mil. sh. tons	125.3	143.6	150.1	158.5	152.3	153.9	163.7	157.9	158.6
Montana	Mil. sh. tons	3.4	22.1	29.9	33.0	33.3	34.0	34.4	38.9	37.7
Ohio	Mil. sh. tons	55.4	46.8	39.4	39.3	35.6	36.4	35.6	34.0	32.5
Pennsylvania	Mil. sh. tons	90.2	90.3	93.1	77.5	71.4	71.6	66.4	67.1	69.0
Virginia	Mil. sh. tons	35.0	35.5	41.0	40.4	40.9	41.2	44.2	45.9	51.2
West Virginia	Mil. sh. tons	144.1	109.3	121.6	131.0	127.8	129.9	135.9	145.0	151.2
Wyoming	Mil. sh. tons	7.2	23.8	94.9	130.9	140.7	136.8	146.8	164.0	171.5
Other States	Mil. sh. tons	44.1	75.9	139.7	155.9	161.3	165.9	165.8	177.6	182.6
World production	Mil. sh. tons	3,295	3,665	4,173	4,623	4,844	4,944	5,070	5,231	(NA)
COKE										
Production ⁶	Mil. sh. tons	66.5	57.2	46.1	30.6	28.7	25.5	28.0	32.4	33.0
Oven coke ⁷	Mil. sh. tons	65.7	56.5	46.1	30.6	28.7	25.5	28.0	32.4	33.0
Value of product at plant	Mil. dol.	2,193	5,261	6,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze	Mil. dol.	1,899	4,607	4,784	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton	Dollars	28	84	103	105	103	100	(NA)	(NA)	(NA)
Coal carbonized	Mil. sh. tons	96.5	83.6	66.7	44.0	41.1	36.0	37.0	41.9	41.4
Average value per ton	Dollars	12.47	44.21	56.26	56.58	54.30	50.83	46.55	47.70	47.50
Yield of coke from coal	Percent	69.1	68.4	69.2	69.4	69.8	70.9	75.9	77.3	79.8

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 1984, 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, *Coal Production, annual*; *Annual Energy Review*, and *Quarterly Coal Report*.

No. 1238. Asbestos: 1984 to 1989

[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	1989
Production (sales), mine	57	57	51	51	18	17
Imports for consumption	210	142	108	94	85	55
Exports	40	46	47	60	32	27
Consumption, apparent	226	162	120	84	71	55
Price, average value, dol./ton, f.o.b. mine	422	357	338	340	(D)	(D)
Stocks, producer, yearend	23	14	6	6	6	7
Employment, mine and mill ¹	190	200	250	230	58	58
Net import reliance as percent of apparent consumption ²	75	65	58	40	75	49

D Withheld to avoid disclosure. 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*, annual.

No. 1239. Cement, Sand, Gravel, Stone, Gypsum, Lime, and Phosphate Rock: 1970 to 1988

[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	1980	1983	1984	1985	1986	1987	1988
Cement production ¹	Mill. sh. ton	76.1	69.7	76.7	71.3	78.7	78.9	79.8	78.2	76.9
Portland	Percent	96.1	95.8	95.9	95.9	95.8	95.9	95.5	97.0	97.1
Shipments ²	Mill. sh. ton	76.4	70.7	77.7	71.9	81.2	84.0	90.3	89.1	89.0
Portland	Mill. sh. ton	73.4	67.8	74.7	68.9	77.9	80.7	85.1	86.6	86.7
Value	Mill. dol.	1,366	2,220	3,780	3,440	4,020	4,142	4,265	4,233	4,233
Average per ton	Dollar	17.88	31.41	50.89	49.89	51.62	51.30	50.10	48.85	48.80
Imports	Mill. sh. ton	2.5	3.6	5.2	4.3	8.8	14.5	16.1	17.7	17.5
Value	Mill. dol.	34	71	196	161	294	437	469	489	516
Exports	Mill. sh. ton	123	417	186	118	80	98	89	52	101
World production (est.)	Mill. sh. ton	630	774	977	1,010	1,045	1,057	1,101	1,151	1,213
Sand and gravel sold	Mill. sh. ton	944	789	793	682	803	830	910	924	952
Value	Mill. dol.	1,116	1,340	2,289	2,270	2,621	2,812	3,107	3,367	3,514
Stone sold or used by producers	Mill. sh. ton	869	901	985	863	957	1,002	1,024	1,200	1,248
Value	Mill. dol.	1,470	2,120	3,405	3,475	3,911	4,225	4,428	5,249	5,558
Crude gypsum:										
Active establishments ⁵	Number	108	110	114	111	113	116	113	109	112
Apparent supply	Mill. sh. ton	15.5	15.1	19.7	20.8	23.1	24.3	24.9	25.3	26.1
Mined	Mill. sh. ton	9.4	9.8	12.4	12.9	14.3	14.7	15.4	15.6	16.4
Imports for consumption	Mill. sh. ton	6.1	5.4	7.4	8.0	8.9	9.9	9.6	9.7	9.7
Exports	1,000 sh. ton	41	75	88	117	131	83	155	127	271
Calcined gypsum produced	Mill. sh. ton	8.4	9.2	11.8	13.9	15.5	16.0	17.1	17.6	17.3
Value	Mill. dol.	132	186	270	270	321	367	310	322	313
Gypsum products sold, value ⁶	Mill. dol.	353	514	1,242	1,806	2,274	2,418	2,514	2,279	2,091
Building uses, value	Mill. dol.	323	466	1,149	1,504	2,162	2,301	2,399	2,202	2,015
Lime:										
Active plants	Number	194	171	153	139	129	115	116	116	115
Quantity sold	1,000 sh. ton	19,747	19,133	19,010	14,867	15,822	15,690	14,474	15,733	17,293
Value	Mill. dol.	286	524	843	758	811	809	758	788	828
Per ton	Dollars	14.4	27.4	44.3	51.0	51.0	51.6	52.4	49.96	47.88
Phosphate rock:										
Mine production	Mill. ton	125.5	187.5	231.4	138.6	179.7	193.2	149.6	163.6	178.6
P ₂ O ₅ content	Mill. ton	18.6	23.5	26.2	19.4	23.2	25.2	19.6	21.4	21.1
Marketable production	Mill. ton	38.7	48.8	60.0	46.9	54.2	56.0	44.4	45.1	50.0
P ₂ O ₅ content	Mill. ton	12.0	15.0	18.4	14.4	16.4	17.2	13.5	13.7	15.2
Value	Mill. dol.	203	1,122	1,257	1,021	1,182	1,236	897	793	888
Per ton	Dollars	5.25	22.99	20.95	21.75	21.80	22.05	20.20	17.58	17.76
Imports	Mill. sh. ton	0.14	0.04	0.54	0.01	0.01	0.03	0.58	0.51	0.74
Value	Mill. dol.	3.8	1.6	12.9	0.4	0.3	1.7	25.4	22.1	25.9
Per ton	Dollars	27.87	43.83	23.99	37.90	27.62	46.61	43.70	43.4	34.9
Exports	Mill. sh. ton	11.7	12.3	15.7	13.2	12.7	10.1	8.7	9.3	8.9
P ₂ O ₅ content	Mill. sh. ton	3.8	4.0	5.0	4.2	4.0	3.2	2.8	3.0	2.9
Value	Mill. dol.	60.0	429.2	431.4	327.3	324.8	263.6	211.7	194.7	207.0
Per ton	Dollars	5.11	34.98	27.41	24.73	25.56	26.18	24.47	20.90	23.27
Consumption, apparent ⁸	Mill. sh. ton	27.2	34.2	45.0	38.4	46.0	41.4	38.0	39.3	45.2
World production	Mill. sh. ton	93.6	118.6	158.9	153.5	167.4	164.0	153.1	⁹ 159.0	¹⁰ 180.4

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. ⁹ Preliminary. ¹⁰ Estimated.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1240. Potash—Summary: 1970 to 1988

[In thousands of short tons, except value. See also *Historical Statistics, Colonial Times to 1970*, series M 201-202]

ITEM	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988
Production of potassium salts (marketable)	4,853	4,576	4,756	3,710	3,053	3,350	2,831	2,625	2,716	3,306
Approximate equivalent K ₂ O	2,729	2,501	2,468	1,966	1,575	1,724	1,428	1,325	1,391	1,677
Value (mil. dol.)	96.1	223.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sales of potassium salts by producers	4,703	3,819	4,701	3,734	3,252	3,510	2,761	2,525	3,201	3,089
Approximate equivalent K ₂ O	2,729	2,094	2,444	1,967	1,668	1,807	1,395	1,264	1,637	1,573
Value at plant (mil. dol.)	92.4	187.9	353.9	265.6	220.8	241.8	178.4	144.9	197.7	240.3
Per ton (dollars)	19.64	49.19	75.28	71.13	67.90	68.89	78.48	57.38	61.54	77.79
Imports for consumption of potash materials	4,403	6,271	9,031	6,986	8,071	8,761	8,343	7,643	7,392	7,676
Approximate equivalent K ₂ O	2,605	3,797	5,481	4,253	4,894	5,323	5,061	4,643	4,490	4,648
Value (mil. dol.)	94.7	267.2	648.0	575.4	600.6	658.1	499.1	385.1	433.0	623.0
Exports of potash materials	966	1,419	1,746	1,049	822	922	1,072	1,130	1,021	863
Approximate equivalent K ₂ O	544	779	926	572	331	492	565	603	518	419
Value (mil. dol.)	28.5	92.7	179.8	93.2	55.8	85.7	(NA)	(NA)	(NA)	(NA)
Apparent consumption of potassium salts ²	8,140	8,671	11,987	9,671	10,701	11,349	10,032	9,149	9,571	9,902
Approximate equivalent K ₂ O	4,730	5,112	6,999	5,647	6,231	6,638	5,891	5,338	5,609	5,802
World production (marketable), approximate equivalent K ₂ O	20,013	27,269	30,707	27,187	30,232	31,568	31,537	31,700	33,649	35,393

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. 1241. Iron Ore—Summary: 1980 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989
Number of mines	37	27	20	20	20	19	19	21	(NA)
Production	69.6	35.4	37.6	51.3	48.8	38.9	46.9	56.6	57.0
Lake Superior	62.3	31.0	35.6	49.7	47.4	37.6	45.9	55.2	56.0
Other districts	7.3	4.4	2.0	1.6	1.4	1.3	0.9	1.5	1.0
Shipments ²	69.6	35.8	44.6	50.9	49.4	41.3	47.2	56.2	55.6
Value ² (mil. dol.)	2,544	1,492	1,945	2,248	2,077	1,473	1,503	1,717	(NA)
Avg. price/ton at mine (dol.)	36.56	41.72	43.61	44.17	42.03	35.63	31.83	30.54	(NA)
Stocks, Dec. 31 (at mines)	11.7	12.1	4.1	5.3	6.0	3.3	2.4	2.9	4.5
Imports for consumption ³	25.1	14.5	13.2	17.2	15.8	16.7	16.6	19.9	19.3
Canada	17.3	9.3	8.8	11.2	8.6	8.7	7.9	9.0	8.4
Venezuela	3.6	1.6	1.3	1.5	2.1	2.3	2.6	3.5	4.2
Brazil	2.0	1.0	1.3	2.5	2.5	3.7	3.6	4.9	5.1
Value (mil. dol.)	773	471	446	529	452	461	409	485	522
Exports	5.7	3.2	3.8	5.0	5.0	4.5	5.0	5.2	5.3
Value (mil. dol.)	231	151	183	239	241	205	198	194	193
World production (est.)	877	769	728	816	849	855	876	902	(NA)

NA Not available. ¹ Direct-shipping ore, concentrates, agglomerates, and byproduct ore. ² Includes byproduct ore. ³ Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1242. Gold and Silver—Summary: 1980 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series M 268-269, for mine production]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989, prel
GOLD									
Ore produced ¹	1,000 sh. ton.	9,893	24,142	30,497	35,909	60,683	92,810	140,968	187,710
Production, U.S.	1,000 fine oz.	970	2,003	2,085	2,427	3,739	4,947	6,460	8,537
Value	Mil. dol.	594	849	752	771	1,377	2,216	2,831	3,266
World production	1,000 fine oz.	39,179	45,163	46,929	49,250	51,512	53,310	59,409	63,369
Industrial consumption									
U.S., net	1,000 fine oz.	3,215	3,226	3,140	3,097	3,126	3,233	3,146	3,111
Imports ²	Mil. dol.	2,750	1,977	2,947	2,696	5,694	1,633	1,269	1,479
Canada	Mil. dol.	1,234	987	1,554	1,555	2,444	867	693	884
Soviet Union	Mil. dol.	88	-	-	-	155	0.4	0.4	0.5
South Africa	Mil. dol.	33	16	8	-	79	0.3	0.7	0.02
Exports	Mil. dol.	3,648	1,326	1,813	1,254	1,819	1,709	4,659	2,275
Price per fine oz. ³	Dollars	612.6	424.0	360.7	317.7	368.2	448.0	438.3	382.6
Production:									
Nevada	1,000 fine oz.	278	961	1,021	1,276	2,099	2,659	3,676	4,970
South Dakota	1,000 fine oz.	268	310	311	356	(D)	(D)	450	518
Utah	1,000 fine oz.	180	238	(D)	135	(D)	(D)	(D)	(D)
SILVER									
Ore produced ^{1,4}	1,000 sh. ton.	2,936	8,658	9,392	5,347	6,425	8,758	10,553	(D)
Production, U.S.	1,000 fine oz.	32,329	43,431	44,592	39,449	34,524	39,803	53,402	64,526
Value	Mil. dol.	667	497	363	242	189	280	349	355
World production	1,000 fine oz.	342,804	387,711	420,065	419,599	416,995	442,201	455,479	464,738
Industrial consumption									
U.S., net ⁵	1,000 fine oz.	124,694	116,464	114,841	118,555	118,940	115,271	(NA)	(NA)
Imports ²	Mil. dol.	1,806	2,124	963	952	798	555	578	705
Canada	Mil. dol.	660	420	301	288	261	141	239	242
Mexico	Mil. dol.	282	340	336	251	257	288	254	340
Peru	Mil. dol.	354	269	197	76	57	48	12	15
Exports	Mil. dol.	1,910	377	206	161	143	192	206	239
Price per fine oz. ^{3,5}	Dollars	20.63	11.44	8.14	6.14	5.47	7.01	6.54	5.50
Production:									
Idaho	Mil. fine oz.	13.7	17.7	18.9	18.8	11.2	(D)	10.9	14.1
Arizona	Mil. fine oz.	6.3	4.5	4.2	4.9	4.2	3.7	4.9	5.5
Utah	Mil. fine oz.	2.2	4.6	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	Mil. fine oz.	3.0	2.1	2.2	0.5	0.6	0.9	0.9	(D)

- Represents zero. D Withheld to avoid disclosure. NA Not available. 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. 1243. Lead—Summary: 1980 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989
Smelter production of refined primary lead	548	512	519	389	494	370	374	382	396
Domestic ores and base bullion	508	460	464	324	423	348	337	371	379
Foreign ores and base bullion	40	52	55	65	71	22	37	21	17
Recovery of secondary lead	676	571	504	633	616	625	710	736	809
Imports for consumption:									
Lead in pigs and bars	81	95	134	161	131	140	186	149	116
Lead in ores and matte	30	19	20	30	3	5	1	21	5
Exports of refined pig lead ²	157	51	18	5	25	11	4	8	29
Consumption of metal, primary and secondary	1,070	1,075	1,148	1,207	1,148	1,126	1,230	1,245	1,283
Average price, common lead:									
New York (cents per lb.)	42.46	25.54	21.68	25.55	19.07	22.05	35.94	37.14	39.35
London (cents per lb.)	41.21	24.66	19.27	20.12	17.84	18.43	26.99	29.73	30.63
Mine production of recoverable lead ³	550	513	449	323	414	340	311	385	411
Value ³ (mil. dol.)	515	289	215	182	174	165	247	315	356
World smelter production, primary (est.)	3,181	3,211	3,248	3,176	3,403	3,147	3,291	3,298	3,290
World smelter capacity (est.)	4,616	4,504	4,555	4,435	4,355	4,385	4,420	4,450	

¹ Excludes lead content of antimonial lead. ² Pigs, bars, and anodes. ³ Includes Alaska.

No. 1244. Copper—Summary: 1980 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989
New (primary) copper produced:									
Mines (from domestic ores)	1,181	1,147	1,038	1,103	1,105	1,144	1,244	1,417	1,497
Copper ore produced ¹ (mil. metric tons)	222	182	178	172	165	172	203	224	237
Average yield of copper (percent)	0.48	0.55	0.51	0.58	0.62	0.62	0.58	0.50	0.49
Smelters (from domestic ores)	994	941	888	990	939	908	972	2,104	2,120
Percent of world total	13	12	11	12	11	10	11	12	(NA)
Refineries (from domestic ores)	1,126	1,065	1,029	1,090	1,004	1,074	2,127	2,406	1,352
From foreign ores, matte, etc., refinery	89	162	154	75	54	(D)	(D)	(D)	125
Total new refined, domestic and foreign	1,215	1,227	1,182	1,165	1,057	1,074	1,146	1,406	1,477
Secondary copper produced	1,437	1,187	1,084	1,120	1,139	1,136	1,214	1,312	1,258
Recovered from old scrap only	613	518	449	461	503	477	498	519	547
Imports (unmanufactured) ³	555	513	675	552	444	597	568	512	458
Refined	427	258	460	445	378	502	469	332	300
Exports of refined metallic copper	14	31	81	91	38	12	9	58	134
Stocks (refined), Dec. 3 ⁴	294	676	692	564	320	225	113	98	104
Mine production of recoverable copper	1,181	1,147	1,038	1,103	1,105	1,144	1,244	1,417	1,497
Arizona	770	770	678	746	796	786	751	843	898
Montana	38	65	33	(D)	15	(D)	(D)	(D)	(D)
New Mexico	149	(D)	(D)	(D)	(D)	247	(D)	259	259
Utah	158	189	170	(D)	(D)	(D)	(D)	(D)	(D)
Other States	66	123	157	357	294	111	493	315	340
Avg. price, domestic production (cents per lb.)	102	74	79	68	67	66	83	121	131
World smelter production	7,649	7,951	8,120	8,391	8,664	8,715	8,865	9,023	(D)
World smelter capacity	10,201	10,724	10,939	10,972	11,001	11,221	11,600	11,653	(D)

D Withheld to avoid disclosure. NA Not available. ¹ Includes old tailings. 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.

No. 1245. Cobalt—Summary: 1980 to 1989

[In millions of pounds of contained cobalt, except price]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Production: Secondary (scrap) ¹	1.2	1.0	0.9	0.7	0.9	0.9	2.6	2.5	2.5	(NA)
Imports	16.3	15.6	12.9	17.2	25.3	17.7	12.3	19.5	15.5	12.7
Zaire	6.2	4.2	5.0	7.7	11.8	4.8	0.7	9.4	5.4	2.2
Zambia	2.2	1.5	1.2	2.3	3.8	4.3	3.5	2.9	2.7	3.1
Canada	1.1	1.8	1.5	2.0	3.1	3.1	3.4	3.4	3.6	2.7
Exports ³	0.6	0.8	0.6	0.8	0.7	0.6	1.0	0.8	1.2	0.9
Consumption (reported)	15.3	11.7	9.5	11.3	12.9	13.5	14.4	14.9	16.0	(NA)
Inventories	43.3	42.2	47.1	47.4	47.6	54.3	54.6	55.2	54.8	(NA)
Government ⁴	40.8	40.8	45.7	46.0	46.2	53.2	53.1	53.1	53.1	53.1
Private ⁵	2.5	1.4	1.3	1.4	1.4	1.1	1.5	2.1	1.7	(NA)
Price per pound ⁶ (dollars)	25.00	14.58	8.56	5.76	10.40	11.43	7.49	6.56	7.09	7.64

NA Not available. ¹ Reported consumption. ² Includes countries not shown separately. ³ 1980 to 1988—estimated content of unwrought cobalt and waste and scrap. 1989 also includes oxides, acetates and chlorides. ⁴ Includes cobalt sold but not delivered. ⁵ Consumer stocks only. ⁶ 1980 price is producer price, thereafter; prices are weighted average based on the market price quoted by *Metals Week*.

Source of tables 1243-1245: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1246. Nickel—Summary: 1980 to 1989

[Quantities in thousands of short 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 231-234]

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988, prel.	1989, 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	-	-	¹
Secondary ²	49	52	43	50	53	54	44	-	63	62
Imports (est. nickel content)	189	209	130	152	177	158	129	154	154	139
Exports (est. nickel content)	57	49	57	44	44	35	15	15	21	24
Consumption	206	206	181	201	211	211	181	195	194	181
Stocks (consumer), Dec. 31	15	23	19	20	21	19	17	-	12	9
Price per pound (dollars)	2.96	2.71	2.18	2.18	2.16	2.26	1.76	2.28	6.25	6.05
World production, est.	859	805	675	742	847	896	869	910	961	1,027

- 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. 1247. Tin—Summary: 1980 to 1989

[In metric tons, except price. See headnote, table 1237, for exclusions]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Production: Domestic smelters	3,000	3,500	2,500	4,000	3,000	3,213	3,905	1,487	1,000
Secondary sources	18,638	14,283	14,205	15,417	14,109	14,850	16,159	15,249	15,213
Imports for consumption:									
Metal	45,982	27,939	34,048	41,224	33,830	35,768	41,150	43,493	33,988
Ore (tin content)	840	1,961	969	3,272	1,618	3,936	2,953	2,837	216
Exports	595	5,769	1,340	1,429	1,478	1,547	1,318	1,209	904
Price of Straits tin at NY, dol. per lb.	8.46	6.54	6.55	6.24	5.96	3.83	4.19	4.41	5.2
Consumption, primary and secondary	56,362	46,295	45,547	46,315	48,669	43,524	44,219	45,601	46,371
World mine production, est.	247,300	219,463	196,942	188,183	180,725	172,471	178,131	200,150	216,457

¹ See footnote 5, table 1221.

No. 1248. Tungsten Concentrate—Summary: 1970 to 1989

[Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 225-226, for related data]

ITEM	Unit	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989, prel.
Production:	1,000 sh. ton.										
Concentrates (60% WO ₂ basis) ¹	ton.	10.1	6.3	3.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Tungsten content	Mil. lb.	9.3	6.0	3.5	2.2	2.6	2.2	1.8	0.1	(NA)	(NA)
Shipments from mines:											
Reported value f.o.b. mines	Mil. dol.	23.8	50.6	22.1	10.5	13.4	9.1	5.8	0.2	(NA)	(NA)
Avg. value per lb. of tungsten	Dollars	2.55	8.38	6.35	4.70	5.20	4.23	3.21	2.88	(NA)	(NA)
Imports for consumption ²	Mil. lb.	31.3	11.4	7.8	6.3	12.8	10.5	5.6	9.7	17.7	17.4
Consumption ²	Mil. lb.	16.7	20.4	9.9	11.4	18.9	15.1	10.6	12.1	17.3	17.0
Stocks, end of year	Mil. lb.	2.2	1.4	4.0	2.5	2.2	2.5	1.2	0.8	1.1	2.8
World production ²	Mil. lb.	71.4	114.6	103.7	90.2	101.8	102.7	95.6	93.0	93.9	95.4

NA Not available. ¹ A short ton of 60% tungsten trioxide (WO₃) contains 951.72 pounds of tungsten. ² Tungsten content. ³ General imports.

Source of tables 1246-1248: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1249. Uranium Concentrate (U₃O₈) Industry—Summary: 1980 to 1989

[Middle demand case. See table 981. See also *Historical Statistics, Colonial Times to 1970*, series M266-267]

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Production	1,000 sh. tons	21.9	19.2	13.4	10.6	7.4	5.6	6.8	6.5	6.5	6.9
Net imports (U ₃ O ₈)	1,000 sh. tons	-1.1	-1.1	6.3	2.4	5.2	3.2	6.0	6.9	6.2	5.5
Utility and Suppliers inventories (U ₃ O ₈ equivalent)	1,000 sh. tons	54.4	64.0	68.6	80.0	¹ 74.7	¹ 68.3	¹ 66.2	¹ 64.5	¹ 59.1	¹ 54.9
Price (1988 dol./lb. U ₃ O ₈):											
Long-term contract price	Dollars	41.4	34.3	30.2	31.7	26.4	24.7	19.3	18.5	(NA)	(NA)
Spot market price	Dollars	45.0	31.3	24.3	26.8	19.4	17.0	18.1	17.3	14.5	14.2
Delivered price	Dollars	39.9	41.7	48.5	44.6	² 36.5	² 33.6	² 31.9	² 19.6	² 25.7	² 27.8
Capital expenditures (1988 dollars)	Mil. dol.	1,107	538	202	78	43	37	29	63	36	35
Employment	1,000	19.9	13.7	9.0	5.6	3.6	2.4	2.1	2.0	2.1	1.6

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. 1250. Zinc—Summary: 1980 to 1989

[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	1989, prel.
Smelter production, primary slab zinc	340	347	228	236	253	261	253	261	241	263
Value (mil. dol.)	280	341	194	215	271	232	212	241	320	476
From domestic ores	232	260	193	210	198	198	191	205	196	166
From foreign ores	108	87	35	26	55	83	62	56	45	97
Production, redistilled secondary slab zinc	29	50	74	69	78	73	63	83	88	95
Avg. price of common zinc (cents per lb.)	37.4	44.6	38.5	41.4	48.6	40.4	38.0	41.9	60.2	82.1
World smelter production, est.	6,049	6,081	5,894	6,249	6,527	6,786	6,691	7,010	7,098	(NA)
World smelter and refining capacity	7,650	(NA)	(NA)	(NA)	7,200	7,800	7,900	7,900	7,950	8,000
Mine production, recoverable zinc	317	312	303	275	253	227	203	216	244	273
Colorado	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	28	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Missouri	63	53	64	57	45	49	38	35	41	51
New York	34	37	52	57	(D)	(D)	(D)	(D)	(D)	(D)
Tennessee	112	118	121	110	117	104	102	116	120	(D)
Other States	66	104	66	51	91	74	63	65	83	222

D Withheld to avoid disclosure of individual company data. NA Not available.

Source: U.S. Bureau of Mines, *Minerals Yearbook*, and *Mineral Facts and Problems*.

No. 1251. Bauxite—Summary: 1980 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series M 256-257, for bauxite in short tons]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989 ¹
Production:									
Crude ore	Mil. metric ton	1.9	0.8	1.0	0.8	0.6	0.7	0.7	(D)
Dried bauxite	Mil. metric ton	1.6	0.7	0.9	0.7	0.5	0.6	0.7	(D)
Value	Mil. dol.	22.4	11.3	15.6	12.9	10.4	10.9	10.6	(D)
Imports ² (crude, dried)	Mil. metric ton	14.1	7.6	9.4	7.2	6.5	9.2	10.0	10.7
Jamaica	Mil. metric ton	6.1	3.0	3.8	1.5	2.1	2.8	2.7	3.3
Guinea	Mil. metric ton	4.1	3.6	3.7	3.8	3.4	4.3	4.5	3.4
Suriname	Mil. metric ton	1.4	0.2	0.3	12.0	0.1	0.1	-	-
Value	Mil. dol.	380.5	226.9	310.9	210.1	188.8	229.2	250.9	305.0
Exports (as shipped)	1,000 metric ton	21.0	74.0	82.0	56.0	69.0	201.0	63	44
Consumption (dry equivalent)	Mil. metric ton	16.0	9.1	10.5	8.2	6.9	9.5	10.1	11.8
World production, est	Mil. metric ton	89.2	78.7	87.8	84.5	86.1	90.3	97.9	105.0

- Represents or rounds to zero. D Withheld to avoid disclosure. ¹ Preliminary. ² Includes countries not shown separately.

Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1252. Aluminum—Summary: 1980 to 1989

[See *Historical Statistics, Colonial Times to 1970*, series M 258-262, for aluminum in short tons]

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989 ¹
Production	1,000 metric ton	5,914	4,740	4,917	5,859	5,262	4,810	5,329	6,066	6,084
Primary aluminum	1,000 metric ton	4,654	3,274	3,353	4,099	3,500	3,037	3,343	3,944	4,030
Plant capacity, U.S.	1,000 metric ton	(NA)	(NA)	5,001	(NA)	4,706	4,038	3,895	3,960	4,016
Secondary aluminum ²	1,000 metric ton	1,260	1,466	1,564	1,760	1,762	1,773	1,986	2,122	2,054
Value ³ (primary metal)	Bil. dol.	9.3	7.9	8.4	10.5	9.4	8.6	8.5	14.7	11.8
Primary aluminum	Bil. dol.	7.3	5.5	5.8	7.3	6.3	5.4	5.3	9.6	7.8
Price	Cents/lb.	71.6	76.0	77.8	81.0	81.0	81.0	87.2	110.1	87.8
Secondary aluminum ³	Bil. dol.	2.0	2.4	2.6	3.2	3.1	3.2	3.2	5.1	4.0
Imports for consumption ⁴	1,000 metric ton	647	878	1,091	1,477	1,420	1,967	1,850	1,620	1,661
Value	Bil. dol.	0.1	1.3	1.6	2.5	2.0	2.7	2.9	3.5	3.7
Exports ⁵	1,000 metric ton	1,346	748	776	734	908	753	917	1,247	1,613
Value	Bil. dol.	2.4	1.2	1.3	1.3	1.3	1.2	1.6	2.9	3.4
Shipments ⁶ (net domestic)	1,000 metric ton	5,515	5,090	5,857	6,552	6,382	6,545	6,813	6,851	6,857
World production, est	1,000 metric ton	15,383	13,433	13,904	15,705	15,398	15,354	16,378	17,608	17,980
World plant capacity	1,000 metric ton	16,978	17,403	17,737	18,215	18,010	17,855	17,968	18,480	(NA)

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. 1253. Magnesium—Summary: 1980 to 1989

[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	1982	1983	1984	1985	1986	1987	1988	1989 ¹
Production (domestic)	189	132	146	188	178	168	169	192	203
Primary ²	153	93	104	144	136	126	124	142	152
Secondary (recovered from scrap)	36	39	42	44	42	42	45	50	51
Exports	52	36	43	44	36	40	45	50	57
Value (mil. dol.)	127.7	104.8	124.7	136.7	113.6	122.4	130.7	145.3	170.4
Imports	4	5	5	8	8	8	11	14	12
Value (mil. dol.)	8.3	15.6	16.3	25.7	25.1	24.6	31.0	39.3	37.9
Consumption	67	68	74	82	84	79	95	101	105
Castings and wrought products	15	13	14	13	15	16	17	20	19
Alloys (aluminum)	49	36	41	44	37	37	50	51	52
Other	22	19	19	25	24	17	17	30	34
Price per pound (cents)	(³)	134	138	(³)	(³)	153	153	(³)	163
World production (primary)	316	254	260	327	325	322	324	334	344

¹ Preliminary. ² For 1980, figures are the difference between total North American production reported by the International Magnesium Association and Canadian production. ³ Price range for 1980, 107-125 cents; 1984, 143-148 cents; 1985, 148-153 cents; and 1988, 158-163 cents. ⁴ Estimated.

No. 1254. Platinum-Group Metals—Summary: 1980 to 1989

[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-medical industries]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988 ¹	1989 ¹
World mine production, total²	6,848	6,424	6,525	7,653	7,941	8,314	8,593	281,854	283,643
United States	3	8	6	15	(D)	(D)	(D)	1,240	1,430
Soviet Union	3,250	3,500	3,600	3,700	3,800	3,850	3,900	127,500	127,500
South Africa	3,100	2,600	2,600	3,500	3,700	3,960	4,220	133,300	135,800
Refinery production, total domestic³	1,413	1,222	1,307	1,521	1,304	1,513	1,615	51,488	50,546
Primary refined	3	9	9	24	7	4	6	297	339
Secondary refined	1,410	1,213	1,298	1,497	1,297	1,509	1,609	51,191	50,207
Imports	3,502	2,494	3,218	4,474	3,990	4,477	3,807	124,324	113,278
Value (mil. dol.)	1,177	554	753	1,118	1,026	1,347	1,240	1,348	1,382
Exports	765	836	1,229	1,162	889	751	708	28,787	38,128
Value (mil. dol.)	341	182	310	275	187	202	225	310	398
Consumption	2,206	1,873	1,914	2,200	2,271	2,080	1,938	70,998	78,439
Industry stocks, Jan. 1	761	918	1,107	943	1,319	1,129	1,292	35,515	32,543
Producer price per troy ounce (dol.):									
Platinum	439	475	475	475	475	519	600	600	600
Palladium	214	110	130	147	127	131	150	150	150
Rhodium	766	600	600	625	915	1,196	1,239	1,275	1,275
Iridium	505	600	600	600	600	600	532	420	(NA)

D Withheld to avoid disclosing company proprietary data. NA Not available. ¹ 1988 and 1989 data reported in Kilograms. ² Includes countries not shown separately. ³ Reported sales to industry.

No. 1255. Titanium—Summary: 1980 to 1989

[In 1,000 metric tons, except as indicated. 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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 ¹
Ilmenite concentrate:										
Mine shipments	539	475	211	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Value (mil. dol.)	32.0	37.0	19.1	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Imports	324	214	316	235	372	460	423	308	394	412
Value (mil. dol.)	6.7	5.9	8.8	9.3	11.1	14.6	16.8	12.0	19.5	25.5
Consumption	770	777	529	663	710	686	731	744	679	660
Titanium dioxide pigments:										
Production	660	690	599	689	758	784	845	864	927	1,007
Imports for consumption	89	113	126	159	176	178	184	174	185	166
Apparent consumption	683	731	672	774	831	894	908	966	992	947
Price, Dec. 31:										
Anatase (cents per lb.)	57	69	69	69	69	72	77	77	95	102
Rutile (cents per lb.)	63	75	75	75	75	78	82	82	97	105
World production:										
Ilmenite concentrate	3,726	3,648	3,029	2,674	2,475	2,456	2,420	2,879	2,403	2,423
Titanium slag	1,191	1,129	1,050	1,052	1,143	1,280	1,285	1,575	1,725	1,765
Rutile concentrate, natural ²	435	362	338	316	341	373	394	439	434	476

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 1253-1255: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1256. Chromite—Summary: 1980 to 1989

[In thousands of metric tons, except as indicated]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989
Imports for consumption ¹	891	460	173	276	376	443	490	615	525
Value (mil. dol.)	57	30	10	15	20	22	24	42	44
South Africa	367	251	131	214	273	309	251	387	368
Soviet Union	154	31	(Z)	-	-	20	19	18	11
Philippines	125	64	12	44	38	17	15	2	22
Exports	5	7	10	50	91	84	1	4	40
Reexports	40	52	4	3	3	1	5	1	2
Consumption, total	886	506	290	465	508	388	504	551	561
Metallurgical industry	740	434	225	376	449	342	459	495	517
Refractory industry	145	72	65	88	59	45	46	56	44
Stocks, Dec. 31 (consumer)	613	495	413	297	272	285	332	390	392
World production ¹	9,902	8,480	8,210	9,776	10,935	11,547	11,355	12,167	11,901
South Africa	3,414	2,431	2,466	3,407	3,699	3,907	3,847	4,245	3,800
Soviet Union	2,903	2,939	2,939	2,940	3,360	3,640	3,570	3,700	3,800
Philippines	496	322	267	261	272	174	188	190	190

- Represents zero. Z Less than 500 short tons. ¹ Includes countries not shown separately.Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1257. Ferroalloys—Summary: 1980 to 1989

[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 1330-1334]

ITEM	QUANTITY					VALUE (mil. dol.)				
	1,000 short tons			1,000 (metric tons)						
	1980	1985	1987	1988	1989, prel.	1980	1985	1987	1988	1989, prel.
Domestic shipments ¹	1,486	942	872	894	894	1,130	699	719	936	928
Ferromanganese	194	157	129	(3)	(3)	100	101	225	(3)	(3)
Silicomanganese	162	(4)	(4)	(3)	(3)	70	(4)	(4)	(3)	(3)
Manganese metal	(NA)	(4)	(4)	(3)	(3)	(NA)	(4)	(4)	(3)	(3)
Ferrosilicon	681	405	375	431	437	443	190	193	299	320
Silicon metal	125	122	150	147	133	(NA)	157	187	219	176
Chromium alloys	238	109	127	(3)	(3)	180	98	107	(3)	(3)
Ferrophosphorus	85	55	41	46	63	13	8	6	10	10
U.S. exports	156	106	93	95	112	174	135	165	281	182
Ferroalloys	129	99	78	76	102	93	63	45	76	83
Metals	27	8	15	19	10	81	72	116	205	99
Silicon	14	2	9	9	5	66	62	106	184	84
Manganese	12	5	6	9	5	12	7	10	16	11
U.S. imports ¹	1,149	1,131	1,229	1,455	1,296	644	601	643	1,140	1,181
Ferroalloys	1,116	1,067	1,124	1,384	1,237	586	488	436	986	1,057
Manganese alloys	684	533	559	693	664	241	156	172	304	398
Ferrosilicon	71	155	231	210	178	43	74	109	158	132
Chromium alloys	302	335	334	432	351	156	159	155	357	335
Metals	33	64	50	71	58	58	112	108	154	125
Silicon	21	52	37	56	43	21	83	74	109	80
Chromium	4	4	4	4	4	28	20	24	30	28
Manganese	8	9	9	11	11	8	9	10	15	17

NA Not available. ¹ Includes other not shown separately. ² Includes fused-salt electrolytic low and medium-carbon ferromanganese. ³ Included in "Domestic Shipments." ⁴ Included with ferromanganese.

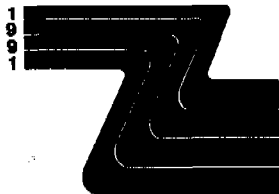
Source: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1258. Beryllium—Summary: 1980 to 1989

[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	1989, prel.
Imports for consumption	1,545	1,940	2,406	1,990	1,208	1,493	1,370	2,088	884	601
Consumption ¹	7,718	7,385	4,887	6,340	8,167	7,167	7,212	8,074	6,068	5,432
Price, per short ton unit BeO ² (dollars)	69	94	121	126	88	87	88	84	83	90
Year-end stocks	1,225	2,017	4,638	6,384	5,128	4,513	4,423	4,105	3,958	3,832
World production of beryl	9,319	9,624	8,167	9,147	8,982	8,141	8,259	7,932	8,302	7,586

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 5 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.

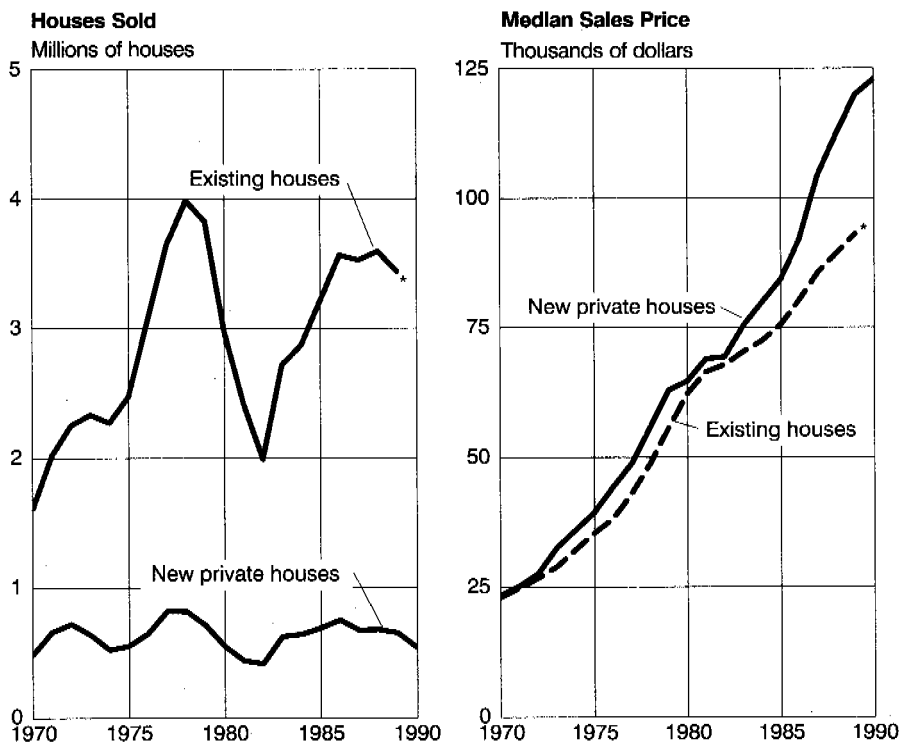
Data on residential mortgages were collected continuously from 1890 to 1970, except 1930, as part of the decennial census by the Bureau of the Census. Since 1973, mortgage status data, which are limited to single family homes on less than ten acres with no business on the property, have been presented 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 1990

* 1990 data not available.

Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1272, 1273, and 1275.

No. 1259. Construction Industries—Summary, by Industry: 1987

[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.)		VALUE OF CONSTRUCTION WORK (mil. dol.)		Value added ³ (mil. dol.)
			Total	Con- struction workers	Total	Con- struction workers	Total	Net ²	
(X)	All industries, total	544.2	5,054	3,989	111,067	79,742	499,982	367,746	230,174
	Contract construction	536.3	5,015	3,979	110,200	79,589	495,346	365,241	227,934
15	General building contractors	157.6	1,278	926	27,870	17,204	212,629	111,019	65,514
1521	Single-family houses	90.4	396	307	6,272	4,343	39,098	27,319	14,970
1522	Other residential buildings	8.1	82	61	1,752	1,130	13,316	6,257	3,659
1531	Operative builders	20.8	169	80	4,385	1,478	48,960	26,837	15,173
1541	Industrial buildings and warehouses	7.0	143	111	3,619	2,497	21,462	11,095	6,882
1542	Nonresidential buildings, n.e.c.	31.3	488	367	11,843	7,756	89,793	39,510	24,831
16	Heavy construction contractors	36.6	827	683	20,408	15,461	82,285	68,435	44,940
1611	Highway and street construction	11.0	284	239	7,041	5,397	34,161	27,984	17,120
1622	Bridge, tunnel, and elevated highway	1.2	47	40	1,192	910	5,481	4,187	2,430
1623	Water, sewer, and utility lines	10.0	198	166	4,513	3,428	17,010	15,055	10,090
1629	Heavy construction, n.e.c.	14.5	298	238	7,662	5,726	25,633	21,209	15,301
17	Special trade contractors	342.0	2,909	2,370	61,921	46,923	200,434	185,786	117,480
1711	Plumbing, heating, air-conditioning	69.6	617	471	14,330	10,311	49,503	44,518	25,912
1721	Painting and paperhanging	29.9	170	145	2,979	2,386	7,953	7,446	5,716
1731	Electrical work	49.4	509	406	12,664	9,622	35,838	34,658	21,817
1741	Masonry and other stonework	23.3	169	150	2,947	2,462	8,714	8,269	5,476
1742	Plastering, drywall, insulation	17.8	254	217	5,485	4,348	16,427	15,137	9,748
1743	Terrazzo, tile, marble, and mosaic work	5.1	34	28	734	554	2,272	2,182	1,318
1751	Carpentry	36.0	190	164	3,272	2,610	11,244	10,039	6,078
1752	Flooring and other floor work	8.2	45	35	906	645	3,651	3,371	1,880
1761	Roofing, siding, and sheet metal work	25.7	231	187	4,314	3,111	15,028	14,183	8,524
1771	Concrete work	23.4	218	187	4,175	3,278	15,056	13,854	8,443
1781	Water well drilling	3.4	18	14	335	249	1,330	1,299	780
1791	Structural steel erection	4.0	65	55	1,594	1,232	4,863	4,510	3,253
1793	Glass and glazing work	4.6	41	29	919	607	3,222	3,142	1,701
1794	Excavation work	13.4	95	79	2,060	1,598	8,244	7,491	5,708
1795	Wrecking and demolition work	1.2	14	12	261	195	912	845	782
1796	Installing building equipment, n.e.c.	3.8	62	50	1,858	1,447	5,360	5,010	3,723
1799	Special trade contractors, n.e.c.	23.2	176	142	3,089	2,269	10,814	9,833	6,622
6552	Land subdividers and developers, n.e.c.	8.0	40	9	867	153	4,636	2,505	2,240

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.

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1987*, series CCB7-I-28.

No. 1260. Construction Materials—Producer Price Indexes: 1970 to 1989

[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	1983	1984	1985	1986	1987	1988	1989
Construction materials	39.1	60.4	92.5	98.2	103.4	106.4	107.6	107.3	109.5	115.7	119.5
Interior solvent based paint	40.1	60.2	91.3	97.4	100.0	103.9	107.3	109.9	111.6	120.3	128.8
Plastic construction products	65.5	83.5	103.9	104.3	110.1	115.5	108.6	106.4	108.4	121.1	120.1
Douglas fir, dressed	40.8	79.6	132.6	117.1	135.8	129.2	126.5	124.5	125.1	135.7	151.6
Southern pine, dressed	40.1	61.9	104.0	102.0	111.9	111.8	105.2	104.9	114.1	112.4	108.0
Millwork	41.5	57.4	93.2	97.8	108.2	110.2	111.7	113.7	117.7	121.9	127.8
Softwood plywood	40.3	71.1	109.5	108.7	110.0	107.6	107.4	109.4	109.8	109.1	124.2
Hardwood plywood and related products	56.6	66.0	97.5	99.3	99.3	99.6	89.9	81.0	92.9	94.2	99.8
Softwood plywood veneer, ex. reinforced/backed	(NA)	75.2	126.0	118.9	103.3	103.3	100.1	105.9	108.4	117.3	142.1
Building paper and building board mill products	42.2	53.1	86.1	96.7	104.4	108.2	107.4	108.8	111.2	113.3	115.6
Tube, drawn, 6000 alloy series	35.6	56.5	85.6	94.0	100.9	109.7	109.7	109.8	111.2	128.9	131.0
Builders hardware	41.7	58.7	84.9	94.4	104.8	109.3	113.5	115.8	117.4	122.5	127.8
Plumbing fixtures and brass fittings	39.9	58.2	88.5	96.0	103.8	108.6	111.9	115.5	119.7	128.7	137.1
Heating equipment	46.6	63.5	87.0	94.5	102.7	106.6	109.5	113.0	115.5	126.2	125.1
Metal doors, sash, and trim	38.9	55.9	87.8	96.0	102.8	106.6	107.3	109.8	112.0	122.4	128.0
Incandescent outdoor lighting fixtures	34.4	53.0	82.7	92.6	104.7	109.2	109.2	112.0	117.2	122.4	128.0
Bright nails	31.4	68.1	90.9	97.7	98.0	99.4	100.2	99.8	101.2	104.7	110.4
Welded steel wire fabric for concrete reinforcing	40.6	(NA)	98.9	98.6	98.5	101.9	101.3	99.8	98.3	105.2	106.6
Elevators, escalators, and other lifts	42.3	62.0	87.3	92.7	97.3	97.1	97.7	99.2	100.4	103.6	107.1
Stamped metal outlet box	31.4	(NA)	82.7	91.2	105.2	114.9	119.7	152.0	160.1	168.7	171.7
Concrete ingredients and related products	36.3	55.6	88.4	95.6	101.1	105.1	108.5	109.4	110.4	112.0	113.2
Concrete products	37.7	57.3	92.0	97.8	101.4	103.9	107.5	109.2	109.4	110.0	111.2
Clay construction products exc. refractories	42.1	58.0	88.8	95.8	106.5	110.0	113.5	118.0	121.4	124.9	127.0
Prep. asphalt and tar roofing and siding products	28.8	61.7	105.5	101.6	94.1	97.7	100.5	96.8	91.9	94.4	95.6
Gypsum products	38.9	56.2	100.1	100.1	111.7	135.4	132.3	137.0	125.2	112.9	110.0
Insulation materials	34.6	55.0	80.7	(NA)	103.7	104.0	105.2	105.7	105.0	105.8	106.7
Paving mixtures and blocks	18.1	44.0	83.7	100.5	100.9	106.1	111.6	104.9	100.8	102.7	101.0

NA Not available.

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

No. 1261. Price and Cost Indexes for Construction: 1970 to 1990

[1987 = 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	1983	1984	1985	1986	1988	1989	1990
Bureau of the Census:										
Composite fixed-weighted ¹	31.7	48.5	77.7	86.7	90.3	93.1	96.5	103.8	107.2	109.7
Implicit price deflator ²	32.6	50.2	79.2	88.7	91.2	93.9	96.7	104.2	108.0	110.2
Bureau of the Census houses under construction:										
Fixed-weighted	30.2	45.0	75.6	85.0	88.8	91.0	95.6	103.6	106.7	109.1
Price deflator	31.4	46.8	77.9	87.7	90.1	92.0	95.8	104.1	107.9	109.9
Federal Highway Administration, composite ⁴	36.8	58.1	97.2	87.6	92.6	102.0	101.1	106.6	107.7	108.5
Bureau of Reclamation composite ⁵	34	55	81	95	96	98	99	103	107	111
Turner Construction Co.: Building construction ⁶	32	50	69	86	91	94	97	104	107	111
E. H. Boeckh, building cost index: ⁷										
Residences	(NA)	(NA)	(NA)	(NA)	(NA)	96.2	98.0	102.5	106.3	109.9
Apartments, hotels, and office buildings	(NA)	(NA)	(NA)	(NA)	(NA)	96.3	98.0	102.7	106.2	109.0
Commercial and factory buildings	(NA)	(NA)	(NA)	(NA)	(NA)	96.7	98.3	103.0	107.2	110.8
Engineering News-Record: ⁸										
Buildings	32.9	51.4	76.4	93.8	95.1	95.5	97.7	102.2	103.9	106.5
Construction	31.4	50.2	73.5	92.3	94.1	95.2	97.5	102.6	104.5	107.3
Handy-Whitman public utility: ⁹										
Buildings	32	57	83	89	94	96	98	104	107	108
Electric ¹⁰	32	55	80	95	97	98	99	107	111	115
Gas	34	54	79	97	100	100	97	106	111	114
Water ¹¹	32	54	81	91	94	97	98	103	106	108
C. A. Turner Telephone Plant ¹²	51	69	103	103	99	101	99	101	110	113

NA Not available. ¹ Weighted average of the various indexes used to deflate the Construction Put in Place series. In calculating the index, the weights (i.e., the composition of current dollar estimates in 1987 by category) are held constant. ² Derived ratio of total current to constant dollar Construction Put in Place (multiplied by 100). ³ Excludes value of site. ⁴ Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). ⁵ 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. ⁶ Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. ⁷ Average of 20 cities for types shown. Weights based on surveys of building costs. ⁸ Building index computed on the basis of a 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. Construction index based on same materials components combined with 200 hours of common labor. ⁹ Based on data covering public utility construction costs in 6 geographic regions. ¹⁰ Covers skilled and common labor. ¹¹ As derived by U.S. Bureau of the Census. Covers steam generation plants only. ¹² As derived by U.S. Bureau of the Census. Reflects costs for structures and improvements at water pumping and treatment plants. ¹³ Computed by the Census Bureau by averaging the weighted component indexes published for 6 geographic regions.

Source: U.S. Bureau of the Census. In U.S. Department of Commerce, International Trade Administration, *Construction Review*, bimonthly.

No. 1262. Value of New Construction Put in Place: 1964 to 1990

[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 (1987) DOLLARS				
	Total	Private			Public	Total	Private			Public
		Total	Residential buildings	Nonresidential buildings			Total	Residential buildings	Nonresidential buildings	
1964	72,124	51,921	30,526	14,412	20,203	294,569	211,627	124,768	60,892	82,942
1970	100,668	72,781	35,863	22,770	27,908	309,005	224,928	114,138	71,054	84,077
1971	117,313	87,614	48,514	23,872	29,699	337,405	254,456	145,554	68,666	82,949
1972	133,197	103,167	60,893	26,025	30,030	360,440	281,253	170,190	70,028	79,187
1973	146,641	114,293	65,085	29,949	32,348	364,441	285,440	168,249	74,435	79,001
1974	147,039	108,907	55,967	31,325	38,132	318,290	241,201	130,126	68,137	77,089
1975	145,467	102,174	51,581	27,545	43,293	289,581	208,434	109,920	57,220	81,147
1976	165,629	121,649	68,273	27,026	43,979	315,902	235,375	136,685	53,805	80,527
1977	191,211	148,129	92,004	29,693	43,083	337,461	263,021	165,926	54,954	74,440
1978	227,932	177,786	109,838	37,560	50,146	359,135	282,154	174,695	62,714	76,982
1979	256,909	200,284	116,444	49,505	56,646	360,239	284,473	165,116	74,028	75,766
1980	256,467	192,821	100,381	55,431	63,646	324,001	248,212	128,926	75,099	75,790
1981	267,674	202,982	99,241	64,695	64,691	315,651	242,128	118,343	80,423	73,523
1982	255,704	192,640	84,676	69,355	63,064	291,970	220,721	97,595	82,065	71,249
1983	290,933	227,483	125,521	65,675	63,450	327,943	256,717	143,108	75,419	71,227
1984	340,693	270,477	153,849	81,147	70,217	373,575	297,291	170,732	89,652	76,284
1985	368,736	290,913	158,474	95,317	77,823	392,754	312,493	172,398	102,510	80,260
1986	398,206	313,613	187,148	91,171	84,593	411,605	325,948	195,377	94,794	85,658
1987	410,208	319,639	194,656	91,994	90,569	410,196	319,541	194,622	91,944	90,655
1988	422,075	327,102	198,101	97,102	94,973	405,212	314,367	190,292	93,518	90,845
1989	432,068	333,515	196,551	103,358	98,551	399,942	308,514	182,045	96,033	91,429
1990	434,936	325,095	187,422	102,483	109,842	394,432	294,545	170,543	92,758	99,868

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30, and press release, CB-91-14.

**No. 1263. Value of New Construction Put in Place in Current and Constant (1987)
Dollars: 1985 to 1990**

[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 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 C30-9005. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

TYPE OF CONSTRUCTION	CURRENT DOLLARS					CONSTANT (1987) DOLLARS				
	1985	1987	1988	1989	1990, prel.	1985	1987	1988	1989	1990, prel.
Total new construction	368,736	410,208	422,075	432,066	434,836	392,754	410,196	405,212	399,942	394,432
Private construction	290,913	319,639	327,102	333,515	325,095	312,493	319,541	314,367	308,514	294,545
Residential buildings	158,474	194,656	198,101	196,551	187,422	172,338	194,622	190,292	182,045	170,543
New housing units	114,662	139,915	138,947	139,202	129,780	124,699	139,893	133,469	128,944	118,101
1 unit	86,123	114,463	116,649	116,898	110,690	93,659	114,432	112,045	108,279	100,726
2 or more units	28,539	25,452	22,298	22,304	19,090	31,400	25,462	21,424	20,665	17,375
Improvements	43,812	54,741	59,154	57,349	(NA)	47,639	54,729	56,823	53,101	(NA)
Nonresidential buildings	95,317	91,994	97,102	103,358	102,483	102,510	91,944	93,518	96,033	92,758
Industrial	15,769	13,707	14,930	18,507	20,582	16,960	13,695	14,375	17,188	18,628
Office	31,580	26,430	28,044	28,597	25,303	33,967	26,422	27,012	26,582	22,907
Hotels, motels	7,301	7,380	6,794	7,617	8,404	7,853	7,381	6,547	7,078	7,809
Other commercial	28,048	29,015	30,059	30,791	29,368	30,159	28,994	28,946	28,801	26,581
Religious	2,409	2,753	2,822	2,972	2,992	2,590	2,751	2,718	2,762	2,707
Educational	1,896	3,438	2,912	3,308	3,795	2,039	3,437	2,806	3,072	3,433
Hospital and institutional	5,583	6,035	7,219	7,537	8,111	6,007	6,031	6,954	7,005	7,340
Miscellaneous	2,729	3,236	4,320	4,028	3,926	2,935	3,233	4,160	3,744	3,554
Farm nonresidential	2,197	2,503	2,270	2,356	(NA)	2,366	2,503	2,187	2,190	(NA)
Public utilities	32,200	27,858	27,503	28,549	(NA)	32,528	27,842	26,338	25,746	(NA)
Telecommunications	8,397	9,194	9,801	9,132	(NA)	8,303	9,160	9,690	8,198	(NA)
Other public utilities	23,803	18,664	17,702	19,417	(NA)	24,226	18,683	16,648	17,548	(NA)
Railroads	4,048	2,451	2,793	2,716	(NA)	4,079	2,454	2,868	2,513	(NA)
Electric light and power	15,968	12,656	10,873	11,743	(NA)	16,389	12,669	10,186	10,583	(NA)
Gas	3,517	3,188	3,659	4,616	(NA)	3,506	3,191	3,440	4,144	(NA)
Petroleum pipelines	272	369	377	342	(NA)	271	369	354	307	(NA)
All other private	2,726	2,628	2,126	2,702	3,326	2,751	2,630	2,033	2,501	3,021
Public construction	77,823	90,569	94,973	98,551	109,842	80,260	90,655	90,845	91,429	99,888
Buildings	27,861	32,962	36,163	39,202	45,340	30,000	32,955	34,820	36,404	41,044
Housing and development	2,893	3,262	3,366	3,841	3,925	3,146	3,262	3,233	3,557	3,572
Industrial	1,968	1,457	1,413	1,300	1,471	2,118	1,458	1,361	1,208	1,332
Educational	9,329	11,476	14,267	16,727	20,397	10,033	11,471	13,737	15,534	18,448
Hospital	2,497	2,559	2,693	2,486	2,711	2,686	2,558	2,594	2,310	2,456
Other	11,174	14,208	14,424	14,848	16,835	12,016	14,207	13,896	13,795	15,236
Highways and streets	23,741	26,958	30,141	29,502	32,044	23,455	27,050	28,449	27,368	29,437
Military facilities	3,235	4,324	3,579	3,520	3,788	3,341	4,327	3,417	3,265	3,459
Conservation and development	5,144	5,519	4,728	4,968	4,718	5,279	5,517	4,567	4,589	4,239
Sewer systems	6,960	8,998	8,634	9,229	10,323	7,139	8,994	8,342	8,524	9,269
Water supply facilities	2,580	3,674	3,917	3,923	4,884	2,671	3,669	3,792	3,684	4,500
Miscellaneous public	8,302	8,134	7,810	8,207	8,744	8,374	8,143	7,459	7,593	7,940
Public ownership:										
State and local government	65,820	76,517	82,709	86,255	95,860	67,728	76,598	79,066	80,034	87,215
Federal government	12,004	14,052	12,264	12,296	13,982	12,533	14,057	11,780	11,395	12,673

NA Not available. ¹ Includes estimates for types of construction indicated as (NA). ² Includes amusement and recreational buildings, bus and airline terminals, animal hospitals and shelters, etc. ³ Includes privately owned streets and bridges, parking areas, sewer and water facilities, parks and playgrounds, golf courses, airfields, etc. ⁴ Includes federal administrative buildings, prisons, police and fire stations, courthouses, civic centers, passenger terminals, space facilities, postal facilities, etc. ⁵ Includes open amusement and recreational facilities, power generating facilities, transit systems, airfields, open parking facilities, etc.

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30, and press release, CB-91-14.

No. 1264. Value of Privately Owned Nonresidential Building Projects, by Construction Status, 1980 to 1989, and by Type of Project, 1989

[In billions of dollars]

CONSTRUCTION STATUS	1980	1982	1983	1984	1985	1986	1987	1988	1989				
									Total	Industrial	Office building	Other commercial	Other ¹
Value of projects—													
Started	48.3	55.5	63.3	84.7	90.8	89.7	87.2	97.8	85.3	13.6	22.1	27.4	22.2
Completed	48.4	56.3	60.3	68.2	82.8	99.3	83.3	92.2	94.2	15.1	27.6	27.5	24.0

¹ Privately owned hotels and motels, religious, educational, hospital and institutional, and miscellaneous nonresidential building projects.

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30.

No. 1265. Construction Contracts—Value of Construction and Floor Space of Buildings, by Class of Construction: 1980 to 1989

[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 7888-100]

YEAR	Total	Residential build- ings	NONRESIDENTIAL BUILDINGS								Non-build- ing con- struction	
			Total	Com- mer- cial ¹	Manu- fac- turing	Educa- tional ²	Hos- pital	Public build- ings	Reli- gious	Social and recrea- tional		Mis- cella- neous
VALUE (bil. dol.)												
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	2.8	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	260.8	121.9	90.6	46.1	9.3	12.8	8.2	4.4	2.2	4.6	3.1	48.2
1989	261.2	120.4	93.1	46.7	9.6	14.3	8.6	4.5	2.0	4.6	2.7	47.7
FLOOR SPACE (mil. sq. ft.)												
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	36	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	38	(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	3,578	2,249	1,328	815	158	129	71	38	32	48	36	(X)
1989	3,430	2,153	1,278	782	145	138	71	36	27	45	34	(X)

X Not applicable. ¹ Includes nonindustrial warehouses. ² Includes science.

No. 1266. Construction Contracts—Value, by State: 1985 to 1989

[In millions of dollars. See headnote, table 1265. Represents value of construction in States in which work was actually done]

STATE	1985	1987	1988	1989			STATE	1985	1987	1988	1989		
				Total (incl. non-bldg.)	Residential	Non-residential					Total (incl. non-bldg.)	Residential	Non-residential
U.S.	232,277	258,090	260,752	261,163	120,436	93,058	MO	3,851	4,421	4,177	4,188	1,866	1,590
AL	2,886	3,114	3,583	2,873	1,155	1,105	MT	898	559	577	483	197	118
AK	1,500	745	826	609	132	151	NE	1,040	960	1,049	1,115	442	413
AZ	6,629	5,785	5,266	4,965	2,117	1,758	NV	1,629	2,625	2,371	3,334	2,183	838
AR	1,649	1,424	1,260	1,836	658	790	NH	1,355	1,738	1,914	1,301	786	356
CA	32,456	37,350	41,492	41,461	23,976	12,843	NJ	8,077	8,667	8,739	7,255	2,637	3,073
CO	4,667	3,139	2,750	2,836	1,198	981	NM	1,771	1,502	1,400	1,266	500	396
CT	3,385	4,293	4,578	3,632	1,347	1,576	NY	11,366	15,609	14,187	16,405	5,958	6,284
DE	715	747	814	877	447	322	NC	6,671	7,089	7,650	7,230	3,514	2,744
DC	985	983	1,103	1,171	106	889	ND	557	429	448	458	171	121
FL	17,820	19,447	19,587	20,481	11,680	5,939	OH	6,943	9,218	9,807	10,338	4,177	4,643
GA	7,566	8,783	8,571	7,793	3,846	3,040	OK	2,650	2,260	1,723	1,918	708	690
HI	873	1,213	1,730	2,005	898	794	OR	1,634	1,832	2,161	2,454	1,319	675
ID	758	637	849	740	345	189	PA	7,008	10,191	9,862	10,478	4,380	3,927
IL	7,513	10,145	10,728	11,822	4,853	4,445	RI	828	1,083	1,051	1,302	424	334
IN	4,045	5,148	5,083	5,498	2,463	2,217	SC	3,446	3,679	3,684	3,369	1,672	1,208
IA	1,532	1,516	1,614	1,811	639	669	SD	485	405	427	498	179	154
KS	2,227	2,247	2,064	2,097	933	709	TN	4,394	5,108	5,019	4,835	2,084	1,693
KY	2,843	3,181	3,141	3,276	1,376	1,249	TX	21,305	14,867	13,724	12,831	4,630	4,942
LA	3,869	3,206	2,761	3,234	821	1,311	UT	1,633	1,409	1,402	1,411	559	462
ME	785	939	1,223	961	537	251	VT	487	530	711	628	399	159
MD	5,703	7,266	6,829	7,137	3,661	2,346	VA	7,586	8,933	9,934	9,005	4,643	2,873
MA	5,806	7,733	7,477	6,363	2,681	2,587	WA	4,409	5,232	5,057	5,236	2,763	1,530
MI	5,827	8,673	8,954	8,144	3,439	3,514	WV	858	1,112	810	844	233	283
MN	4,285	4,993	4,855	4,158	2,185	1,845	WI	3,038	3,638	3,668	4,443	1,829	1,584
MS	1,543	1,635	1,557	1,550	587	399	WY	693	479	507	408	106	69

Source of tables 1265 and 1266: F. W. Dodge, National Information Services Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potentials*.

No. 1267. New Privately-Owned Housing Units Authorized, by State: 1988 and 1989

[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	1989		1988	1989			1988	1989		1988	1989	
		Total	1 unit		Total	1 unit			Total	1 unit		Total	1 unit
U.S.	1,455.6	1,338.4	931.7	101,625	100,898	83,002	MO	23.5	18.0	13.8	1,448	1,222	1,083
AL	12.8	12.0	8.5	614	595	506	MT	0.8	0.7	0.5	53	54	47
AK	0.8	0.6	0.4	78	64	50	NE	5.7	6.0	3.8	294	313	271
AZ	32.9	23.8	20.2	2,462	1,939	1,791	NV	30.8	29.3	16.1	1,301	1,514	1,098
AR	6.2	6.3	4.6	319	318	274	NH	11.7	7.3	5.5	826	562	483
CA	253.4	237.7	163.0	23,659	24,614	19,884	NJ	40.9	30.3	20.9	2,932	2,272	1,738
CO	12.9	11.1	9.0	980	1,057	949	NM	6.4	6.7	5.3	421	443	409
CT	18.9	12.0	8.0	1,365	902	770	NY	54.7	48.7	31.9	4,016	3,711	2,771
DE	7.4	5.8	4.6	354	331	297	NC	50.3	48.4	35.3	3,020	2,978	2,649
DC	0.9	0.4	0.1	35	17	7	ND	1.8	2.2	0.8	89	102	68
FL	170.6	165.0	107.0	9,670	10,434	7,966	OH	45.1	41.2	27.0	3,076	3,080	2,601
GA	63.0	50.5	35.1	3,688	3,051	2,570	OK	5.0	5.6	4.6	324	407	372
HI	8.4	9.6	6.2	657	889	575	OR	14.0	23.1	11.4	929	1,401	1,028
ID	3.2	4.8	3.6	226	342	308	PA	53.8	45.5	37.7	3,863	3,424	3,097
IL	49.1	42.4	30.2	4,058	3,781	3,213	RI	6.1	3.9	2.9	365	288	252
IN	25.2	26.5	19.0	1,825	1,972	1,724	SC	23.1	21.2	16.9	1,391	1,339	1,194
IA	6.8	7.4	4.9	417	477	387	SD	1.9	2.1	1.2	90	106	78
KS	9.7	8.6	6.8	759	698	638	TN	27.8	24.2	17.6	1,680	1,451	1,284
KY	13.4	12.7	8.9	787	779	685	TX	40.5	41.3	36.6	3,139	3,438	3,314
LA	7.3	6.1	5.2	402	375	349	UT	6.3	6.0	5.6	452	474	457
ME	8.8	6.4	5.2	548	428	380	VT	4.8	3.6	3.0	344	274	246
MD	39.6	40.6	29.7	2,650	2,704	2,314	VA	68.5	56.9	40.5	4,059	3,886	3,199
MA	30.5	21.3	14.5	2,524	1,854	1,492	WA	45.1	48.2	26.4	2,668	3,247	2,319
MI	44.9	45.7	30.8	2,776	2,987	2,480	WV	1.8	1.7	1.4	91	99	82
MN	28.4	25.1	18.3	2,072	1,947	1,668	WI	24.1	26.9	15.4	1,460	1,689	1,257
MS	7.4	6.6	4.7	340	317	269	WY	0.7	0.5	0.5	50	52	50

Source: U.S. Bureau of the Census, *Construction Reports*, series C40, annual.

No. 1268. Valuation of Construction Authorized by Permit, by Type of Construction and State: 1989

[In millions of dollars]

STATE	Total ¹	Residential	NONRESIDENTIAL				STATE	Total ¹	Residential	NONRESIDENTIAL			
			Total ²	Industrial	Office	Stores				Total ²	Industrial	Office	Stores
U.S.	193,795	100,698	48,443	9,558	12,581	13,126	MO	2,827	1,222	796	114	211	227
AL	1,572	595	446	48	106	169	MT	153	54	32	3	4	15
AK	160	64	28	4	3	11	NE	654	313	165	29	38	42
AZ	3,365	1,939	875	104	245	301	NV	2,733	1,514	425	89	53	147
AR	722	318	235	60	24	67	NH	1,043	562	222	40	39	52
CA	40,870	24,614	8,350	1,634	2,517	2,164	NJ	5,732	2,272	1,559	371	520	367
CO	2,121	1,057	478	112	108	112	NM	848	443	186	28	56	58
CT	2,588	902	681	118	224	138	NY	8,446	3,711	2,238	251	503	659
DE	716	331	197	16	53	84	NC	5,549	2,978	1,473	235	410	428
DC	139	17	40		26	7	ND	220	102	49	8	6	8
FL	17,037	10,434	3,610	337	807	1,233	OH	6,583	3,080	1,837	408	570	449
GA	5,846	3,051	1,575	243	434	491	OK	830	407	209	31	44	55
HI	1,783	889	405	11	146	90	OR	2,396	1,401	550	122	167	156
ID	622	342	144	19	35	52	PA	7,356	3,424	2,132	397	583	448
IL	8,239	3,781	2,450	405	888	663	RI	591	288	133	35	21	44
IN	3,730	1,972	1,174	385	138	326	SC	2,601	1,339	727	125	147	231
IA	1,172	477	394	95	99	101	SD	290	106	77	9	12	31
KS	1,334	698	332	86	56	84	TN	3,104	1,451	935	145	216	342
KY	1,483	779	442	68	89	145	TX	8,177	3,438	2,802	1,300	374	494
LA	1,251	375	468	207	54	92	UT	1,012	474	332	54	94	72
ME	876	428	201	39	47	43	VT	493	274	98	29	14	25
MD	4,944	2,704	979	167	301	270	VA	7,361	3,886	1,975	217	719	550
MA	4,397	1,854	1,072	172	295	259	WA	5,211	3,247	1,133	165	380	316
MI	6,112	2,987	1,647	453	362	479	WV	291	99	96	9	21	41
MN	3,888	1,947	855	195	176	187	WI	3,415	1,689	870	236	121	228
MS	792	317	287	129	25	61	WY	115	52	26	3	2	15

¹ Represents zero. ² Includes residential and nonresidential additions and alterations, residential nonhousekeeping buildings, and residential garages and carports, not shown separately. ³ Includes other types of construction not shown separately.

Source: U.S. Bureau of the Census, unpublished data.

No. 1269. New Privately-Owned Housing Units Started—Selected Characteristics: 1970 to 1990

[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	266	80
1987	1,620	1,146	65	409	269	298	634	420	196	73	123	176	58
1988	1,488	1,081	59	348	235	274	575	404	148	53	95	117	52
1989	1,376	1,003	55	318	179	266	536	396	118	37	82	(NA)	(NA)
1990	1,193	895	37	261	131	253	480	329	(NA)	(NA)	(NA)	(NA)	(NA)

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, and press release, CB91-64.

No. 1270. New Privately-Owned Housing Units Started, by State: 1985 to 1989

[In thousands of units]

REGION, DIVISION, AND STATE	1985	1987	1988	1989		REGION, DIVISION, AND STATE	1985	1987	1988	1989	
				Total units	Single-family units					Total units	Single-family units
U.S. . .	1,741.0	1,622.0	1,488.0	1,374.0	1,002.0	DC. . .	0.7	2.7	2.8	3.5	1.1
Northeast . .	251.0	269.0	235.0	177.0	132.0	VA. . .	74.6	70.0	69.3	66.8	48.2
N.E. . .	90.8	100.1	81.2	58.3	42.7	WV. . .	2.0	2.1	2.1	1.7	1.5
ME. . .	7.8	9.6	8.1	6.7	5.4	NC. . .	82.6	61.6	53.4	51.2	42.5
NH. . .	15.5	14.7	11.2	6.5	4.7	SC. . .	30.8	27.8	24.2	24.0	20.1
VT. . .	3.7	4.6	4.5	3.7	3.2	GA. . .	67.9	69.1	63.1	53.7	36.6
MA. . .	34.6	39.2	29.0	21.9	15.4	FL. . .	193.8	193.9	185.1	165.4	117.8
RI. . .	4.8	6.9	6.8	5.0	3.5	E.S.C. . .	93.6	75.3	65.0	61.6	49.9
CT. . .	24.3	25.1	21.4	14.5	10.5	KY. . .	19.9	15.4	13.3	14.3	11.5
M.A. . .	160.2	168.9	153.8	119.2	89.2	TN. . .	45.5	35.0	30.8	28.3	22.8
NY. . .	60.4	62.5	56.2	42.9	29.2	AL. . .	19.3	17.3	13.9	12.0	10.0
NJ. . .	56.3	51.1	46.3	34.4	25.0	MS. . .	8.9	7.7	7.1	7.0	5.6
PA. . .	43.5	55.4	51.4	41.9	35.1	W.S.C. . .	191.9	82.6	67.6	62.3	56.6
Midwest . .	241.0	299.0	274.0	266.0	190.0	AR. . .	9.9	8.0	11.8	6.7	5.7
E.N.C. . .	149.2	208.8	184.1	192.9	135.2	LA. . .	17.2	9.5	8.0	7.0	5.6
OH. . .	30.2	47.5	43.8	47.3	34.1	OK. . .	14.0	7.5	6.7	7.1	6.0
IN. . .	21.3	30.0	24.5	31.0	23.6	TX. . .	150.8	57.6	41.1	41.6	39.2
IL. . .	42.4	54.3	49.8	46.9	33.6	West . . .	467.0	420.0	404.0	394.0	271.0
MI. . .	38.3	52.9	45.3	40.8	27.0	Mt. . .	157.5	98.3	87.9	81.6	57.0
WI. . .	17.1	24.2	20.8	26.9	16.9	MT. . .	2.8	0.9	1.1	0.6	0.5
W.N.C. . .	91.8	90.2	89.9	73.1	54.8	ID. . .	4.2	3.5	2.9	4.8	3.6
MN. . .	25.7	33.8	34.2	22.9	17.9	WY. . .	3.8	0.7	0.7	0.5	0.5
IA. . .	4.6	6.2	6.0	9.0	6.2	CO. . .	33.6	19.2	11.9	10.7	8.7
MO. . .	33.4	29.0	31.1	19.5	15.3	NM. . .	9.8	7.7	4.9	5.3	3.8
ND. . .	1.9	2.0	1.3	2.3	1.0	AZ. . .	72.1	40.9	38.4	24.1	19.6
SD. . .	2.7	2.0	1.8	2.6	1.5	UT. . .	17.3	8.2	5.7	5.5	5.2
NE. . .	5.4	5.5	5.0	7.1	4.9	NV. . .	14.0	17.3	22.3	30.2	15.2
KS. . .	18.1	11.7	10.5	9.7	8.0	Pac. . .	308.5	321.7	316.1	313.4	214.0
South . .	782.0	634.0	575.0	535.0	409.0	WA. . .	34.4	40.2	31.7	45.9	25.2
S.A. . .	496.5	476.1	442.4	411.8	302.6	OR. . .	11.5	13.5	13.9	13.5	9.7
DE. . .	4.9	7.9	8.9	7.0	6.3	CA. . .	253.4	261.4	265.1	245.5	173.9
MD. . .	39.3	41.1	33.4	38.6	28.4	AK. . .	4.3	0.8	0.6	0.6	0.4
						HI. . .	5.9	5.8	5.0	7.8	4.7

Source: National Association of Home Builders, Economics Division, Washington, DC. Data provided by the Econometric Forec

No. 1271. Characteristics of New Privately Owned One-Family Houses Completed: 1970 to 1990

[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	1989	1990, prel.	CHARACTERISTIC	1970	1980	1985	1989	1990, prel.
Total houses (1,000) ..	793	957	1,072	1,026	965	Bedrooms	100	100	100	100	100
Financing	100	100	100	(NA)	(NA)	2 or less	13	17	25	15	15
Mortgage	84	81	81	(NA)	(NA)	3	63	63	57	57	57
FHA-insured	30	16	15	(NA)	(NA)	4 or more	24	20	18	28	29
VA-guaranteed	7	8	7	(NA)	(NA)	Bathrooms	100	100	100	100	100
Conventional	47	55	57	(NA)	(NA)	1 or less	32	18	13	8	8
Farmers Home						1 1/2	20	10	11	6	5
Administration	3	3	(NA)	(NA)	(NA)	2	32	48	48	42	42
Cash or equivalent	16	18	19	(NA)	(NA)	2 1/2 or more	16	25	29	44	45
Floor area	100	100	100	100	100	Heating fuel	100	100	100	100	100
Under 1,200 sq. ft.	36	21	20	13	11	Electricity	28	50	44	34	33
1,200 1,599 sq. ft.	28	29	30	23	22	Gas	62	41	49	58	59
1,600 1,999 sq. ft.	16	22	21	22	22	Oil	8	3	3	5	5
2,000 2,399 sq. ft.	21	13	12	16	17	Other	1	5	4	3	3
2,400 sq. ft. and over ..		15	17	26	29	Heating system	100	100	100	100	100
Average (sq. ft.)	1,500	1,740	1,785	2,035	2,080	Warm air furnace ..	71	57	54	63	65
Median (sq. ft.)	1,385	1,595	1,605	1,850	1,905	Electric heat pump ..	(NA)	24	30	24	23
Number of stories	100	100	100	(NA)	(NA)	Other	29	19	15	13	12
1	74	60	52	(NA)	(NA)	Central air-conditioning	100	100	100	100	100
2 or more	17	31	42	(NA)	(NA)	With	34	63	70	77	76
Split level	10	8	6	(NA)	(NA)	Without	66	37	30	23	24
Foundation	100	100	100	100	100	Fireplaces	100	100	100	100	100
Full or partial basement	37	36	35	37	38	No fireplace	65	43	41	35	34
Slab	36	45	48	43	41	1 or more	35	56	59	65	66
Crawl space	27	19	18	19	21	Parking facilities	100	100	100	100	100
						Garage	58	69	70	80	82
						Carport	17	7	5	3	2
						No garage or carport ..	25	24	25	17	16

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*, annual, and press release, CB91-48.

No. 1272. New Privately Owned One-Family Houses Sold, by Region and Type of Financing, 1970 to 1990, and by Sales-Price Group, 1990

[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	Midwest	South	West	Conven-tional	FHA and VA	Farm-ers Home Admin.	Cash
1970	485	61	100	203	121	213	244	()	27
1971	656	82	127	270	176	314	314	()	28
1972	718	96	130	305	187	447	242	()	30
1973	634	95	120	257	161	465	134	()	34
1974	519	69	103	207	139	378	112	()	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	876	101	97	276	202	437	171	6	62
1989	650	86	102	260	202	416	162	14	58
1990, prel.	536	73	89	225	149	339	138	9	50
Under \$80,000	109	3	23	70	13	(NA)	(NA)	(NA)	(NA)
\$80,000 to \$119,999 ..	148	13	27	72	36	(NA)	(NA)	(NA)	(NA)
\$120,000 to \$149,999 ..	89	16	15	30	28	(NA)	(NA)	(NA)	(NA)
\$150,000 to \$199,999 ..	87	15	12	27	33	(NA)	(NA)	(NA)	(NA)
\$200,000 and over	103	25	13	25	40	(NA)	(NA)	(NA)	(NA)

NA Not available. 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. 1273. Median Sales Price of New Privately Owned One-Family Houses Sold, by Region: 1970 to 1990

[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	Midwest	South	West	YEAR	U.S.	North-east	Midwest	South	West
1970.....	23,400	30,300	24,400	20,300	24,000	1981.....	68,900	76,000	65,900	64,400	77,800
1971.....	25,200	30,600	27,200	22,500	25,500	1982.....	69,300	78,200	68,900	66,100	75,000
1972.....	27,600	31,400	29,300	25,800	27,500	1983.....	75,300	82,200	79,500	70,900	80,100
1973.....	32,500	37,100	32,900	30,900	32,400	1984.....	79,900	88,600	85,400	72,000	87,300
1974.....	35,900	40,100	36,100	34,500	35,800	1985.....	84,300	103,300	80,300	75,000	92,600
1975.....	39,300	44,000	39,600	37,300	40,600	1986.....	92,000	125,000	88,300	80,200	95,700
1976.....	44,200	47,300	44,800	40,500	47,200	1987.....	104,500	140,000	95,000	88,000	111,000
1977.....	48,800	51,800	51,500	44,100	53,500	1988.....	112,500	149,000	101,600	92,000	126,500
1978.....	55,700	58,100	59,200	50,300	61,300	1989.....	120,000	159,600	108,800	96,400	139,000
1979.....	62,900	65,500	63,900	57,300	69,600	1990, prel..	123,000	157,500	108,000	99,000	148,000
1980.....	64,600	69,500	63,400	59,600	72,300						

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. 1274. New Mobile Homes Placed for Residential Use and Average Sales Price, by Region: 1974 to 1989

[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.....	233.7	16.9	47.3	145.2	70.5	17,600	15,800	16,100	15,800	23,100
1980.....	223.2	12.3	32.3	140.3	48.7	19,800	18,500	18,600	18,200	25,400
1981.....	234.1	12.4	30.1	143.5	43.6	19,900	19,000	18,900	18,400	25,600
1982.....	278.1	16.3	25.6	161.1	35.0	19,700	19,800	20,000	18,500	24,700
1983.....	287.9	19.8	35.3	193.4	39.4	21,000	21,400	20,400	19,700	27,000
1984.....	283.4	20.2	36.6	187.6	38.9	21,500	22,200	21,100	20,200	27,400
1985.....	256.1	21.2	37.2	162.3	35.4	21,800	22,700	21,500	20,400	28,700
1986.....	239.2	23.6	40.0	145.5	30.1	22,400	24,400	21,800	20,700	29,900
1987.....	224.3	22.7	39.1	130.7	31.8	23,700	25,600	23,700	21,900	31,000
1988.....	204.8	20.2	39.1	114.9	30.6	25,100	27,000	24,600	22,700	33,900
1989.....						26,900	28,600	26,200	24,500	35,700

Source: U.S. Bureau of the Census, *Construction Reports*, series C20.

No. 1275. Existing One-Family Houses Sold and Price, by Region: 1970 to 1989

[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	23,900	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.....	3,650	515	1,101	1,231	803	42,900	44,400	36,700	39,800	57,300
1978.....	3,986	516	1,144	1,416	911	48,700	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	71,900	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
1989.....	3,440	589	919	1,307	610	93,100	145,200	71,300	84,500	139,900

Source: NATIONAL ASSOCIATION OF REALTORS R, Washington, DC, *Existing Home Sales*, monthly, and *Home Sales Yearbook: 1989*. (Copyright.)

No. 1276. Median Sales Price of Existing One-Family Homes, by Selected Metropolitan Area: 1985 to 1990

[In thousands of dollars. Areas are metropolitan statistical areas (MSA's) except as indicated; for definitions and components, see Appendix II]

METROPOLITAN AREA	1985	1988	1989	1990, 2d qtr.	METROPOLITAN AREA	1985	1988	1989	1990, 2d qtr.
U.S., all areas	75.5	89.3	93.1	96.9	Louisville, KY-IN	50.6	54.5	58.4	59.7
Akron, OH PMSA	52.7	59.9	64.5	67.0	Memphis, TN-AR-MS	64.6	76.3	78.1	78.1
Albany-Schenectady-Troy, NY	60.3	92.2	104.9	106.9	Miami-Hialeah, FL PMSA	80.5	82.9	86.9	89.0
Albuquerque, NM	76.8	80.4	83.0	86.1	Milwaukee, WI PMSA	67.5	74.5	79.6	86.6
Anaheim-Santa Ana, CA PMSA	136.2	206.9	241.6	248.9	Minneapolis-St. Paul, MN-WI	75.2	85.2	87.2	90.3
Baltimore, MD	72.6	88.7	96.3	100.9	Nashville, TN	66.1	77.6	79.9	82.4
Baton Rouge, LA	74.6	84.7	83.8	86.5	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	134.0	183.8	183.2	175.0
Birmingham, AL	64.5	75.7	78.5	82.6	Oklaoma City, OK	64.7	56.2	53.5	54.1
Boston, MA PMSA	134.2	181.2	181.9	176.2	Omaha, NE-IA	58.3	59.5	60.6	61.4
Buffalo-Niagara Falls, NY CMSA	46.7	65.6	72.5	77.3	Orlando, FL	70.3	79.1	79.8	83.3
Chicago, IL PMSA	81.1	98.9	107.0	116.6	Philadelphia, PA-NJ PMSA	74.0	102.4	103.9	110.8
Cincinnati, OH-KY-IN PMSA	60.2	69.7	75.8	81.4	Phoenix, AZ	74.7	80.0	78.8	84.0
Cleveland, OH PMSA	64.4	69.2	75.2	81.5	Portland, OR PMSA	61.5	64.4	70.1	79.7
Columbus, OH	62.2	72.6	77.9	82.4	Providence, RI PMSA	67.5	130.6	130.2	130.5
Dallas, TX PMSA	94.0	90.8	92.4	92.0	Riverside/San Bernardino, CA PMSA	(NA)	106.7	123.8	133.2
Denver, CO PMSA	84.3	81.8	85.5	87.0	Rochester, NY	64.2	75.7	78.5	79.9
Des Moines, IA	52.5	55.8	57.5	58.1	St. Louis, MO-IL	65.7	78.1	76.9	82.0
Detroit, MI PMSA	51.7	73.1	73.7	77.9	Salt Lake City-Ogden, UT	66.7	67.7	69.4	68.2
Ft. Lauderdale-Hollywood-Pompano Beach, FL PMSA	74.6	81.1	83.9	92.2	San Antonio, TX	67.7	65.0	64.2	62.8
Ft. Worth, TX PMSA	74.9	73.3	79.9	74.6	San Diego, CA	106.4	147.8	181.8	183.7
Hartford, CT PMSA	99.6	167.6	165.9	159.3	San Francisco-Oakland-San Jose, CA CMSA	(NA)	212.6	260.2	263.6
Honolulu, HI	162.1	215.1	267.6	345.0	Seattle/Tacoma, WA CMSA	(NA)	88.7	115.0	147.6
Houston, TX PMSA	78.6	61.8	66.7	71.4	Syracuse, NY	58.8	74.6	79.3	80.5
Indianapolis, IN	55.0	66.1	71.2	82.3	Tampa-St. Petersburg-Clearwater, FL	58.4	65.6	71.9	70.4
Jacksonville, FL	58.4	67.7	69.3	73.0	Tulsa, OK	66.7	65.0	62.6	64.4
Kansas City, MO-KS	61.4	70.5	71.6	73.2	Washington, DC-MD-VA	97.1	132.5	144.4	150.9
Las Vegas, NV	75.1	78.8	85.7	93.3	West Palm Beach-Boca Raton-Delray Beach, FL	88.3	99.0	102.6	108.2
Los Angeles-Long Beach, CA PMSA	118.7	179.4	214.1	216.9					

NA Not available.

Source: NATIONAL ASSOCIATION OF REALTORS R, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

No. 1277. Existing Home Sales, by State: 1985 to 1989

[In thousands]

REGION, DIVISION, AND STATE	1985	1986	1987	1988	1989	REGION, DIVISION, AND STATE	1985	1986	1987	1988	1989
U.S. ¹	3,214.0	3,565.0	3,526.0	3,594.0	3,440.0	DC	9.9	11.6	10.5	10.8	9.0
Northeast	756.3	848.3	874.4	859.3	775.0	VA	107.2	130.4	113.0	113.6	100.3
N.E.	206.0	213.6	233.7	227.1	205.8	WV	37.7	39.7	36.6	44.5	45.9
ME	27.1	30.8	35.2	34.2	30.4	NC	123.3	139.2	140.6	141.8	132.8
NH	19.3	20.3	19.2	15.3	12.7	SC	52.6	58.0	60.9	63.3	60.2
VT	9.9	12.4	12.9	13.4	11.9	GA	65.1	75.1	89.0	84.9	82.0
MA	80.5	84.6	100.5	93.3	86.5	FL	151.3	169.4	184.2	183.1	185.9
RI	13.2	13.5	13.4	13.8	12.9	E.S.C.	252.1	265.6	269.2	253.7	256.7
CT	56.0	52.0	52.5	57.1	51.4	KY	57.7	58.6	64.1	67.9	70.7
M.A.	550.3	634.7	640.7	632.2	569.2	TN	99.2	112.0	111.2	102.6	105.4
NY	190.7	216.8	223.9	213.4	198.3	AL	59.7	60.8	59.7	52.6	51.1
NJ	148.8	159.6	157.3	142.3	128.0	MS	35.5	34.2	34.2	30.6	31.5
PA	210.8	258.3	259.5	276.5	242.9	W.S.C.	344.5	335.1	357.5	369.2	365.8
Midwest	917.1	1,042.6	1,016.9	1,012.2	1,018.3	AR	49.8	52.8	48.2	46.6	47.5
E.N.C.	625.8	708.7	688.9	694.3	713.6	LA	44.1	34.0	40.4	34.5	35.4
OH	162.5	179.9	180.9	181.9	189.1	OK	46.8	49.4	44.6	49.6	53.6
IN	90.1	86.1	89.8	85.1	87.7	TX	203.8	198.9	224.3	238.5	229.3
IL	140.5	179.2	175.3	186.5	187.9	West	703.6	792.0	807.6	872.5	864.6
MI	167.2	186.6	169.6	168.6	178.6	Mt.	195.4	195.7	189.3	187.8	185.8
WI	65.5	76.9	73.3	72.2	70.3	MT	11.1	11.9	11.6	11.9	12.7
W.N.C.	291.3	333.9	326.0	317.9	304.7	ID	11.5	11.3	10.9	11.3	13.5
MN	73.9	96.8	89.4	82.4	72.8	WY	6.5	6.1	6.0	5.8	6.0
IA	39.5	46.1	48.3	54.0	52.9	CO	49.3	47.5	46.7	49.3	43.8
MO	85.8	88.4	88.4	83.1	83.8	NM	19.8	19.5	20.0	18.6	19.1
ND	8.9	9.5	11.2	11.2	11.7	AZ	71.7	73.8	67.3	64.4	63.4
SD	11.3	13.2	13.0	14.2	14.4	UT	15.5	14.6	14.6	14.3	14.4
NE	24.5	25.5	23.3	22.4	24.0	NV	10.0	11.0	12.2	12.2	12.9
KS	47.4	54.4	54.4	50.6	45.1	Pac.	508.2	596.3	618.3	684.7	678.8
South	1,236.9	1,323.9	1,353.9	1,364.4	1,335.4	WA	43.8	50.6	43.6	48.9	61.1
S.A.	640.3	723.2	727.2	741.5	710.9	OR	39.3	45.0	48.5	53.1	59.7
DE	12.3	12.9	14.0	13.3	12.8	CA ²	407.2	484.6	507.0	562.8	538.8
MD	80.9	86.9	78.5	86.2	82.0	AK	10.0	6.1	7.7	9.6	7.1
						HI	7.9	10.0	11.5	10.3	12.1

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. 1278. New Apartments Completed and Rented in 3 Months, by Region: 1980 to 1989

[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	8.7	60.4	91.7	123.8	66	52	73	58	69
1989	247.8	13.4	45.8	86.3	102.3	70	74	74	68	69
Less than \$350	14.3	1.4	2.8	7.0	3.2	87	100	81	85	89
\$350-\$549	88.3	3.8	24.8	36.0	23.7	75	72	83	72	73
\$550-\$749	86.6	2.3	13.4	31.2	39.8	67	61	69	63	70
\$750 or more	58.5	5.9	4.8	12.1	35.6	61	74	43	54	64

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-130 and H-131, and unpublished data.

No. 1279. Gross Housing Product—Summary: 1970 to 1989

[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	1987	1988	1989	1970	1980	1985	1987	1988	1989
Total value of housing output ¹	90.5	251.2	387.4	450.9	482.5	513.3	207.4	299.9	328.8	344.8	352.0	358.1
Nonfarm housing:	87.3	240.1	376.4	440.6	472.1	503.0	189.1	285.6	317.0	333.8	341.3	347.8
Owner-occupied	61.3	178.3	272.7	316.9	339.2	361.7	132.8	212.0	230.8	241.3	245.6	249.8
Tenant-occupied	26.0	61.9	103.8	123.6	132.9	141.2	56.2	73.6	86.3	92.6	95.7	98.0
Farm housing	3.3	11.0	10.9	10.3	10.4	10.3	18.3	14.3	11.7	11.0	10.7	10.3
Less: Intermediate goods and services consumed	12.7	47.2	63.4	71.0	74.2	73.6	29.9	56.4	53.9	54.4	54.2	52.8
Equals: Gross housing product	77.8	204.0	323.9	379.9	408.3	439.7	177.5	243.5	274.9	290.4	297.7	305.4

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. 1280. Residential Capital—Yearend Stocks and Average Age: 1970 to 1989

[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	1988	1989	1970	1980	1985	1988	1989	1970	1980	1985	1988	1989
Gross stocks ²	1,220	4,184	5,510	6,661	7,152	3,319	4,484	5,008	5,463	5,598	25.1	23.7	24.0	23.7	23.7
Private nonfarm:															
1-4 units	983	3,331	4,395	5,337	5,744	2,689	3,572	3,985	4,365	4,482	25.7	24.5	24.8	24.4	24.3
5 or more units	125	508	695	854	916	343	543	631	697	713	18.1	17.6	18.5	18.8	19.1
Farm (1-4 units)	55	134	152	159	164	150	145	137	130	128	43.9	42.8	42.9	43.5	43.6
Private nonhouse-keeping	10	24	27	30	32	27	25	25	25	25	14.6	19.3	21.8	23.0	23.4
Mobile homes	14	73	90	101	103	29	77	89	89	89	4.7	7.1	8.2	8.5	8.7
Public: Federal, State and local	25	85	112	133	142	68	91	101	108	110	14.9	19.6	21.7	22.8	23.1
Net stocks ^{2,3}	791	2,734	3,555	4,318	4,635	2,151	2,929	3,230	3,539	3,624	16.5	16.2	16.8	16.6	16.7
Private nonfarm:															
1-4 units	639	2,187	2,853	3,488	3,757	1,748	2,345	2,587	2,852	2,930	17.2	16.8	17.4	17.1	17.1
5 or more units	88	363	486	591	629	243	387	441	483	489	11.1	12.5	13.6	14.1	14.5
Farm (1-4 units)	24	57	64	65	67	64	62	58	53	52	28.8	26.4	26.4	27.4	27.4
Private nonhouse-keeping	6	12	13	13	14	18	13	11	11	11	9.0	16.0	18.3	18.7	18.6
Mobile homes	10	41	46	50	51	21	43	46	45	44	3.3	5.3	5.6	5.8	5.9
Public: Federal, State and local	18	57	72	83	89	51	61	65	68	69	12.7	16.2	17.6	18.1	18.3

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 issues.

No. 1281. 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								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	
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	48,182	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	781	
20-49 units	3,525	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	526	
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	190	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	
Crawlspace	18,356	666	16,196	12,684	3,512	540	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	13,688	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	17,484	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	86,952	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	81.6	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	17,886	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. 1282. 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	3,825	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	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	3,842	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	12,728	2,389	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	1,185	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	69,392	176	66,610	54,877	11,732	11,508	17,020	24,896	13,187	2,808	
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	1,965	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	1,565	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	8,266	1,050	1,945	1,994	4,271	1,107	238	
5 to 9 acres	1,606	4	1,567	1,427	140	221	388	731	227	36	
10 acres or more	3,911	9	3,782	3,203	579	479	1,250	1,805	449	120	
Median acreage	0.39	0.28	0.39	0.40	0.38	0.41	0.37	0.49	0.24	0.25	

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. 1283. 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	58,145	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	46,671	50,938	52,661
Percent of occupied	48.2	50.2	45.7	57.0	64.4	65.4	67.8	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	603	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	3,958	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. 1284. Housing Units—Selected Characteristics, by State: 1990

(As of April 1)

REGION, DIVISION, AND STATE	Total units (1,000)	Percent change, 1980-90	Occu- pied units (1,000)	Vacant units (1,000)	Vacancy rate (per- cent)	REGION, DIVISION, AND STATE	Total units (1,000)	Percent change, 1980-90	Occu- pied units (1,000)	Vacant units (1,000)	Vacancy rate (per- cent)
U.S. . . .	102,284	15.7	91,947	10,316	10.1	DC . . .	278	0.5	250	29	10.4
Northeast.	20,811	9.0	18,873	1,938	9.3	VA . . .	2,496	23.5	2,292	205	8.2
N.E. . . .	5,570	14.8	4,943	628	11.3	WV . . .	781	4.5	689	93	11.9
ME . . .	587	17.2	465	122	20.7	NC . . .	2,818	23.9	2,517	301	10.7
NH . . .	504	30.4	411	93	18.6	SC . . .	1,424	23.4	1,258	166	11.7
VT . . .	271	21.5	211	61	22.3	GA . . .	2,638	30.1	2,367	272	10.3
MA . . .	2,473	12.0	2,247	226	9.1	FL . . .	6,100	39.3	5,135	965	15.8
RI . . .	415	11.2	378	37	8.8	E.S.C. . . .	6,214	13.1	5,652	562	9.0
CT . . .	1,321	14.0	1,230	90	6.8	KY . . .	1,507	10.1	1,380	127	8.4
M.A. . . .	15,240	7.1	13,930	1,310	8.6	TN . . .	2,026	15.9	1,854	172	8.5
NY . . .	7,227	5.2	6,639	588	8.1	AL . . .	1,670	13.8	1,507	164	9.8
NJ . . .	3,075	10.9	2,795	281	9.1	MS . . .	1,010	10.8	911	99	9.8
PA . . .	4,938	7.4	4,496	442	9.0	W.S.C. . . .	11,132	20.6	9,668	1,465	13.2
Midwest.	24,493	7.3	22,317	2,176	8.9	AR . . .	1,001	11.4	891	109	10.9
E.N.C. . . .	17,028	6.6	15,597	1,431	8.4	LA . . .	1,716	10.8	1,499	217	12.6
OH . . .	4,372	6.4	4,088	284	6.5	OK . . .	1,406	13.7	1,206	200	14.2
IN . . .	2,246	7.4	2,065	181	8.0	TX . . .	7,009	26.3	6,071	938	13.6
IL . . .	4,506	4.3	4,202	304	6.7	West. . . .	20,895	22.3	18,935	1,960	9.4
MI . . .	3,848	7.2	3,419	429	11.1	MT . . .	5,864	29.3	5,033	831	14.2
WI . . .	2,056	10.3	1,822	234	11.4	ID . . .	413	10.2	361	53	12.7
W.N.C. . . .	7,465	9.0	6,720	744	10.0	WY . . .	203	8.1	169	35	17.0
MN . . .	1,848	14.6	1,648	201	10.9	CO . . .	1,477	23.7	1,282	195	13.2
IA . . .	1,144	1.1	1,064	79	6.9	NM . . .	632	24.5	543	89	14.1
MO . . .	2,199	10.6	1,961	238	10.8	AZ . . .	1,659	49.4	1,369	291	17.5
ND . . .	276	6.8	241	35	12.8	UT . . .	598	22.1	537	61	10.2
SD . . .	292	5.6	259	33	11.4	NV . . .	519	52.6	466	53	10.1
NE . . .	661	5.7	602	58	8.8	Pac. . . .	15,031	19.8	13,902	1,129	7.5
KS . . .	1,044	9.3	945	99	9.5	WA . . .	2,032	20.3	1,872	160	7.9
South. . . .	36,065	22.6	31,822	4,243	11.8	OR . . .	1,194	10.2	1,103	90	7.6
S.A. . . .	18,719	27.4	16,503	2,216	11.8	CA . . .	11,183	20.5	10,381	802	7.2
DE . . .	290	21.5	247	42	14.6	AK . . .	233	42.9	189	44	18.8
MD . . .	1,892	20.4	1,749	143	7.6	HI . . .	390	16.6	356	34	8.6

1990 Census Note: The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

Source: U.S. Bureau of the Census, press release, CB91-155.

No. 1285. 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 occu- pied 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	4,472	1,872	2,601	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	2,938	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	2,758
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	331	454	2,389	839	619	1,706
1970 to 1979	21,829	13,777	8,054	865	1,242	579	665	2,272	1,286	1,202	3,274
1980 or later	11,706	7,811	4,095	374	471	302	307	745	484	1,757	2,435
Median year	1962	1962	1962	1956	1956	1963	1955	1953	1962	1975	1967
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. 1286. 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	\$50,000	\$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. 1287. 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		HOUSEHOLDS BELOW POVERTY LEVEL	
		Owner	Renter	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	4,608	7,361
Monthly housing costs:											
Less than \$300	30,375	21,738	8,636	1,852	2,195	779	891	10,419	2,175	3,128	3,617
\$300-\$399	13,114	6,351	6,763	520	1,260	209	716	1,623	806	390	1,423
\$400-\$499	11,063	5,075	5,988	399	991	207	673	830	614	251	887
\$500-\$599	8,436	4,413	4,023	324	623	177	433	399	403	161	433
\$600-\$699	5,683	3,460	2,223	207	206	131	223	277	202	112	166
\$700-\$799	4,001	2,793	1,208	218	101	136	103	160	109	60	95
\$800-\$999	4,057	3,808	1,149	240	98	175	68	219	98	66	70
\$1,000 or more	6,176	5,508	670	229	56	233	74	282	43	94	66
Median amount (dol.)	388	375	399	324	346	416	398	213	306	193	285
Monthly housing costs as percent of income:											
Less than 5 percent	2,530	2,336	195	138	34	102	20	506	16	17	16
5-9 percent	10,027	9,099	928	554	138	307	89	2,262	59	41	25
10-14 percent	12,433	9,799	2,634	602	399	291	202	2,739	176	124	60
15-19 percent	12,497	8,605	3,891	572	611	334	326	2,174	272	244	110
20-24 percent	11,098	6,991	4,107	540	666	254	443	1,642	395	282	288
25-29 percent	8,665	4,787	3,878	339	683	167	385	1,243	636	356	461
30-34 percent	6,124	3,167	2,958	275	495	163	309	834	545	306	365
35-39 percent	4,045	2,065	1,979	220	335	114	250	642	380	302	313
40 percent or more	15,749	6,019	9,729	712	2,079	313	1,131	2,096	1,947	2,319	4,808
Median amount (percent)	22	18	29	21	32	20	32	19	36	46	66
Median monthly costs (dol.):											
Electricity	60	66	45	68	47	59	40	55	38	56	44
Piped gas	45	51	32	59	38	36	525	49	30	47	36
Fuel oil	57	60	45	63	45	70	42	63	48	49	42

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.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

No. 1288. Heating Equipment and Fuels for Occupied Units: 1950 to 1987

[See also table 1281 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	11,508	17,378	27,515	39,279	49,854	26.9	32.8	43.4	48.9	54.9
Heat pumps				2,835	3,688				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	6,092		1.3	5.1	7.9	6.7
Room heaters with flue	² 15,399	² 11,183	7,209	6,098	2,629	² 36.0	² 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	(³)	(³)	2,766	3,977	6,315	(³)	(³)	4.4	4.9	6.9
None	581	503	398	541	659	1.4	0.9	0.6	0.7	0.7
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.	9,686	17,158	16,473	14,655	13,813	22.6	32.4	26.0	18.2	15.2
Electricity	283	933	4,876	14,768	20,608	0.7	1.8	7.7	18.3	22.7
Bottled, tank, or LP gas	787	2,686	3,807	4,535	3,659	1.8	5.1	6.0	5.6	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	0.6	0.4
None	999	478	395	541	(NA)	2.3	0.9	0.6	0.7	(NA)
Cooking fuel:										
Electricity	6,403	16,351	25,788	41,906	51,629	15.0	30.8	40.6	52.1	56.8
Gas	25,501	33,787	36,558	37,944	38,540	59.6	63.7	57.6	47.2	42.4
Other fuel	10,796	2,603	908	398	330	25.2	4.9	1.4	0.5	0.4
None	124	280	213	142	(NA)	0.3	0.5	0.3	0.2	(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. 1289. 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	HOUSEHOLDS USING APPLIANCE		REGION				FAMILY INCOME IN 1987			
	Number	Percent of total	North-east	Midwest	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	26.9	29.8	7.4	7.9	9.2	2.4	10.1	6.0	4.6	6.2
Central system	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	0.1	1.4	1.5	2.2	4.0
Dishwasher	39.0	43.1	7.4	7.6	14.0	10.0	5.1	6.5	8.4	19.1
Evaporative cooler	3.0	3.4	-	0.1	0.6	2.3	1.3	0.6	0.5	0.7
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	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	48.6	53.7	8.9	12.3	16.4	11.0	6.6	9.0	10.8	22.2
Outdoor gas grill	18.3	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	0.1	0.4	0.6	0.1	0.2	0.3	0.2	0.5
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	9.0	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	0.2	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	38.7	42.7	9.8	10.7	10.2	8.0	15.9	7.4	6.0	9.4
Refrigerator: Frost-free	60.9	67.3	11.0	14.5	22.9	12.5	15.8	11.9	11.8	21.6
Non frost-free	29.4	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: ⁵ 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	0.1	0.2	0.4	0.5	0.6	0.6	1.8
Whole house cooling fan	8.6	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, 1987*.

No. 1290. 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		HOUSEHOLDS BELOW POVERTY LEVEL	
		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	4,608	7,361
Amenities:											
Porch, deck, balcony or patio	68,160	48,325	19,834	3,420	3,253	1,718	1,648	12,035	2,563	3,487	4,070
Usable fireplace	27,024	23,121	3,903	983	406	654	266	4,430	275	771	397
Separate dining room	35,416	27,515	7,901	2,111	1,331	941	660	6,502	996	1,591	1,462
With 2 or more living rooms or recreation rooms	27,849	24,937	2,913	1,547	321	683	154	4,893	378	987	409
Garage or carport with home	51,293	41,747	9,546	2,328	894	1,542	936	10,696	1,102	2,359	1,227
Cars available:											
None	13,735	5,003	8,732	698	2,482	244	1,166	2,663	2,544	1,333	3,773
1 car	42,902	26,373	16,528	2,030	2,515	966	1,474	8,596	2,135	2,490	2,995
2 cars	26,423	20,102	6,321	1,280	690	822	582	3,054	238	667	523
3 or more cars	7,828	6,686	1,142	449	107	228	105	477	35	118	70
Trucks or vans available:											
None	63,509	36,671	26,839	3,401	5,373	1,328	2,796	11,620	4,707	3,321	6,623
1	23,285	18,033	5,252	937	394	796	483	2,809	210	1,103	667
2 or more	4,093	3,461	632	119	27	134	48	361	37	185	72
Internal deficiencies:											
Holes in floors	1,223	441	782	120	299	29	159	81	78	146	370
Open cracks or holes	5,189	2,037	3,152	343	941	161	442	520	296	421	1,118
Broken plaster or peeling paint (interior of unit)	4,227	1,749	2,478	280	777	143	348	425	296	367	853
No electrical wiring	20	13	7		2			3		6	5
Exposed wiring	1,875	882	993	138	266	55	138	313	140	149	324
Rooms without outlet	2,229	1,089	1,139	170	318	51	140	404	168	224	404
Water leakage	26,950	16,648	10,302	1,493	2,150	580	1,029	3,410	1,146	1,546	2,682

- Represents zero. ¹ Persons of Hispanic origin may be of any race. ² Householders 65 years old and over. ³ During the 12 months prior to the survey.

No. 1291. 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 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	4,458	2,259	14,790	4,608	100.0	100.0	100.0	100.0	100.0
Roof replaced	9,021	800	365	2,650	783	15.5	17.9	16.2	17.9	17.0
Work mostly done by others	6,469	587	216	2,183	565	11.1	13.2	9.6	14.8	12.3
Costing more than \$500	5,833	446	227	1,733	395	10.0	10.0	10.0	11.7	8.6
Additions built	3,043	193	124	362	175	5.2	4.3	5.5	2.4	3.8
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	4,532	333	200	578	242	7.8	7.5	8.9	3.9	5.3
Work mostly done by others	2,022	219	93	411	114	3.5	4.9	4.1	2.8	2.5
Costing more than \$500	2,957	173	129	372	95	5.1	3.9	5.7	2.5	2.1
Bathroom remodeled or added	5,346	374	248	687	298	9.2	8.4	11.0	4.6	6.5
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
Siding replaced or added	3,222	198	95	630	175	5.5	4.4	4.2	4.3	3.8
Work mostly done by others	1,945	144	64	490	110	3.3	3.2	2.8	3.3	2.4
Costing more than \$500	1,850	108	55	407	75	3.2	2.4	2.4	2.8	1.6
Storm doors/windows installed	8,368	731	222	1,368	484	14.4	16.4	9.8	9.8	10.5
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
Major equipment replaced or added	5,468	307	188	1,127	275	9.4	6.9	8.3	7.6	6.0
Work mostly done by others	4,164	251	125	946	211	7.2	5.6	5.5	6.4	4.8
Costing more than \$500	4,065	228	127	863	162	7.0	5.1	5.6	5.8	3.5
Insulation added	5,135	307	203	708	308	8.8	6.9	9.0	4.8	6.7
Work mostly done by others	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 of tables 1290 and 1291: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-87, American Housing Survey.

No. 1292. Expenditures by Residential Property Owners for Improvements and Maintenance and Repairs, by Type of Property and Activity: 1970 to 1989

(In millions of dollars)

YEAR AND TYPE OF EXPENDITURE	Total	1-unit properties with owner occu- pant	Other prop- er- ties	ADDITIONS AND ALTERATIONS				Major replaces- ments	Mainte- nance and repairs
				Total	To structures		To property outside of struc- tures		
					Addi- tions	Alter- ations			
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	10,997	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	5,689	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.	49,295	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.	80,267	47,742	32,525	28,775	3,966	17,599	7,211	16,134	35,358
1986.	91,274	54,298	36,976	38,608	7,377	21,192	10,040	16,695	35,971
1987, total ¹	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, total ¹	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
1989, total ¹	100,891	59,858	41,033	39,786	6,828	23,129	9,828	18,415	42,689
Heating and air-conditioning ²	5,841	3,589	2,252	1,484	(NA)	1,484	(NA)	2,167	2,191
Plumbing	9,875	5,258	4,617	1,607	(NA)	1,607	(NA)	3,314	4,954
Roofing	10,075	6,266	3,809	(NA)	(NA)	(NA)	(NA)	6,299	3,777
Painting	11,319	5,192	6,127	(NA)	(NA)	(NA)	(NA)	(NA)	11,319

 NA Not available. ¹ Includes types of expenditures not separately specified. ² Central air-conditioning.

 Source: U.S. Bureau of the Census, *Current Construction Reports*, series C50.

No. 1293. Vacancy Rates for Housing Units—Characteristics: 1985 to 1990

 (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 249-258)

RENTAL UNITS	1985	1987	1988	1989	1990, 4th qtr.	HOMEOWNER UNITS	1985	1987	1988	1989	1990, 4th qtr.
Total rental units	6.5	7.7	7.7	7.1	7.2	Total home-owner units	1.7	1.7	1.6	1.6	1.7
Inside MSAs	6.3	7.7	7.8	7.2	7.1	Inside MSAs	1.7	1.6	1.6	1.6	1.7
Outside MSAs	7.1	7.8	7.3	6.6	7.7	Outside MSAs	1.9	1.9	1.6	1.6	1.6
Northeast	3.5	4.1	4.8	4.7	6.2	Northeast	1.0	1.2	1.6	1.5	1.5
Midwest	5.9	6.8	6.9	6.6	6.6	Midwest	1.6	1.4	1.2	1.3	1.4
South	9.1	10.9	10.1	9.1	8.9	South	2.1	2.0	1.9	2.0	2
West	6.2	7.3	7.7	6.9	6.4	West	2.1	1.8	1.6	1.4	1.8
Units in structure:						Units in structure:					
1 unit	3.8	4.0	3.6	3.5	(NA)	1 unit	1.4	1.4	1.3	1.3	(NA)
2 units or more	7.9	9.7	9.8	9.0	(NA)	2 units or more	6.6	5.8	6.1	6.7	(NA)
5 units or more	8.8	11.2	11.4	10.3	(NA)	5 units or more	10.1	8.6	9.7	9.8	(NA)
Units with—						Units with—					
3 rooms or less	8.8	10.7	10.6	9.9	(NA)	3 rooms or less	5.8	5.5	5.6	9.0	(NA)
4 rooms	6.9	8.6	8.7	7.9	(NA)	4 rooms	2.3	2.5	2.6	2.5	(NA)
5 rooms	5.0	5.4	5.3	5.3	(NA)	5 rooms	2.0	1.7	1.6	1.9	(NA)
6 rooms or more	3.2	3.3	3.3	3.3	(NA)	6 rooms or more	1.4	1.3	1.2	1.1	(NA)
Year built:						Year built:					
1960 or later	7.9	11.2	9.9	7.1	(NA)	1960 or later	2.0	1.8	1.8	1.6	(NA)
1940-1959	6.2	7.7	7.6	6.7	(NA)	1940-1959	1.2	1.1	1.2	1.3	(NA)
1939 or earlier	5.0	5.1	5.1	7.5	(NA)	1939 or earlier	1.8	1.7	1.6	2.0	(NA)

NA Not available.

 Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-111.

No. 1294. Recent Home Buyers—General Characteristics: 1976 to 1989

[As of October. Based on a sample survey; subject to sampling variability]

ITEM	Unit	1976	1980	1983	1984	1985	1986	1987	1988	1989
Median purchase price	Dollars	43,340	68,714	90,000	89,400	90,400	93,680	99,260	121,910	129,800
First-time buyers	Dollars	37,670	61,450	73,100	81,500	75,100	74,700	84,730	97,100	105,200
Repeat buyers	Dollars	50,090	75,750	101,800	100,400	106,200	114,860	115,430	141,400	144,700
Average monthly mortgage payment	Dollars	329	599	794	868	896	852	939	1,008	1,054
Percent of income	Percent	24.0	32.4	32.5	30.3	30.0	28.6	29.3	32.8	31.8
Percent buying—										
New houses	Percent	15.1	22.4	26.4	22.3	23.8	25.7	23.8	26.2	21.8
Existing houses	Percent	84.9	77.6	73.6	77.7	76.2	74.3	76.2	73.8	78.2
Single-family houses	Percent	88.8	82.4	87.8	89.9	87.0	85.1	87.3	83.3	84.8
Condominiums ²	Percent	11.2	17.6	12.2	10.1	10.6	14.2	12.5	12.4	13.5
For the first time	Percent	44.8	32.9	40.5	37.7	36.6	35.5	36.8	37.8	40.2
Average age:										
First-time buyers	Years	28.1	28.3	28.9	29.1	28.4	30.9	29.6	30.3	29.6
Repeat buyers	Years	35.9	36.4	37.3	37.8	38.4	39.5	39.1	38.9	39.4
Downpayment/sales price	Percent	25.2	28.0	22.9	20.9	24.8	23.4	27.2	24.0	24.4
First-time buyers	Percent	18.0	20.5	15.7	13.2	11.4	13.4	20.4	14.6	15.8
Repeat buyers ¹	Percent	30.8	32.7	27.8	25.6	32.7	28.9	31.3	29.7	30.3

¹ Buyers who previously owned a home. ² Includes multiple-family houses.Source: Chicago Title Insurance Company, Chicago, IL, *The Guarantor*, bimonthly. (Copyright.)**No. 1295. 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 ¹	Occupied units ²	Under construction	YEAR	Total ¹	Occupied units ²	Under construction
1960.....	593.3	478.2	36.4	1985.....	1,378.0	1,344.6	9.6
Elderly.....	18.9	1.1	4.1	Elderly.....	373.5	361.1	2.1
1970.....	1,155.3	893.5	126.8	1987.....	1,443.0	1,406.4	9.7
Elderly.....	249.4	143.4	65.7	Elderly.....	378.6	374.2	1.3
1980.....	1,321.1	1,195.6	20.9	1988.....	1,448.8	1,413.3	9.7
Elderly.....	358.3	317.7	11.5	Elderly.....	382.5	374.7	1.4

¹ Includes units to be constructed or to go directly "under management" because no rehabilitation needed, not shown separately. ² Under management or available for occupancy.

Source: U.S. Dept. of Housing and Urban Development, unpublished data.

No. 1296. Office Buildings—Vacancy Rates for Major Cities, 1980 to 1990, and Status of Supply, 1990

[As of December; except 1990, as of June. Excludes government owned and occupied, owner-occupied, and medical office buildings]

CITY	VACANCY RATE FOR EXISTING SPACE (percent)									SUPPLY STATUS, 1990 (mil. sq. ft.)			
	1980	1983	1984	1985	1986	1987	1988	1989	1990	Existing space		Space under construction	
										Total	Available for lease	Total	Available for lease
Total¹	4.6	13.5	15.5	16.9	18.6	19.0	18.6	19.5	19.3	2,149.2	413.9	105.0	73.5
Atlanta, GA.....	10.0	13.7	14.5	21.0	20.1	19.6	18.3	19.9	19.7	79.3	15.7	7.8	4.4
Baltimore, MD.....	7.2	6.4	11.9	11.5	15.9	15.8	13.4	16.4	19.0	27.1	5.2	1.3	0.9
Boston, MA.....	3.8	4.4	8.9	13.1	13.0	12.6	14.1	15.3	17.0	124.6	21.2	7.3	4.8
Charlotte, NC.....	(NA)	(NA)	16.7	16.7	15.5	15.1	16.5	14.3	15.4	16.4	2.5	2.2	1.5
Chicago, IL.....	7.0	12.6	14.8	16.5	19.6	17.0	15.9	17.0	18.1	185.3	33.5	10.9	7.9
Dallas, TX.....	8.6	21.5	18.7	23.0	30.9	29.1	29.7	26.9	25.7	114.7	29.5	3.4	-
Denver, CO.....	6.6	24.1	20.6	24.7	25.1	27.9	27.6	26.1	24.6	65.1	16.0	0.4	0.2
Houston, TX.....	4.0	26.9	25.0	27.6	30.6	31.8	29.2	27.5	25.8	140.0	36.8	(Z)	(Z)
Jacksonville, FL.....	(NA)	(NA)	(NA)	(NA)	17.2	14.7	14.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kansas City, MO.....	4.2	15.7	18.6	16.2	18.2	18.2	19.9	15.8	15.0	30.5	6.4	2.0	1.1
Los Angeles, CA.....	0.9	14.0	20.4	15.3	13.2	19.0	15.8	19.7	15.4	176.7	47.8	17.1	6.0
Milwaukee, WI.....	(NA)	(NA)	(NA)	(NA)	(NA)	16.8	19.3	20.4	22.9	19.2	4.4	0.1	0.1
New Orleans, LA.....	(NA)	19.0	22.4	21.8	25.5	24.3	25.6	25.7	27.5	22.8	6.2	0.5	0.3
New York, NY ²	3.1	5.0	6.8	7.9	8.9	9.7	11.5	15.1	16.3	236.0	41.2	9.9	6.9
Philadelphia, PA.....	6.3	9.6	9.0	14.5	15.5	16.5	15.8	16.3	15.9	61.6	19.6	10.4	10.2
Pittsburgh, PA.....	1.2	7.8	14.2	(NA)	12.0	12.3	17.6	16.3	17.6	38.5	8.5	2.3	2.3
San Diego, CA.....	(NA)	22.9	21.8	24.7	25.4	22.8	20.1	17.6	23.5	29.4	10.3	4.5	3.7
San Francisco, CA.....	0.4	11.3	9.0	13.7	16.6	15.0	15.5	15.7	14.3	54.4	10.0	1.6	1.2
Seattle, WA.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	13.2	12.4	11.5	27.8	3.2	1.8	0.8
St. Louis, MO.....	(NA)	(NA)	(NA)	(NA)	(NA)	15.6	18.4	22.6	21.5	29.0	7.5	1.1	1.1
Washington, DC.....	2.5	7.2	9.6	9.0	13.6	13.4	13.2	14.4	15.7	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 1990, 49 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. 1297. Commercial Office Space—Inventory and Vacancy Rates for the 50 Largest Metropolitan Areas: 1989

[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 and tenancy. Data based on responses from individuals knowledgeable in the local markets]

METROPOLITAN AREAS RANKED BY POPULATION-SIZE, 1989 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	13,555.9	7,257.9	15,449.3	12,192.0	10.3	19.4	21.3	16.2
New York, NY PMSA	263,440.0	99,240.0	6,800.0	12,000.0	13.2	17.1	32.0	18.9
Chicago, IL PMSA	45,583.0	44,104.0	29,623.0	22,277.0	11.1	14.6	21.0	20.7
Philadelphia, PA-NJ PMSA	23,542.1	7,482.7	54,287.3	13,000.0	11.9	11.6	18.3	23.1
Detroit, MI PMSA	9,298.8	2,402.2	22,982.4	25,954.3	8.3	24.2	21.8	17.3
Boston, MA DECMA	27,200.0	10,300.0	40,900.0	(NA)	8.8	13.6	19.1	(NA)
Washington, DC-MD-VA MSA	378,705.0	(NA)	3136,120.0	(NA)	9.5	(NA)	16.2	(NA)
Houston, TX PMSA	25,043.9	10,400.0	33,133.9	62,795.5	12.4	21.1	15.6	26.8
Atlanta, GA MSA	³ 18,161.4	³ (NA)	³ 56,390.4	³ (NA)	³ 15.6	³ (NA)	³ 17.5	³ (NA)
Nassau-Suffolk, NY PMSA	(NA)	(NA)	21,449.6	8,124.4	(NA)	(NA)	36.5	13.9
Dallas, TX PMSA	15,800.0	14,000.0	87,000.0	(NA)	19.0	31.4	27.6	(NA)
St. Louis, MO-IL MSA	8,864.2	6,600.0	(NA)	(NA)	18.2	24.2	(NA)	(NA)
Minneapolis-St. Paul, MN-WI MSA	11,120.3	6,801.9	18,031.1	(NA)	13.2	19.7	34.7	(NA)
San Diego, CA MSA	4,665.0	2,629.8	19,355.8	8,077.4	7.3	26.9	26.0	14.4
Baltimore, MD MSA	6,532.4	6,833.5	10,914.4	4,745.3	14.5	19.2	21.0	15.3
Riverside-San Bernardino, CA PMSA	485.3	726.0	1,797.0	3,792.1	32.5	23.7	22.9	23.3
Anaheim-Santa Ana, CA PMSA	⁴ 47,856.0	(NA)	(NA)	(NA)	⁴ 21.5	(NA)	(NA)	(NA)
Pittsburgh, PA PMSA	13,783.9	6,626.2	5,950.9	4,823.0	15.3	23.8	15.8	17.3
Phoenix, AZ MSA	³ 21,520.7	³ (NA)	³ 13,472.4	³ (NA)	³ 22.2	³ (NA)	³ 27.5	³ (NA)
Oakland, CA PMSA	6,113.7	3,084.0	1,402.2	2,357.7	7.2	13.7	23.9	16.8
Tampa-St. Petersburg-Clearwater, FL MSA	3,903.6	869.7	9,361.4	3,850.3	12.3	48.1	24.8	22.6
Newark, NJ PMSA	³ (NA)	³ (NA)	⁴ 85,459.5	³ (NA)	⁴ 16.1	³ (NA)	³ (NA)	³ (NA)
Seattle, WA PMSA	21,191.1	2,853.1	7,873.6	6,735.4	14.4	20.8	16.0	14.3
Cleveland, OH PMSA	7,593.0	8,551.0	12,057.0	2,010.0	4.8	12.0	18.4	12.3
Miami-Hialeah, FL PMSA	6,700.0	4,700.0	4,400.0	12,100.0	17.9	29.8	36.4	15.7
Denver, CO PMSA	12,100.0	9,000.0	5,800.0	26,400.0	22.3	30.0	12.1	26.5
San Francisco, CA PMSA	31,108.2	4,192.6	8,047.3	5,606.9	13.0	29.4	11.4	11.3
Kansas City, MO-KS MSA	5,000.0	5,000.0	15,350.0	3,150.0	13.5	18.0	14.0	14.0
Cincinnati, OH-KY-IN PMSA	6,085.0	3,200.0	5,210.8	3,840.1	3.6	41.1	11.3	16.5
Milwaukee, WI PMSA	7,000.0	9,000.0	5,000.0	3,000.0	11.4	14.4	12.0	16.7
Sacramento, CA MSA	2,600.0	4,517.0	9,800.0	11,950.0	21.2	8.0	14.9	24.8
Norfolk-Virginia Beach-Newport News, VA MSA	³ 3,261.2	³ (NA)	³ 3,200.0	³ (NA)	³ 19.9	³ (NA)	³ 25.0	³ (NA)
Columbus, OH MSA	4,400.0	3,400.0	5,950.0	4,800.0	17.1	11.8	20.0	11.5
San Antonio, TX MSA	2,657.2	2,650.0	6,030.0	9,330.0	18.7	28.3	28.1	32.7
New Orleans, LA MSA	8,875.0	5,921.4	2,176.3	4,691.5	18.4	34.4	23.2	24.9
Indianapolis, IN MSA	5,622.4	2,239.0	³ 12,570.1	³ (NA)	19.8	17.5	³ 22.5	³ (NA)
Portland, OR PMSA	7,250.0	2,474.0	3,363.0	3,544.0	11.1	18.2	16.0	15.3
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA	2,625.0	250.0	6,500.0	3,600.0	19.8	40.0	20.0	41.7
Charlotte-Gastonia-Rock Hill, NC-SC MSA	4,606.6	3,055.3	6,279.3	3,458.9	9.1	11.7	17.1	32.0
Salt Lake City-Ogden, UT MSA	6,000.0	6,000.0	7,000.0	6,000.0	10.0	20.0	2.9	25.0
Memphis, TN-AR-MS MSA	1,947.9	3,438.0	8,233.0	2,619.0	13.8	33.6	15.6	20.0
Nashville, TN MSA	2,815.3	3,509.4	5,845.1	8,774.9	21.7	34.0	23.9	26.8
Orlando, FL MSA	³ 6,290.1	³ (NA)	³ 17,713.0	³ (NA)	³ 25.4	³ (NA)	³ 18.6	³ (NA)
Oklahoma City, OK MSA	3,393.0	2,457.0	4,870.0	3,870.0	33.9	46.0	16.4	21.9
Buffalo, NY PMSA	2,542.4	1,883.9	874.6	1,118.8	4.2	19.8	23.4	15.5
Dayton-Springfield, OH MSA	1,602.0	1,367.1	1,883.8	1,997.0	28.5	33.3	29.2	26.3
Greensboro-Winston-Salem-High Point, NC MSA	881.0	567.0	1,861.0	1,452.0	8.3	46.4	23.2	11.7
Birmingham, AL MSA	2,435.6	1,783.1	3,583.9	3,570.5	12.1	31.1	27.4	19.4
Jacksonville, FL MSA	5,680.0	2,262.2	3,616.0	1,362.4	19.7	30.2	9.0	35.6
Albany-Schenectady-Troy, NY MSA	2,652.8	1,292.5	3,158.2	1,818.3	8.4	3.4	6.4	7.0

NA Not available. ¹ List excludes San Jose, CA MSA; Fort Worth-Arlington, TX PMSA; Bergen-Passaic, NJ 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.

Source: Society of Industrial and Office REALTORS® of the NATIONAL ASSOCIATION OF REALTORS®, Washington, DC, 1990 Guide to Industrial and Office Real Estate Markets. (Copyright.)

No. 1298. 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	6,861	9,119	8,661	8,559	18,821	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:										
1900 or before	188	2,368	254	490	301	433	(S)	(S)	12.6	6.0
1901 to 1920	255	3,665	361	489	539	616	469	(S)	14.4	5.0
1921 to 1945	629	8,594	922	948	1,753	1,312	1,078	2,581	13.7	5.0
1946 to 1960	878	9,712	1,408	1,335	1,694	1,459	1,529	2,287	11.1	4.6
1961 to 1970	730	11,469	1,027	1,160	1,639	1,850	1,813	3,980	15.7	5.0
1971 to 1973	243	4,307	332	466	463	528	535	1,982	17.7	5.4
1974 to 1979	572	8,230	852	978	1,142	1,155	1,492	2,612	14.4	4.8
1980 to 1983	350	5,205	611	487	803	503	730	2,071	14.9	4.8
1984 to 1986	309	4,678	442	509	785	804	611	1,526	15.1	5.0
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	1,993	566	(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	162	(S)	279	(S)	352	(S)	18.8	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	6,607	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	4,645	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	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	1,233	(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	7,696	476	466	943	967	1,119	3,726	22.2	5.5

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. 1299. Commercial Buildings and Workers—Selected Building Characteristics, by Floorspace: 1986

[See headnote, table 1298]

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	1,601.3
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	1,338	546	301	120	59	32	35,691	811.5	1,000.9
Nonowner occupied	1,265	686	282	170	69	35	23	21,814	793.0	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. 1300. 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/ser-vices	Offices	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)	76	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)	316	386	1,507	1,278	(S)	1,304	889
1946 to 1960	9,712	1,332	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)	732	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*.