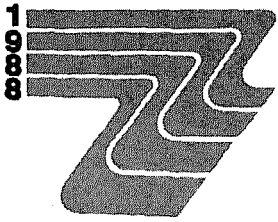


Section 22

Transportation—Air and Water

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

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

Air transportation data are also presented annually by the Air Transport Association of America, Washington, DC in *Air Transport Facts and Figures.* Additional sources of data on water transportation include *A Statistical Analysis of the World's Merchant Fleets,* 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 (communter) air carriers. The FAA publishes annually data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the volume of activity in the field of non-air carrier (general aviation) flying; and aircraft production and registration.

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

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

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

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

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

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

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

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986.* For cross-references, see Appendix V.

No. 1023. Certificated Route Passenger/Cargo Air Carriers—Number, Operating Revenues, and Expenses: 1970 to 1986

[In millions of dollars, except number of carriers. 1970-1979, includes scheduled and charter operations. Beginning 1980, includes all cargo carriers. Minus sign (–) indicates loss. See also headnote, table 1024, and *Historical Statistics, Colonial Times to 1970,* series Q 591-603]

ITEM	1970	1975	1979	1980	1981 [1]	1982 [1]	1983 [1]	1984 [1]	1985 [1]	1986, [1] prel.
Number of air carriers	39	33	49	63	98	98	96	95	106	98
DOMESTIC										
Operating revenue	7,131	11,911	21,337	26,404	28,788	28,728	31,014	35,394	37,629	40,921
Passenger	6,359	10,290	18,930	23,317	25,504	25,440	27,346	31,437	33,943	33,745
Mail (including subsidy)	205	247	413	530	591	572	537	560	740	683
Express and freight	472	702	1,184	1,582	1,659	1,505	1,582	1,690	1,581	4,277
Other	94	672	810	974	1,034	1,211	1,549	1,707	1,965	2,216
Operating expenses	7,128	11,781	21,213	26,409	29,051	29,478	31,186	33,812	36,611	39,833
Flying operations	2,098	3,869	7,867	11,029	12,037	11,529	11,370	12,161	12,684	11,334
Maintenance	1,127	1,595	2,421	2,758	2,821	2,709	2,878	3,176	3,604	4,462
General services and administration	3,157	5,050	9,120	10,545	11,943	12,825	14,274	15,625	17,324	20,647
Depreciation and amortization	745	883	1,352	1,560	1,723	1,876	2,107	2,223	2,318	2,651
Transport related	(NA)	383	453	517	526	537	554	627	681	739
Net operating income	3	129	123	–6	–264	–750	–171	1,582	1,018	1,088
INTERNATIONAL										
Operating revenue	1,913	3,063	5,191	6,543	6,390	6,435	7,163	7,975	8,302	8,616
Passenger	1,553	2,435	4,226	4,984	4,916	4,959	5,361	6,075	6,451	6,545
Mail (including subsidy)	110	97	107	175	165	177	152	158	160	154
Express and freight	209	381	534	1,011	984	989	913	1,071	1,131	1,451
Other	41	150	325	372	325	309	737	671	560	466
Operating expenses	1,894	3,059	5,105	6,766	6,574	6,452	6,693	7,485	7,984	8,449
Flying operations	515	1,050	1,795	2,775	2,757	2,596	2,490	2,629	2,738	2,398
Maintenance	241	363	521	616	540	512	548	677	768	900
General services and administration	950	1,345	2,289	2,811	2,752	2,795	3,056	3,436	3,731	4,442
Depreciation and amortization	186	212	327	385	382	396	389	446	482	517
Transport related	(NA)	88	173	178	144	152	211	297	265	194
Net operating income	19	4	86	–223	–184	–17	470	490	319	167

NA Not available. [1] Excludes carriers that report system total only (operating revenues of $1,033 million in 1981, $902 million in 1982, $415 million in 1983, $692 million in 1984, $2,649 million in 1985, and $450 million (preliminary) in 1986; operating expenditures of $986 million, $874 million, $352 million, $650 million, $2,613 million, and $443 million (preliminary) in 1981, 1982, 1983, 1984, 1985, and 1986, respectively.

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

No. 1024. Certificated Route Air Carriers—Summary: 1970 to 1986

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

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986
Domestic operators [1]	Number	35	33	63	98	96	95	106	98
International operators [1]	Number	6	2						
Employment, total [2]	1,000	297	290	371	330	329	345	355	422
Pilots, copilots, and other flight personnel	1,000	33	32	39	35	35	37	40	46
Flight attendants	1,000	34	39	57	51	56	60	63	68
Mechanics	1,000	48	45	45	43	40	43	43	48
Aircraft and traffic servicing personnel	1,000	84	83	122	88	95	101	101	136
Other	1,000	98	91	108	113	103	104	108	124
Fixed-wing aircraft in operation [3]	Number	2,421	2,260	2,505	2,468	2,618	2,692	2,860	3,799
Turbojet	Number	2,041	2,022	2,336	2,377	2,492	2,572	2,740	3,282
Two-engine	Number	519	500	652	863	974	1,065	1,235	1,494
Three-engine	Number	631	961	1,311	1,260	1,296	1,277	1,277	1,466
Four-engine	Number	891	561	373	254	222	230	228	322
Turboprop	Number	316	193	163	88	118	110	110	416
Piston	Number	64	45	6	3	8	10	10	101
Average available seats: [4] [5]									
Domestic	Number	110.4	130.4	143.1	153.0	154.1	153.7	152.5	153.4
International	Number	154.9	224.8	274.5	283.0	283.6	289.9	296.6	293.1
Average/hr. speed: [5]									
Domestic	Mi. per hr.	403	403	405	408	415	414	409	409
International	Mi. per hr.	482	482	494	483	491	494	497	493
Jet fuel consumed: [6]									
Domestic	Mil. gal	7,842	7,558	9,218	8,326	8,556	9,417	10,115	11,103
International	Mil. gal	2,241	1,949	2,093	1,942	1,970	2,053	2,488	2,580
Revenue-miles flown [5]	Millions	2,426	2,241	2,816	2,699	2,809	3,133	3,320	3,719
Domestic	Millions	2,027	1,909	2,471	2,387	2,483	2,786	2,950	3,318
International	Millions	399	332	345	312	326	347	370	401
Revenue passengers enplaned [5]	Millions	169	205	297	294	319	345	382	418
Domestic	Millions	153	189	273	274	297	321	357	393
International	Millions	16	16	24	20	22	24	25	25
Revenue passenger-miles flown: [5]									
Domestic	Billions	104.1	131.7	200.8	210.1	226.9	243.7	270.6	301.8
International	Billions	27.6	31.1	54.4	49.5	54.9	61.4	65.8	64.4
Average passenger-mile rate: [5] [7]									
Domestic	Dollars	.060	.077	.113	.121	.121	.128	.123	.112
International	Dollars	.050	.072	.075	.100	.098	.099	.098	.102
Express and freight revenue, ton-miles flown [5]	Millions	3,515	4,796	5,742	5,482	6,092	6,566	6,020	7,336
Domestic	Millions	2,216	2,747	3,277	3,039	3,385	3,565	3,133	3,990
International	Millions	1,299	2,049	2,465	2,443	2,707	3,001	2,887	3,346
Mail, ton-miles flown: [5]									
Domestic	Millions	715	683	949	1,004	1,065	1,161	1,214	1,247
International	Millions	549	426	393	400	415	457	445	434
Accidents [8] (scheduled passenger service):									
Total [9]	Number	39	29	15	15	22	12	18	22
Fatal	Number	2	2	-	3	4	1	4	1
Fatalities	Number	3	122	-	233	15	4	197	3

– Represents zero.

[1] The Airline Deregulation Act of 1978 lifted some restrictions on entering new markets. As a result there is no longer a clear distinction between domestic and international operators. Includes all cargo.

[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 1975, 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.

[7] Passenger revenues divided by revenue passenger-miles flown.

[8] Beginning 1975, includes all scheduled services of U.S. air carriers operating under 14 CFR 121.

[9] Includes mid-air collisions nonfatal to air carrier occupants (excluded in computation of fatal accidents).

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

No. 1025. Large Air Traffic Hubs—Summary: 1985

[**In thousands, except number of airports.** For calendar year. Air traffic hubs are cities and standard metropolitan statistical areas requiring aviation services. *A large hub is one which enplanes at least one percent of the total enplaned revenue* passengers in all services and all operations of U.S. certificated route air carriers]

Area or hub	Airports [1]	Aircraft departures			Revenue passengers enplaned	Enplaned revenue tons		
		Total [2]	Scheduled			Total [3]	Freight and express	U.S. mail
			Number	Completed				
Total, all areas	**700**	**5,696.2**	**5,748.5**	**5,626.0**	**381,108.1**	**4,905.3**	**3,403.3**	**1,485.2**
Total, 26 large hubs	41	3,439.4	3,487.7	3,399.7	*264,507.1*	*3,130.6*	*2,048.0*	*1,080.9*
Atlanta, GA	1	283.8	286.5	282.3	20,678.1	291.5	167.2	124.3
Boston, MA	1	101.3	102.1	99.5	9,112.9	118.2	85.5	32.6
Charlotte, NC	1	88.8	89.7	88.4	5,102.7	33.6	18.5	15.1
Chicago, IL	3	322.2	330.2	320.0	22,752.0	402.8	291.4	111.3
Dallas-Ft. Worth, TX	2	258.9	260.8	257.3	20,935.8	147.1	92.3	54.8
Denver, CO	1	177.6	181.3	176.9	13,863.0	100.7	49.4	51.3
Detroit/Ann Arbor, MI	2	125.5	124.0	121.4	7,163.8	123.3	88.8	34.4
Honolulu, HI	1	55.8	60.2	53.0	5,979.7	106.6	91.0	15.6
Houston, TX	2	141.7	144.1	141.3	10,017.4	79.8	56.7	23.1
Las Vegas, NV	1	60.3	60.1	59.2	4,627.1	7.4	4.3	3.1
Los Angeles/Burbank/Long Beach, CA	4	212.8	216.0	209.9	19,532.3	295.1	230.2	64.9
Miami/Ft. Lauderdale, FL	*2*	*115.3*	*116.0*	*112.9*	*10,669.1*	*135.5*	*102.9*	*32.4*
Minneapolis/St. Paul, MN	1	112.0	113.8	111.1	7,250.3	101.5	48.2	53.0
Newark, NJ	1	146.1	148.7	144.6	14,272.6	89.0	64.7	24.3
New York, NY	2	207.0	212.8	204.2	19,665.9	342.3	226.1	116.1
Orlando, FL	1	63.4	60.9	59.9	4,848.8	27.2	19.7	7.4
Philadelphia, PA/Camden, NJ	1	73.8	74.3	72.9	4,761.0	81.5	35.9	45.5
Phoenix, AZ	1	101.4	102.1	100.8	6,713.3	23.4	11.2	12.2
Pittsburgh, PA/Wheeling, WV	1	109.4	110.1	108.8	7,002.3	36.1	9.9	26.2
St. Louis, MO	1	145.8	147.2	144.5	9,555.2	94.3	36.5	57.8
Salt Lake City, UT	1	57.6	58.2	57.3	4,137.0	35.0	16.7	18.3
San Diego, CA	1	49.5	50.0	49.2	3,930.9	17.2	10.0	7.2
San Francisco/Oakland, CA	2	155.4	158.7	153.4	12,955.6	233.1	176.7	56.3
Seattle/Tacoma, WA	*3*	*83.4*	*86.6*	*82.6*	*5,724.2*	*107.5*	*73.0*	*33.8*
Tampa/St. Petersburg/Clearwater/Lakeland, FL	2	61.5	62.2	60.9	4,240.6	25.4	14.5	10.9
Washington, DC	2	129.2	131.2	127.5	9,015.6	75.7	26.7	49.1

[1] Airports serving area or hub. Airports certificated under Federal Aviation Regulation (FAR Part 139) served by scheduled and unscheduled air carriers. [2] Includes completed scheduled and unscheduled. [3] Includes foreign mail, not shown separately.

Source: U.S. Federal Aviation Administration, *Airport Activity Statistics*, annual.

No. 1026. Airline Cost Indexes: 1970 to 1986

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

Item	Index (1972=100)								Percent of cash operating expenses [1]			
	1970	1975	1980	1982	1983	1984	1985	1986	1970	1975	1980	1986
Composite	**87.2**	**142.7**	**262.9**	**304.9**	**310.0**	**312.9**	**313.6**	**292.7**	**100.0**	**100.0**	**100.0**	**100.0**
Labor	82.9	129.8	211.3	249.7	268.5	268.3	276.1	269.6	46.0	40.9	35.2	36.2
Interest [2]	*99.0*	*125.0*	*167.2*	*188.6*	*195.5*	*205.5*	*198.8*	*189.7*	*3.6*	*2.7*	*2.9*	*3.6*
Fuel	94.3	250.8	770.3	841.8	762.0	729.1	689.6	472.4	12.8	18.9	29.7	16.4
Passenger food	94.7	120.8	153.6	162.9	168.9	174.5	167.0	167.7	3.9	3.4	2.9	3.4
Advertising and promotion	99.1	102.0	137.6	200.6	204.3	202.9	201.8	205.5	2.6	1.8	1.6	2.4
Landing fees	82.1	135.9	192.3	212.8	214.6	219.0	217.8	241.2	2.2	2.4	1.7	2.0
Passenger traffic commissions	80.1	154.5	316.5	408.2	436.0	476.4	477.0	484.7	2.9	3.8	5.2	8.6
All other	90.4	127.6	184.4	215.2	223.2	232.6	239.9	246.2	26.1	26.1	20.8	27.5

[1] Total operating expenses plus interest on long term debt, less depreciation and amortization. [2] Interest on debt.

Source: Air Transport Association of America, Washington, DC, *Air Transport, 1986*, annual; and unpublished data.

No. 1027. Commuter/Regional Airline Operations—Summary: 1978 to 1986

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

Item	Unit	1978	1979	1980	1981	1982	1983	1984	1985	1986
Passenger carriers operating	Number	228	227	214	246	215	196	203	179	179
Passengers enplaned	Millions	11.3	14.0	14.8	15.4	18.6	21.8	26.1	[1] 26.0	28.4
Average passengers enplaned per carrier	1,000	49.6	61.7	69.2	62.6	86.5	111.2	128.1	152.4	158.4
Revenue passenger miles (RPM)	*Billions*	*1.36*	*1.72*	*1.92*	*2.09*	*2.61*	*3.24*	*4.17*	[1] *4.41*	*4.47*
Average RPMs per carrier	Millions	5.97	7.58	8.97	8.50	12.14	16.53	20.46	[1] 24.64	24.98
Airports served	Number	681	746	732	766	817	854	853	854	824
Average trip length	Miles	121	123	129	136	141	149	160	173	158
Passenger aircraft operated	Number	1,047	1,265	1,339	1,463	1,573	1,545	1,747	1,745	1,806
Average seating capacity (seats)	Number	11.9	12.5	13.9	15.1	15.6	18.1	18.4	19.2	18.4
Fleet flying hours	1,000	1,131	1,390	1,740	1,994	2,160	2,415	2,764	2,854	2,929
Average annual utilization aircraft	Hours	1,080	1,193	1,299	1,363	1,373	1,563	1,582	1,635	1,622

[1] Adjusted to exclude a merger in 1986.

Source: Regional Airline Association, Washington, DC, *1987 Annual Report of the Regional Airline Association* (copyright).

No. 1028. Civil Flying—Summary: 1970 to 1986

[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	1975	1980	1982	1983	1984	1985	1986
Airports in operation [1]	Number	11,261	13,251	15,161	15,831	16,029	16,075	16,318	16,582
Heliports	Number	790	1,524	2,336	2,712	2,918	2,980	3,120	3,336
Public	Number	4,260	4,573	4,814	4,805	4,812	4,806	5,861	4,924
Private	Number	7,001	8,678	10,347	11,026	11,217	11,269	10,457	11,658
Airports with runway lights	Number	3,554	4,171	4,738	4,844	4,878	4,889	4,941	4,954
Airports with paved runways	Number	3,805	4,865	5,633	6,223	5,441	6,529	6,721	6,948
Miles of Federal airways	1,000	324.7	403.9	411.1	366.2	364.4	364.8	368.5	332.0
Airport Improvement Program [2]	Mil. dol	50.5	339.9	639.0	407.1	721.5	733.3	842.1	1,615.3
Total civil aircraft	1,000	154.5	196.3	259.4	259.0	264.9	271.5	274.9	275.7
Active aircraft [3]	1,000	134.5	171.2	214.8	214.0	217.5	225.3	215.4	(NA)
Air carriers, total [4]	1,000	2.8	2.5	3.8	4.2	4.2	4.4	4.7	4.9
General aviation aircraft [5]	1,000	131.7	168.5	211.0	209.8	213.3	220.9	210.7	(NA)
Fixed-wing aircraft:									
Multi-engine	1,000	18.4	24.6	31.7	33.2	34.5	35.6	33.6	(NA)
Single-engine:									
4-place and over	1,000	64.6	82.6	107.9	106.5	107.2	109.9	105.6	(NA)
3-place and less	1,000	44.9	54.4	60.5	57.7	59.2	62.0	58.8	(NA)
Rotorcraft [6]	1,000	2.2	4.1	6.0	6.2	6.5	7.1	6.4	(NA)
Balloons, blimps, gliders, etc	1,000	1.6	2.8	5.0	6.2	5.9	6.3	6.3	(NA)
Airman certificates held	1,000	1,002	1,028	1,195	1,133	1,131	1,149	1,105	1,119
Pilot [7]	1,000	733	728	827	733	718	722	710	709
Held by women	Percent	4.0	5.2	6.4	6.2	6.1	6.1	6.1	6.1
Airline transport	1,000	34	43	70	73	75	79	83	87
Commercial	1,000	187	189	183	165	159	155	152	148
Private	1,000	304	306	357	322	319	320	311	306
Student	1,000	196	177	200	156	147	150	147	150
Nonpilot [8]	1,000	269	300	368	400	413	427	395	410
Ground technicians [9]	1,000	241	271	321	352	365	376	341	353
FAA employees: Total	Number	(NA)	56,732	55,340	46,897	46,993	47,178	47,245	46,809
Air traffic control specialists [10]	Number	(NA)	26,790	27,190	20,906	21,271	21,759	22,115	22,036
Full performance [11]	Number	(NA)	(NA)	16,317	9,078	15,458	11,031	11,672	12,533
Developmental [11]	Number	(NA)	(NA)	4,387	6,246		4,848	4,304	3,976
Assistants [11]	Number	(X)	(X)	(X)	1,166	1,367	1,475	1,465	1,479
Electronic technicians	Number	(NA)	9,149	8,871	8,031	7,633	7,229	6,856	6,600
Aviation safety inspectors	Number	(NA)	2,082	2,038	1,835	1,805	1,945	1,897	2,204
Engineers	Number	(NA)	2,597	2,436	2,238	2,313	2,419	2,457	2,417
Other	Number	(NA)	16,114	14,805	13,887	13,971	13,826	13,920	13,552
General aviation: [5]									
Hours flown	Million	26.0	32.0	41.0	36.5	35.2	36.1	34.1	(NA)
Fuel consumed: [12]									
Gasoline	Mil. gal	362	397	520	448	428	462	420	(NA)
Jet fuel [13]	Mil. gal	415	510	766	887	613	739	691	(NA)
Aircraft accidents: [14]									
General aviation [5]	Number	4,712	3,995	3,590	3,231	3,060	3,011	2,745	2,568
Fatal	Number	641	633	618	589	554	545	500	466
Rate per 100,000 aircraft hours flown	Rate	(NA)	2.20	1.70	1.84	1.78	1.73	1.63	1.53
Fatalities	Number	1,310	1,252	1,239	1,182	1,081	1,114	957	958
Air carrier [15]	Number	55	29	15	15	22	12	18	22
Fatal	Number	8	2	-	3	4	1	4	1
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.001	-	.001	.001	.0003	.001	.001
Fatalities	Number	146	122	-	233	15	4	197	3
Commuter air carriers [16]	Number	(NA)	48	38	26	18	22	22	14
Fatal	Number	(NA)	12	8	5	2	7	7	2
Rate per 1,000,000 aircraft miles flown	Rate	(NA)	.07	.04	.02	.01	.02	.02	.01
Fatalities	Number	(NA)	28	37	14	11	48	37	4
Air taxis [17]	Number	(NA)	152	171	132	140	146	152	118
Fatal	Number	(NA)	24	46	31	27	23	35	31
Rate per 100,000 aircraft hours flown	Rate	(NA)	.95	1.27	.95	1.05	.75	1.26	1.12
Fatalities	Number	(NA)	69	105	72	62	52	76	64
Hijacking incidents, worldwide	Number	83	25	40	31	33	22	35	12
U.S.-registered aircraft	Number	27	12	22	10	18	3	4	4
Successful [18]	Number	18	4	13	4	13	2	2	-
Foreign-registered aircraft	Number	56	13	18	21	15	19	31	8
Successful [18]	Number	37	3	9	12	6	18	18	2

- Represents or rounds to zero. 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. 1970–1982 data are obligated Federal funds for the Airport Development Aid Program, 1983–1986 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 staff positions, managers, and supervisors not shown separately. [11] Serving in-flight service stations, towers, and centers. [12] Source: 1970 and 1975, U.S. Bureau of Mines; *1980–1985 FAA General Aviation Activity and Avionics Survey*. [13] Includes kerosene-type and naphtha-type jet fuels. [14] Data from National Transportation Safety Board. [15] Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 121. [16] Beginning 1975, includes all scheduled service of U.S. Air Carriers operating under 14 CFR 135. [17] Beginning in 1975, includes all nonscheduled service of the U.S. Air Carriers operating under 14 CFR 135. [18] 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. 1029. U.S. Aircraft Shipments: 1970 to 1987

[Value in millions of dollars]

Year	Total		Civil						Military	
			Large transports [1]		General aviation [2]		Helicopters			
	Units	Value	Units	Value	Units	Value	Units	Value	Units	Value
1970	11,632	7,511	311	3,158	7,292	337	495	49	3,534	3,967
1975	16,918	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	4,407	25,232	262	8,493	2,691	1,470	401	269	1,053	15,000
1984	3,932	25,471	188	6,343	2,438	1,698	376	330	930	17,100
1985	3,620	31,496	273	9,375	2,033	1,435	384	506	930	20,180
1986 [3]	3,079	34,168	329	11,120	1,495	1,260	330	288	925	21,500
1987 [4]	2,775	34,740	340	12,200	1,225	1,100	315	340	895	21,100

[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, 1987.*

No. 1030. Employment and Earnings in Aircraft Industries: 1970 to 1986

[Annual averages of monthly figures]

SIC [1] code	Item	Unit	1970	1975	1980	1982	1983	1984	1985	1986
	Employment:									
(X)	**Total**	1,000	**664**	**607**	**763**	**732**	**720**	**746**	**814**	**877**
3721	Aircraft	1,000	371	293	349	320	305	306	326	339
3724	Aircraft engines and engine parts	1,000	(NA)	126	163	149	140	140	148	153
3728	Aircraft equipment, n.e.c.[2]	1,000	(NA)	95	140	132	134	146	163	183
376	Guided missiles, space vehicles, and parts	1,000	(NA)	93	111	131	141	154	177	202
(X)	Average weekly earnings: [3]									
3721	Aircraft	Dollars	169	256	404	485	(NA)	(NA)	(NA)	(NA)
3724	Aircraft engines and parts	Dollars	(NA)	247	394	454	476	523	542	561
376	Guided missiles, space vehicles, and parts	Dollars	(NA)	245	378	447	481	499	513	518
(X)	Average hourly earnings: [3]									
3721	Aircraft	Dollars	4.17	6.21	9.66	11.85	(NA)	[4] 12.91	[4] 13.18	[4] 13.48
3724	Aircraft engines and parts	Dollars	(NA)	6.04	9.42	11.16	11.61	12.40	12.85	13.08
376	Guided missiles, space vehicles, and parts	Dollars	(NA)	6.02	9.22	10.95	11.61	11.88	12.09	12.21

NA Not available. X Not applicable. [1] Standard Industrial Classification; see text, section 13. [2] N.e.c.=not elsewhere classified. [3] For production workers. [4] Excludes lump-sum payments. Earnings include proration of lump-sum payments: $13.11 in 1984; $13.40 in 1985; $13.78 in 1986.

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

No. 1031. Aerospace Industry—Summary: 1975 to 1987

[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	1975	1979	1980	1981	1982	1983	1984	1985	1986 [1]	1987 [2]
INDUSTRY DATA											
Value of shipments	Mil. dol	29,055	48,279	58,483	64,837	66,466	74,823	77,826	90,795	96,576	103,524
In 1982 dollars	Mil. dol	58,283	66,557	71,696	71,145	66,466	70,876	71,542	82,608	85,010	87,902
Employment, total	1,000	586	682	721	732	685	690	693	746	768	782
Production workers	1,000	312	374	387	377	349	341	344	372	381	387
Average hourly earnings	Dol	6.53	8.91	9.90	11.19	12.23	13.08	13.24	13.88	13.93	(NA)
Capital expenditures	Mil. dol	478	1,550	1,923	2,005	2,143	2,158	3,050	3,784	(NA)	(NA)
PRODUCT DATA											
Value of shipments	Mil. dol	26,834	43,663	53,296	58,968	60,024	66,229	70,200	80,625	87,002	93,601
In 1982 dollars	Mil. dol	54,316	60,296	65,479	64,762	60,024	62,631	64,400	73,296	76,560	79,405
Shipments price index	1982=100	49.4	71.8	80.8	90.8	100.0	105.8	108.7	109.7	113.5	117.9
TRADE DATA											
Value of imports	Mil. dol	747	1,395	3,190	4,325	4,242	3,455	4,917	6,083	7,885	8,353
Value of exports	Mil. dol	7,354	11,520	15,426	17,523	15,335	15,819	15,081	18,726	19,728	20,285

NA Not available. [1] Estimated. [2] Forecast.

Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1987.*

NO. 1032. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1986

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

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986
Net sales	24.8	29.5	58.4	69.9	75.5	83.5	88.9	100.5	105.6
Percent of U.S. Government	66.3	58.7	45.6	47.2	55.9	58.8	62.7	63.2	61.9
Complete aircraft and parts [1]	10.4	11.3	22.6	25.1	23.2	27.3	28.3	34.2	36.0
Aircraft engines and parts	3.1	3.4	6.9	8.5	8.7	8.6	9.1	9.7	9.8
Missiles and parts	5.4	6.3	8.4	4.7	5.7	12.7	13.6	16.7	17.5
Other products, services	5.9	8.5	20.5	31.6	37.9	34.8	38.0	39.8	40.3
Net, new orders	21.2	29.0	70.4	72.7	84.9	91.6	104.9	111.0	110.8
Backlog, Dec. 31	24.7	35.0	90.5	93.4	103.5	116.6	132.5	143.0	148.2

[1] Except engines sold separately.

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

NO. 1033. AEROSPACE INDUSTRY SALES, BY PRODUCT GROUP AND CUSTOMER: 1970 TO 1986

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1032]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS [2]					
	1970	1975	1980	1984	1985	1986 [1]	1970	1975	1980	1984	1985	1986 [1]
Total sales	**25.6**	**29.7**	**54.7**	**83.5**	**96.6**	**103.5**	**69.9**	**56.0**	**68.1**	**76.7**	**87.9**	**91.1**
PRODUCT GROUP												
Aircraft, total	14.1	16.4	31.5	41.9	50.5	53.2	38.5	31.0	39.2	38.5	45.9	46.8
Civil [3]	4.4	6.5	16.3	10.7	13.7	15.2	12.0	12.2	20.3	9.8	12.5	13.4
Military	9.7	10.0	15.2	31.2	36.8	38.0	26.5	18.8	18.9	28.7	33.4	33.4
Missiles	4.1	3.8	6.5	11.3	11.4	12.6	11.2	7.1	8.1	10.4	10.4	11.1
Space	4.7	4.7	7.9	16.3	18.6	20.5	12.9	8.8	9.9	15.0	16.9	18.0
Related products and services [4]	2.6	4.8	8.8	13.9	16.1	17.2	7.1	9.1	10.9	12.8	14.6	15.2
CUSTOMER GROUP												
Aerospace, total	22.9	24.9	45.9	69.6	80.5	86.3	62.6	47.0	57.1	63.9	73.2	76.0
DOD [5]	14.6	13.1	22.8	46.0	53.2	58.4	39.9	24.8	28.4	42.3	48.4	51.5
NASA [6] and other agencies	3.0	2.8	4.1	6.1	6.3	6.6	8.2	5.3	5.1	5.6	5.7	5.8
Other customers [7]	5.3	8.9	19.0	17.5	21.0	21.3	14.5	16.9	23.6	16.1	19.1	18.7
Related products and services [4]	2.6	4.8	8.8	13.9	16.1	17.2	7.1	9.1	10.9	12.8	14.6	15.2

[1] Preliminary. [2] Based on aerospace composite price deflator supplied by the U.S. International Trade Administration. [3] All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). [4] Electronics, software, and ground support equipment, plus sales of non-aerospace products which are produced by aerospace-manufacturing establishments and which use technology, processes, and materials derived from aerospace products. [5] Department of Defense. [6] National Aeronautics and Space Administration. [7] Includes civil aircraft sales (see footnote 3), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures, 1987/88.*

NO. 1034. U.S. EXPORTS OF AEROSPACE VEHICLES AND EQUIPMENT: 1980 TO 1987

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1980	1984	1985	1986	1987 [1]	1980	1984	1985	1986	1987 [1]
Aerospace vehicles and equipment, total	(NA)	(NA)	(NA)	(NA)	(NA)	**15,681**	**15,081**	**16,726**	**19,727**	**20,285**
Civil aircraft, total	4,434	1,045	1,050	1,326	1,197	8,378	4,147	6,694	7,365	6,960
Under 10,000 lbs. empty weight, new	3,150	407	465	426	490	657	146	147	174	170
10,000-33,000 lbs. empty weight, new	28	16	19	38	25	83	97	44	69	50
Over 33,000 lbs. empty weight, new	237	85	152	158	152	6,849	3,220	5,518	6,276	5,800
Rotary wing, new	525	233	137	210	210	299	234	210	277	360
Other new aircraft, n.e.c.[2]	(NA)	(NA)	(NA)	(NA)	(NA)	5	157	442	68	180
Used, rebuilt, and converted	494	304	277	494	320	486	293	333	501	400
Military aircraft, total	502	381	322	405	325	949	1,581	2,012	1,502	1,550
Aircraft engines and parts, total	(NA)	(NA)	(NA)	(NA)	(NA)	1,887	*2,964*	*3,263*	*3,660*	*3,945*
Internal combustion and parts	(NA)	(NA)	(NA)	(NA)	(NA)	270	269	303	325	325
Military, new and used	110	90	72	144	65	4	16	2	3	6
Non-military, new	1,848	995	984	1,060	1,020	25	16	20	21	18
Non-military, used	1,365	1,198	1,402	1,415	1,200	17	20	24	21	21
Parts, n.e.c.[2]	(NA)	(NA)	(NA)	(NA)	(NA)	224	217	257	280	280
Turbines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	1,616	2,715	2,980	3,335	3,620
Military, new or used	254	308	244	135	200	59	125	144	108	150
Non-military, new and used	1,393	1,264	2,317	1,342	1,400	514	1,021	880	944	1,070
Parts, n.e.c.[2]	(NA)	(NA)	(NA)	(NA)	(NA)	1,044	1,569	1,956	2,283	2,400
Missile engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	29	28	34	33	40
Propellers and parts	(NA)	(NA)	(NA)	(NA)	(NA)	57	37	55	49	70
Landing gear and parts	(NA)	(NA)	(NA)	(NA)	(NA)	92	124	102	127	130
Aircraft parts and accessories, n.e.c.[2]	(NA)	(NA)	(NA)	(NA)	(NA)	3,436	4,931	5,449	5,960	6,300
Guided missiles and space vehicles	(NA)	(NA)	(NA)	(NA)	(NA)	327	288	404	303	440
Flight simulators	(NA)	(NA)	(NA)	(NA)	(NA)	54	117	82	126	140
Space vehicle equipment, n.e.c.[2]	(NA)	(NA)	(NA)	(NA)	(NA)	392	646	387	322	400
Avionics	(NA)	(NA)	(NA)	(NA)	(NA)	80	198	224	280	310

NA Not available. [1] Forecast. [2] N.e.c. means not elsewhere classified.

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

No. 1035. U.S. Receipts and Payments for International Transportation: 1970 to 1986

[**In millions of dollars.** Data are international transportation transactions recorded for balance of payment purposes (see table 1329). *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	1975	1979	1980	1981	1982	1983	1984	1985	1986
Total receipts	**3,669**	**6,879**	**12,127**	**14,208**	**15,671**	**15,491**	**15,627**	**16,837**	**17,106**	**18,752**
Ocean transportation	2,256	4,065	6,868	7,757	8,028	7,685	8,133	8,649	8,819	9,395
Export freight earnings	604	1,183	2,091	2,641	2,803	2,549	2,881	2,702	2,866	2,609
Freight earnings on shipments between foreign countries	209	328	480	588	561	555	575	563	574	576
Port expenditures	1,406	2,481	4,235	4,435	4,552	4,468	4,562	5,457	5,247	6,070
Charter hire	37	73	62	93	112	113	115	127	132	140
Air transportation	1,240	2,515	4,811	5,946	7,160	7,326	7,023	7,473	7,806	8,495
Export freight earnings	187	390	577	742	752	762	576	645	706	783
Passenger fares	541	1,039	2,156	2,591	3,111	3,174	3,037	3,028	3,040	3,562
Port expenditures	512	1,086	2,078	2,613	3,297	3,390	3,410	3,800	4,060	4,150
Other transportation	173	299	448	505	483	480	471	515	481	862
Total payments	**4,058**	**7,971**	**14,090**	**15,397**	**16,961**	**16,482**	**17,706**	**21,345**	**23,165**	**23,941**
Ocean transportation	2,380	4,465	8,379	8,447	8,900	8,307	8,624	10,560	11,210	11,960
Import freight payments	1,444	3,047	6,084	5,809	6,073	5,562	5,827	7,755	8,306	9,076
Passenger fares	245	278	258	268	287	290	305	305	320	320
Port expenditures	316	755	1,607	1,905	2,054	1,957	1,980	1,972	2,048	2,028
Charter hire	375	385	430	465	486	498	512	528	536	538
Air transportation	1,581	3,346	5,448	6,705	7,785	7,938	8,842	10,542	11,729	11,681
Import freight payments	*115*	*248*	*506*	*562*	*671*	*725*	*1,066*	*1,633*	*1,683*	*2,059*
Passenger fares	970	1,985	2,926	3,339	4,200	4,482	5,179	6,197	6,993	6,522
Port expenditures	496	1,115	2,016	2,804	2,914	2,731	2,597	2,712	3,053	3,100
Other transportation	97	160	263	245	276	237	240	243	226	300
Receipts balance	**−389**	**−1,092**	**−1,963**	**−1,189**	**−1,290**	**−991**	**−2,079**	**−4,508**	**−6,059**	**−5,189**

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

No. 1036. Exports and Imports, by Method of Transport: 1970 to 1986

[Exports are free alongside ship (f.a.s.) value (see text, section 29) for all years; imports are f.a.s. value for 1975 and 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	1975	1980	1984	1985	1986	1970	1975	1980	1984	1985	1986
All methods [1]	Bil. dol.	43.2	107.6	220.7	217.9	213.1	217.3	40.0	96.9	240.8	325.7	345.3	370.0
Vessel	Bil. dol.	24.6	63.4	120.9	102.0	91.7	90.1	24.8	63.5	165.1	193.0	208.4	221.6
Air	Bil. dol.	6.1	15.2	46.1	53.4	52.3	63.4	3.4	8.9	28.0	52.3	51.3	62.0
Shipping weight: Vessel	*Bil. lb*	*480.5*	*538.5*	*801.8*	*750.0*	*700.5*	*653.3*	*598.4*	*855.3*	*976.8*	*832.2*	*797.0*	*914.2*
Air	Bil. lb	.9	1.4	2.3	2.2	1.8	2.1	.6	1.1	1.3	3.1	2.9	2.8

[1] Includes types other than vessel and air.

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

No. 1037. Federal Expenditures for Civil Functions of the Corps of Engineers, United States Army: 1960 to 1986

[**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	1980	3,061	1,225	1,228	551
1965	1,169	426	447	283	1981	3,198	1,339	1,273	527
1970	1,128	398	379	331	1982	2,940	1,331	1,083	453
1975	2,070	694	904	439	1983	2,959	1,290	1,088	482
1977	2,340	792	918	594	1984	3,085	1,383	1,154	445
1978	2,645	951	1,069	583	1985	2,956	1,234	1,187	419
1979	2,934	1,083	1,218	577	1986	3,163	1,268	1,377	401

[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. 1038. Freight Carried on Inland Waterways, by System: 1960 to 1985

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

SYSTEM	1960	1970	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Total	**220.3**	**318.6**	**372.9**	**368.3**	**409.3**	**424.6**	**406.9**	**410.2**	**351.2**	**359.0**	**399.0**	**381.7**
Atlantic coast waterways	28.6	28.6	32.1	30.4	30.5	31.9	30.4	28.3	25.4	22.5	24.7	24.8
Gulf coast waterways	16.9	28.6	34.3	37.6	37.1	38.1	36.6	35.1	31.8	32.4	36.7	36.5
Pacific coast waterways [1]	6.0	8.4	11.3	12.8	13.6	14.1	14.9	14.4	12.8	13.2	20.5	19.9
Mississippi River system [2]	69.3	138.5	189.5	196.9	209.3	218.8	228.9	234.4	218.0	223.0	234.6	224.7
Great Lakes System [3]	99.5	114.5	105.6	90.7	118.9	121.7	96.0	98.0	63.2	67.9	82.5	75.8

[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. 1039. Waterborne Imports and Exports—Cargo Tonnage and Value, by Coastal District: 1970 to 1986

[Exports are free alongside ship (f.a.s.) value for all years; imports are f.a.s. value for 1975 and 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	1975	1980	1983	1984	1985	1986	1970	1975	1980	1983	1984	1985	1986
Imports:														
Atlantic	219	232	183	171	197	190	216	15.0	34.7	71.5	75.5	92.6	94.4	97.5
Gulf	47	134	243	140	155	141	171	2.9	14.3	56.4	32.5	35.7	32.8	27.0
Pacific	31	64	56	44	47	51	59	5.5	15.2	45.0	53.9	70.6	90.4	104.0
Great Lakes	26	22	16	16	18	17	14	1.3	1.7	1.9	2.0	2.7	2.8	2.3
Exports:														
Atlantic	79	80	117	87	82	93	83	11.9	28.7	51.0	41.2	37.5	35.2	36.3
Gulf	78	106	163	164	167	144	135	6.9	21.4	41.5	36.0	37.3	31.8	29.0
Pacific	48	49	78	78	86	81	82	4.1	10.0	25.2	25.1	27.2	25.8	26.3
Great Lakes	36	35	45	32	41	34	32	1.4	2.8	4.6	2.6	3.4	2.4	1.0

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

No. 1040. Domestic and Foreign Waterborne Commerce, by Type of Commodity: 1970 to 1985

[**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 1039 due to minor differences in basic concepts]

COMMODITY	1970		1975		1980		1985			
	Total	Domestic	Total	Domestic	Total	Domestic	Total	Domestic	Foreign	
									Imports	Exports
Net total	**1,531.7**	**950.7**	**1,695.0**	**946.3**	**1,998.9**	**1,077.5**	**1,788.4**	**1,014.1**	**412.7**	**361.6**
Petroleum products [1]	394.7	287.3	407.6	328.5	423.2	339.2	368.8	259.0	74.1	35.7
Gasoline	89.3	88.7	95.7	92.2	87.3	81.0	94.0	78.0	15.2	.8
Distillate fuel oil	78.8	76.9	93.4	87.0	74.6	72.1	70.0	55.0	11.0	4.0
Residual fuel oil	170.5	78.8	172.1	111.5	188.0	141.3	130.0	83.7	33.7	12.6
Crude petroleum	210.5	116.3	333.8	77.9	480.2	174.2	357.7	194.7	163.0	-
Coal and lignite	225.4	154.1	219.0	152.8	256.4	164.1	273.9	179.9	1.7	92.3
Nonmetallic minerals [1 2]	166.6	132.6	159.2	123.3	157.1	111.6	150.7	108.5	22.8	19.4
Sand and gravel [3]	78.4	73.9	72.4	67.9	65.1	60.8	66.4	62.0	2.7	1.7
Limestone	*42.0*	*34.1*	*37.8*	*29.1*	*34.2*	*23.8*	*24.5*	*21.9*	*.5*	*2.1*
Phosphate rock	16.6	5.8	20.1	9.4	23.7	9.5	19.4	8.4	.1	10.9
Iron and concentrates	129.3	75.2	121.4	69.3	98.4	64.9	72.7	50.0	17.1	5.6
Farm products [1]	90.4	28.5	144.3	43.1	216.8	63.4	172.8	60.0	6.7	106.1
Corn	27.2	11.7	56.8	20.8	98.6	30.8	76.3	29.0	.1	47.2
Wheat	25.0	5.8	44.4	10.4	53.4	14.3	38.0	10.6	.1	27.3
Soybeans	21.2	8.3	23.2	9.4	39.6	16.1	32.9	14.9	-	18.0
Chemicals and allied products	62.0	39.7	66.5	40.0	91.9	49.4	108.5	53.3	25.2	30.0
Food and kindred products	35.0	11.0	35.5	13.3	54.8	20.4	52.5	17.6	14.5	20.4
Lumber and wood products [4]	49.9	27.3	48.2	24.7	52.0	22.7	47.2	18.8	4.6	23.8
Primary metal products	42.4	10.8	38.1	9.3	28.9	9.0	33.4	8.5	23.6	1.3
Waste and scrap	25.9	16.0	28.0	18.8	31.1	18.8	37.4	23.9	.4	13.1
Other	99.7	51.9	93.5	45.5	108.1	39.8	112.8	40.0	58.9	13.9

- Represents zero. [1] Includes categories not shown separately. [2] Excludes fuels. [3] Includes crushed rock. [4] Excludes furniture.

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

No. 1041. Vessels Entered and Cleared in Foreign Trade—Net Registered Tonnage, by Flag of Carrier Vessel: 1961 to 1986

[**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:											
1961–1965	49,670	188	33	17.9	155	166	30	136	128	19	109
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	228	227	24	202	171	19	152
1975	51,443	355	32	9.9	323	326	30	297	240	25	215
1980	53,645	492	52	10.6	440	460	50	410	310	34	276
1983	47,144	442	62	14.0	380	416	60	355	262	39	223
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
Cleared:											
1961–1965	48,098	189	34	17.9	155	168	30	137	96	20	76
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
1983	47,499	449	62	13.8	387	423	60	363	247	36	211
1984	49,819	468	54	11.5	414	436	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

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States;* thereafter, *Vessel Entrances and Clearances,* FT 975, annual.

No. 1042. Vessels Entered and Cleared in Foreign Trade—Net Registered Tonnage, by Coastal Districts: 1970 to 1986

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

Coastal district	Vessels entered						Vessels cleared					
	1970	1975	1980	1984	1985	1986	1970	1975	1980	1984	1985	1986
North Atlantic Coast	102.1	114.2	118.6	116.2	114.5	121.4	99.9	116.6	115.2	107.0	110.8	116.2
With cargo	85.4	92.3	82.1	93.4	85.9	89.9	43.7	50.6	57.8	47.1	52.7	47.8
South Atlantic Coast	36.1	48.0	65.3	63.8	68.2	77.6	31.3	46.0	60.1	62.7	63.3	70.3
With cargo	27.1	33.8	41.9	42.7	44.3	44.0	11.9	14.3	22.4	24.6	25.6	25.9
Gulf Coast	36.1	89.1	172.7	138.5	127.4	146.6	42.8	96.1	175.0	144.6	134.9	153.1
With cargo	23.0	60.8	122.8	91.5	84.6	103.1	36.8	54.2	85.0	79.1	73.5	73.4
South Pacific Coast	27.5	38.4	53.3	60.9	65.4	66.1	27.7	41.2	45.1	58.8	59.4	60.8
With cargo	21.8	32.4	36.0	41.0	44.0	45.2	20.9	24.0	31.7	44.9	45.0	44.3
North Pacific Coast	24.9	36.8	50.6	49.5	50.0	51.4	24.3	33.8	60.3	64.8	66.7	65.8
With cargo	13.6	21.1	26.6	22.1	23.7	27.8	19.0	24.5	49.0	54.7	56.0	54.1
Great Lakes	27.5	28.8	31.1	30.1	26.3	25.4	27.2	29.4	31.5	30.0	26.1	25.1
With cargo	15.2	14.0	11.3	13.5	11.6	11.7	20.2	21.2	23.7	23.1	20.7	19.8

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

No. 1043. Domestic Merchant Vessels Completed by U.S. Shipyards: 1970 to 1985

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

Type	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Merchant vessels	Number	13	15	16	17	14	15	10	12	11	13	5	8
Gross tons	1,000	342	452	615	884	912	1,149	375	275	337	376	118	172
Cargo	Number	6	3	4	2	2	4	6	2	6	6	-	4
Gross tons	1,000	120	65	57	25	27	53	105	53	221	228	-	113
Deadweight tons	1,000	134	71	76	37	30	47	114	73	219	219	-	97
Tankers	Number	7	12	12	15	12	11	4	10	5	7	5	4
Gross tons	1,000	222	387	558	859	885	1,096	270	222	116	148	118	59
Deadweight tons	1,000	427	742	1,176	1,585	1,392	1,901	354	358	226	277	210	92

- *Represents zero.*

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

No. 1044. United States Flag Merchant Vessels—Number and Vessel Deadweight Tonnage: 1970 to 1986

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

ITEM	CARGO [1]						TANKER					
	1970	1975	1980	1984	1985	1986	1970	1975	1980	1984	1985	1986
Number of vessels	**1,479**	**612**	**553**	**477**	**485**	**484**	**301**	**279**	**310**	**272**	**263**	**254**
Active:												
Foreign trade	354	228	195	122	129	123	32	39	32	38	32	33
Domestic trade [2]	70	49	46	41	36	37	175	156	211	142	135	131
Coastwise	10	17	12	5	4	5	132	136	103	25	24	43
Noncontiguous	43	29	34	30	30	29	35	12	45	47	52	43
Special service	146	34	44	38	45	41	42	26	23	27	26	26
Inactive:												
Temporarily	41	38	31	62	58	55	22	31	24	51	50	42
Reserve fleet	868	263	237	214	217	228	30	27	20	14	20	22
Vessel deadweight tonnage	**15,445**	**8,175**	**7,872**	**7,876**	**8,792**	**9,106**	**7,835**	**9,433**	**16,107**	**16,089**	**15,647**	**15,393**
Active:												
Foreign trade	4,699	3,901	3,826	3,108	3,623	3,468	1,076	2,303	2,793	2,324	1,825	2,007
Domestic trade [2]	850	832	713	813	659	775	4,518	4,855	10,546	8,793	8,909	8,699
Coastwise	116	354	200	148	108	153	3,483	4,299	3,078	1,170	1,028	1,838
Noncontiguous	482	424	479	481	509	549	870	339	3,699	4,783	5,534	5,068
Special service	1,741	459	560	587	932	860	1,189	755	661	834	747	745
Inactive:												
Temporarily	472	541	451	1,023	1,169	1,204	691	1,173	1,806	3,823	3,758	3,474
Reserve fleet	7,684	2,442	2,322	2,345	2,409	2,799	361	347	301	315	408	468

[1] Includes combination passenger and cargo vessels, not shown separately. [2] Includes intercoastal, not shown separately.

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. 1045. Private Shipyards—Summary: 1970 to 1987

[**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	1975	1980	1981	1982	1983	1984	1985	1986	1987
Employment	1,000	133.4	166.9	177.3	178.9	166.9	143.0	142.0	130.3	127.2	[1] 123.0
Production workers	1,000	108.5	133.4	141.8	142.2	130.8	112.0	111.0	99.0	96.8	93.7
Value of work done	Mil. dol	2,682	5,615	9,269	11,001	10,979	9,883	8,944	9,358	(NA)	(NA)
On ships only	Mil. dol	2,594	5,513	8,889	10,690	10,655	9,107	8,308	9,483	(NA)	(NA)
Value added	Mil. dol	1,616	2,923	5,338	6,304	6,386	5,752	5,206	5,740	(NA)	(NA)
Building activity:											
Merchant vessels: [2]											
Under construction [3]	Number	49	96	69	49	35	21	10	10	7	6
Ordered	Number	13	14	7	9	3	4	5	–	–	(NA)
Delivered	Number	13	19	23	22	17	15	5	3	1	(NA)
Cancelled	Number	–	12	4	1	–	–	–	–	–	(NA)
Under contract [4]	Number	49	79	49	35	21	10	10	7	6	(NA)
Naval vessels: [2]											
Under construction [3]	Number	108	63	99	91	93	105	111	100	85	79
Ordered	Number	6	16	11	28	30	27	11	11	16	(NA)
Delivered	Number	32	3	19	26	18	21	22	26	20	(NA)
Under contract [4]	Number	82	76	91	93	105	111	100	85	[5] 79	(NA)
Repairs/conversions:											
Commercial ships	Mil. dol	431	688	1,335	1,568	1,592	1,003	913	1,179	(NA)	(NA)
Naval ships	Mil. dol	359	554	1,134	1,251	1,571	1,819	1,909	2,176	(NA)	(NA)
Unfinished work: [3]											
Commercial ships	Mil. dol	765	4,350	2,070	1,000	838	372	100	450	315	53
Naval ships	Mil. dol	1,719	5,424	7,107	6,760	8,025	12,200	14,003	12,091	9,595	8,265

– 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*.

NO. 1046. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1986

[**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	1977	242	174	68	1982	252	172	80
1970	216	134	83	1978	243	172	71	1983	227	143	84
1974	225	161	64	1979	244	173	71	1984	229	146	83
1975	217	154	65	1980	251	178	73	1985	219	138	80
1976	233	168	65	1981	264	187	77	1986	207	132	75

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

NO. 1047. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1970 TO 1985, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1970 TO 1987

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

YEAR	Employment [1]	YEAR	Employment [1]	YEAR	East coast wage rate [2]	West coast wage rate [2]	YEAR	East coast wage rate [2]	West coast wage rate [2]
1970	37.6	1981	18.3	1970	$470	$652	1981	$1,120	$1,535
1975	20.5	1982	16.7	1975	612	900	1982	1,204	1,686
1976	19.9	1983	15.3	1977	737	1,072	1983	1,320	1,862
1979	19.7	1984	13.7	1978	804	1,172	1984	1,419	2,029
1980	19.6	1985	13.1	1979	865	1,287	1985	1,419	2,069
				1980	967	1,414	1986	1,419	2,132
							1987	1,419	2,132

[1] As of June 30, except beginning 1978, 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. 1048. WORLDWIDE TANKER CASUALTIES: 1975 TO 1987

[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	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987 [1]
Casualties	Number	906	685	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	340	451	127
Total losses [2]	Number	22	17	26	15	21	21	11	14	12	8	2
Deaths	Number	90	148	306	132	73	72	14	68	53	23	3
Oil spills	Number	45	35	65	32	33	9	17	15	9	8	6
Amount	1,000 tons	188.0	260.5	723.5	135.6	45.3	1.8	387.8	22.4	79.8	5.0	3.2

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. 1049. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1986

[**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
1965	2,202	11,763	41,865	160,392	116	218	3,416	21,527
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
1982	2,312	16,820	75,151	424,742	204	216	6,133	19,111
1983	2,276	15,911	76,106	422,590	159	381	6,437	19,358
1984	2,210	18,334	76,068	418,682	73	84	6,441	19,292
1985	1,964	18,157	76,395	416,269	66	180	6,447	19,518
1986	1,634	16,845	75,266	404,910	36	223	6,496	19,901

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

No. 1050. Merchant Vessels—Ships and Tonnage Lost Worldwide, by Type of Ship: 1980 to 1985

[**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	1983	1984	1985		1980	1983	1984	1985	
				Total	Percent of total				Total	Percent of total
Total [1]	**387**	**340**	**327**	**307**	**100.0**	**1,804**	**1,473**	**2,354**	**1,651**	**100.0**
Tankers	24	18	25	19	6.2	707	487	1,542	776	47.0
Ore/bulk carriers [2]	21	26	17	22	7.2	458	410	271	405	24.5
General cargo	211	191	178	155	50.5	478	511	401	363	22.0
Container ships	2	1	3	5	1.6	6	7	34	41	2.5
Passenger [3]	9	2	2	–	–	112	5	17	–	–
Fishing	96	71	73	66	21.5	30	21	33	26	1.6

– 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. 1051. Merchant Fleets of the World: 1975 to 1985

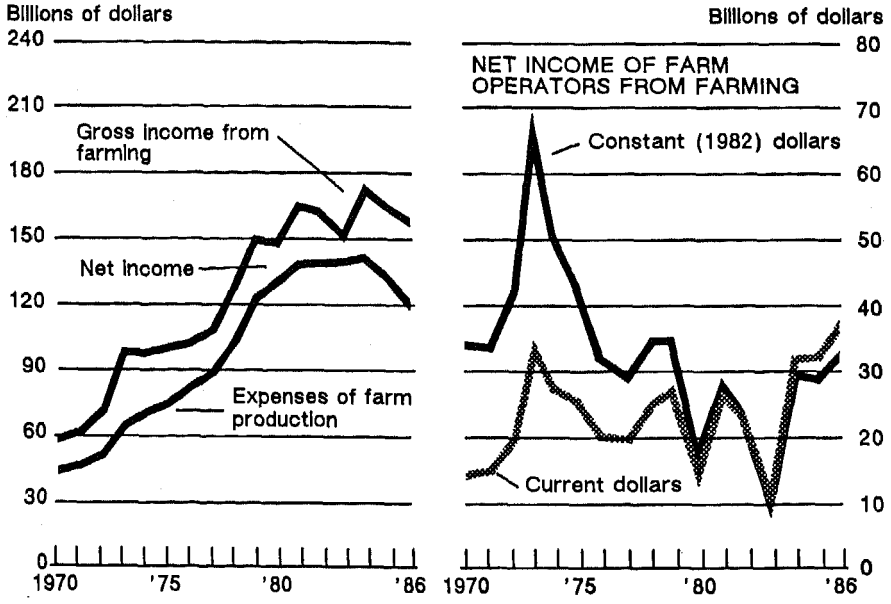
[**Vessels of 1,000 gross tons and over. 1975** as of **Dec. 31.** Beginning **1980,** as of **Jan. 1** of the following year. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, **1985**	TOTAL		PASSENGER/ CARGO COMB.		FREIGHTERS		BULK CARRIERS [1]		TANKERS	
	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)	Number	Avg. age (yr.)
1975, world total	**22,872**	**12**	**714**	**21**	**12,575**	**13**	**4,272**	**9**	**5,311**	**11**
United States	857	21	60	29	511	21	19	25	267	19
Foreign	22,015	12	654	21	12,064	13	4,253	9	5,044	11
1980, world total	**24,867**	**13**	**468**	**24**	**14,242**	**14**	**4,798**	**10**	**5,359**	**12**
United States	864	23	65	34	471	23	20	22	308	20
Foreign	24,003	13	403	22	13,771	13	4,778	10	5,051	11
1985, world total	**25,555**	**14**	**375**	**25**	**13,937**	**15**	**5,787**	**11**	**5,456**	**13**
United States	737	23	37	38	417	25	25	9	258	19
Privately owned	477	17	8	29	209	17	25	9	235	17
Government-owned	260	34	29	40	208	33	–	(x)	23	35
Foreign	24,818	14	338	23	13,520	15	5,762	11	5,198	13
Argentina	187	19	1	35	99	17	20	18	67	21
Bahamas, The	129	11	11	18	40	10	20	10	58	10
Brazil	345	14	3	25	169	17	90	7	83	14
British Colonies	450	12	2	24	196	15	204	10	48	12
Bulgaria	117	14	4	12	51	15	45	12	17	18
China: Mainland	1,025	17	14	24	692	18	180	13	139	16
Taiwan	214	13	1	15	127	13	68	12	18	13
Cuba	103	16	2	29	79	16	9	16	13	14
Cyprus	716	18	6	26	451	19	168	16	91	14
Denmark	255	8	4	17	159	8	13	8	79	9
East Germany	161	15	3	23	133	14	21	19	4	7
Egypt	129	15	10	16	94	15	14	14	11	12
Finland	120	11	3	11	58	12	27	9	32	10
France	268	12	6	9	138	11	38	10	86	13
Greece	1,835	17	33	31	733	19	760	13	309	18
Honduras	109	25	1	24	79	26	7	27	22	18
India	358	14	5	21	180	16	116	13	57	8
Indonesia	330	17	9	18	229	19	12	8	80	14
Iran	108	12	–	–	42	14	46	9	20	13
Italy	569	18	10	28	230	18	102	17	227	19
Japan	1,604	8	6	11	633	8	497	9	468	8
Lebanon	113	25	–	–	99	25	12	20	2	30
Liberia	1,852	12	8	18	386	12	764	11	694	12
Malaysia	183	15	2	36	125	17	23	10	33	11
Malta	191	21	2	53	122	22	58	20	9	18
Netherlands	464	9	4	9	363	8	28	7	69	11
Norway	424	10	22	19	130	9	90	8	182	10
Panama	3,620	13	35	31	2,068	15	952	11	565	12
Philippines	399	14	13	25	193	16	153	9	40	22
Poland	285	14	2	22	184	14	90	12	9	11
Romania	268	10	1	48	194	10	64	9	9	11
Saudi Arabia	164	19	3	25	78	22	18	16	65	17
Singapore	480	14	2	30	298	16	83	10	97	13
South Korea	487	14	–	–	240	15	176	12	71	13
Soviet Union	2,514	15	52	18	1,793	15	221	14	448	14
Spain	489	11	1	57	308	10	79	11	101	13
Sweden	206	11	2	23	116	10	20	12	68	11
Thailand	108	21	–	–	80	21	2	18	26	20
Turkey	322	13	6	32	203	12	58	14	55	14
United Kingdom	541	12	12	17	206	12	96	10	227	13
West Germany	528	7	5	7	414	6	23	7	86	8
Yugoslavia	263	17	4	24	186	18	63	14	10	17
All others	1,785	14	28	23	1,122	15	232	11	403	13

– Represents zero. X Not applicable. [1] Includes bulk/oil, ore/oil, and ore/bulk/oil carriers.

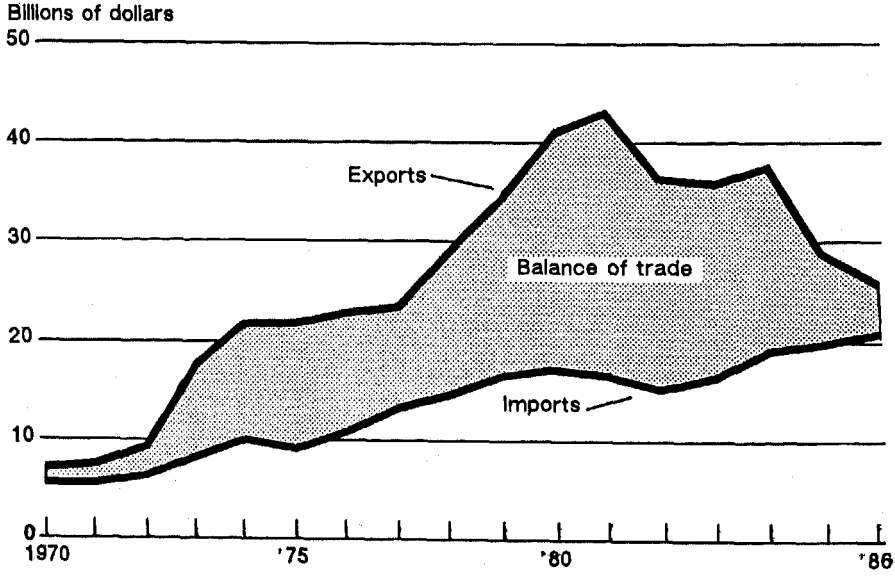
Source: U.S. Maritime Administration, *A Statistical Analysis of the World's Merchant Fleets*, annual.

Figure 23.1
Farm Income and Expenses: 1970 to 1986

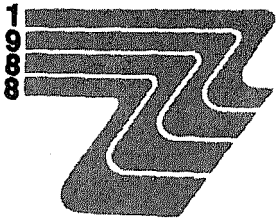


Source: Chart prepared by U.S. Bureau of the Census. For data see table 1074.

Figure 23.2
Agricultural Exports and Imports: 1970 to 1986



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1096.



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 other economic censuses for 1982. The 1982 Census of Agriculture is the most recent census for which reports are presently available. The Department of Agriculture publishes annually *Agricultural Statistics,* a general reference book on agricultural production, supplies, consumption, facilities, costs, and returns. The Economic Research Service publishes a series of annual reports, *Economic Indicators of the Farm Sector.* This series comprises five reports: *National Financial Summary, State Financial Summary, Production and Efficiency Statistics, Costs of Production,* and *Farm Sector Review.* Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade of the United States,* published by the ERS, and the reports of the Bureau of the Census, particularly *U.S. General Imports, Schedule A, Commodity by Country,* and *U.S. Exports, Schedule B, Commodity by Country.*

The 44 field offices of the NASS collect data on crops, livestock and products, agricultural prices, farm employment, and other related subjects mainly through sample surveys. Information is obtained on some 75 crops and 50 livestock items as well as scores of items pertaining to agricultural production and marketing. State estimates and supporting information are sent to the Agricultural Statistics Board of NASS which reviews the estimates and issues reports containing State and national data. Among these reports are two annual summaries, *Crop Production* and *Crop Values.*

Farms and farmland.—Over time, the Bureau of the Census has used varying definitions of a farm. Data from the census of agriculture reflect the changes in definition since figures are presented for "farms" as defined during the years indicated. For the 1974, 1978, and 1982 Censuses of Agriculture, a farm was defined as any place from which $1,000 or more of agricultural products were sold, or 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, and 1982 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.

State totals for 1982 are not directly comparable with totals for 1978 or earlier censuses because of changes in data collection procedures. Coverage estimates for 1978 and 1982 indicate about 3.4 and 9.1 percent of all farms, respectively, were not included in census totals. Farms undercounted in the census were usually small and accounted for approximately 2 percent of the total value of agricultural products sold and approximately 2 percent of the land in farms. For more explanation

about data comparability, see Appendixes A and C, *1982 Census of Agriculture,* volume I 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 1969 Census of Agriculture. Farm population data for 1978 to 1983 are shown on the basis of both the 1969 and 1974 census farm definitions and are so indicated. Beginning 1984, farm population data are based only on the 1974 census farm definition.

Irrigation.—Irrigated land is defined by the Bureau of the Census as the acreage in farms to which water is artificially applied during the census year. The Bureau of the Census also collects data on the operation of irrigation water supply organizations at 10-year intervals. In 1978, irrigation information was collected from both individual farms and irrigation organizations.

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 reporters 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.

Through 1985 prices received by farmers are season average prices. They are calculated by weighting monthly prices by monthly sales during the crop marketing season, beginning with the first month in which a particular crop harvest begins. State prices are weighted by sales to obtain U.S. prices. Season average prices include an allowance for outstanding loans and government purchases, if any, for crops under government programs.

Beginning 1986 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,* February 1987. 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 1100 and 1102-1110 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.—Under law, farm income from many commodities is supported through two basic Government-supported 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.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986.* For cross-references, see Appendix V.

No. 1052. Food and Fiber Sector of Domestic Economy—Employment and Value Added: 1975 to 1986

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

SECTOR	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
EMPLOYMENT										
Food and fiber sector, total	**20.0**	**20.9**	**21.5**	**21.4**	**21.5**	**21.6**	**21.1**	**21.3**	**21.4**	**21.0**
Percent of domestic economy [1]	21.3	20.4	20.5	20.1	19.8	19.6	19.0	18.8	18.5	17.9
Farm sector	2.8	3.0	2.8	2.6	2.5	2.3	2.5	2.6	2.4	2.1
Nonfarm sector	17.2	17.9	18.7	18.9	19.0	19.2	18.7	18.8	19.0	18.9
Food processing	1.5	1.5	1.5	1.5	1.5	1.6	1.5	1.4	1.5	1.4
Manufacturing	3.2	3.2	3.3	3.4	3.4	3.3	3.1	3.0	2.9	2.9
Transportation, trade, and retailing	5.7	6.0	6.3	6.4	6.5	6.6	6.5	6.6	6.8	6.8
Eating establishments	3.1	3.4	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.8
Other	3.7	3.9	4.0	4.0	4.1	4.2	4.0	4.1	4.2	4.1
VALUE ADDED [2]										
Food and fiber sector, total	**325.7**	**415.0**	**465.4**	**499.9**	**562.3**	**611.3**	**602.5**	**659.9**	**705.5**	**701.5**
Percent of domestic economy	20.4	18.4	18.6	18.3	18.4	19.3	17.7	17.5	17.6	16.6
Farm sector	43.3	49.0	59.4	55.1	67.3	75.1	49.7	64.6	73.3	64.4
Nonfarm sector	282.4	366.0	406.0	444.8	495.0	536.2	552.8	595.3	632.2	637.1
Food processing	38.7	46.6	49.7	56.0	61.7	70.0	70.4	75.6	84.5	82.2
Manufacturing	57.0	70.6	77.1	83.0	93.1	97.5	98.0	101.6	103.4	102.3
Transportation, trade, and retailing	96.8	127.0	142.7	157.5	175.6	188.1	196.8	209.0	220.9	226.0
Eating establishments	25.7	34.8	38.9	42.0	44.6	48.1	52.0	55.7	59.3	61.8
Other	64.2	86.9	97.6	106.3	120.0	132.5	135.7	153.5	164.1	164.8

[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. 1053. Farm Population and Employment: 1960 to 1986

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

ITEM	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Farm population (**1974** definition) [1]	(NA)	(NA)	(NA)	6,501	6,241	6,051	5,850	5,628	5,787	5,754	5,355	5,226
Percent of resident population	(NA)	(NA)	(NA)	3.0	2.8	2.7	2.6	2.4	2.5	2.4	2.2	2.2
Farm population (**1969** definition) [1]	15,635	9,712	8,864	8,005	7,553	7,241	7,014	6,880	7,029	(NA)	(NA)	(NA)
Percent of resident population	8.7	4.8	4.2	3.7	3.4	3.3	3.1	3.0	3.0	(NA)	(NA)	(NA)
Farm employment, total [2]	7,057	4,523	4,342	3,957	3,774	3,705	3,330	4,043	3,749	3,405	3,115	2,912
Family member [3]	5,172	3,348	3,025	2,689	2,501	2,402	2,236	2,494	2,271	2,175	2,017	1,873
Hired workers [4]	1,885	1,175	1,317	1,268	1,273	1,303	*1,094*	*1,549*	*1,476*	*1,230*	*1,096*	*1,039*

NA Not available. [1] April-centered five-quarter averages for 1960 to 1983; annual average for 1984 to 1986. [2] 1960 and 1970, averages of monthly estimates of employed during last full calendar week ending at least one day before end of month; 1975–1980 annual quarterly averages; 1981, average based on employment data from Jan. and April quarterly surveys; 1982–1983 based on July survey; 1984, average from July and Oct. surveys; 1985 and 1986 average from April, July and Oct. surveys. [3] Includes farm operators doing 1 or more hours of farm work and unpaid family members doing 15 or more hours of farm work during survey week. [4] Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: Population—U.S. Dept. of Agriculture, Economic Research Service and U.S. Bureau of the Census. Published in U.S. Bureau of the Census, *Current Population Reports*, series P-27, No. 60. Farm employment—U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Labor*, periodic.

No. 1054. Characteristics of Farm and Nonfarm Families: 1970 to 1986

[As of **March.** 1970 based on 1969 census farm definition and 1980 and 1986 based on 1974 definition; see text, section 23. 1970, 1980 and 1986 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			1986		
	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	63,558	1,562	61,996
Persons per family	3.62	3.77	3.61	3.28	3.35	3.27	3.21	3.18	3.21
With own children under 18 (1,000)	28,665	1,169	27,496	30,517	745	29,772	31,670	613	31,056
Mean number of own children	2.33	2.61	2.32	1.89	2.00	1.89	1.83	1.93	1.83
Percent with: 1 or 2 children	63.6	57.2	63.9	77.0	71.5	77.2	79.7	75.9	79.7
3 or 4 children	28.5	29.3	28.5	20.4	24.8	20.3	18.7	21.5	18.6
5 or more children	7.8	13.5	7.6	2.5	3.5	2.5	1.7	2.6	1.7
Percent distribution:									
Married couple	86.7	90.5	86.5	82.5	92.3	82.2	80.1	93.2	79.8
Male householder, no wife present	2.4	4.2	2.3	2.9	3.4	2.9	3.8	2.8	3.8
Female householder, no husband present	10.9	5.3	11.2	14.6	4.4	14.9	16.1	4.0	16.4
2-person families	34.5	37.0	34.3	39.2	42.7	39.1	40.1	44.3	40.0
3-to-5 person families	52.7	46.4	53.1	53.7	47.1	53.9	54.8	50.9	55.0
6-or-more person families	12.9	16.6	12.6	7.1	10.3	7.0	5.1	4.8	5.1
Median family income [1] in constant (**1985**) dollars	27,680	18,736	28,088	29,139	24,242	29,277	27,735	21,853	27,881

[1] Income for previous year.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, No. 218; series P-27, No. 60 and earlier reports; series P-60, No. 154 and earlier reports; and unpublished data.

No. 1055. Farm Population, by Characteristics: 1970 to 1986

[1970 and 1980, April-centered five-quarter averages; 1985 and 1986 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	1986				1980	1985	1986
					Total	Male	Female				
Total	**9,712**	**7,241**	**6,051**	**5,355**	**5,226**	**2,733**	**2,493**	**100.0**	**100.0**	**100.0**	**100.0**
White	8,775	6,828	5,714	5,195	5,081	2,654	2,427	90.4	94.4	97.0	97.2
Black and other races	938	413	337	160	145	79	66	9.7	5.6	3.0	2.8
Under 15 years old	[1] 2,490	[1] 1,391	[1] 1,146	1,100	1,047	551	496	[1] 25.6	[1] 18.9	20.5	20.0
15 years old and over	[2] 7,222	[2] 5,851	[2] 4,905	4,255	4,179	2,182	1,997	[2] 74.4	[2] 81.1	79.5	80.0
15–19 years old	[3] 1,316	[3] 926	[3] 790	456	436	229	207	[3] 13.6	[3] 13.1	8.5	8.3
20–24 years old	502	502	444	381	350	194	156	5.2	7.3	7.1	6.7
25–34 years old	770	795	606	640	654	355	299	7.9	10.0	12.0	12.5
35–44 years old	1,061	862	712	687	648	331	317	10.9	11.8	12.8	12.4
45–64 years old	2,452	1,892	1,607	1,342	1,369	701	668	25.2	26.6	25.1	26.2
65 years old and over	1,122	934	746	747	723	372	351	11.6	12.3	13.9	13.8
In labor force [4]	4,293	3,882	3,139	2,853	2,865	1,797	1,068	59.4	64.0	57.1	68.6
Employed, agriculture	2,333	1,722	1,642	1,363	1,363	1,082	280	32.3	33.5	32.0	32.6
Percent of labor force	54.3	46.8	52.3	47.8	47.6	60.2	26.2	(x)	(x)	(x)	(x)
Self-employed	1,411	1,083	1,034	896	906	771	135	19.5	21.1	21.1	21.7
Wage and salary workers	395	344	326	318	318	265	52	5.5	6.6	7.5	7.6
Unpaid family workers	526	295	282	149	139	46	94	7.3	5.7	3.5	3.3
Employed, nonagriculture	1,878	1,853	1,415	1,402	1,418	673	745	26.0	28.8	32.9	33.9
Self-employed	159	210	161	159	156	97	61	2.2	3.3	3.7	3.8
Wage and salary workers	1,698	1,624	1,239	1,237	1,250	574	676	23.5	25.9	29.1	29.6
Unpaid family workers	21	19	16	7	10	2	8	.3	.3	.2	.2
Unemployed	82	106	82	88	85	41	43	1.1	1.7	2.1	2.0
Not in labor force [4]	2,929	2,169	1,766	1,402	1,314	385	929	40.6	36.0	32.9	31.4

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 total population, 14 years old and over through 1980, and 15 years old and over beginning 1985.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-27, No. 60 and earlier reports; and unpublished data.

No. 1056. Farms—Number and Acreage: 1959 to 1987

[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	
	Number (1,000)	Annual change [1] (1,000)	Total (mil. acres)	Average per farm (acres)		Number (1,000)	Annual change [1] (1,000)	Total (mil. acres)	Average per farm (acres)
1969 definition					**1974 definition**				
1959	*4,105*	*–139*	*1,183*	*288*	1975	2,521	(x)	1,059	420
1960	3,963	–142	1,176	297	1976	2,497	–24	1,054	422
1964	*3,457*	*–127*	*1,146*	*332*	1977	2,456	*–41*	*1,048*	427
1965	3,356	–101	1,140	340	*1978*	*2,436*	*–20*	*1,045*	*429*
1969	*3,000*	*–89*	*1,108*	*369*	1979	2,432	–4	1,042	428
1970	2,949	–51	1,102	374	1980	2,433	1	1,039	427
1971	2,902	–47	1,097	378	1981	2,434	1	1,034	425
1972	2,860	–42	1,092	382	*1982*	*2,401*	*–33*	*1,028*	*428*
1973	2,823	–37	1,088	385	1983	2,370	–31	1,024	432
1974	*2,795*	*–28*	*1,084*	*388*	1984	2,328	–42	1,019	438
1975	2,767	–28	1,081	391	1985	2,275	–53	1,014	446
1976	2,738	–29	1,078	394	1986	2,212	–63	1,008	456
1977	2,706	–32	1,075	397	1987, prel	2,173	–39	1,002	461
1978	*2,672*	*–34*	*1,072*	*401*					

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;* and *Crop Production* (August releases).

No. 1057. Farms—Number and Acreage, by State: 1980 and 1987

[1987 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	1987	1980	1987	1980	1987		1980	1987	1980	1987	1980	1987
U.S	**2,433**	**2,173**	**1,039**	**1,002**	**427**	**461**	Missouri	120	114	31	31	261	268
							Montana	24	23	62	61	2,601	2,609
Alabama	59	49	12	11	207	224	Nebraska	65	56	48	47	734	843
Alaska	(z)	1	2	1	3,378	2,121	Nevada	3	2	9	9	3,100	3,667
Arizona	8	8	38	37	5,080	4,405	New Hampshire	3	3	1	1	160	163
Arkansas	59	49	17	15	280	314	New Jersey	9	8	1	1	109	112
California	81	77	34	33	417	423	New Mexico	14	14	47	45	3,467	3,304
Colorado	27	27	36	34	1,358	1,269	New York	47	41	9	9	200	212
Connecticut	4	4	(z)	(z)	117	119	North Carolina	93	72	12	11	126	150
Delaware	4	3	1	1	186	203	North Dakota	40	33	42	41	1,043	1,246
Florida	39	39	13	13	344	333	Ohio	95	84	16	16	171	186
Georgia	59	48	15	13	254	271	Oklahoma	72	70	35	33	481	471
Hawaii	4	4	2	2	458	464	Oregon	35	37	18	18	517	484
Idaho	24	23	15	14	623	600	Pennsylvania	62	57	9	9	145	150
Illinois	107	84	29	29	269	340	Rhode Island	1	1	(z)	(z)	87	97
Indiana	87	72	17	16	193	225	South Carolina	34	26	6	5	188	200
Iowa	119	107	34	34	284	313	South Dakota	39	35	45	45	1,169	1,271
Kansas	75	70	48	48	644	684	Tennessee	96	96	14	13	142	131
Kentucky	102	99	15	15	143	146	Texas	189	160	138	133	731	833
Louisiana	37	36	10	10	273	269	Utah	14	14	12	11	919	831
Maine	8	8	2	2	195	195	Vermont	8	7	2	2	226	222
Maryland	18	17	3	2	157	141	Virginia	58	50	10	10	169	192
Massachusetts	6	6	1	1	116	113	Washington	38	37	16	16	429	427
Michigan	65	58	11	11	175	195	West Virginia	22	21	4	4	191	176
Minnesota	104	92	30	30	291	326	Wisconsin	93	80	19	18	200	219
Mississippi	55	45	15	14	265	307	Wyoming	9	9	35	35	3,846	4,000

Z Less than 500 farms or 500,000 acres.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production* (August 1987 release).

No. 1058. Farms—Number, Acreage, and Value, by State: 1982

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

REGION, DIVISION, AND STATE	Number of *farms* (1,000)	Land in *farms* (mil. acres)	Average *size of* farm (acres)	Value of land and buildings [1] (mil. dol.)	DIVISION AND STATE	Number of *farms* (1,000)	Land in farms (mil. acres)	Average size of farm (acres)	Value of land and buildings [1] (mil. dol.)
U.S	**2,241**	**986.8**	**440**	**774,158**	**South Atlantic**	**274**	**57.2**	**209**	**69,752**
Region:					Delaware	3	.7	196	1,218
Northeast	131	23.0	175	28,272	Maryland	16	2.6	158	5,378
Midwest	932	354.2	380	339,761	*Virginia*	*52*	*9.4*	*182*	10,622
South	896	293.8	328	236,638	West Virginia	19	3.6	190	2,421
West	280	315.7	1,129	169,487	North Carolina	73	10.3	142	13,669
					South Carolina	25	5.6	224	5,193
New England	**26**	**4.6**	**178**	**5,385**	Georgia	50	12.3	248	11,166
Maine	7	1.5	210	1,053	Florida	36	12.8	353	20,085
New Hampshire	3	.5	170	555					
Vermont	6	1.6	249	1,305	**East South Central**	**283**	**49.2**	**174**	**46,466**
Massachusetts	5	.6	113	1,111	Kentucky	102	14.2	140	14,661
Rhode Island	1	.1	86	173	Tennessee	91	*12.5*	*138*	*12,592*
Connecticut	4	.4	118	1,188	Alabama	48	10.2	211	8,290
					Mississippi	42	12.4	293	10,923
Middle Atlantic	**106**	**18.4**	**174**	**22,887**					
New York	42	9.2	218	7,509	**West South Central**	**340**	**187.3**	**551**	**120,420**
New Jersey	8	.9	111	2,840	Arkansas	51	14.7	291	14,460
Pennsylvania	56	8.3	149	12,538	Louisiana	32	8.9	282	12,070
					Oklahoma	73	32.4	446	22,556
East North Central	**403**	**88.6**	**220**	**134,967**	*Texas*	185	131.3	710	71,334
Ohio	87	15.4	177	23,287					
Indiana	77	16.3	211	26,128	**Mountain**	**122**	**246.1**	**1,857**	**76,179**
Illinois	98	28.7	292	53,061	Montana	24	60.5	2,566	15,866
Michigan	59	10.9	187	13,389	Idaho	25	13.9	563	11,353
Wisconsin	82	17.2	210	19,102	Wyoming	9	33.5	3,781	6,484
					Colorado	27	33.5	1,237	15,228
West North Central	**529**	**265.6**	**502**	**204,793**	New Mexico	13	47.1	3,493	8,322
Minnesota	94	27.7	294	32,326	Arizona	7	37.8	5,148	10,972
Iowa	115	32.6	283	54,349	*Utah*	*14*	*9.8*	*699*	*5,445*
Missouri	112	29.3	260	25,094	Nevada	3	10.0	3,671	2,509
North Dakota	36	40.2	1,104	17,609					
South Dakota	37	43.8	1,179	15,429	**Pacific**	**158**	**69.6**	**441**	**93,307**
Nebraska	*60*	*45.0*	746	31,910	Washington	36	16.5	456	15,271
Kansas	73	47.1	642	28,076	Oregon	34	17.7	520	12,665
					California	82	32.2	390	61,532
					Alaska	(z)	1.3	2,323	264
					Hawaii	5	2.0	426	3,575

Z Less than 500. [1] Based on reports for a sample of farms.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1982*, vol. 1.

NO. 1059. FARMS—NUMBER, 1959 TO 1982, AND ACREAGE, 1978 AND 1982, BY SIZE OF FARM

[See *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, 1982		
	1959	1969	1974	1978	1982	1978	1982	1978	1982	Number of farms	All land in farms	Cropland harvested
Total	**3,711**	**2,730**	**2,314**	**2,258**	**2,241**	**1,014.8**	**986.8**	**317.1**	**326.3**	**100.0**	**100.0**	**100.0**
Under 10 acres	244	162	128	151	188	.6	.7	.2	.3	8.4	.1	.1
10-49 acres	813	473	380	392	449	10.9	12.1	4.5	4.5	*20.0*	*1.2*	*1.4*
50-99 acres	658	460	385	356	344	25.9	24.8	10.2	9.5	15.4	2.5	2.9
100-179 acres	773	542	443	403	368	55.0	49.9	23.3	21.2	16.4	5.1	6.5
180-259 acres	414	307	253	234	211	50.6	45.7	23.7	21.7	9.4	4.6	6.7
260-499 acres	472	419	383	348	315	124.6	113.0	64.5	60.5	14.1	11.5	18.5
500-999 acres	200	216	207	213	204	146.7	140.5	75.2	77.6	9.1	*14.2*	*23.8*
1,000-1,999 acres	79	91	93	98	97	133.0	132.4	58.2	64.5	4.3	13.4	19.8
2,000 acres and over	57	60	62	63	65	467.4	467.5	57.3	66.6	2.9	47.4	20.4

Source: U.S. Bureau of the Census, *Census of Agriculture: 1959, 1969, 1974,* vol. II and *1982,* vol. 1.

NO. 1060. FARMS—NUMBER AND ACREAGE, BY TENURE OF OPERATOR: 1969 TO 1982

[*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:									
1969	1,000	2,730	1,706	672	353	100.0	*62.5*	*24.6*	*12.9*
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]	1,000	2,241	1,326	656	259	100.0	59.2	29.3	11.5
Under 50 acres	1,000	637	505	68	63	100.0	79.3	10.7	9.9
50-179 acres	1,000	711	489	144	79	100.0	68.7	20.2	11.1
180-499 acres	1,000	526	232	221	73	100.0	44.1	42.0	13.8
500-999 acres	1,000	204	57	120	27	100.0	27.9	58.8	13.2
1,000 acres or more	1,000	161	41	103	17	100.0	25.4	64.0	10.6
Land in farms:									
1969	Mil. acres	1,063	375	550	138	100.0	35.2	51.8	13.0
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

[1] Data by size of farm exclude abnormal farms; see headnote, table 1062.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1969, 1974,* vol. II, and *1982,* vol. 1.

NO. 1061. FARM OPERATORS—TENURE AND CHARACTERISTICS: 1978 AND 1982

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

TENURE AND CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF $10,000 AND OVER	
	1978	1982	1978	1982
Total operators	**2,258**	**2,241**	**1,180**	**1,143**
White	2,200	2,187	1,163	1,127
Black and other	58	54	17	16
Operators of Spanish origin [1]	18	16	7	6
Female	113	122	(NA)	37
Under 25 years old	67	62	(NA)	39
25-34 years old	285	294	(NA)	173
35-44 years old	434	443	(NA)	223
45-54 years old	549	505	(NA)	264
55-64 years old	552	536	(NA)	288
65 years old and over	371	400	(NA)	156
Average age (years)	50.3	50.5	(NA)	49.1
Full owner	1,298	1,326	485	482
Part owner	681	656	514	491
Tenant	279	259	181	170

CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF $10,000 AND OVER	
	1978	1982	1978	1982
Principal occupation:				
Farming	1,269	1,235	934	901
Other	988	1,006	*246*	*242*
Place of residence: [2]				
On farm operated	1,586	1,581	876	833
Not on farm operated	422	429	197	202
Years on present farm: [2]				
2 years or less	(NA)	127	(NA)	53
3-4 years	(NA)	193	(NA)	83
5-9 years	(NA)	360	(NA)	167
10 years or more	(NA)	1,098	(NA)	636
Days worked off farm: [2]				
None	943	862	654	591
Less than 100 days	252	224	164	141
100-199 days	181	189	79	77
200 days or more	770	775	214	213

NA Not available. [1] Operators of Spanish origin may be of any race. [2] Excludes not reported.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture,* vol. 1.

No. 1062. Farms—Number, Acreage, and Value, by Type of Organization: 1978 and 1982

[Excludes abnormal farms (institutional farms, experimental and research farms, Indian reservations, etc.)]

Item	Unit	Total [1]	Individual or family	Partnership	Corporation	Percent distribution: Total [1]	Percent distribution: Individual or family	Percent distribution: Partnership	Percent distribution: Corporation
Number of farms: 1978	1,000	2,255	1,966	233	50	100.0	87.2	10.3	2.2
1982	1,000	2,239	1,946	223	60	100.0	86.9	10.0	2.7
Land in farms: 1978	Mil. acres	959	673	158	120	100.0	70.2	16.5	12.5
1982	Mil. acres	932	642	152	127	100.0	68.9	16.3	13.6
Value of land and buildings: [2] 1978	Bil. dol.	623	(NA)	(NA)	(NA)	100.0	(NA)	(NA)	(NA)
1982	Bil. dol.	763	547	119	90	100.0	71.7	15.6	11.8
Value of farm products sold: 1978	Mil. dol.	106,829	(NA)	(NA)	(NA)	100.0	(NA)	(NA)	(NA)
1982	Mil. dol.	131,590	77,907	21,520	31,480	100.0	59.2	16.4	23.9

NA Not available. [1] Includes other types, not shown separately. [2] Based on a sample of farms.

Source: U.S. Bureau of the Census, *1982 Census of Agriculture*, vol. 1.

No. 1063. Irrigated Farms and Acreage—Selected States: 1984

[Based on a sample of irrigators selected from irrigated farms identified in the 1982 Census of Agriculture excluding all irrigators in 1982 in Alaska, Hawaii, and abnormal and horticultural specialty farms in the 48 conterminous States. (For definition of abnormal farms, see headnote, table 1062.) Most of the excluded irrigated farms were horticultural specialty farms and accounted for 889,645 acres irrigated or 1.8 percent of the land irrigated in 1982. No attempt was made to identify and select new irrigators for 1984]

State	Irrigated farms (1,000)	Acres in farms (1,000)	Acres irrigated (1,000)	State	Irrigated farms (1,000)	Acres in farms (1,000)	Acres irrigated (1,000)
Conterminous U.S. [1]	**212.4**	**175,134**	**44,731**	Montana	7.9	16,769	1,877
				Arkansas	4.8	4,439	1,872
California	48.3	17,292	7,805	Oregon	12.1	10,840	1,776
Nebraska	19.2	19,321	5,828	Wyoming	4.6	14,630	1,550
Texas	13.7	14,458	4,921	Washington	13.1	4,097	1,482
Idaho	15.5	7,117	3,255	Florida	5.9	4,991	1,438
Colorado	13.4	15,380	3,105	Utah	10.0	3,787	1,054
Kansas	6.2	8,935	2,315	Arizona	3.4	4,729	893

[1] Includes other States not shown separately.

Source: U.S. Bureau of the Census, *1984 Farm and Ranch Irrigation Survey*, (AG84-SR-1), 1986.

No. 1064. Foreign Ownership of U.S. Agricultural Land: 1986

[**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, 1986]

Characteristic	Acreage owned [1]		Acreage acquired [2]		Characteristic	Acreage owned [1]		Acreage acquired [2]	
	Total	Percent	Total	Percent		Total	Percent	Total	Percent
Total [3]	**12,419**	**100.0**	**1,675**	**100.0**	Country of foreign owner:				
Type of owner:					Canada	1,551	12.5	3	.2
Corporation	9,838	79.2	1,645	98.2	Mexico	213	1.7	1	.1
Partnership	1,408	11.3	8	.5	Netherlands Antilles	525	4.2	–	–
Individual	979	7.9	13	.8	Panama	187	1.5	2	.1
Other	194	1.6	8	.5	Switzerland	237	1.9	2	.1
Size of holding:					United Kingdom	381	3.1	7	.4
Less than 100 acres	127	1.0	3	.2	West Germany	744	6.0	15	.9
100–299 acres	299	2.4	6	.4	Through U.S. interest: [4]				
300–999 acres	866	7.1	16	1.0	Canada	731	5.9	3	.2
1,000 acres or more	11,107	89.4	1,650	98.5	France	302	2.4	2	.1
Land use:					Netherlands	336	2.7	–	–
Cropland	2,112	17.0	26	1.6	Netherlands Antilles	230	1.9	–	–
Pasture	2,661	21.4	10	.6	Switzerland	278	2.2	1	.1
Forest	6,469	52.1	1,624	97.0	United Kingdom	3,531	28.4	1,615	96.4
Other agriculture	536	4.3	6	.4	West Germany	475	3.8	3	.2
Other nonagriculture	640	5.2	8	.5					

– Represents or rounds to zero. [1] Landholdings by foreign interests as of Dec. 31. [2] Acquisitions by foreign interests from Jan. 1–Dec. 31, 1986. [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, 1986* (Economic Research Service Staff Report AGES 870319), 1987.

No. 1065. Farm Real Estate—Summary: 1970 to 1987

[**1970** and **1975**, value data as of **Mar. 1**; **1979–1981** and **1986–1987**, as of **Feb. 1**; **1982–1985**, as of **April 1**. Excludes Alaska and Hawaii. 1970 value data based on *1969 census definition of farms and farmland*; beginning 1975, based on 1974 census definition, see text, section 23. 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. Average values are based on land-value data obtained from the census of agriculture. For intercensal years, estimates are made using indexes of average value per acre. Indexes of average value per acre are based on surveys conducted by the U.S. Dept. of Agriculture]

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
Total value	**Bil. dol.**	**215.0**	**358.6**	**653.1**	**763.3**	**843.7**	**843.3**	**804.8**	**793.9**	**686.2**	**597.2**	**549.8**
Land	Bil. dol.	175.5	300.5	559.7	658.0	728.3	729.8	697.3	688.9	595.8	517.9	476.1
Buildings	Bil. dol.	39.5	58.1	93.4	105.3	115.4	113.5	107.5	105.0	90.4	79.3	73.7
Average value per acre [1]	**Dollars**	**196**	**340**	**628**	**737**	**819**	**823**	**788**	**782**	**679**	**595**	**548**
Index	1977=100	42	75	125	145	158	157	148	146	128	112	103
Average value, operating unit	$1,000	73.0	142.5	269.3	314.4	347.3	352.0	340.3	341.8	302.4	270.3	248.8

[1] Land and buildings.

Source: U.S. Dept. of Agriculture, Economic Research Service, 1970–1984, *Farm Real Estate Market Developments*, annual; thereafter, *Agricultural Land Values and Markets*, annual.

No. 1066. Farm Real Estate—Value of Land and Buildings, by State: 1980 to 1987

[*See headnote, table 1065. 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				INDEXES OF AVERAGE VALUE PER ACRE (1977=100)			
	1980	1985	1986	1987	1980	1985	1986	1987	1980	1985	1986	1987
U.S	**763,285**	**686,194**	**597,235**	**549,782**	**$737**	**$679**	**$595**	**$548**	**145**	**128**	**112**	**103**
Alabama	9,516	8,844	8,374	8,039	780	769	761	731	149	154	152	146
Arizona	10,173	9,938	8,646	9,078	267	265	231	242	[1] 167	[2] 163	[2] 142	149
Arkansas	15,147	13,584	11,063	9,957	918	849	705	634	163	152	126	114
California	48,131	56,785	51,518	44,820	1,424	1,726	1,571	1,366	166	201	183	159
Colorado	13,932	14,964	12,199	12,443	387	435	357	364	147	154	126	129
Connecticut	1,170	1,540	1,675	1,825	2,387	3,208	3,721	4,056	[3] 135	[3] 185	[3] 215	[3] 234
Delaware	1,169	1,067	1,124	1,136	1,798	1,642	1,757	1,775	151	128	137	136
Florida	18,505	19,851	18,660	19,033	1,381	1,527	1,435	1,464	[4] 141	147	138	141
Georgia	13,440	11,678	10,683	11,003	896	865	822	846	132	116	110	113
Idaho	10,610	10,861	9,018	7,936	698	749	644	567	134	129	111	98
Illinois	58,781	37,712	32,809	29,856	2,041	1,314	1,143	1,040	135	84	73	67
Indiana	31,298	20,648	17,132	15,077	1,863	1,259	1,058	931	150	96	81	71
Iowa	62,192	35,750	28,243	25,136	1,840	1,064	841	748	139	77	61	54
Kansas	28,352	22,368	18,527	16,304	587	466	387	340	134	98	81	71
Kentucky	14,250	13,137	12,612	11,476	976	906	870	791	147	129	124	113
Louisiana	12,686	12,685	10,048	7,335	1,256	1,256	1,005	734	169	181	145	106
Maine	959	1,301	1,509	1,645	594	856	993	1,082	[3] 135	[3] 185	[3] 215	[3] 234
Maryland	6,154	5,452	4,718	4,577	2,238	2,097	1,887	1,831	166	158	142	138
Massachusetts	1,158	1,613	1,871	2,039	1,608	2,372	2,752	2,999	[3] 135	[3] 185	[3] 215	[3] 234
Michigan	12,665	11,993	10,580	9,416	1,111	1,052	936	833	138	121	108	96
Minnesota	32,906	25,019	18,271	14,799	1,086	823	609	493	154	109	81	66
Mississippi	11,957	11,774	10,521	9,153	819	835	752	654	156	163	147	128
Missouri	28,232	20,297	18,613	16,938	902	659	606	552	154	102	94	85
Montana	14,546	13,542	12,459	10,216	235	222	204	167	142	125	115	94
Nebraska	30,290	20,957	17,185	15,810	635	444	364	335	137	82	67	62
Nevada	2,230	2,015	1,753	1,858	248	229	199	211	[1] 178	[2] 173	[2] 151	160
New Hampshire	547	766	856	933	1,004	1,419	1,646	1,794	[3] 135	[3] 185	[3] 215	[3] 234
New Jersey	3,006	3,314	3,600	4,896	2,947	3,525	3,913	5,321	120	141	157	213
New Mexico	8,658	7,335	5,961	5,425	185	163	134	122	[1] 166	[2] 162	133	121
New York	6,768	7,353	7,170	8,102	720	808	824	931	119	126	131	148
North Carolina	14,262	13,414	12,206	11,840	1,219	1,242	1,130	1,096	141	142	129	125
North Dakota	16,888	14,724	12,894	11,475	405	360	317	282	136	116	102	91
Ohio	28,026	17,791	16,012	14,891	1,730	1,126	1,013	942	156	90	81	75
Oklahoma	21,244	18,678	15,876	14,130	614	566	481	428	143	126	107	95
Oregon	10,625	10,422	9,328	8,581	587	579	521	479	132	114	103	95
Pennsylvania	13,176	13,137	12,322	14,663	1,464	1,510	1,450	1,725	140	127	122	145
Rhode Island	186	243	282	308	2,523	3,335	3,869	4,217	[3] 135	[3] 185	[3] 215	[3] 234
South Carolina	5,760	4,944	4,796	4,365	900	899	872	794	130	121	117	107
South Dakota	13,140	11,125	9,568	7,941	292	250	215	178	141	101	87	72
Tennessee	13,274	13,159	12,894	13,152	976	982	992	1,012	136	127	128	131
Texas	60,255	88,346	72,515	64,539	436	652	541	482	144	229	190	169
Utah	6,572	5,962	5,449	5,177	530	514	478	454	[1] 169	[2] 165	153	146
Vermont	1,255	1,627	1,888	2,057	721	1,017	1,180	1,286	[3] 135	[3] 185	[3] 215	[3] 234
Virginia	10,074	10,474	10,997	10,667	1,028	1,091	1,146	1,111	139	140	147	143
Washington	11,997	14,860	12,996	11,566	736	923	812	723	124	151	133	118
West Virginia	2,810	1,994	1,935	1,896	669	554	537	527	150	143	139	136
Wisconsin	18,674	14,992	12,522	11,019	1,004	847	711	626	159	126	106	93
Wyoming	5,636	6,160	5,359	5,252	161	177	154	151	126	[2] 122	106	104

[1] Estimated by combining survey data to obtain an average rate of change for Arizona, Nevada, New Mexico, and Utah.
[2] Estimated using the average of the percentage changes in the Colorado, Idaho, and Montana indexes.
[3] Estimated by combining survey data to obtain an average rate of change for New England States.
[4] Estimated using the average of the percentage changes in the Alabama and Georgia indexes.

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

No. 1067. Balance Sheet of the Farming Sector: 1970 to 1986

[**In billions of dollars, except percent.** As of **December 31.** Includes farm operator households. Minus sign (–) indicates decrease. See also *Historical Statistics, Colonial Times to 1970,* series K 204-219, for data before revisions]

ITEM	CURRENT DOLLARS						CONSTANT (1982) DOLLARS [1]					
	1970	1975	1980	1984	1985	1986, prel.	1970	1975	1980	1984	1985	1986, prel.
Assets	**324.0**	**577.0**	**1,102.3**	**949.6**	**846.5**	**789.4**	**771.4**	**973.0**	**1,286.2**	**881.7**	**761.2**	**691.8**
Annual percent change [2]	4.3	12.2	13.8	–3.7	–10.9	–6.7	(z)	4.8	5.7	–9.0	–13.7	–9.1
Physical assets:												
Real estate	223.8	420.6	850.8	693.7	606.8	554.0	532.9	709.3	992.8	644.1	545.7	485.5
Non-real estate:												
Livestock and poultry [3]	23.7	29.4	60.6	49.6	46.3	47.6	56.4	49.6	70.7	46.1	41.6	41.7
Machinery, motor vehicles	34.4	63.1	99.3	102.7	92.4	84.5	81.9	106.4	115.9	95.4	83.1	74.1
Crops stored	9.0	21.1	33.0	29.6	23.1	18.4	21.4	35.6	38.5	27.5	20.8	16.1
Household furnishings, equipment	10.0	11.7	19.4	26.1	27.8	30.5	23.8	19.7	22.6	24.2	25.0	26.7
Financial assets:												
Deposits and currency	12.4	14.5	16.2	19.8	21.1	24.8	29.5	24.5	18.9	18.4	19.0	21.7
United States savings bonds	3.6	3.9	3.8	3.7	3.9	4.5	8.6	6.6	4.4	3.4	3.5	3.9
Investments in cooperatives	7.2	12.8	19.2	24.4	25.2	24.9	17.1	21.6	22.4	22.7	22.7	21.8
Claims	**324.0**	**577.0**	**1,102.3**	**949.6**	**846.5**	**789.4**	**771.4**	**973.0**	**1,286.2**	**881.7**	**761.2**	**691.8**
Liabilities	52.8	91.5	178.7	204.4	188.0	166.4	125.7	154.3	208.5	189.8	169.1	145.8
Real estate debt	30.5	49.9	97.5	112.4	105.9	95.1	72.6	84.1	113.8	104.4	95.2	83.3
Non-real estate debt	22.3	41.6	81.2	92.0	82.2	71.3	53.1	70.2	94.7	85.4	73.9	62.5
Proprietor's equities	271.2	485.5	923.6	745.2	658.5	623.0	645.7	818.7	1,077.7	691.9	592.2	546.0

Z Less than .05 percent. [1] Constant dollar figures are based on gross national product implicit price deflators for year. [2] Average change from prior year shown; for 1970, change from 1965. For explanation of annual percent change, see Guide to Tabular Presentation. [3] Excludes horses and mules.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1986,* and unpublished data.

No. 1068. Farm Debt Outstanding, by Type of Lender: 1970 to 1986

[**In billions of dollars, except percent.** As of **Dec. 31.** Minus sign (–) indicates decrease. See also *Historical Statistics, Colonial Times to 1970,* series K 361-367 and K 376-380]

LENDER	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Farm debt, total	**52.8**	**91.5**	**118.9**	**136.6**	**162.5**	**176.7**	**195.4**	**203.1**	**206.5**	**204.4**	**188.0**	**166.4**
Annual percent change [1]	8.1	11.6	14.0	14.9	19.0	10.0	9.3	3.9	1.7	–1.0	–8.0	–11.5
Farm debt/asset ratio (percent)	16.3	15.9	16.3	15.7	16.1	16.2	17.7	19.0	19.7	21.5	22.2	21.1
Real estate debt	30.5	49.9	63.9	72.8	86.8	97.5	107.2	111.3	113.7	112.4	105.9	95.1
Federal land banks	7.1	16.0	21.5	24.8	29.8	36.2	43.8	47.8	48.9	49.2	44.7	37.0
Life insurance companies	5.6	6.7	8.8	10.5	12.2	12.9	13.1	12.8	12.7	12.4	11.8	10.9
Commercial and savings banks	3.8	6.3	7.8	8.6	8.6	8.6	8.3	8.4	9.3	10.2	11.4	12.7
Farmers Home Administration [2]	2.4	3.4	4.0	4.1	6.9	8.2	8.9	9.2	9.5	10.1	10.4	10.3
Individuals and others [3]	11.4	17.3	21.3	23.6	27.9	30.2	31.8	32.0	32.3	29.9	27.2	24.0
CCC [4] storage and drying facilities loans	.1	.2	.5	1.1	1.4	1.5	1.3	1.1	.9	.6	.3	.1
Non-real estate debt	22.3	41.6	55.0	63.8	75.7	81.2	88.2	91.8	92.7	92.0	82.2	71.3
Commercial and savings banks	11.1	20.2	25.7	28.3	31.0	31.6	32.9	36.1	39.0	39.6	35.5	31.2
Production credit associations [5]	5.5	11.1	13.9	15.5	18.8	20.5	22.1	21.4	20.2	18.8	14.6	11.3
Farmers Home Administration	.8	1.8	3.1	5.8	9.3	11.4	14.4	14.7	14.6	15.6	16.7	16.4
Individuals and others [6]	4.9	8.6	12.2	14.3	16.6	17.7	18.8	19.5	18.9	18.0	15.4	12.4

[1] Annual change from prior year shown; for 1970, change from 1965. For explanation of annual percent change, see Guide to Tabular Presentation. [2] Includes direct and insured farm ownership, farm housing, soil and water and recreation loans secured by farm real estate. [3] Includes seller and other individual financing of farm real estate sales and unclassified credit sources. [4] Commodity Credit Corporation. [5] Also includes Federal intermediate credit bank loans to financial groups other than production credit associations. [6] Includes merchants and dealers, individuals, Small Business Administration, and all other unclassified credit sources.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1986.*

No. 1069. Farms and Farm Operator Debt—Percentage Distribution by Debt/Asset Ratio: 1987

[As of **January 1.** 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 1987 for the 1986 calendar year]

Value of sales and type of farm	Farms—percent distribution by debt/asset ratio				Farm operator debt—percent distribution by debt/asset ratio			
	Total	Less than 40 percent	40–70 percent	Over 70 percent	Total	Less than 40 percent	40–70 percent	Over 70 percent
All farms	**100.0**	**78.4**	**13.0**	**8.6**	**100.0**	**32.9**	**34.0**	**33.1**
Less than $10,000	100.0	88.1	7.9	4.0	100.0	44.7	36.4	18.9
$10,000–$19,999	100.0	83.8	9.5	6.6	100.0	38.0	32.7	29.3
$20,000–$39,999	100.0	80.2	13.3	6.5	100.0	33.8	34.4	31.8
$40,000–$99,999	100.0	67.4	17.7	14.9	100.0	31.9	31.4	36.7
$100,000–$249,999	100.0	64.4	20.5	15.1	100.0	32.0	34.1	33.9
$250,000–$499,999	100.0	61.2	23.3	15.5	100.0	33.1	34.6	32.3
$500,000 and over	100.0	59.3	24.5	16.2	100.0	28.0	35.1	36.9
Cash grain	100.0	68.1	17.3	14.6	100.0	28.3	33.0	38.7
Field crop	100.0	79.4	10.6	10.0	100.0	25.8	35.1	39.1
Vegetable, fruit, and nut	100.0	83.4	10.0	6.6	100.0	26.0	34.3	39.7
Nursery	100.0	85.8	11.9	2.3	100.0	55.9	28.6	15.5
General crop	100.0	81.6	9.7	8.7	100.0	34.8	29.2	36.0
General livestock	100.0	85.3	10.0	4.7	100.0	38.2	35.4	26.4
Dairy	100.0	69.0	18.0	13.0	100.0	34.2	34.8	31.0
Poultry and egg	100.0	67.8	22.0	10.2	100.0	34.8	40.9	24.3
Other livestock	100.0	82.5	11.6	5.9	100.0	54.3	27.0	19.7

Source: U.S. Dept. of Agriculture, Economic Research Service, *Financial Characteristics of U.S. Farms, January 1, 1987* (AIB No. 525), 1987.

No. 1070. Farms, Farm Income, Assets, and Debt, by Value of Sales: 1986

[Minus sign (–) indicates loss]

Farms with value of sales of—	Number of farms [1] (1,000)	Gross income [2] (bil. dol.)	Cash receipts (bil. dol.)	Net income [2] (bil. dol.)	Assets [3] (bil. dol.)	Debt [3] (bil. dol.)	Debt to asset ratio [3] (percent)	Percent distribution: Number of farms [1]	Percent distribution: Gross income [2]	Percent distribution: Net income [2]	Percent distribution: Assets [3]
Total	**2,212**	**162.8**	**135.2**	**40.6**	**789.4**	**166.4**	**21.1**	**100.0**	**100.0**	**100.0**	**100.0**
Less than $5,000	887	7.0	1.6	–.9	103.2	10.8	10.5	40.1	1.9	–2.3	13.0
$5,000–$9,999	265	3.7	1.8	–	41.3	5.0	12.1	12.0	1.6	–.1	5.2
$10,000–$19,999	237	5.0	3.2	.1	49.2	7.0	14.2	10.7	2.6	.2	6.2
$20,000–$39,999	223	8.7	6.1	1.1	66.9	10.7	16.0	10.1	5.1	2.7	8.5
$40,000–$99,999	294	23.7	18.7	4.3	144.2	28.6	19.8	13.3	14.7	10.4	18.3
$100,000–$249,999	210	37.6	31.9	9.4	180.9	41.1	22.7	9.5	23.9	23.1	22.9
$250,000–$499,999	66	26.1	22.8	8.2	101.5	25.3	24.9	3.0	16.8	20.0	12.9
$500,000 and over	29	51.0	49.1	18.7	102.3	37.9	37.0	1.3	33.3	45.9	13.0

– Represents or rounds to zero. [1] Based on 1974 census definition. See text, section 23. [2] Data are before inventory adjustment. For components of income, see table 1074. [3] Data as of December 31. Includes farm households.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1986.*

No. 1071. Indicators of Financial Stress in Agriculture, 1980 to 1986, and by Farm Region, 1986

[**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	1983	1984	1985	1986					
					Total	Northeast [1]	Corn Belt [2]	South [3]	Plains [4]	West [5]
Average delinquency rate [6 7]	(NA)	3.7	4.4	5.3	6.0	6.9	5.4	5.2	6.6	5.2
Farm borrowers who had bank financing discontinued	4.5	2.9	3.4	4.5	5.6	6.2	4.8	6.6	5.1	5.7
Farm borrowers loaned-up to practical limit [7 8]	27	28	33	37	39	37	34	50	40	44
Farmers in bank lending area who went out of business	2.1	2.3	3.6	4.8	6.2	7.1	5.5	8.9	5.6	6.3
Farmers in bank lending area who went through bankruptcy	(NA)	1.1	2.6	3.8	4.2	3.9	4.0	6.5	3.9	3.5

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. 1072. Farm Assets and Debt, by State: 1984 to 1986

[As of **December 31.** Includes farm operator households]

Division and State	Assets (bil. dol.)			Debt (bil. dol.)			Debt/asset ratio, 1986 (percent)
	1984	1985	1986	1984	1985	1986	
U.S.	950	846	789	204	188	166	21.1
N.E.:							
ME	2.0	2.2	2.4	.4	.4	.4	15.7
NH	1.1	1.2	1.2	.1	.1	.1	6.1
VT	2.6	2.8	2.9	.4	.4	.4	11.8
MA	2.2	2.5	2.7	.2	.2	.2	9.0
RI	.3	.3	.4	(z)	(z)	(z)	7.0
CT	2.1	2.3	2.4	.3	.2	.2	8.7
M.A.:							
NY	13.0	12.7	13.2	3.0	2.8	2.6	19.8
NJ	4.4	4.7	6.0	.5	.5	.4	6.9
PA	19.1	18.3	20.6	3.0	2.7	2.5	12.3
E.N.C.:							
OH	26.2	24.0	22.5	4.9	4.4	3.9	17.3
IN	32.3	25.2	22.4	7.3	6.5	5.7	25.3
IL	50.7	44.7	40.8	10.8	9.7	8.6	21.1
MI	18.3	16.8	15.1	4.4	4.2	3.7	24.7
WI	26.9	23.7	21.4	7.3	6.9	6.1	28.6
W.N.C.:							
MN	38.6	31.0	26.4	10.7	9.6	8.3	31.3
IA	52.7	43.9	39.8	15.3	13.4	11.5	28.8
MO	30.1	28.2	26.6	6.9	6.3	5.5	20.8
ND	21.5	19.3	17.7	4.8	4.5	4.1	23.2
SD	17.5	15.3	13.2	5.1	4.6	4.0	29.9
NE	31.4	26.8	24.9	9.4	8.2	7.0	28.2
KS	31.8	27.5	25.1	7.7	7.0	6.1	24.1
S.A.:							
DE	1.4	1.4	1.5	.4	.3	.3	19.2
MD	7.5	6.7	6.4	1.2	1.1	1.0	16.0
VA	14.9	15.2	15.0	2.3	2.2	2.1	13.7
WV	3.2	3.0	3.0	.4	.3	.3	10.0
NC	19.2	17.3	17.0	4.1	3.7	3.2	18.9
SC	7.1	6.8	6.3	1.7	1.5	1.3	20.4
GA	16.2	15.5	15.8	4.5	4.1	3.5	22.4
FL	23.7	22.5	23.1	4.4	4.1	3.5	15.2
E.S.C.:							
KY	19.5	18.7	17.4	3.9	3.7	3.3	19.0
TN	19.1	19.1	19.2	3.1	2.7	2.4	12.8
AL	12.3	12.1	11.4	2.5	2.2	1.9	17.1
MS	16.0	14.5	13.0	4.3	3.9	3.5	26.9
W.S.C.:							
AR	18.2	15.6	14.2	4.1	3.8	3.4	24.1
LA	16.3	13.5	10.7	3.2	2.9	2.6	24.4
OK	25.2	22.3	20.6	5.5	5.3	4.6	22.3
TX	107.0	90.2	81.7	13.3	13.1	11.9	14.6
Mt.:							
MT	17.8	16.2	14.0	4.0	3.7	3.3	23.9
ID	14.8	12.6	11.4	3.5	3.3	2.9	25.3
WY	7.8	6.9	6.8	1.2	1.0	.9	13.7
CO	19.6	16.6	16.6	4.6	4.2	3.5	21.1
NM	9.1	7.6	7.0	1.4	1.3	1.2	16.9
AZ	11.4	10.1	10.5	1.9	1.8	1.8	16.9
UT	7.6	7.5	6.7	1.1	1.0	.9	13.2
NV	2.6	2.3	2.4	.4	.4	.4	15.9
Pac.:							
WA	19.4	17.4	15.8	3.8	3.7	3.3	20.7
OR	14.2	13.0	12.3	3.3	3.0	2.9	23.9
CA	69.1	63.7	56.8	17.6	16.3	14.2	25.0
AK	.5	.5	.4	(z)	(z)	(z)	8.2
HI	4.2	4.2	4.1	.4	.4	.4	8.9

Z Less than $50 million.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1986.*

No. 1073. Gross Farm Product—Summary: 1970 to 1986

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

Item	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
CURRENT DOLLARS												
Total value of farm output [1]	**55.1**	**99.8**	**107.0**	**125.7**	**149.5**	**148.4**	**164.3**	**159.0**	**142.9**	**166.8**	**158.5**	**149.1**
Farm marketings cash receipts [2]	50.5	88.9	96.2	112.2	131.5	139.8	142.1	142.9	133.1	141.7	144.9	133.7
Farm products consumed [3]	.8	1.1	1.2	1.1	1.2	1.1	1.1	1.0	1.1	1.1	.9	.9
Change in farm inventories	–	3.4	1.1	2.1	5.0	–5.9	5.8	–1.4	–7.5	7.1	–3.6	–1.1
Gross rental value of farm housing	3.3	5.4	7.3	8.1	9.3	11.0	12.6	12.9	12.1	12.2	10.9	9.9
Less: Intermediate products purchased [4]	28.8	49.5	56.5	65.4	77.7	82.9	84.5	82.0	83.6	89.2	83.4	72.7
Equals: Gross farm product	**26.3**	**50.3**	**50.4**	**60.3**	**71.8**	**65.5**	**79.8**	**77.0**	**59.3**	**77.6**	**75.1**	**76.4**
Less: Capital consumption allowances [5]	5.9	10.4	12.9	14.5	16.4	18.9	20.8	22.0	22.4	22.5	22.0	21.3
Indirect business taxes	2.0	2.5	2.8	2.8	3.0	3.0	3.2	3.3	3.2	3.0	3.1	3.0
Plus: *Subsidies to farm operators*	3.3	.7	1.7	2.5	1.1	1.1	1.6	2.4	7.9	7.0	6.3	9.6
Equals: Farm national income	**21.7**	**38.1**	**36.4**	**45.5**	**53.4**	**44.7**	**57.3**	**54.0**	**41.7**	**59.2**	**56.3**	**61.6**
CONSTANT (1982) DOLLARS												
Total value of farm output [1]	**135.2**	**138.6**	**144.8**	**149.8**	**155.8**	**151.7**	**159.3**	**159.0**	**143.1**	**155.2**	**163.6**	**162.7**
Farm marketings cash receipts [2]	112.7	117.4	127.5	129.8	132.5	138.5	136.9	142.9	132.4	133.2	150.6	146.7
Farm products consumed [3]	1.7	2.0	1.7	1.5	1.4	1.2	1.1	1.0	1.1	1.0	1.0	.9
Change in farm inventories	.8	1.4	–1.8	.6	4.6	–4.7	4.9	–1.4	–6.3	4.6	–4.6	–1.6
Gross rental value of farm housing	18.3	16.4	15.7	15.4	14.9	14.3	13.6	12.9	12.3	12.1	11.7	11.4
Less: Intermediate products purchased [4]	74.5	73.8	82.6	88.8	91.2	87.6	83.5	82.0	81.8	86.7	84.6	78.0
Equals: Gross farm product	**60.7**	**64.8**	**62.2**	**61.0**	**64.6**	**64.2**	**75.7**	**77.0**	**61.3**	**68.5**	**78.9**	**84.7**
Less: Capital consumption allowances [5]	16.0	19.0	20.4	21.0	21.7	22.3	22.2	22.0	21.4	20.8	20.0	19.0
Indirect business taxes	2.6	2.8	2.7	2.6	2.8	2.8	3.3	3.3	2.7	3.0	3.4	3.7
Plus: Subsidies to farm operators	1.6	1.8	1.9	2.0	2.1	2.3	2.2	2.4	2.0	2.0	2.5	2.4
Equals: Farm national income	**43.7**	**44.7**	**41.1**	**39.3**	**42.2**	**41.4**	**52.4**	**54.0**	**39.3**	**46.8**	**58.0**	**64.4**

– 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. 1074. Farm Income and Expenses: 1970 to 1986

[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	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Gross income from farming	58.8	100.6	108.8	128.4	150.7	149.3	166.3	163.5	153.1	174.7	166.0	159.5
Cash income	54.8	90.7	99.3	117.3	135.1	143.3	146.0	150.6	150.4	155.1	156.9	152.1
Marketings, cash receipts	50.5	88.9	96.2	112.4	131.5	139.7	141.6	142.6	136.6	142.3	144.2	135.2
Crops [1]	21.0	45.8	48.6	53.2	62.3	71.7	72.5	72.3	67.1	69.4	74.4	63.6
Net CCC loans [2]	−.1	.2	3.6	(z)	−.9	.5	3.1	9.1	−.7	−.8	11.8	8.3
Livestock	29.5	43.1	47.6	59.2	69.2	68.0	69.2	70.3	69.4	72.9	69.8	71.6
Government payments	3.7	.8	1.8	3.0	1.4	1.3	1.9	3.5	9.3	8.4	7.7	11.8
Other farm income [1]	.6	1.0	1.2	1.9	2.2	2.3	2.5	4.5	4.5	4.4	5.0	5.1
Value of home consumption	.8	1.1	1.2	1.2	1.3	1.2	1.2	1.1	1.1	1.1	.9	.9
Rental value of dwellings	3.3	5.4	7.3	8.1	9.3	11.0	12.6	13.1	12.5	12.3	10.9	9.9
Value of change in inventories [3]	(z)	3.4	1.1	1.9	5.0	−6.3	6.5	−1.4	−10.9	6.2	−2.7	−3.3
Expenses of farm production	44.5	75.1	89.0	103.2	123.3	133.1	139.4	140.0	140.4	142.7	133.7	122.1
Intermediate products	25.2	42.5	49.8	60.2	71.9	76.1	76.6	73.7	75.8	76.0	72.0	65.4
Farm origin	13.3	20.0	23.5	28.8	35.2	34.9	33.3	31.4	33.5	32.8	30.4	28.8
Feed purchased	8.0	12.9	14.0	16.0	19.3	21.0	20.9	18.6	21.7	19.9	18.0	16.2
Livestock and poultry purchased	4.3	5.0	7.1	10.2	13.0	10.7	9.0	9.7	8.8	9.5	9.0	9.6
Seed purchased [4]	.9	2.1	2.5	2.6	2.9	3.2	3.4	3.2	3.0	3.4	3.4	3.0
Manufactured inputs	5.4	12.4	13.9	15.3	17.9	22.4	23.9	22.2	20.9	21.5	20.8	17.0
Fertilizer and lime	2.4	6.7	6.5	6.6	7.4	9.5	9.4	8.0	7.1	7.4	7.3	5.8
Pesticides	1.0	1.8	1.9	2.7	3.4	3.5	4.2	4.3	4.2	4.8	4.8	4.3
Fuel and oil	1.7	3.3	4.4	4.6	5.6	7.9	8.6	7.9	7.5	7.1	6.6	4.8
Electricity	.3	.6	1.1	1.4	1.4	1.5	1.7	2.0	2.1	2.2	2.1	2.1
Repairs and maintenance [5]	2.8	4.5	5.8	6.6	7.3	7.6	7.6	6.4	6.5	6.4	6.4	6.4
Other [6]	3.7	5.6	6.7	9.5	11.5	11.2	11.9	13.6	14.9	15.3	14.4	13.2
Interest	3.4	6.4	8.5	10.2	13.1	16.3	19.9	21.8	21.4	21.1	18.7	16.9
Real estate	1.8	3.3	4.3	5.1	6.2	7.5	9.1	10.5	10.8	10.7	9.9	9.1
Non-real estate	1.6	3.1	4.2	5.2	6.9	8.7	10.7	11.3	10.6	10.4	8.8	7.8
Contract and hired labor expenses [7]	4.3	6.6	8.0	8.3	9.0	9.3	8.9	10.1	9.7	9.7	9.8	9.9
Net rent to nonoperator landlords	2.1	4.0	3.4	4.0	6.2	6.1	6.2	6.1	5.1	8.6	8.1	6.7
Capital consumption [8]	6.9	12.4	15.5	17.0	19.3	21.5	23.6	24.3	23.9	23.1	20.9	19.0
Property taxes	2.6	3.2	3.7	3.6	3.9	3.9	4.2	4.0	4.5	4.1	4.2	4.1
Net income of farm operators from farming	14.4	25.5	19.9	25.2	27.4	16.1	26.9	23.5	12.7	32.0	32.3	37.5
In constant (1982) dollars	34.2	43.1	29.5	34.9	34.9	18.8	28.6	23.5	12.2	29.7	29.0	32.8

Z Less than $50 million. [1] Forest product sales are included in cash receipts for crops from 1970 to 1977 and in other farm income beginning 1978. [2] Commodity Credit Corporation (CCC) loans made minus loans repaid. [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 1978 data not strictly comparable with prior years. [7] Includes Social Security payments and perquisites. [8] Depreciation and accidental damage.

No. 1075. Net Cash Income and Net Cash Flow From Farming: 1970 to 1986

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

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Net cash income	18.4	29.6	27.9	33.1	33.4	34.2	32.8	38.1	37.1	38.8	47.3	52.0
Gross cash income	54.8	90.7	99.3	117.3	135.1	143.3	146.0	150.6	150.4	155.1	156.9	152.1
Cash expenses	36.4	61.1	71.4	84.2	101.7	109.1	113.2	112.5	113.3	116.3	109.6	100.1
Change in loans outstanding	2.3	9.2	14.8	16.5	24.2	15.2	15.5	7.2	3.2	−1.9	−15.6	−20.6
Real estate loans	1.1	4.6	7.9	8.3	13.0	9.9	9.0	3.8	2.3	−1.1	−6.0	−10.2
Nonreal estate loans [1]	1.2	4.6	6.8	8.3	11.2	5.3	6.5	3.4	.9	−.8	−9.6	−10.5
Net change in operators' currency and demand deposits	.1	.1	.1	.1	.1	.1	.2	.2	.3	.2	.7	1.1
Net rent received by nonoperator landlords	2.1	4.0	3.4	4.0	6.2	6.1	6.2	6.1	5.1	8.6	8.1	6.7
Capital expenditures	6.8	12.4	15.0	17.9	20.1	18.0	16.8	13.3	12.7	12.5	9.6	8.6
Net cash flow [2]	16.1	30.5	31.1	35.8	43.8	37.6	37.8	38.3	32.9	33.3	30.9	30.5

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

Source of tables 1074 and 1075: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

NO. 1076. FARM INCOME—CASH RECEIPTS FROM FARM MARKETINGS: 1970 TO 1986

[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]

ITEM	FARM MARKETINGS (mil. dol.)								PERCENT		
	1970	1975	1980	1982	1983	1984	1985	1986	1970	1980	1986
Total	**50,509**	**88,902**	**139,737**	**142,594**	**136,580**	**142,314**	**144,193**	**135,185**	**100.0**	**100.0**	**100.0**
All crops	20,977	45,813	71,746	72,338	67,143	69,378	74,413	63,612	41.5	51.3	47.1
Feed crops	5,109	12,183	18,308	17,409	15,535	15,831	22,479	17,849	10.1	13.1	13.2
Corn	3,326	8,530	13,959	12,764	10,857	10,671	16,821	13,291	6.6	10.0	9.8
Hay	614	1,387	1,917	2,002	2,157	2,322	2,348	2,140	1.2	1.4	1.6
Sorghum	641	1,302	1,392	1,509	1,220	1,459	1,970	1,391	1.3	1.0	1.0
Barley	298	625	736	803	991	1,070	1,042	834	.6	.5	.6
Oil-bearing crops	3,591	7,480	15,493	13,817	13,546	13,894	12,595	10,507	7.1	11.1	7.8
Soybean	3,164	6,637	14,241	12,525	12,154	12,211	11,305	9,171	6.3	10.2	6.8
Peanuts	360	742	607	814	802	1,233	1,005	1,065	.7	.4	.8
Food grains	2,542	8,195	10,402	11,412	9,713	9,576	9,080	5,948	5.0	7.4	4.4
Wheat	2,067	7,026	8,854	9,856	8,777	8,474	7,927	5,175	4.1	6.3	3.8
Rice	447	1,136	1,519	1,515	882	1,043	1,114	744	.1	1.1	.6
Vegetables [1]	2,814	5,346	7,307	8,063	8,462	9,142	8,558	8,705	5.6	5.2	6.4
Fruits, tree nuts [1]	2,071	3,563	6,557	6,846	6,064	6,768	6,836	6,900	4.1	4.7	5.1
Cotton lint, seed	1,254	2,311	4,447	4,457	3,705	3,270	3,730	2,920	2.5	3.2	2.2
Tobacco	1,388	2,155	2,672	3,342	2,768	2,841	2,722	1,918	2.7	1.9	1.4
Other [2]	2,208	4,579	6,560	6,993	7,352	8,057	8,413	8,865	4.4	4.7	6.6
All livestock and products	29,532	43,089	67,991	70,257	69,437	72,936	69,780	71,573	58.5	48.7	52.9
Cattle and calves	13,633	17,520	31,819	29,813	28,682	30,662	29,057	28,951	27.0	22.8	21.4
Dairy products	6,527	9,923	16,365	18,234	18,763	17,944	18,063	17,824	12.9	11.7	13.2
Hogs	4,478	7,916	8,942	10,659	9,785	9,703	9,029	9,702	8.9	6.4	7.2
Broilers	1,464	2,953	4,303	4,461	4,873	6,008	5,680	6,780	2.9	3.1	5.0
Eggs	2,109	2,814	3,247	3,439	3,449	4,089	3,253	3,515	4.2	2.3	2.6
Turkeys, other poultry [3]	494	808	1,482	1,501	1,510	1,925	2,106	2,255	1.0	1.1	1.7
Sheep and lambs	334	386	471	445	426	466	503	484	.7	.3	.4
Farm chickens	100	110	128	119	147	170	152	128	.2	.1	.1
Other [4]	393	659	1,234	1,586	1,801	1,968	1,937	1,934	.8	.9	1.4

[1] Melons included with vegetables. [2] Sugar crops, greenhouse and nursery products, forest products (for 1970 and 1975), legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber. [3] Ducks, geese, guineas, pigeons, quail, pheasants, and turkey hatching eggs. [4] Wool, mohair, honey, horses/mules, aquaculture, and other livestock.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1986.*

NO. 1077. GOVERNMENT PAYMENTS TO FARMS, BY PROGRAM AND VALUE OF FARM SALES: 1980 TO 1986

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

ITEM	1980	1983	1984	1985	1986
Total	**1,286**	**9,295**	**8,430**	**7,705**	**11,813**
PROGRAM					
Feed grain	382	1,346	367	2,861	5,158
Wheat	211	864	1,795	1,950	3,500
Cotton	172	662	275	1,106	1,042
Rice	2	278	192	577	423
Wool	28	84	118	98	112
Conservation	214	188	191	189	140
Miscellaneous	276	[1] 5,874	[1] 5,493	[1] 924	1,439
VALUE OF FARM SALES					
Less than $5,000	47	131	73	78	191
$5,000-$9,999	51	86	102	103	214
$10,000-$19,999	59	291	236	206	474
$20,000-$39,999	146	585	569	691	1,242
$40,000-$99,999	414	1,996	1,899	1,897	3,056
$100,000-$249,999	[2] 282	3,027	3,122	2,536	3,844
$250,000-$499,999	[3] 195	1,779	1,445	1,346	1,734
$500,000 and over	91	1,401	984	847	1,059

[1] Includes value of commodities transferred to farmers under the payment-in-kind program (PIK). For 1983, $5.2 billion; for 1984, $4.5 billion; and for 1985, $.1 billion. [2] Farms with sales of $100,000-$199,999. [3] Farms with sales of $200,000-$499,999.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector, National Financial Summary, 1986.*

No. 1078. Farm Income—Farm Marketings, 1985 and 1986, Government Payments, 1986, and Principal Commodities, 1986, by State

[**In millions of dollars.** Cattle include calves; sheep include lambs; and greenhouse includes nursery. See table 1074]

Division and State	1985 Farm marketings Total	1985 Farm marketings Crops	1985 Farm marketings Livestock and products	1986 Farm marketings Total	1986 Farm marketings Crops	1986 Farm marketings Livestock and products	1986 Government payments	State rank for total farm marketings and principal commodities in order of marketing receipts and as percentage of total marketings, 1986
U.S	**144,193**	**74,413**	**69,780**	**135,185**	**63,612**	**71,573**	**11,813**	**Cattle, dairy products, corn, hogs (52%)**
N.E	**1,679**	**680**	**999**	**1,742**	**734**	**1,008**	**32**	
ME	366	137	229	365	143	223	7	45—Dairy products, potatoes, eggs, cattle (75%)
NH	106	36	70	109	38	72	3	48—Dairy products, greenhouse, apples, cattle (77%)
VT	387	34	354	398	36	361	12	43—Dairy products, cattle, hay, apples (93%)
MA	389	262	128	423	292	131	6	42—Greenhouse, cranberries, dairy prod., eggs (75%)
RI	76	62	14	75	63	12	(z)	49—Greenhouse, dairy products, eggs, potatoes (67%)
CT	354	150	205	372	162	210	4	44—Eggs, greenhouse, dairy products, tobacco (76%)
M.A	**6,351**	**2,176**	**4,175**	**6,278**	**2,081**	**4,197**	**128**	
NY	2,578	730	1,847	2,533	724	1,809	77	21—Dairy products, greenhouse, cattle, eggs (74%)
NJ	587	443	144	580	430	150	6	37—Greenhouse, dairy products, eggs, peaches (49%)
PA	3,187	1,003	2,184	3,165	926	2,239	45	15—Dairy products, cattle, greenhouse, eggs (68%)
E.N.C	**24,875**	**14,292**	**10,584**	**22,321**	**11,359**	**10,962**	**2,050**	
OH	4,117	2,602	1,515	3,610	2,043	1,566	269	12—Corn, soybeans, dairy products, hogs (68%)
IN	4,791	3,063	1,728	4,110	2,258	1,852	411	10—Corn, hogs, soybeans, cattle (75%)
IL	7,970	5,915	2,055	6,880	4,737	2,143	883	5—Corn, soybeans, hogs, cattle (90%)
MI	2,923	1,692	1,231	2,664	1,429	1,236	221	19—Dairy products, corn, cattle, hogs (56%)
WI	5,075	1,019	4,055	5,057	892	4,164	266	8—Dairy products, cattle, corn, hogs (85%)
W.N.C	**38,721**	**18,507**	**20,214**	**35,812**	**15,598**	**20,214**	**5,061**	
MN	6,594	3,223	3,370	6,074	2,680	3,395	802	6—Dairy products, corn, cattle, hogs (65%)
IA	9,465	4,582	4,883	9,106	4,124	4,982	1,161	2—Hogs, corn, cattle, soybeans (92%)
MO	3,688	1,763	1,924	3,516	1,586	1,930	276	13—Soybeans, cattle, hogs, corn (71%)
ND	2,688	2,001	687	2,299	1,623	676	700	24—Wheat, cattle, barley, sunflower (69%)
SD	3,057	1,157	1,900	2,463	938	1,525	383	22—Cattle, hogs, corn, wheat (73%)
NE	7,341	3,227	4,113	6,928	2,669	4,260	868	4—Cattle, corn, hogs, soybeans (87%)
KS	5,888	2,552	3,336	5,425	1,978	3,447	871	7—Cattle, wheat, sorghum grain, corn (83%)
S.A	**16,589**	**9,098**	**7,491**	**16,115**	**8,106**	**8,010**	**377**	
DE	492	139	353	520	118	402	7	41—Broilers, soybeans, corn, greenhouse (82%)
MD	1,220	456	764	1,186	371	814	32	34—Broilers, dairy products, greenhouse, cattle (71%)
VA	1,684	623	1,062	1,613	486	1,127	43	30—Cattle, dairy products, broilers, turkeys (57%)
WV	247	56	191	227	71	156	8	47—Dairy products, broilers, apples, cattle (70%)
NC	3,929	1,971	1,958	3,782	1,608	2,174	90	11—Tobacco, broilers, hogs, turkeys (57%)
SC	1,036	621	415	894	440	455	54	36—Tobacco, cattle, soybeans, dairy products (43%)
GA	3,277	1,550	1,727	3,206	1,324	1,882	116	14—Broilers, peanuts, eggs, cattle (60%)
FL	4,704	3,681	1,022	4,686	3,688	1,000	26	9—Greenhouse, oranges, tomatoes, sugar (51%)
E.S.C	**9,351**	**4,687**	**4,664**	**8,107**	**3,288**	**4,819**	**460**	
KY	2,934	1,583	1,352	2,389	1,079	1,311	89	23—Tobacco, horses, cattle, dairy products (70%)
TN	2,091	1,091	1,000	1,924	891	1,033	98	27—Cattle, dairy products, greenhouse, soybeans (57%)
AL	2,074	773	1,301	2,009	578	1,431	80	25—Broilers, cattle, eggs, peanuts (69%)
MS	2,250	1,240	1,011	1,785	741	1,044	193	28—Broilers, cotton, soybeans, cattle (69%)
W.S.C	**16,882**	**7,399**	**9,483**	**15,459**	**5,548**	**9,911**	**1,845**	
AR	3,433	1,607	1,825	3,022	1,005	2,017	314	17—Broilers, soybeans, rice, cattle (67%)
LA	1,485	993	491	1,372	869	503	160	32—Soybeans, cotton, cattle, sugar (50%)
OK	2,683	957	1,726	2,522	746	1,875	393	20—Cattle, wheat, dairy products, broilers (78%)
TX	9,282	3,841	5,441	8,444	2,928	5,516	978	3—Cattle, cotton, dairy products, greenhouse (69%)
Mt	**10,473**	**4,266**	**6,206**	**10,120**	**3,840**	**6,281**	**1,039**	
MT	1,226	422	804	1,213	493	720	366	33—Cattle, wheat, barley, hay (85%)
ID	2,093	1,219	874	1,925	1,042	884	223	26—Cattle, dairy products, potatoes, wheat (64%)
WY	600	123	478	566	111	455	29	40—Cattle, sheep, sugar beets, hay (86%)
CO	3,181	1,097	2,084	3,109	890	2,218	235	16—Cattle, wheat, corn, dairy products (80%)
NM	1,086	368	718	1,010	302	708	62	35—Cattle, dairy products, hay, chili peppers (74%)
AZ	1,506	813	693	1,495	796	699	84	31—Cattle, cotton, dairy products, lettuce (64%)
UT	555	142	413	570	134	437	36	39—Cattle, dairy products, turkeys, hay (71%)
NV	225	81	144	232	72	160	3	46—Cattle, hay, dairy products, potatoes (89%)
Pac	**19,273**	**13,309**	**5,964**	**19,230**	**13,059**	**6,171**	**822**	
WA	2,834	1,908	926	2,793	1,812	981	299	18—Dairy products, cattle, apples, wheat (56%)
OR	1,737	1,115	622	1,784	1,135	649	128	29—Cattle, greenhouse, dairy products, wheat (47%)
CA	14,150	9,826	4,324	14,049	9,602	4,446	388	1—Dairy products, cattle, greenhouse, grapes (39%)
AK	25	18	8	29	19	10	1	50—Greenhouse, dairy products, hay, potatoes (62%)
HI	526	443	83	575	491	84	7	38—Sugar, pineapples, greenhouse, nuts (74%)

Z Less than $500 thousand.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1986.*

NO. 1079. FARM INCOME, 1985 AND 1986, AND INCOME/DEBT RATIO, 1986, BY STATE

[Farm income data are after inventory adjustment. Includes farm operator households. For farm debt data by State, see table 1072. Minus sign (−) indicates net loss]

DIVISION AND STATE	GROSS FARM INCOME (mil. dol.)		NET FARM INCOME (mil. dol.)		Net farm income/ debt ratio, 1986 (percent)
	1985	1986	1985	1986	
U.S	166,029	159,539	32,334	37,487	22.5
N.E.:					
ME	460	432	51.1	37.7	10.0
NH	147	151	31.5	37.5	49.2
VT	461	469	94.0	109.1	31.3
MA	429	587	117.2	275.0	111.3
RI	86	87	47.5	49.1	183.2
CT	423	442	121.6	151.9	72.7
M.A.:					
NY	2,923	2,893	449.7	598.4	22.9
NJ	751	745	256.6	279.4	67.2
PA	3,661	3,632	817.0	977.8	38.7
E.N.C.:					
OH	4,529	4,127	868.9	808.7	20.9
IN	5,081	4,634	632.9	705.3	12.4
IL	8,845	7,836	1,537.5	1,475.2	17.2
MI	3,568	3,205	675.0	583.7	15.6
WI	5,672	5,801	1,048.6	1,561.9	24.4
W.N.C.:					
MN	7,346	7,099	1,245.3	1,670.4	20.1
IA	10,604	10,545	1,589.5	2,330.6	20.3
MO	4,682	4,195	764.7	697.9	12.6
ND	3,407	3,125	661.5	684.5	16.9
SD	3,230	3,066	607.4	753.6	19.0
NE	8,272	8,072	1,460.8	1,773.2	25.2
KS	6,977	6,994	1,148.4	1,477.3	24.4
S.A.:					
DE	530	554	120.8	165.5	59.0
MD	1,413	1,350	307.1	368.0	36.2
VA	2,084	2,011	325.8	392.6	19.6
S.A.—Con.					
WV	353	365	38.3	65.8	22.0
NC	4,543	4,339	1,078.6	1,196.5	37.2
SC	1,235	1,051	179.4	119.9	9.3
GA	3,744	3,633	916.2	1,095.1	30.9
FL	5,013	4,999	1,857.4	2,003.6	56.9
E.S.C.:					
KY	3,131	2,935	769.3	688.9	20.8
TN	2,652	2,387	544.5	451.4	18.4
AL	2,501	2,420	624.7	697.6	35.8
MS	2,575	2,170	493.8	358.2	10.2
W.S.C.:					
AR	3,937	3,659	1,053.1	1,095.1	32.0
LA	1,856	1,666	195.1	164.2	6.3
OK	3,283	3,360	548.2	807.0	17.6
TX	11,762	10,694	2,377.0	2,350.3	19.8
Mt.:					
MT	1,270	1,848	−271.5	329.3	9.9
ID	2,505	2,322	393.3	432.4	14.9
WY	657	678	−51.8	14.9	1.6
CO	3,677	3,573	468.0	555.8	15.8
NM	1,241	1,154	204.0	209.2	17.5
AZ	1,622	1,752	338.0	413.5	23.2
UT	690	712	62.1	114.7	13.0
NV	252	244	14.4	28.0	7.3
Pac.:					
WA	3,357	3,604	778.4	1,212.1	37.0
OR	2,192	2,223	493.6	653.2	22.2
CA	15,603	15,058	4,099.5	4,235.0	32.6
AK	32	36	10.4	15.0	41.4
HI	563	611	139.2	206.1	55.2

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1986.*

NO. 1080. INDEXES OF PRICES RECEIVED AND PAID BY FARMERS: 1970 TO 1986

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

ITEM	1970	1974	1975	1976	1978	1979	1980	1981	1982	1983	1984	1985	1986
Prices received, all products	60	105	101	102	115	132	134	139	133	135	142	128	123
Crops [1]	52	117	105	102	105	116	125	134	121	128	139	120	106
Food grains	59	192	155	129	122	147	165	166	146	148	144	133	109
Feed grains and hay	57	134	127	120	101	114	132	141	120	143	145	122	98
Cotton	36	85	68	99	91	96	114	111	92	104	108	93	91
Tobacco	62	85	93	93	109	118	125	140	153	155	153	153	138
Oil-bearing crops	41	96	81	85	93	103	102	110	88	102	109	84	77
Fruits	59	86	85	80	137	144	124	130	175	128	202	181	167
Commercial vegetables [2]	59	81	92	91	105	110	113	136	126	130	135	127	129
Livestock and products	67	94	98	101	124	147	144	143	145	141	146	136	138
Meat animals	72	98	100	101	134	166	156	150	155	147	151	142	145
Dairy products	59	86	90	100	109	124	135	142	140	140	139	131	129
Poultry and eggs	64	94	103	102	106	111	112	116	110	118	135	119	126
Prices paid, total [3]	55	81	89	95	108	123	138	150	159	161	165	163	159
Production [1]	54	83	91	97	108	125	138	148	153	152	155	151	145
Feed	54	104	100	103	98	110	123	134	122	134	135	116	108
Feeder livestock	77	93	85	97	140	185	177	164	164	160	154	154	153
Seed	43	82	94	92	105	110	118	138	141	141	151	153	148
Fertilizer	48	92	120	102	100	108	134	144	144	137	143	135	124
Agricultural chemicals	62	76	102	111	94	96	102	111	119	125	128	128	127
Fuels and energy	52	79	88	93	105	137	188	213	210	202	201	201	162
Farm and motor supplies	66	89	102	100	104	115	134	147	152	152	147	146	144
Interest payable per acre	39	65	77	88	117	143	178	216	249	258	257	238	216
Taxes payable per acre	68	81	87	94	100	107	114	123	124	129	132	133	134
Wage rates [4]	57	79	85	93	107	117	126	137	144	148	151	154	160
Parity ratio (1910-14=100) [5]	72	86	76	71	70	71	65	61	56	56	57	52	51

[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 738. [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. 1081. Commodity Credit Corporation—Summary: 1970 to 1986

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

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
LOAN ACTIVITY [1]											
Loans made	2,388	852	6,385	4,576	4,228	5,849	11,454	13,710	5,131	10,187	17,391
Loans repaid	1,830	939	4,444	4,048	4,148	5,741	4,629	9,373	10,581	4,458	5,675
Loans cancelled by acquisition of collateral	1,073	100	145	318	115	71	363	860	1,032	1,638	5,583
Loans outstanding [2]	**2,952**	**335**	**5,030**	**5,210**	**5,119**	**5,193**	**11,633**	**15,084**	**8,571**	**12,631**	**18,668**
Wheat	576	4	1,318	816	837	1,871	3,321	4,162	3,414	4,591	3,753
Corn	632	39	1,280	1,301	1,617	629	4,210	5,274	1,236	2,766	7,878
Cotton	170	143	153	80	35	76	714	960	67	376	1,076
Tobacco	845	119	751	903	815	764	867	1,738	2,084	2,539	2,336
COMMODITY INVENTORY OPERATIONS											
Acquisitions, value [2] [3]	**1,518**	**835**	**911**	**1,007**	**2,759**	**2,507**	**2,968**	**8,634**	**8,741**	**4,294**	**9,912**
Purchases	398	735	761	677	2,643	2,503	2,593	7,644	7,676	2,616	4,195
Collateral acquired from loans	1,120	100	150	330	116	4	375	990	1,065	1,678	5,717
Wheat	217	4	135	40	601	28	27	1,600	1,983	919	2,196
Corn	49	2	31	195	416	21	179	3,132	2,591	192	2,287
Cotton	304	(z)	(z)	(z)	1	(z)	(z)	175	1,056	53	559
Dairy products	253	480	445	247	1,262	1,991	2,282	2,716	1,983	1,820	2,036
Butter	146	65	154	75	326	528	561	610	360	406	489
Cheese	7	92	51	17	443	768	874	1,173	892	749	764
Dried milk	100	323	240	155	493	695	843	928	731	665	783
Commodities owned, value [2]	**1,858**	**416**	**1,029**	**1,162**	**2,737**	**3,727**	**5,103**	**10,227**	**7,358**	**6,921**	**11,050**
Wheat	405	2	119	118	705	679	679	1,533	1,510	1,951	3,491
Corn	293	(z)	27	209	596	555	709	3,392	1,045	757	1,757
Cotton	225	(z)	(z)	(z)	1	1	2	174	74	46	226
Sorghum	173	(z)	28	92	93	79	91	520	290	359	725
Dairy products	134	290	751	570	1,266	2,396	3,442	4,219	4,102	3,014	2,830
Butter [4]	97	41	240	188	385	709	781	898	857	502	579
Cheese	–	10	55	4	309	888	1,395	1,674	1,683	1,185	1,204
Dried milk	37	239	456	378	572	799	1,266	1,648	1,562	1,327	1,047

– Represents zero. 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. [4] Beginning 1983, includes butter oil.

No. 1082. Commodity Credit Corporation—Realized Losses on Price Support and Related Programs: 1970 to 1986

[**In millions of dollars.** The realized loss or cost for these programs is reimbursed to C.C.C. by congressional appropriations and does not include reimbursements under Public Law 480 (Food for Peace), National Wool Act, or Export Credit Sales Programs. See also headnote, table 1081. Minus sign (–) indicates net loss]

ITEM	1970	1975	1980	1981	1982	1983	1984	1985	1986
Total net realized loss	**–4,213**	**–710**	**–2,298**	**–3,531**	**–5,723**	**–19,513**	**–8,518**	**–12,935**	**–19,998**
Net realized loss, program [1]	–3,622	–681	–1,544	–2,760	–3,355	–17,643	–7,104	–10,899	–18,625
Producer payments [2]	–2,945	–560	–418	–1,030	–1,491	–4,734	–4,553	–7,308	–13,950
Diversion payments (cash) [3]	–1,014	–5	–56	–	–	–1,332	–913	–1,538	–15
Deficiency payments (cash) [4]	–	–	–80	–	–1,184	–3,286	–3,639	–5,748	–9,737
Deficiency payments (certificates) [4]	(x)	(x)	(x)	(x)	(x)	(x)	(x)	(x)	–2,319
Disaster payments (cash) [5]	–	–555	–257	–1,030	–306	–115	–1	(z)	(z)
Commodity inventory operations	–398	–114	–479	–926	–1,377	–2,562	–2,701	–3,620	–4,255
Net loss on sales	–2	+87	–70	–203	–483	–581	–594	–627	–1,644
Commodity sales proceeds [6]	+880	+450	+962	+902	+562	+1,619	+9,521	+1,758	+2,528
Cost of sales	–882	–363	–1,032	–1,105	–1,045	–2,200	–10,115	–2,385	–4,172
Cost of commodities donated	–185	–168	–184	–432	–572	–1,402	–1,599	–2,464	–1,718
Other expenses [7]	–211	–33	–225	–291	–322	–579	–508	–528	–892
Payment-in-kind program	(x)	(x)	(x)	(x)	(x)	–9,424	–302	+17	–24
Grain reserve storage expense [8]	–144	(z)	–237	–87	–464	–1,113	–278	–307	–342
Other costs and recoveries	–110	–6	–336	–366	+11	+246	+745	+329	+247
Net interest expense [9]	–535	+43	–596	–605	–2,066	–1,523	–1,034	–1,651	–883
Net operating and other expense	–56	–72	–156	–166	–302	–347	–380	–385	–490

– Represents zero. X Not applicable. Z Less than $500,000. [1] Includes other program losses not shown separately. [2] Includes activity for prior year programs and other producer payments not shown separately. For 1970, includes price support payments. For 1986 other major producer payments were: upland cotton inventory protection certificates, $616 million; dairy termination program, $489 million; and diversionary payments (certificates), $368 million. [3] Payments are made to producers of feed grains, upland cotton, wheat, and rice who voluntarily diverted additional acreage from crop production to approved conservation uses or elected to divert wheat acreage for grazing or hay, but only if the Secretary of Agriculture determined that such payments were necessary to meet desirable acreage goals. [4] Payments are made to producers of wheat, feed grains, upland cotton, and rice when the target price for the commodities exceeds the national weighted average market price or the loan rate, whichever is higher. [5] Payments are made to producers of wheat, feed grains, cotton, and rice in the event a crop cannot be planted, or if the quantity harvested is substantially less than the expected production because of drought, flood, or other natural disaster, or other conditions beyond the producers' control. [6] Includes the value of exported commodities charged to P.L. 480, Title II. [7] Covers storage, handling and transportation expenses. [8] Payments to producers for storage of grain under the farmer-owned grain reserve program. For 1970-1975, includes reseal loan storage expense. [9] Interest expense minus interest income.

Source of tables 1081 and 1082: U.S. Agricultural Stabilization and Conservation Service, *Commodity Credit Corporation Report of Financial Condition and Operations*, annual.

NO. 1083. CIVILIAN CONSUMER EXPENDITURES FOR FARM FOODS—FARM VALUE AND MARKETING BILL: 1970 TO 1986

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

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Consumer expenditures, total	110.6	167.0	216.9	245.2	264.4	287.7	298.9	315.0	332.0	345.4	361.1
Farm value, total	35.5	55.6	69.5	79.2	81.7	83.2	83.7	85.7	91.4	88.3	89.0
Marketing bill, total [1]	75.1	111.4	147.4	166.0	182.7	204.5	215.2	229.3	240.6	257.1	272.1
Percent of total consumer expenditures	67.9	66.7	68.0	67.7	69.1	71.1	72.0	72.8	72.5	74.4	75.4
At-home expenditures [2]	78.2	116.2	149.2	169.4	180.1	194.0	196.7	204.6	213.1	220.8	227.8
Farm value	29.1	44.0	56.4	64.5	65.9	66.6	65.9	66.8	70.7	68.1	68.0
Marketing bill [1]	49.1	72.2	92.8	104.9	114.2	127.4	130.8	137.8	142.4	152.7	159.8
Percent of at-home expenditures	62.8	62.1	62.2	61.9	63.4	65.7	66.5	67.4	66.8	69.2	70.1
Away-from-home expenditures	32.4	50.8	67.7	75.8	84.3	93.7	102.2	110.4	118.9	124.6	133.3
Farm value	6.4	11.6	13.1	14.7	15.8	16.6	17.8	18.9	20.7	20.2	21.0
Marketing bill [1]	26.0	39.2	54.6	61.1	68.5	77.1	84.4	91.5	98.2	104.4	112.3
Percent of away-from-home expenditures	80.2	77.2	80.6	80.6	81.3	82.3	82.6	82.9	82.6	83.8	84.2
Marketing bill cost components:											
Labor cost [3]	32.2	48.3	66.2	75.2	81.5	91.0	96.6	102.4	109.3	116.5	123.7
Packaging materials	8.2	13.3	16.6	18.6	21.0	22.6	23.7	24.7	26.2	26.9	28.1
Rail and truck transport [4]	5.2	8.4	10.5	11.8	13.0	14.3	14.7	15.4	15.9	16.5	16.8
Corporate profits before taxes	3.6	7.1	10.3	10.4	10.2	10.0	9.6	9.8	10.8	11.1	12.0
Fuels and electricity	2.2	4.6	7.1	8.2	9.0	10.0	11.0	11.7	12.5	13.2	13.6
Other [5]	23.7	29.7	36.7	41.9	48.0	56.6	59.6	65.3	65.9	72.9	77.9
Processing	29.7	40.9	53.5	60.3	66.3	73.0	74.7	77.6	80.2	87.6	91.9
Wholesaling	8.7	13.5	16.5	18.6	20.4	22.8	25.6	27.1	28.4	29.6	30.8
Transportation	5.2	8.4	10.5	11.8	13.0	14.3	14.7	15.4	15.9	16.5	16.8
Retailing and food service	31.5	48.6	66.9	75.4	83.0	94.4	100.2	109.2	116.1	123.4	132.6
SELECTED FOOD COMMODITY GROUPS											
Meat products:											
Total expenditures	33.7	48.0	69.5	80.2	83.3	86.6	91.9	97.9	101.7	103.2	106.0
Farm value	14.4	20.6	28.0	31.5	30.8	31.1	31.5	31.4	32.4	30.5	30.8
Percent of total	42.7	42.9	40.3	39.3	37.0	35.9	34.3	32.1	31.9	29.6	29.1
Marketing bill [1]	19.4	27.4	41.5	48.7	52.5	55.5	60.4	66.5	69.3	72.7	75.2
Poultry and eggs:											
Total expenditures	9.1	12.7	15.2	17.4	18.3	19.9	20.3	21.7	24.2	26.0	28.5
Farm value	4.0	6.3	7.3	8.1	8.4	8.8	8.5	9.3	11.0	10.2	11.7
Percent of total	44.0	49.6	48.0	46.6	45.9	44.2	41.9	42.9	45.5	39.2	41.1
Marketing bill [1]	5.1	6.4	7.9	9.3	9.9	11.1	11.8	12.4	13.2	15.8	16.8
Dairy products:											
Total expenditures	16.7	23.3	30.1	33.5	37.8	41.4	42.0	45.0	47.4	49.4	52.0
Farm value	6.9	10.0	12.7	14.6	16.0	17.0	16.7	18.0	18.1	17.7	17.9
Percent of total	41.3	42.9	42.2	43.6	42.3	41.1	39.8	40.0	38.2	35.8	34.2
Marketing bill [1]	9.8	13.3	17.4	18.9	21.8	24.4	25.3	27.0	29.3	31.7	34.2
Fruits and vegetables:											
Total expenditures	22.6	35.6	46.3	52.5	55.5	62.8	66.7	70.0	74.7	78.5	82.1
Farm value	5.1	8.4	10.0	10.9	11.7	13.3	13.8	13.3	15.1	15.2	15.2
Percent of total	22.6	23.6	21.6	20.8	21.1	21.2	20.7	19.0	20.2	19.4	18.5
Marketing bill [1]	17.5	27.2	36.3	41.6	43.8	49.5	52.9	56.7	59.6	63.3	66.9
Bakery, grain mill products:											
Total expenditures	13.6	24.1	27.5	31.6	35.2	37.9	39.6	40.6	43.3	45.5	48.1
Farm value	2.0	4.1	3.8	4.8	5.1	4.9	4.8	4.9	5.1	4.7	4.3
Percent of total	14.7	17.0	13.8	15.2	14.5	12.9	12.1	12.1	11.8	10.3	8.9
Marketing bill [1]	11.6	20.0	23.7	26.8	30.1	33.0	34.8	35.7	38.2	40.8	43.8

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

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review, 1986*, AER No. 574, July 1987; *Food Consumption, Prices, and Expenditures, 1985*, SB–749, January 1987; *Agricultural Outlook*, periodic; and *Agricultural Statistics*, annual.

NO. 1084. FARMER MARKETING AND FARM SUPPLY COOPERATIVES—SUMMARY: 1970 TO 1985

[**1970–1977,** for **fiscal years** of cooperatives ending between **July 1** of preceding year and **June 30** of year shown. Beginning **1978,** 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	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Cooperatives listed	7,790	7,645	6,736	6,600	6,445	6,293	6,211	6,125	5,989	5,782	5,625
Marketing [1]	5,015	4,916	4,143	4,050	3,938	3,924	3,855	3,826	3,781	3,646	3,589
Farm supply	2,775	2,729	2,593	2,550	2,507	2,369	2,356	2,299	2,208	2,136	2,036
Memberships [2] (1,000)	6,355	6,123	5,758	5,695	5,627	5,379	5,335	5,136	4,955	4,842	4,781
Marketing [1] (1,000)	3,133	3,151	2,692	2,632	2,567	2,574	2,479	2,469	2,402	2,445	2,383
Farm supply (1,000)	3,222	2,972	3,066	3,063	3,060	2,804	2,856	2,666	2,553	2,397	2,398
Business [3] (mil. dol.)	19,080	41,342	43,584	47,305	56,268	66,254	71,534	69,150	66,755	73,047	65,601
Marketing [1] (mil. dol.)	15,207	32,682	33,027	36,253	42,747	50,120	54,475	52,788	50,812	56,078	48,961
Farm supply (mil. dol.)	3,673	8,660	10,557	11,052	13,521	16,134	17,059	16,362	15,943	16,969	16,641

[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. 1085. SELECTED INDEXES OF FARM INPUTS: 1960 TO 1985

[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	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
Total	**99**	**96**	**97**	**102**	**105**	**103**	**102**	**100**	**97**	**96**	**98**
Farm labor	177	112	106	100	99	96	96	93	97	92	85
Farm real estate [1]	103	105	97	100	103	103	103	103	101	99	97
Mechanical power and machinery	83	85	96	104	104	101	98	94	90	88	83
Agricultural chemicals [2]	32	75	83	107	123	123	129	118	105	121	123
Feed, seed, and livestock purchases [3]	77	96	93	108	115	114	108	106	108	104	110
Taxes and interest	95	102	100	99	103	100	99	99	99	95	96
Miscellaneous	77	89	82	103	113	96	108	115	100	110	116

[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. 1086. FARM MACHINERY AND EQUIPMENT: 1970 TO 1986

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

ITEM	Unit	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Value of farm implements and machinery [1]	Bil. dol.	34.4	63.1	76.4	83.3	93.2	99.3	107.8	107.9	106.2	102.7	92.4	84.5
Farmers' expenditures:													
Motor vehicles [2]	Mil. dol.	2,030	3,833	4,927	5,580	6,284	5,813	5,652	4,436	4,725	4,583	3,699	3,227
Machinery, equipment	Mil. dol.	2,888	4,820	5,657	7,158	8,002	6,956	6,481	5,068	4,735	4,682	3,660	3,193
Retail sales: [3]													
Tractors, total [4]	1,000	135.5	161.1	130.9	139.6	139.0	119.3	103.8	77.2	71.3	66.7	58.5	47.1
2-wheel drive	1,000	135.5	150.5	123.2	130.9	127.5	108.4	94.1	70.4	66.2	62.7	55.5	45.1
4-wheel drive	1,000	(NA)	10.6	7.7	8.7	11.5	10.9	9.7	6.8	5.1	4.0	3.0	2.0
Combines	1,000	26.7	33.1	28.8	31.5	32.3	25.7	26.8	16.2	12.8	11.4	8.4	7.7
Corn heads	1,000	18.5	25.4	20.7	21.2	22.4	17.2	15.7	9.3	6.8	6.4	5.0	4.7
Field forage harvesters	1,000	15.0	13.1	13.2	11.5	12.5	9.5	7.6	5.1	4.1	3.5	2.5	2.2

NA Not available. [1] Farm inventory valuations as of December 31. Includes family automobiles. [2] For farm business use. [3] Source: Farm and Industrial Equipment Institute, Chicago, IL, unpublished data. [4] Beginning 1977, 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. 1087. SUPPLY AND USE OF FERTILIZER: 1970 TO 1986

[For years beginning July 1]

ITEM	Unit	1970-1974, annual avg.	1975-1979, annual avg.	1980	1981	1982	1983	1984	1985	1986
Production	Mil. nutrient tons	20.9	24.9	29.3	29.7	25.5	22.6	24.5	26.8	22.8
Imports	Mil. nutrient tons	5.3	6.4	8.2	8.2	7.7	7.4	9.4	9.4	9.1
Exports	Mil. nutrient tons	3.2	5.3	7.6	8.4	6.9	6.5	6.9	9.3	[1] 5.7
Agricultural consumption	Mil. nutrient tons	17.6	20.7	23.1	23.7	21.4	18.1	21.8	21.7	19.6

[1] Excludes exports of superphosphoric acid which are no longer reported.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Resources: Inputs Outlook and Situation Report*, periodic.

NO. 1088. HIRED FARMWORKERS—WORKERS AND EARNINGS: 1975 TO 1985

[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. I, inside front cover]

CHARACTERISTIC	WORKERS (1,000)									AVERAGE ANNUAL EARNINGS RECEIVED FROM HIRED FARMWORK			
				1985									
					Duration of farmwork								
	1975	1981	1983	Total	Under 25 days	25–74 days	75–149 days	150–249 days	250 days and over	1975	1981	1983	1985
All workers	**2,638**	**2,492**	**2,595**	**2,522**	**943**	**509**	**281**	**344**	**445**	**$1,488**	**$2,659**	**$3,138**	**$3,247**
White [1]	1,907	1,824	1,888	1,922	791	395	213	179	344	1,379	2,359	2,699	3,018
Black and other [1]	446	340	376	274	97	52	35	60	30	1,524	2,668	3,587	3,008
Hispanic	285	328	331	326	55	62	33	105	71	2,154	4,319	5,131	4,795
Northeast	227	204	191	231	84	51	14	24	58	1,287	2,977	3,577	3,417
Midwest	674	688	687	851	372	169	99	84	127	1,212	2,019	2,082	2,717
South	1,074	1,004	995	860	309	167	103	132	149	1,289	2,217	2,886	3,088
West	664	595	722	580	178	122	65	104	111	2,157	4,037	4,372	4,194
Migratory	188	115	226	159	37	53	25	35	9	2,003	2,728	4,638	2,588
Nonmigratory	2,450	2,377	2,369	2,363	906	456	256	309	436	1,448	2,656	2,994	3,291
14–17 years old	835	605	487	552	318	146	43	19	26	421	753	807	743
18–24 years old	733	760	794	739	267	173	91	94	114	1,517	2,488	2,161	2,666
25–34 years old	393	498	580	601	192	106	70	106	127	2,209	3,684	4,352	4,268
35–44 years old	219	236	289	260	81	38	28	38	75	2,369	4,631	5,390	4,736
45–54 years old	193	180	197	185	43	13	24	48	57	(NA)	3,980	4,986	6,269
55–64 years old	144	104	168	110	21	17	16	22	34	(NA)	4,077	4,623	5,280
65 years and over	120	108	80	75	21	16	9	17	12	937	1,938	2,406	3,626

NA Not available. [1] Excludes persons of Hispanic origin.

Source: U.S. Dept. of Agriculture, Economic Research Service, *The Hired Farm Working Force*, periodic.

NO. 1089. FARM PRODUCTIVITY—LABOR-HOURS AND INDEXES OF FARM OUTPUT PER HOUR: 1960 TO 1985

[See also *Historical Statistics, Colonial Times to 1970*, series K 407–413, K 430–444, and W 67–81]

ITEM	1960	1970	1975	1976	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Hours of labor required on farms [1] (bil.)	**9.8**	**5.9**	**5.0**	**4.8**	**4.4**	**4.3**	**4.3**	**4.2**	**4.0**	**3.7**	**3.8**	**3.6**
All productive livestock (bil.)	3.8	2.3	1.7	1.6	1.4	1.3	1.3	1.2	1.1	1.1	1.0	.9
All crops (bil.)	[2] 4.6	2.8	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.1	2.3	2.2
Farm maintenance (bil.)	[3] 1.4	.8	.7	.6	.6	.6	.6	.6	.5	.5	.5	.5
INDEX (1977=100)												
Farm output per hour	**37**	**66**	**89**	**94**	**108**	**119**	**113**	**131**	**133**	**122**	**138**	**155**
All livestock and products	32	64	85	93	109	117	129	136	143	154	162	175
Meat animals	40	67	87	94	108	117	127	136	138	149	153	163
Milk cows	27	57	81	91	109	122	135	150	164	187	212	244
Poultry	25	55	81	94	109	119	125	135	142	152	162	173
All crops	41	70	89	91	105	118	105	121	124	105	123	136
Feed grains	33	62	90	95	111	125	107	132	136	96	133	149
Hay and forage	43	74	94	90	109	116	109	122	128	122	132	135
Food grains	73	93	101	98	104	115	116	129	129	131	140	142
Vegetables	69	91	93	100	104	109	113	119	120	119	117	123
Fruits and nuts	61	84	97	101	103	104	112	108	115	115	116	119
Sugar crops	52	79	97	100	103	103	104	111	109	106	108	109
Cotton	13	31	57	70	100	132	103	145	149	141	172	194
Tobacco	46	79	97	101	109	99	104	117	122	106	129	137
Oil crops	52	72	88	84	98	110	90	110	113	96	109	133
Cropland used for crops [4]	**94**	**88**	**97**	**98**	**97**	**100**	**101**	**102**	**101**	**88**	**99**	**98**
Crop production per acre	77	88	96	94	105	113	100	115	116	100	112	118

[1] Represents labor used on crops, livestock, and farm maintenance. [2] Includes work on farm gardens. [3] Includes work on horses and mules. [4] Harvested acreages plus acreages of crop failure and summer fallow.

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. 1090. Farm Labor—Annual Average Labor-Hours Per Unit of Production, Selected Crops and Livestock: 1960–1964 to 1982–1986

[See also *Historical Statistics, Colonial Times to 1970*, series K 445–485]

CROP	1960–1964	1970–1974	1982–1986
Corn for grain: Hours per acre [1]	7.0	4.3	3.1
Yield per acre (bu.)	62.2	84.0	109.3
Hours per 100 bushel	11	5	3
Wheat: Hours per acre [1]	3.0	2.9	2.6
Yield per acre (bu.)	25.2	31.0	36.9
Hours per 100 bushel	12	9	7
Hay: Hours per acre [1]	5.0	3.7	3.0
Yield per acre (sh. tons)	1.77	2.12	2.45
Hours per sh. ton	2.8	1.8	1.2
Potatoes: Hours per acre [1]	48.0	41.6	32.6
Yield per acre (cwt)	195	234	284
Hours per sh. ton	5	4	2
Cotton: Hours per acre [1]	47	18	5
Yield per acre (lb.)	475	470	581
Hours per bale	47	18	5

CROP AND LIVESTOCK	1960–1964	1970–1974	1982–1986
Tobacco: Hours per acre [2]	493	298	218
Yield per acre (1,000 lb.)	1.9	2.0	2.1
Hours per 100 lb	26	14	10
Milk cows: Hours per cow	93	62	24
Milk per cow (cwt)	75	101	127
Hours per cwt of milk	1.2	.6	.2
Cattle, exc. milk cows:			
Hours per cwt of beef produced [3]	2.6	1.7	.9
Hogs: Hours per cwt produced [3]	1.9	1.0	.3
Chickens: [4] Hours per 100 layers	126	78	44
Rate of lay [5]	212	225	246
Hours per 100 eggs produced	.6	.3	.2
Broilers: Hours per 100 birds	3	1	.4
Hours per cwt produced [3]	.8	.3	.1
Turkeys: Hours per cwt produced [3]	2.4	.8	.2

[1] Labor-hours per acre harvested, including pre-harvest work on acreages abandoned, grazed, and turned under. [2] Per acre planted and harvested. [3] Liveweight production. [4] Laying flocks and eggs. [5] Eggs produced during year divided by average number of hens and pullets of laying age on hand during year.

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

No. 1091. Farm Output Indexes and Acreage of Principal Crops: 1960 to 1986

[See also *Historical Statistics, Colonial Times to 1970*, series K 414–429]

ITEM	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985, prel.	1986, prel.
INDEX (1977=100)												
Farm output [1]	76	84	95	104	111	104	118	116	96	112	119	113
Per unit of total input	76	87	99	101	105	101	116	116	98	117	121	(NA)
Gross production:												
Livestock and products [2]	82	99	95	101	104	108	109	107	109	107	110	111
Meat animals	80	102	97	100	103	107	106	101	104	101	101	(NA)
Dairy products	95	95	94	99	101	105	108	110	114	110	117	(NA)
Poultry and eggs	68	93	92	106	114	115	119	119	120	123	128	(NA)
Crops [3]	72	77	93	102	113	101	117	117	88	111	117	108
Feed grains	69	71	91	108	116	97	121	122	67	116	133	(NA)
Hay and forage	83	92	100	106	108	98	106	109	100	107	106	(NA)
Food grains	66	69	108	93	108	121	144	138	117	129	121	(NA)
Vegetables	88	96	97	103	107	104	111	116	107	117	122	(NA)
Fruits and nuts	69	81	98	99	105	119	111	113	110	114	108	(NA)
Sugar crops	60	95	114	101	94	97	107	96	93	95	97	(NA)
Cotton	102	72	58	76	102	79	109	85	55	91	94	(NA)
Tobacco	102	100	114	106	80	93	108	104	75	90	81	(NA)
Oil crops	38	66	86	105	129	99	114	121	91	106	117	(NA)
CROPLAND USED FOR CROPS (millions of acres)												
Planted or grown	324	293	336	338	348	352	366	362	306	348	342	325
Harvested [4]	317	289	330	330	340	342	351	347	294	337	333	316

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. [4] Land supporting one or more harvested crops.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics, 1986*. Also in *Agricultural Statistics*, annual.

No. 1092. Acreages of Crops Harvested for Specified Purposes: 1960 to 1986

[See also *Historical Statistics, Colonial Times to 1970*, series K 496–499]

ITEM	Unit	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Crops harvested [2]	**Mil. acres**	[3] 324	293	336	338	348	352	366	362	306	348	342	325
Domestic use	Mil. acres	255	221	236	224	223	215	237	249	182	252	263	231
Per capita [4]	Acres	1.41	1.08	1.09	1.00	.99	.94	1.03	1.07	.77	1.06	1.10	.95
Exports	Mil. acres	64	72	100	114	125	137	129	113	124	96	79	94
Percent of total	Percent	19.8	24.6	29.8	33.7	35.9	38.9	35.2	31.2	40.5	27.6	23.1	28.9
Crop failure	**Mil. acres**	6	5	6	7	6	10	6	5	5	6	8	9

[1] Preliminary. [2] Area in principal crops harvested as reported by Economic Research Service plus acreage in vegetables, fruits, tree nuts, and farm gardens. [3] Includes feed for horses and mules, not shown separately. [4] Based on Bureau of the Census estimated total population, including Armed Forces overseas, as of July 1.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics, 1986*.

No. 1093. Selected Farm Products—Production and Exports: 1970 to 1986

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Corn for grain: Production	Mil. bu	4,152	5,841	7,928	6,639	8,119	8,235	4,175	7,674	8,877	8,253
Exports [1]	Mil. bu	517	1,711	2,433	2,355	2,010	1,834	1,901	1,865	1,241	1,450
Percent of production	Percent	12.5	29.3	30.7	35.5	24.8	22.3	45.5	24.3	14.0	17.6
Soybeans, for beans: Production	Mil. bu	1,127	1,548	2,261	1,798	1,989	2,190	1,636	1,861	2,099	2,007
Exports [1]	Mil. bu	494	555	875	724	929	905	743	598	740	700
Percent of production	Percent	38.5	35.9	38.7	40.3	46.7	41.3	45.4	32.1	35.7	34.9
Wheat: Production	Mil. bu	1,352	2,127	2,134	2,381	2,785	2,765	2,420	2,595	2,425	2,087
Exports [1]	Mil. bu	741	1,173	1,375	1,514	1,771	1,509	1,429	1,424	915	1,025
Percent of production	Percent	54.8	55.2	64.4	63.6	63.6	54.6	59.0	54.9	37.7	49.1
Cotton: Production	Mil. bales [2]	10.2	8.3	14.6	11.1	15.6	12.0	7.8	13.0	13.4	9.7
Exports [1]	Mil. bales [2]	3.9	3.3	9.2	5.9	6.6	5.2	6.8	6.2	2.0	6.8
Percent of production	Percent	38.2	39.8	63.0	53.2	42.3	43.3	87.2	47.7	14.9	69.4
Tobacco: [3] Production	Mil. lb	1,906	2,182	1,527	1,786	2,064	1,994	1,429	1,728	1,512	1,166
Exports [1]	Mil. lb	639	655	694	649	697	628	596	666	620	(NA)
Percent of production	Percent	33.5	30.0	45.4	36.3	33.8	31.5	41.7	38.5	41.0	(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. 1094. Selected Farm Products—U.S. and World Production and Exports: 1983 to 1985

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

ITEM	Unit	AMOUNT						U.S. AS PERCENT OF WORLD		
		U.S.			World			1983	1984	1985
		1983	1984	1985	1983	1984	1985			
PRODUCTION [1]										
Wheat	Million	66	71	66	489	511	499	13.5	13.9	13.2
Corn for grain	Million	106	195	225	347	459	483	30.5	42.5	46.6
Soybeans	Million	44.5	50.6	57.1	83.2	93.1	96.9	53.5	54.4	58.9
Rice, rough	Million	4.5	6.3	6.1	454	468	470	1.0	1.3	1.3
Tobacco, unmanufactured [2]	1,000	649	784	686	6,051	6,493	6,883	10.7	12.0	9.9
Vegetable oils	Million	5.8	6.3	6.4	42.3	46.1	49.2	13.7	13.7	13.0
Cotton	Million bales [3]	7.8	13.0	13.4	68.1	88.1	79.3	11.4	14.7	16.9
EXPORTS [4]										
Wheat [5]	Million	38.9	38.8	24.9	102.0	107.0	96.0	38.1	36.3	25.9
Corn	Million	48.3	47.4	31.5	60.9	66.8	62.4	79.3	71.0	50.5
Soybeans	Million	20.2	16.3	20.1	26.2	25.3	26.0	77.1	64.4	77.3
Rice, milled basis	Million	2.3	2.1	1.9	11.9	12.6	11.5	19.3	16.7	16.5
Tobacco, unmanufactured [6]	1,000	239	246	249	1,370	1,408	1,415	17.4	17.5	17.6
Vegetable oils	Million	1.4	1.2	1.1	13.7	15.6	16.4	10.2	7.7	6.7
Cotton	Million bales [3]	6.8	6.2	2.0	19.2	20.5	20.5	35.4	30.2	9.8

[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. 1095. U.S. Sales and Donations Under Food for Peace (Public Law 480) Programs—Total, 1954 to 1986, and by Selected Country, 1986

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

YEAR	Total	Title I sales (loans) [1]	TITLE II DONATIONS			COUNTRY	1986	
			Total	Voluntary relief agencies	Emergency relief and other [2]		Sales	Donations
1954-1986, total	**40,269**	**24,364**	**15,905**	**10,030**	**5,875**	**Total [3]**	**890.0**	**759.0**
						Egypt	217.5	6.6
1970	1,142	711	432	181	250	Sudan	45.0	5.0
1975	1,328	868	461	266	194	Bangladesh	82.0	31.8
1979	1,287	746	541	374	167	India	–	103.2
						Ethiopia	–	78.3
1980	1,436	843	593	340	253	Pakistan	47.5	42.0
1981	1,542	774	768	471	297	Morocco	40.0	5.8
1982	1,314	690	624	456	168	El Salvador	44.0	10.4
1983	1,373	773	600	422	178	Philippines	35.0	8.3
1984	1,524	784	740	523	217	Indonesia	32.3	4.3
1985	2,052	984	1,068	749	319	Dominican Republic	30.0	1.8
1986	1,649	890	759	587	172	Jamaica	35.0	2.6

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

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

NO. 1096. AGRICULTURAL EXPORTS AND IMPORTS—VALUE: 1970 TO 1986

[**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	1977	10.2	23.6	20	13.4	9
1975–1979, avg	13.5	26.5	20	13.0	11	1978	14.6	29.4	21	14.8	9
1980–1984, avg	21.9	39.0	18	17.1	6	1979	18.0	34.7	19	16.7	8
1970	1.5	7.3	17	5.8	15	1980	23.9	41.2	19	17.4	7
1971	1.9	7.7	18	5.8	13	1981	26.6	43.3	19	16.8	6
1972	2.9	9.4	19	6.5	12	1982	21.2	36.6	18	15.4	6
1973	9.3	17.7	25	8.4	12	1983	19.5	36.1	18	16.6	6
1974	11.7	21.9	23	10.2	10	1984	18.5	37.8	18	19.3	6
1975	12.6	21.9	21	9.3	10	1985	9.1	29.0	14	20.0	6
1976	12.0	23.0	20	11.0	9	1986	5.0	26.0	13	21.1	6

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. 1097. AGRICULTURAL EXPORTS—VALUE, BY PRINCIPAL COMMODITIES AND SELECTED COUNTRIES OF DESTINATION: 1970 TO 1986

[See headnote, table 1096. Data by country of destination not adjusted for transshipments prior to 1982]

COMMODITY AND COUNTRY	VALUE (mil. dol.)								PERCENT		
	1970	1975	1980	1982	1983	1984	1985	1986	1970	1980	1986
Total agricultural exports [1]	**7,255**	**21,859**	**41,233**	**36,627**	**36,099**	**37,804**	**29,041**	**26,046**	**100.0**	**100.0**	**100.0**
Grains and feeds [2]	2,720	11,932	19,117	15,687	16,250	17,163	11,882	8,622	37.5	46.4	33.1
Feed grains and products	1,093	5,283	9,831	6,527	7,351	8,204	6,112	3,167	15.1	23.8	12.2
Corn	818	4,422	8,492	5,582	6,367	6,999	5,206	2,599	11.3	20.6	10.0
Wheat and products	1,136	5,353	6,660	6,928	6,560	6,740	3,898	3,280	15.7	16.2	12.6
Rice	313	858	1,289	997	926	845	665	621	4.3	3.1	2.4
Oilseeds and products [2]	1,931	4,452	9,393	9,141	8,716	8,369	5,794	6,464	26.6	22.8	24.8
Soybeans	1,228	2,865	5,880	6,218	5,913	5,418	3,732	4,321	16.9	14.3	16.6
Soybean oil cake and meal	344	639	1,665	1,411	1,527	997	870	1,233	4.7	4.0	4.7
Vegetable oils and waxes	295	635	1,216	952	888	1,270	870	669	4.1	2.9	2.6
Soybean oil	194	269	689	486	424	757	432	253	2.7	1.7	1.0
Animals and animal products [2]	865	1,686	3,768	3,935	3,787	4,228	4,150	4,494	11.9	9.1	17.3
Hides and skins, incl. furskins	187	407	1,046	1,022	1,010	1,383	1,295	1,506	2.6	2.5	5.8
Cattle hides	130	260	623	704	742	1,086	1,007	1,205	1.8	1.5	4.6
Meats and meat products	132	432	890	978	916	928	905	1,113	1.8	2.2	4.3
Fats, oils, and greases	246	360	769	663	600	698	619	411	3.4	1.9	1.6
Poultry and poultry products	82	157	603	515	428	415	384	496	1.1	1.5	1.9
Cotton, excluding linters	372	991	2,864	1,955	1,817	2,441	1,633	773	5.1	6.9	3.0
Tobacco, unmanufactured	517	852	1,334	1,547	1,462	1,511	1,521	1,209	7.1	3.2	4.6
Fruits and preparations	334	699	1,335	1,376	1,349	1,243	1,186	1,297	4.6	3.2	5.0
Fresh fruits	164	404	739	796	829	758	743	844	2.3	1.8	3.2
Vegetables and preparations	219	505	1,188	1,174	980	1,002	930	1,082	3.0	2.9	4.2
Nuts and preparations	69	169	757	541	496	604	683	743	1.0	1.8	2.9
Other	232	573	1,477	1,271	1,242	1,243	1,262	1,362	3.2	3.6	5.2
Asia [1]	2,717	7,620	14,886	13,674	14,058	14,907	11,191	10,533	37.5	36.1	40.4
Japan	1,214	3,082	6,111	5,555	6,251	6,782	5,409	5,106	16.7	14.8	19.6
South Korea	224	830	1,797	1,581	1,840	1,650	1,413	1,293	3.1	4.4	5.0
China: Taiwan	134	565	1,095	1,155	1,308	1,458	1,231	1,164	1.9	2.7	4.5
Western Europe [1] [3]	2,534	7,177	11,744	11,463	9,999	8,837	6,937	7,017	34.9	28.5	26.9
European Economic Community [4]	2,316	6,769	11,033	10,657	9,299	8,257	6,477	6,595	29.4	22.4	25.3
Netherlands	526	1,722	3,412	3,085	2,576	2,323	1,869	2,069	7.3	8.3	7.9
West Germany	529	1,564	1,831	1,448	1,529	1,065	944	1,042	7.3	4.4	4.0
United Kingdom	411	588	928	915	823	754	604	678	5.7	2.3	2.6
Italy	210	798	1,094	989	731	806	669	720	2.9	2.7	2.8
France	164	406	748	625	485	507	403	435	2.3	1.8	1.7
Spain [5]	143	776	1,129	1,681	1,264	1,029	837	701	2.0	2.7	2.7
Portugal [6]	35	261	608	578	660	698	438	294	.5	1.5	1.1
Latin America [1]	688	2,274	6,150	4,438	5,213	5,263	4,224	3,639	9.5	14.9	14.0
Brazil	69	323	680	526	479	508	470	555	.9	1.6	2.1
Mexico	155	586	2,468	1,156	1,942	1,993	1,439	1,074	2.1	6.0	4.1
Venezuela	98	277	701	671	665	783	638	450	1.4	1.7	1.7
Canada	826	1,304	1,852	1,820	1,844	1,963	1,622	1,547	11.4	4.5	5.9
Soviet Union	16	1,133	1,047	1,871	1,473	2,878	1,923	658	.2	2.5	2.5
Eastern Europe	169	616	2,071	847	839	758	479	433	2.3	5.0	1.7
Africa [1]	254	1,134	2,179	2,238	2,458	2,972	2,488	1,995	3.5	5.3	7.7
Egypt	26	425	770	803	970	909	891	805	.4	1.9	3.1

[1] Includes areas not shown separately. [2] Includes commodities not shown separately. [3] As of Jan. 1, 1982, includes Canary Islands and Madeira Islands. For consistency, data for all years are shown on same basis. [4] Includes Belgium, Luxembourg, Denmark, Greece, and Ireland 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. [6] As of Jan. 1, 1984, includes Madeira Islands and Azores.

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

No. 1098. Agricultural Exports—Value, by Leading States: 1986

[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]	**26,324.7**	**CA**	**2,408.8**	**IL**	**2,153.1**	**IA**	**2,059.2**	**KS**	**1,539.3**	**NE**	**1,504.0**
Soybeans and products	5,573.4	IL	1,015.9	IA	822.5	IN	491.6	MO	479.2	OH	426.5
Feed grains and products	4,713.9	IA	889.3	IL	814.1	NE	563.5	IN	393.7	MN	389.0
Wheat and products	3,546.2	ND	678.0	KS	643.0	TX	283.7	OK	244.9	CO	204.2
Hides and skins	1,455.5	KS	233.8	TX	214.9	NE	213.5	IA	75.6	CO	64.4
Live animals and meat products	1,356.7	KS	170.6	TX	169.0	KY	166.3	NE	163.7	IA	92.5
Tobacco	1,317.5	NC	610.7	KY	245.1	SC	110.3	VA	75.2	GA	91.6
Fruits and preparations	1,237.0	CA	739.4	FL	223.4	WA	70.6	AZ	45.6	MI	33.9
Vegetables and preparations	1,000.1	CA	416.0	WA	115.3	MI	58.2	WI	53.8	ID	52.4
Cotton	691.9	TX	203.2	CA	160.4	MS	85.3	AZ	53.4	LA	38.2
Rice	647.5	AR	296.5	TX	101.7	LA	96.5	CA	76.6	MS	56.8

[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. 1987.

No. 1099. Crops—Acreage and Value, 1984 to 1986, and Order of Value, 1986, by State

State	Acreage harvested (1,000)			Farm value (mil. dol.)				Crops in order of value, **1986**
	1984	**1985**	**1986, prel.**	**1984**	**1985**	**1986, prel.** Value	Rank	
U.S.[1]	**334,723**	**330,063**	**312,174**	**79,395**	**76,667**	**58,011**	(X)	**Corn, soybeans, hay, wheat.**
AL	3,642	3,321	2,535	774	690	441	33	Peanuts, hay, cotton lint, soybeans.
AZ	895	809	683	805	735	692	30	Cotton lint, lettuce, hay, cotton seed.
AR	8,499	7,778	7,344	1,658	1,402	976	22	Rice, soybeans, cotton lint, hay.
CA	5,756	5,609	5,071	8,225	8,050	7,276	1	Grapes, tomatoes, cotton lint, hay.
CO	6,659	6,846	6,166	1,179	1,124	839	25	Hay, wheat, corn, potatoes.
CT	150	151	140	68	70	75	47	Hay, tobacco, apples, mushrooms.
DE	538	554	536	135	125	90	45	Soybeans, corn, potatoes, green peas.
FL	1,317	1,344	1,224	2,431	2,585	2,021	9	Tomatoes, oranges, sugarcane [2], grapefruit.
GA	5,628	5,071	3,841	1,664	1,370	1,036	21	Peanuts, tobacco, corn, soybeans.
HI	95	89	90	403	373	[3] 165	41	Sugarcane [2], pineapple, macadamia nut, papayas.
ID	4,834	4,738	4,585	1,508	1,276	1,165	19	Potatoes, hay, barley, wheat.
IL	23,478	23,111	22,050	5,594	6,214	4,216	3	Corn, soybeans, hay, wheat.
IN	12,503	12,362	11,660	3,118	3,018	2,039	7	Corn, soybeans, hay, wheat.
IA	24,707	25,030	24,096	5,666	5,948	4,291	2	Corn, soybeans, hay, oats.
KS	21,173	21,615	20,694	2,874	2,960	2,025	8	Wheat, sorghum, hay, corn.
KY	5,661	5,484	5,181	2,004	1,630	1,200	18	Tobacco, corn, hay, soybeans.
LA	4,890	4,632	4,370	1,204	920	625	31	Soybeans, cotton lint, rice, sugarcane [2].
ME	384	403	383	142	132	156	42	Potatoes, hay, apples, oats.
MD	1,620	1,639	1,582	452	394	271	35	Corn, soybeans, hay, tobacco.
MA	170	164	166	163	160	181	40	Cranberries, hay, apples, sweet corn.
MI	7,720	7,685	7,009	1,812	1,835	1,285	16	Corn, hay, soybeans, wheat.
MN	20,746	20,426	19,246	4,113	3,999	2,840	4	Corn, soybeans, hay, wheat.
MS	6,280	5,604	4,878	1,253	1,134	696	29	Cotton lint, soybeans, rice, sorghum.
MO	14,487	14,247	13,252	2,072	2,446	1,766	11	Soybeans, corn, hay, sorghum.
MT	9,179	7,613	9,415	851	522	719	28	Wheat, hay, barley, potatoes.
NE	18,489	18,509	17,473	3,482	3,737	2,541	5	Corn, soybeans, hay, sorghum.
NV	596	565	583	130	125	122	43	Hay, potatoes, barley, wheat.
NH	112	113	112	29	30	29	48	Hay, apples.
NJ	469	466	437	211	217	196	39	Hay, peaches, corn, soybeans.
NM	1,299	1,381	1,179	365	347	258	36	Hay, wheat, sorghum, cotton.
NY	4,028	4,048	3,810	1,025	908	875	23	Hay, corn, apples, potatoes.
NC	5,388	5,418	4,656	2,224	1,870	1,389	15	Tobacco, soybeans, corn, peanuts.
ND	20,962	20,495	20,571	2,338	2,195	1,648	13	Wheat, barley, hay, sunflower.
OH	10,598	10,845	10,257	2,648	2,635	1,972	10	Soybeans, corn, hay, wheat.
OK	8,631	8,978	8,568	1,135	1,034	810	26	Wheat, hay, cotton lint, sorghum.
OR	2,719	2,739	2,709	968	908	847	24	Hay, wheat, potatoes, pears.
PA	4,541	4,569	4,426	1,340	1,177	1,045	20	Hay, corn, mushrooms, apples.
RI	17	17	15	7	6	6	49	Hay, tomatoes, apples.
SC	2,905	2,778	2,179	732	622	377	34	Tobacco, soybeans, corn, cotton lint.
SD	16,180	15,246	15,966	1,748	1,585	1,203	17	Corn, hay, wheat, soybeans.
TN	5,385	5,136	4,666	1,158	1,054	738	27	Soybeans, tobacco, hay, corn.
TX	19,812	21,094	17,749	3,832	3,844	2,454	6	Cotton lint, hay, sorghum, wheat.
UT	1,107	1,129	1,132	250	233	215	37	Hay, wheat, barley, corn.
VT	537	540	530	85	86	82	46	Hay, apples, potatoes.
VA	3,057	3,002	2,810	863	691	544	32	Hay, tobacco, soybeans, corn.
WA	4,769	5,052	4,492	2,020	1,786	1,730	12	Apples, wheat, potatoes, hay.
WV	765	732	683	139	123	99	44	Hay, apples, corn, tobacco.
WI	9,394	9,221	9,013	2,239	2,110	1,534	14	Hay, corn, potatoes, oats.
WY	1,902	1,669	1,963	258	236	212	38	Hay, barley, sugar beets, wheat.

X Not applicable. [1] Excludes Alaska. [2] For sugar and seed. [3] Incomplete data.

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

NO. 1100. PRINCIPAL CROPS—PRODUCTION, SUPPLY AND DISAPPEARANCE: 1982 TO 1986

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

CROP AND YEAR	Acreage harvested (mil.)	Yield per acre	Production	Farm price [1]	Farm value (mil. dol.)	Total supply [2]	DISAPPEARANCE		Ending stocks
							Total [3]	Exports	
Corn for grain:		Bu.	Mil. bu.	$/bu.			Mil. bu.		
1982	72.7	113.2	8,235	2.68	22,039	10,772	7,249	1,834	3,523
1983	51.5	81.1	4,175	3.25	13,535	7,700	6,694	1,901	1,006
1984	71.9	106.7	7,674	2.62	20,085	8,684	7,036	1,865	1,648
1985	75.2	118.0	8,877	2.37	21,029	10,535	6,496	1,241	4,040
1986	69.2	119.3	8,253	[4] 1.49	12,387	12,295	7,180	1,450	5,115
Soybeans for beans:		Bu.	Mil. bu.	$/bu.			Mil. bu.		
1982	69.4	31.5	2,190	5.69	12,463	2,444	2,099	905	345
1983	62.5	26.2	1,636	7.81	12,775	1,981	1,805	743	176
1984	66.1	28.1	1,861	5.78	10,748	2,037	1,721	598	316
1985	61.6	34.1	2,099	5.04	10,571	2,415	1,879	740	536
1986	59.4	33.8	2,007	[4] 4.65	9,326	2,543	1,963	700	580
Hay:		Sh. tons	Mil. sh. tons	$/ton			Mil. sh. tons		
1982	59.8	2.50	149	[5] 69.30	9,530	174.2	146.1	(NA)	28.1
1983	59.7	2.36	141	[5] 75.80	9,967	168.9	148.8	(NA)	20.1
1984	61.4	2.45	151	[5] 72.70	10,204	170.7	143.8	(NA)	26.9
1985	60.4	2.46	149	[5] 67.60	9,437	175.9	149.1	(NA)	26.8
1986	62.3	2.49	155	[5] 60.10	8,644	180.2	(NA)	(NA)	(NA)
Wheat:		Bu.	Mil. bu.	$/bu.			Mil. bu.		
1982	77.9	35.5	2,765	3.55	9,813	3,932	2,417	1,509	1,515
1983	61.4	39.4	2,420	3.53	8,533	3,939	2,540	1,429	1,399
1984	66.9	38.8	2,595	3.38	8,755	4,003	2,578	1,424	1,425
1985	64.7	37.5	2,425	3.15	7,648	3,865	1,961	915	1,905
1986	60.7	34.4	2,087	[4] 2.34	4,861	4,007	2,159	1,025	1,848
Cotton:		Lb.	Mil. bales [6]	¢/lb.			1,000 bales [6]		
1982	9.7	590	[7] 12.0	59.4	3,410	18,615	10,719	5,207	[8] 7,937
1983	7.3	508	[7] 7.8	66.4	2,478	15,721	12,714	6,786	[8] 2,775
1984	10.4	600	[7] 13.0	57.8	3,603	15,781	11,755	6,215	[8] 4,102
1985	10.2	630	[7] 13.4	56.5	3,645	17,567	8,375	1,969	[8] 9,348
1986	8.5	552	[7] 9.7	[4] 52.2	2,441	19,364	13,760	6,750	[8] 5,683
Tobacco: [9]		Lb.	Mil. lb.	$/lb.			Mil. lb.		
1982	.9	2,185	1,994	1.76	3,519	5,582	1,662	628	[10] 3,920
1983	.8	1,811	1,429	1.75	2,496	5,349	1,532	596	3,817
1984	.8	2,183	1,728	1.81	3,121	5,545	1,621	666	[10] 3,924
1985	.7	2,197	1,512	1.65	2,487	5,435	1,620	620	3,815
1986	.6	1,997	1,166	1.53	1,778	5,005	(NA)	(NA)	(NA)
Sorghum for grain:		Bu.	Mil. bu.	$/bu.			Mil. bu.		
1982	14.1	59.1	835	2.52	2,091	1,154	715	210	439
1983	10.0	48.7	488	2.84	1,382	927	639	245	287
1984	15.4	56.4	866	2.39	2,055	1,154	854	297	300
1985	16.8	66.8	1,120	2.28	2,538	1,421	870	178	551
1986	13.9	67.7	942	[4] 1.36	1,316	1,493	780	175	713
Barley:		Bu.	Mil. bu.	$/bu.			Mil. bu.		
1982	9.0	57.2	516	2.22	1,143	674	458	47	217
1983	9.7	52.3	509	2.50	1,269	733	544	92	189
1984	11.2	53.4	599	2.26	1,356	799	551	77	247
1985	11.6	51.0	591	1.98	1,169	848	523	22	325
1986	12.0	50.8	610	[4] 1.56	946	940	625	150	315
Rice, rough:		Lb.	Mil. cwt.	$/cwt.			Mil. cwt.		
1982	3.3	4,710	154	8.11	1,247	203	132	69	71
1983	2.2	4,598	100	8.76	874	172	125	70	47
1984	2.8	4,954	139	8.06	1,119	187	123	62	65
1985	2.5	5,414	135	6.62	893	202	125	59	77
1986	2.4	5,648	134	[4] 3.93	528	214	151	80	63

NA Not available. [1] Except as noted, 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. [2] Comprises production, imports, and beginning stocks. [3] Includes feed, residual, and other domestic uses not shown separately. [4] 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. [5] Prices are for hay sold baled. [6] Bales of 480 pounds, net weight. [7] 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. [8] Stock estimates based on Census Bureau data which results in an unaccounted difference between supply and use estimates and changes in ending stocks. [9] Flue-cured and cigar wrapper, crop year July–June; all other types October–September. Farm-sales-weight basis. [10] Includes tobacco carried over on farms.

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

No. 1101. Price Support Operations—Selected Commodities: 1982 to 1986

[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: [9]	Cents per lb.		1,000 bales [10]	
1982	2.70	[4] 2.55	1,580	19	1982	71.0	57.1	5,007	42
1983	2.86	2.65	162	4	1983	76.0	55.0	1,744	22
1984	3.03	2.55	1,097	14	1984	81.0	55.0	2,957	23
1985	3.03	2.55	3,140	35	1985	81.0	57.3	7,291	55
1986	3.03	[5] 1.92	[6] 4,900	59	1986	81.0	[5] 55.0	[6] 6,175	65
Soybeans: [3]					Sorghum: [3]	Dol. per cwt.		Mil. cwt.	
1982	(X)	5.02	397	18	1982	4.64	[11] 4.32	135	29
1983	(X)	5.02	101	6	1983	4.86	4.50	8	3
1984	(X)	5.02	278	15	1984	5.14	4.32	36	7
1985	(X)	5.02	517	25	1985	5.14	4.32	201	32
1986	(X)	[5] 4.77	[6] 335	17	1986	5.14	[5] 3.25	[6] 220	42
Wheat: [7]					Rice: [9]	Dol. per cwt.		Mil. cwt.	
1982	4.05	[8] 3.55	646	23	1982	10.85	8.14	65	42
1983	4.30	3.65	635	26	1983	11.40	8.14	40	40
1984	4.38	3.30	284	11	1984	11.90	8.00	58	42
1985	4.38	3.30	841	35	1985	11.90	8.00	75	56
1986	4.38	[5] 2.40	[6] 515	25	1986	11.90	[5] 7.20	[6] 132	98

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] National average loan rate for corn put into farmer-owned reserve was $2.90 in 1982. [5] 1986 annual loan rates were reduced 4.3 percent for budget purposes (e.g. corn became $1.84 per bu.). [6] Preliminary. [7] For years beginning June 1. [8] National average loan rate for wheat put into farmer-owned reserve was $4.00 in 1982. [9] For years beginning August 1. [10] Bales of 480 lb. net weight. [11] National average loan rate for grain sorghum put into the farmer-owned reserve was $4.91 in 1982.

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

No. 1102. Corn for Grain—Acreage, Production, and Value, by State: 1984 to 1986

[See *Historical Statistics, Colonial Times to 1970*, series K 502-505, for U.S. data on corn for all purposes]

State	Acreage harvested (1,000 acres)			Yield per acre (bu.) [1]			Production (mil. bu.) [1]			Price [2 3] (dol. per bu.)			Farm value [3] (mil. dol.)		
	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986
U.S. [4]	71,915	75,224	69,189	106.7	116.0	119.3	7,674	8,877	8,253	2.62	2.37	1.49	20,085	21,029	12,387
AL	385	325	270	65.0	75.0	57.0	25	24	15	2.85	2.32	1.85	71	57	28
CA	375	320	250	136.0	145.0	152.0	51	46	38	3.40	3.00	2.25	173	139	86
CO	680	745	710	134.0	139.0	140.0	91	104	99	2.66	2.41	1.60	242	250	159
DE	150	175	169	113.0	109.0	83.0	17	19	14	2.95	2.49	1.80	50	47	25
GA	985	975	730	82.0	84.0	58.0	81	82	42	2.99	2.49	1.90	242	204	80
IL	10,940	11,370	10,400	114.0	135.0	135.0	1,247	1,535	1,404	2.65	2.42	1.50	3,305	3,715	2,106
IN	6,030	6,150	5,700	117.0	123.0	122.0	706	756	695	2.60	2.33	1.50	1,834	1,763	1,043
IA	12,900	13,550	12,050	112.0	126.0	135.0	1,445	1,707	1,627	2.50	2.33	1.40	3,612	3,978	2,277
KS	955	1,170	1,335	125.0	130.0	136.0	119	152	182	2.77	2.43	1.55	331	370	281
KY	1,460	1,560	1,520	100.0	102.0	92.0	146	159	140	2.82	2.47	1.70	412	393	238
LA	82	205	385	115.0	114.0	116.0	9	23	45	3.35	2.60	1.85	32	61	83
MD	590	640	580	118.0	110.0	73.0	70	70	42	2.93	2.48	1.80	204	175	76
MI	2,620	2,730	2,450	84.0	105.0	105.0	220	287	257	2.56	2.30	1.40	563	659	360
MN	6,440	6,300	5,800	107.0	115.0	122.0	689	725	708	2.45	2.25	1.40	1,688	1,630	990
MS	70	115	180	70.0	68.0	75.0	5	8	14	3.40	2.89	2.00	17	23	27
MO	1,930	2,480	2,420	80.0	110.0	116.0	154	273	281	2.68	2.34	1.40	414	638	393
NE	6,950	7,450	7,000	116.0	128.0	128.0	806	954	896	2.56	2.38	1.55	2,064	2,270	1,389
NY	670	720	650	91.0	95.0	99.0	61	68	64	2.85	2.47	1.70	174	169	109
NC	1,620	1,625	1,360	90.0	79.0	69.0	146	128	94	2.80	2.53	1.75	408	325	164
ND	630	560	530	66.0	72.0	93.0	42	40	49	2.54	2.35	1.35	106	95	67
OH	3,900	4,030	3,720	118.0	127.0	128.0	460	512	476	2.59	2.33	1.50	1,192	1,193	714
PA	1,350	1,380	1,240	110.0	110.0	103.0	149	152	128	2.83	2.52	1.80	420	383	230
SC	447	520	460	78.0	88.0	46.0	35	46	21	2.75	2.28	1.65	96	104	35
SD	2,780	3,000	2,850	67.0	84.0	82.0	186	252	234	2.44	2.20	1.35	454	554	315
TN	690	810	770	95.0	98.0	74.0	66	79	57	2.90	2.44	1.60	190	194	91
TX	1,550	1,490	1,330	93.0	105.0	112.0	144	156	149	3.03	2.55	1.85	437	399	276
VA	540	550	400	104.0	99.0	54.0	56	54	22	2.90	2.53	1.75	163	138	38
WA	150	135	120	155.0	160.0	170.0	23	22	20	3.00	2.66	1.85	70	57	38
WI	3,250	3,350	3,100	106.0	107.0	118.0	345	358	366	2.57	2.33	1.45	885	835	530

[1] 56 pounds per bushel. [2] Season average prices for 1984 and 1985; marketing year average prices for 1986. See also footnotes 1 and 4, table 1100. [3] For 1984 and 1985, includes an allowance for loans outstanding and purchases by the Government valued at the average loan and purchase rate, by State. [4] Includes other States not shown separately.

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

No. 1103. Soybeans for Beans—Acreage, Production, and Value, by State: 1984 to 1986

[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] [2] (dol. per bu.)			Farm value [1] (mil. dol.)		
	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986
Total [3]	**66,113**	**61,584**	**59,427**	**28.1**	**34.1**	**33.8**	**1,861**	**2,099**	**2,007**	**5.78**	**5.04**	**4.65**	**10,748**	**10,571**	**9,326**
AR	3,900	3,700	3,300	26.0	26.5	21.0	101	98	69	5.96	5.18	5.00	604	508	347
IL	9,020	9,000	9,150	31.5	42.5	40.0	284	383	366	5.85	5.16	4.75	1,662	1,974	1,739
IN	4,350	4,460	4,250	34.5	41.5	38.0	150	185	162	5.87	5.04	4.65	881	933	751
IA	8,400	8,150	8,750	31.5	38.0	41.5	265	310	363	5.55	4.98	4.50	1,469	1,542	1,634
KS	1,590	1,410	1,760	17.5	31.0	34.0	27	44	60	5.74	4.95	4.50	160	216	269
KY	1,460	1,230	1,170	29.0	34.0	32.0	42	42	37	6.07	5.25	4.90	257	220	183
LA	2,430	2,100	1,820	27.5	21.0	21.0	67	44	38	6.00	5.01	4.65	401	221	178
MI	1,190	1,080	950	27.0	32.0	32.0	32	35	30	5.73	4.94	4.55	184	171	138
MN	5,240	5,000	4,800	33.0	32.0	35.5	173	160	170	5.43	4.96	4.55	939	794	775
MS	3,200	2,620	2,450	24.0	27.0	18.0	77	71	44	6.04	5.16	4.95	464	365	218
MO	5,300	5,230	5,300	20.5	34.5	33.5	109	180	178	5.78	4.96	4.50	628	895	799
NE	2,550	2,360	2,450	26.0	36.0	39.0	66	85	96	5.55	4.86	4.50	368	413	430
NC	1,790	1,700	1,600	26.0	23.0	24.0	47	39	38	5.93	5.03	4.85	276	197	186
ND	740	490	470	23.0	26.0	35.5	17	13	17	5.51	4.79	4.40	94	61	73
OH	3,770	3,870	3,670	36.5	41.5	41.0	138	161	150	5.84	5.10	4.75	804	819	715
SD	1,360	1,270	1,330	23.0	32.0	31.0	31	41	41	5.47	4.82	4.55	171	196	188
TN	1,850	1,460	1,500	26.0	31.0	25.0	48	45	38	5.94	5.09	4.90	286	230	184

[1] For 1984 and 1985 includes allowance for loans outstanding and purchases by the Government valued at the average loan and purchase rate, by State. [2] See footnote 2, table 1102. [3] Includes other States not shown separately.

No. 1104. Wheat—Acreage, Production, and Value, by State: 1984 to 1986

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

State	Acreage harvested (1,000 acres)			Yield per acre (bushels) [1]			Production (mil. bushels) [1]			Price [2] [3] (dol. per bu.)			Farm value [3] (mil. dol.)		
	1984	1985	1986, prel.	1984	1985	1986, prel.	1984	1985	1986, prel.	1984	1985	1986, prel.	1984	1985	1986, prel.
U.S. [4]	**66,928**	**64,734**	**60,688**	**38.8**	**37.5**	**34.4**	**2,595**	**2,425**	**2,087**	**3.38**	**3.15**	**2.34**	**8,755**	**7,648**	**4,861**
AR	1,400	570	780	44.0	32.0	41.0	62	18	32	3.29	3.06	2.50	203	56	80
CA	784	830	675	78.9	83.0	76.3	62	69	52	3.71	3.46	2.80	229	238	144
CO	3,270	3,522	2,955	35.2	39.6	32.6	115	139	96	3.19	2.92	2.16	367	407	208
ID	1,280	1,350	1,310	63.6	53.4	62.4	81	72	82	3.30	3.21	2.28	269	232	187
IL	1,600	750	820	44.0	49.0	44.0	70	37	36	3.27	3.03	2.40	230	111	87
KS	11,200	11,400	10,200	38.5	38.0	33.0	431	433	337	3.32	3.06	2.20	1,432	1,326	741
MN	2,553	2,683	2,814	47.3	53.1	36.8	121	142	104	3.41	3.25	2.35	412	463	243
MT	4,640	3,960	4,760	22.6	12.7	29.1	105	50	139	3.52	3.45	2.43	368	173	337
NE	2,250	2,300	2,000	36.0	39.0	38.0	81	90	76	3.28	2.95	2.10	266	265	160
ND	8,660	8,670	9,380	32.8	36.4	30.9	284	323	290	3.53	3.28	2.38	1,003	1,061	690
OH	1,100	950	1,050	44.0	62.0	46.0	48	59	48	3.31	3.00	2.35	160	177	114
OK	5,300	5,500	5,200	36.0	30.0	29.0	191	165	151	3.36	3.24	2.20	641	535	332
OR	1,115	1,065	1,025	61.8	52.6	57.0	69	56	58	3.47	3.41	2.45	239	191	143
SD	3,662	3,755	3,840	34.4	29.6	28.3	126	111	109	3.46	3.28	2.29	431	365	249
TX	5,000	5,850	4,800	30.0	32.0	25.0	150	187	120	3.39	3.13	2.30	509	586	276
WA	2,610	2,690	2,410	61.4	47.7	48.5	160	128	117	3.45	3.41	2.45	553	437	286

[1] 60 pounds per bushel. [2] See footnote 2, table 1102. [3] See footnote 3, table 1102. [4] Includes other States not shown separately.

No. 1105. Cotton—Acreage, Production, and Value, by State: 1984 to 1986

[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 563–558 for U.S. totals]

State	Acreage harvested (1,000)			Yield per acre (lb.)			Production (1,000 bales) [1]			Farm price per lb. [2] [3] (cents)			Farm value [2] (mil. dol.)		
	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986
Total [4]	**10,379**	**10,229**	**8,468**	**600**	**630**	**552**	**12,982**	**13,432**	**9,731**	**57.8**	**56.5**	**52.2**	**3,603**	**3,645**	**2,441**
AL	307	329	313	699	795	506	447	545	330	55.3	55.6	48.8	119	145	77
AZ	479	415	323	1,187	1,198	1,224	1,185	1,037	823	62.2	60.5	63.0	354	301	249
AR	465	440	480	632	767	602	612	703	602	55.6	56.6	46.9	163	191	136
CA	1,400	1,320	990	999	1,132	1,088	2,913	3,114	2,245	66.8	61.4	62.8	934	918	677
GA	172	245	195	784	725	455	281	370	185	58.4	54.8	52.1	79	97	46
LA	645	630	570	786	565	567	1,056	742	673	54.3	55.7	46.6	275	198	151
MS	1,032	1,040	1,000	767	764	571	1,650	1,655	1,190	54.2	56.6	47.1	429	450	269
MO	162	150	160	554	653	588	187	204	196	57.9	56.8	51.5	52	56	48
TN	325	335	335	498	600	567	337	419	396	56.2	54.5	48.8	91	110	93
TX	4,719	4,669	3,476	377	406	356	3,710	3,945	2,576	52.8	52.7	46.3	940	998	573

[1] Bales of 480 lb. net weight. [2] Includes allowance for unredeemed loans in 1984 and 1985. For 1986, average price to April 1, 1987, with no allowance for unredeemed loans. [3] See footnote 2, table 1102. [4] Includes other States not shown separately.

Source of tables 1103–1105: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Crop Production*, May issue and annual; and *Crop Values*, annual.

No. 1106. Tobacco—Acreage, Production, and Value, by State: 1984 to 1986

[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.)		
	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986	1984	1985	1986
Total [2]	**792**	**688**	**584**	**2,183**	**2,197**	**1,997**	**1,728**	**1,512**	**1,166**	**1.81**	**1.65**	**1.53**	**3,121**	**2,487**	**1,778**
FL	7	6	5	2,560	2,675	2,510	18	16	13	1.80	1.71	1.62	32	28	22
GA	38	36	31	2,250	2,280	2,190	86	82	68	1.83	1.71	1.58	156	140	107
IN	8	7	6	2,320	2,240	2,050	19	15	12	1.87	1.58	1.55	35	23	19
KY	229	186	153	2,320	2,300	2,054	530	428	315	1.85	1.58	1.55	982	678	488
MD	23	20	18	1,320	1,330	1,350	30	27	24	1.40	1.32	(3)	42	35	32
NC	272	251	215	2,172	2,220	2,073	590	557	445	1.81	1.71	1.53	1,067	951	682
OH	12	8	7	2,209	2,140	1,829	27	17	14	1.81	1.52	1.54	48	26	21
SC	47	43	37	2,245	2,300	2,040	106	99	75	1.81	1.73	1.44	191	171	109
TN	75	62	49	2,062	2,065	1,682	155	127	83	1.79	1.57	1.52	277	200	126
VA	54	43	38	2,153	2,104	1,913	116	91	74	1.79	1.69	1.50	207	154	111

[1] See footnote 1, table 1100. [2] Includes other States not shown separately. [3] Evaluated at 132.3 cents per pound.

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

No. 1107. Sugar, Beet and Cane—Supply and Disappearance: 1970 to 1986

[In thousands of short tons, raw value]

Item	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Total supply	**14,392**	**13,132**	**14,828**	**14,621**	**14,110**	**14,380**	**12,441**	**12,003**	**12,043**	**11,807**	**11,637**
United States production	5,874	6,300	5,602	5,793	5,736	6,225	5,936	5,682	5,890	5,969	6,257
Beet	3,511	3,473	3,067	3,066	3,052	3,182	3,160	2,588	3,059	2,869	3,201
Mainland cane [1]	1,201	1,720	1,506	1,667	1,661	1,995	1,793	2,050	1,769	2,086	2,024
Hawaii	1,162	1,107	1,029	1,060	1,023	1,048	983	1,044	1,062	1,014	1,032
Imports	5,296	3,882	4,683	5,027	4,495	5,025	2,964	3,186	3,559	2,797	2,223
Puerto Rico	353	96	52	47	178	48	80	67	24	36	31
Beginning stocks	2,869	2,854	4,491	3,754	3,701	3,082	3,461	3,068	2,570	3,005	3,126
Total disappearance	**10,926**	**10,276**	**11,074**	**10,920**	**11,028**	**10,919**	**9,373**	**9,433**	**9,038**	**8,681**	**8,410**
U.S. consumption	10,532	10,302	10,889	10,756	10,189	9,769	9,160	8,917	8,454	8,035	7,810
Exports	66	216	48	73	689	1,191	137	300	429	464	557
Other [2]	328	−242	137	91	150	−41	76	216	155	182	43

[1] Florida, Louisiana, and beginning 1975, Texas. [2] Includes net change in invisible stocks, balancing items, and minor quantities of sugar for livestock feed and alcohol.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Sugar and Sweetener Outlook and Situation.*

No. 1108. Sugarcane and Sugar Beets, and Sugar—Summary: 1970 to 1986

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

Item	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Sugarcane for sugar and seed:											
Acreage harvested	1,000 acres	584	774	733	733	755	742	768	747	770	796
Yield per acre	Sh. tons	41.1	36.6	36.2	36.8	36.3	40.1	36.7	36.6	36.6	38.1
Production	Mil. tons	24.0	28.3	26.5	27.0	27.4	29.8	28.2	27.3	28.2	30.3
Price per ton for sugar [1]	Dollars	[2] 10.50	21.50	26.00	38.50	24.90	26.50	27.80	28.20	26.70	(NA)
Farm value [3]	Mil. dol	[2] 140	608	691	1,036	682	790	781	770	752	(NA)
Sugar beets:											
Acreage harvested	1,000 acres	1,413	1,517	1,120	1,190	1,228	1,027	1,056	1,096	1,103	1,191
Yield per acre	Sh. tons	18.7	19.6	19.6	19.8	22.4	20.3	19.9	20.2	20.4	21.2
Production	Mil. sh. tons	26.4	29.7	22.0	23.5	27.5	20.9	21.0	22.1	22.5	25.2
Price per ton [1]	Dollars	14.80	27.60	33.90	47.20	29.20	35.40	37.00	33.90	33.80	(NA)
Farm value	Mil. dol	392	821	745	1,109	804	740	778	750	761	(NA)
Sugar produced:											
Beet, raw value [4]	*1,000 tons*	*3,322*	*4,019*	*2,879*	*3,149*	*3,388*	*2,737*	*2,699*	*2,902*	*3,000*	*3,414*
Cane, raw value [4]	1,000 tons	2,416	2,934	2,700	2,728	2,833	3,063	2,930	3,007	3,033	3,281
Per ton of cane [4]	Lb	210	214	213	213	217	215	215	231	226	227
Cane, refined basis [5]	1,000 tons	2,258	2,743	2,524	2,550	2,647	2,863	2,739	2,811	2,835	3,066
Molasses made from sugarcane [6]	Mil. gal	141	183	165	163	183	177	176	174	179	186

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

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

No. 1109. Commercial Vegetable and Other Specified Crops—Area, Production, and Value, 1984 to 1986, and Leading Producing States, 1986

[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, 1986
	1984	1985	1986	1984	1985	1986	1984	1985	1986	
Asparagus	93.3	91.5	96.2	94.8	106.8	111.5	116.5	137.5	137.0	CA, WA, MI.
Beans, snap [4]	216.6	222.2	190.6	666.1	702.5	609.4	113.9	118.8	97.3	WI, OR, NY.
Beans, dry edible	*1,460.3*	*1,481.4*	*1,495.0*	*1,053.5*	*1,108.8*	*1,144.9*	*395.0*	*388.4*	*431.2*	*ND, NE, CA.*
Broccoli	106.5	109.5	119.1	514.1	531.4	576.5	237.9	239.3	239.7	CA, TX, OR.
Carrots	93.6	90.1	86.1	1,186.7	1,145.8	1,171.7	247.9	206.4	235.9	CA, WA, TX.
Cauliflower	60.8	61.2	67.8	334.4	333.2	376.4	174.9	169.1	191.9	CA, AZ, OR.
Celery	35.1	33.9	33.3	937.9	917.5	880.7	228.5	189.5	211.1	CA, FL, MI.
Corn, sweet	620.2	625.9	598.0	3,331.6	3,426.1	3,310.3	367.1	367.5	359.7	MN, WI, OR.
Cucumbers [4]	103.6	115.2	110.5	618.2	694.4	639.6	103.8	123.6	113.4	MI, NC, CA.
Honeydew melons	23.3	25.7	28.8	201.6	237.9	271.9	55.9	58.1	69.1	CA, TX, AZ.
Lettuce	221.9	225.7	216.0	3,215.5	3,090.2	2,931.1	706.3	675.3	701.3	CA, AZ, FL.
Peppermint	67.2	65.1	64.2	2.2	2.2	2.2	47.0	44.0	46.0	OR, WA.
Spearmint	27.9	30.1	28.5	1.0	1.2	1.3	25.4	27.1	28.4	WA, ID.
Onions	*129.4*	*122.8*	*115.3*	*2,182.9*	*2,253.0*	*2,165.1*	*422.5*	*347.2*	*427.7*	*CA, OR, TX.*
Peas, green [4]	330.5	353.6	272.4	495.3	577.8	414.9	117.3	138.5	93.8	WI, MN, WA.
Potatoes	1,301.0	1,361.1	1,215.3	1,813.1	2,035.6	1,772.3	2,045.7	1,570.6	1,739.7	ID, WA, OR.
Strawberries	43.3	44.1	44.4	495.5	509.4	509.7	413.3	450.8	503.6	CA, OR, NY.
Sweet potatoes	103.5	105.3	94.4	649.3	742.7	637.7	182.2	130.5	130.8	NC, LA, CA.
Tomatoes	414.8	390.1	379.2	9,090.6	8,672.0	8,971.0	1,239.6	1,197.9	1,264.9	CA, OH, IN.

[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.

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

No. 1110. Fruits and Nuts—Utilized Production and Value, 1984 to 1986, and Leading Producing States, 1986

Fruit	Utilized production [1]				Farm value (mil. dol.)			Leading States in order of production, 1986
	Unit	1984	1985	1986	1984	1985	1986	
Apples (35 States) [2]	Mil. lb	8,318	7,834	7,865	928	916	1,068	WA, NY, MI.
Apricots	1,000 tons	117	106	55	36	26	22	CA, WA, UT.
Avocados	1,000 tons	230	189	273	128	176	157	CA, FL.
Bananas	Mil. lb	9	8	10	3	2	3	HI.
Cherries, sweet	1,000 tons	164	127	137	100	101	113	WA, OR, MI.
Cherries, tart	Mil. lb	256	280	218	64	63	50	MI, UT, NY.
Cranberries	1,000 bbl. [3]	3,322	3,485	3,680	181	190	189	MA, WI, NJ.
Dates	1,000 tons	22	29	19	18	25	16	CA.
Figs (fresh)	1,000 tons	37	33	47	10	10	12	CA.
Grapefruit (4 States)	Mil. boxes [4]	54	56	58	220	309	335	FL, CA, AZ.
Grapes (12 States)	1,000 tons	5,169	5,607	5,225	981	959	1,170	CA, NY, WA.
Kiwifruit	*1,000 tons*	*17*	*21*	*23*	*18*	*17*	*24*	*CA.*
Lemons (2 States)	Mil. boxes [5]	21	26	18	125	168	218	CA, AZ.
Limes (FL)	Mil. boxes [6]	2	2	2	18	20	21	FL.
Nectarines	1,000 tons	183	210	172	58	69	76	CA.
Olives	1,000 tons	91	96	112	50	54	63	CA.
Oranges and tangerines (4 States)	Mil. boxes [7]	175	162	180	1,343	1,508	1,122	FL, CA, AZ.
Papayas	Mil. lb	81	60	61	9	9	11	HI.
Peaches (32 States)	Mil. lb	2,468	2,046	2,238	321	307	327	CA, SC, NJ.
Pears	1,000 tons	697	747	760	160	201	199	CA, WA, OR.
Pineapples	1,000 tons	600	565	646	90	91	100	HI.
Plums and prunes (fresh)	*1,000 tons*	*721*	*639*	*481*	*161*	*192*	*190*	*CA, OR, MI.*
Pomegranates	1,000 tons	19	19	21	2	6	9	CA.
Tangelos (FL)	Mil. boxes [8]	4	4	4	23	34	19	FL.
Temples (FL)	Mil. boxes [8]	3	3	3	21	26	16	FL.
Almonds (shelled basis)	Mil. lb	590	465	250	446	361	462	CA.
Filberts (in the shell)	1,000 tons	13	25	15	8	17	11	OR, WA.
Macadamia nuts	Mil. lb	38	42	44	26	30	35	HI.
Pecans (in the shell) (11 States)	Mil. lb	232	244	273	145	166	196	GA, TX, LA.
Pistachios	Mil. lb	63	27	75	62	36	89	CA.
Walnuts, English (in the shell)	1,000 tons	213	219	180	155	175	194	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. 1111. Red Meats—Slaughtering, Production, and Trade: 1970 to 1986

[**Quantities represent carcass weight equivalent.** 1970 excludes Alaska and Hawaii except for exports and imports. Covers inspected, noninspected, retail, and farm slaughter. Excludes edible byproducts. Excludes USDA exports, military civilian feeding, and voluntary relief feeding. See also *Historical Statistics, Colonial Times to 1970*, series K 583-594]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
All red meats:												
Animals slaughtered, total	Mil. head	137.3	124.8	128.2	132.3	139.7	136.8	128.8	135.0	133.8	131.3	126.8
Under Federal inspection	Percent	89	91	93	94	94	94	95	95	96	96	96
Production, total [1]	Bil. lb	36.2	36.8	38.6	37.6	39.0	39.0	37.6	39.3	39.3	39.4	39.3
Federally inspected	Percent	89	90	93	94	94	94	95	95	96	96	96
Exports of U.S. production [2]	Mil. lb	305	449	646	673	642	714	680	682	699	646	800
Imports for consumption	Mil. lb	2,429	2,248	2,856	2,974	2,664	2,333	2,589	2,670	2,821	3,255	3,319
Beef:												
Animals slaughtered, total	Mil. head	35.4	41.5	40.0	34.0	34.1	35.3	36.2	37.0	37.9	36.6	37.6
Under Federal inspection	Percent	87	89	93	94	94	94	94	94	95	95	96
Production, total	Bil. lb	21.7	24.0	24.2	21.4	21.6	22.4	22.5	23.2	23.6	23.7	24.4
Federally inspected	Percent	88	90	93	94	94	94	95	95	95	96	96
Exports of U.S. production [2]	Mil. lb	101	110	214	215	220	252	305	312	376	379	573
Imports for consumption	Mil. lb	1,792	1,758	2,297	2,405	2,064	1,743	1,939	1,931	1,823	2,068	2,129
Veal:												
Animals slaughtered, total	Mil. head	4.2	5.4	4.3	2.9	2.7	2.9	3.1	3.2	3.4	3.5	3.5
Under Federal inspection	Percent	72	72	87	89	89	89	88	88	90	92	92
Production, total	Mil. lb	588	873	632	434	400	436	448	454	495	514	524
Federally inspected	Percent	57	57	71	73	74	74	76	78	82	86	87
Lamb and mutton:												
Animals slaughtered, total	Mil. head	10.8	8.1	5.5	5.2	5.7	6.2	6.6	6.8	6.9	6.3	5.8
Under Federal inspection	Percent	93	94	96	96	96	96	94	94	95	95	95
Production, total	Mil. lb	551	410	309	293	318	338	365	376	380	357	337
Federally inspected	Percent	93	94	94	94	94	94	95	95	95	96	96
Pork:												
Animals slaughtered, total	Mil. head	87.0	69.8	78.4	90.2	97.2	92.5	82.8	88.1	85.6	84.9	80.0
Under Federal inspection	Percent	90	93	96	96	96	96	96	96	96	97	97
Production, total [1]	Bil. lb	13.4	11.5	13.4	15.5	16.6	15.9	14.2	15.2	14.8	14.8	14.1
Federally inspected	Percent	90	93	95	95	95	95	96	96	96	97	97

[1] Excludes lard. [2] Includes shipments to territories.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Livestock and Meat Statistics*, annual.

No. 1112. Livestock Inventory and Production: 1970 to 1987

[See also *Historical Statistics, Colonial Times to 1970*, series K 564-569 and 575-582]

TYPE OF LIVESTOCK	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986	1987
ALL CATTLE												
Inventory: [1] Number on farms	Mil	112.4	132.0	110.9	111.2	114.4	115.4	115.0	113.7	109.7	105.5	102.0
Total value	Bil. dol	20.2	21.0	44.7	55.8	54.1	47.9	46.7	45.0	44.1	41.3	41.5
Value per head	Dol	179	159	403	502	473	415	406	396	402	391	407
Production: Quantity [2]	Bil. lb	39.4	40.9	38.8	40.3	41.2	40.7	40.3	40.0	40.2	40.5	(NA)
Beef, price per 100 lb	Dol	27.10	32.20	66.10	62.40	58.60	56.70	55.50	57.30	53.70	52.60	(NA)
Calves, price per 100 lb	Dol	34.50	27.20	88.70	76.80	64.00	59.80	61.70	59.90	62.10	61.10	(NA)
Value of production	Bil. dol	10.9	12.8	26.2	25.5	23.7	22.6	22.0	22.1	21.2	20.9	(NA)
HOGS AND PIGS												
Inventory: [3] Number on farms	Mil	57.0	54.7	60.4	67.3	64.5	58.7	54.5	56.7	54.1	52.3	51.0
Total value	Bil. dol	2.2	2.5	5.0	3.8	4.8	4.1	4.9	3.3	4.1	3.6	4.7
Value per head	Dol	39.00	44.90	83.20	56.00	74.70	70.10	89.90	58.80	75.00	69.60	91.60
Production: Quantity [2]	Bil. lb	21.8	16.8	22.6	23.4	21.8	19.7	21.2	20.2	20.2	19.4	(NA)
Price per 100 lb	Dol	22.70	46.10	41.80	38.00	43.90	52.30	46.80	47.10	44.00	49.30	(NA)
Value of production	Bil. dol	5.0	7.8	9.4	8.9	9.5	10.3	9.9	9.5	8.9	9.5	(NA)
SHEEP AND LAMBS												
Inventory: [1] Number on farms	Mil	20.4	14.5	12.4	12.7	12.9	13.0	12.1	11.5	10.4	10.0	10.3
Total value	Mil. dol	513	442	891	993	904	742	629	599	638	673	782
Value per head	Dol	25.10	30.50	72.10	78.20	69.90	57.10	51.80	52.10	61.10	67.40	75.70
Production: Quantity [2]	Mil. lb	1,099	785	705	746	772	785	768	694	694	721	(NA)
Sheep, price per 100 lb	Dol	7.52	11.30	25.70	21.30	21.20	19.50	15.70	16.40	23.90	25.50	(NA)
Lambs, price per 100 lb	Dol	26.40	42.10	66.70	63.60	54.90	53.10	53.90	60.10	67.70	69.00	(NA)
Value of production	Mil. dol	260	303	407	403	359	356	357	377	428	444	(NA)

NA Not available. [1] As of Jan. 1. [2] Liveweight production. Adjustment made for changes in inventory and for inshipments. [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. 1113. Livestock on Farms—Number, Production, and Value, by State: 1986 and 1987

State	All cattle			Milk cows			Sheep and lambs			Hogs and pigs		
	Number on farms, [1] 1987 (1,000)	Quantity produced, [2] 1986 (mil. lb.)	Value of production, 1986 (mil. dol.)	Number on farms, [1] [3] 1987 (1,000)	Milk produced on farms, 1986 (mil. lb.)	Value of milk produced, [4] 1986 (mil. dol.)	Number on farms, [1] 1987 (1,000)	Quantity produced, [2] 1986 (mil. lb.)	Value of production, 1986 (mil. dol.)	Number on farms, [5] 1986 (1,000)	Quantity produced, [2] 1986 (mil. lb.)	Value of production, 1986 (mil. dol.)
U.S. [6]	**102,031**	**40,465**	**20,925**	**10,547**	**144,080**	**18,147**	**10,328**	**720.7**	**443.6**	**50,960**	**19,362**	**9,532**
AZ	1,000	552.3	287.3	87	1,368	173.7	283	9.8	3.4	155	59.9	32.7
AR	1,840	578.6	272.7	62	755	104.2	–	–	–	460	200.3	92.2
CA	4,750	1,783.1	836.7	980	17,235	2,069.5	980	74.7	47.0	150	60.4	31.5
CO	2,600	1,750.9	1,000.2	78	1,188	163.3	690	49.5	30.7	190	73.5	37.8
FL	2,140	548.4	266.4	178	2,153	348.8	–	–	–	140	50.0	23.0
GA	1,650	435.4	194.3	100	1,260	175.1	–	–	–	1,100	378.8	195.4
ID	1,550	775.9	388.9	162	2,394	280.1	314	29.8	18.0	80	29.5	14.2
IL	2,250	842.1	475.8	215	2,801	350.1	119	9.7	5.7	5,000	2,017.2	981.2
IN	1,470	427.5	209.7	201	2,456	307.0	91	7.0	4.0	4,150	1,553.5	764.9
IA	4,650	2,136.7	1,146.2	308	3,879	465.5	375	33.1	21.7	12,600	5,122.2	2,514.0
KS	5,920	2,964.6	1,684.4	112	1,301	166.5	236	19.5	12.6	1,450	608.2	287.9
KY	2,450	752.5	362.2	223	2,327	293.2	32	2.1	1.2	880	315.8	161.6
MI	1,325	466.1	208.7	370	5,404	682.4	106	8.7	5.2	1,250	417.2	202.1
MN	3,150	1,439.1	708.4	855	10,614	1,257.8	237	21.0	13.3	4,260	1,479.2	752.8
MO	4,600	1,370.0	723.2	217	2,930	360.4	110	8.0	5.2	2,900	1,098.8	550.4
MT	2,400	904.0	468.4	24	337	43.1	523	35.8	22.2	190	65.1	27.3
NE	5,500	3,318.2	1,894.7	103	1,350	166.1	173	13.1	8.3	3,900	1,381.6	688.1
NM	1,360	616.4	308.2	61	1,092	142.5	480	20.7	13.4	36	12.9	6.5
NY	1,885	313.5	126.1	914	11,744	1,486.6	64	3.6	2.2	128	32.7	15.5
NC	950	319.4	142.3	114	1,695	237.3	13	.7	.3	2,360	876.0	432.5
ND	1,900	752.5	400.4	92	1,074	121.4	185	15.5	9.9	275	98.4	47.4
OH	1,800	611.4	309.1	370	4,936	619.8	300	20.0	12.7	1,950	707.3	344.3
OK	5,200	2,256.2	1,148.1	107	1,190	157.1	105	7.7	4.7	220	82.0	40.9
OR	1,400	540.7	253.9	92	1,471	187.6	415	27.3	17.0	115	51.1	26.0
PA	1,950	594.4	281.5	735	10,152	1,332.6	104	6.2	3.7	890	238.5	120.0
SD	3,600	1,486.7	804.3	149	1,723	199.9	605	52.2	35.7	1,520	630.7	311.7
TN	2,400	764.2	337.2	203	2,221	292.2	13	.5	.3	770	340.4	158.9
TX	13,400	5,554.0	2,978.5	325	4,089	560.4	1,930	115.0	69.6	510	176.7	83.1
UT	770	283.4	153.8	74	1,155	139.9	464	37.0	22.7	25	6.9	3.2
VA	1,860	687.2	324.2	150	2,096	272.5	168	14.4	5.8	360	167.9	81.5
WA	1,300	553.3	294.3	201	3,762	469.0	59	5.9	3.4	50	15.1	7.2
WI	4,260	1,278.6	626.6	1,840	25,200	3,065.0	83	6.5	4.3	1,330	517.6	253.8
WY	1,325	458.4	246.0	10	131	15.7	775	47.3	26.1	35	14.5	7.2

– Represents zero. [1] As of January 1. [2] Liveweight production. Adjustment made for changes in inventory and for inshipments. [3] Represents cows and heifers that have calved, kept for milk. [4] Valued at average returns per 100 pounds of milk in combined marketings of milk and cream. Includes value of milk fed to calves. [5] As of December 1. [6] Includes other States, not shown separately.

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

No. 1114. Poultry—Production, by State: 1985 and 1986

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

State	Chickens sold		Broilers produced		Turkeys raised	
	1985	1986	1985	1986	1985	1986
U.S	**220**	**217**	**4,479**	**4,646**	**185**	**207**
AL	9.0	10.0	561.8	587.6	(z)	(z)
AR	17.3	16.0	760.0	786.8	16.0	16.5
CA	19.0	19.7	174.3	184.8	20.5	21.9
CT	3.6	3.1	(z)	(z)	(z)	(z)
DE	.8	.8	196.4	196.8	(z)	(z)
FL	9.3	5.2	104.2	111.9	(z)	(z)
GA	17.5	16.5	667.2	697.4	2.6	2.4
IL	3.2	2.0	(z)	(z)	.3	.3
IN	16.3	16.6	(D)	(D)	6.9	9.4
IA	5.0	4.5	2.0	2.7	6.3	7.0
KY	1.3	1.3	3.2	3.0	(z)	(z)
LA	1.3	1.2	(D)	(D)	(z)	(z)
ME	5.1	4.6	(D)	(D)	(z)	(z)
MD	2.4	2.6	272.4	263.9	.1	(D)
MA	1.1	1.2	(z)	(z)	.1	.1
MI	5.5	5.3	1.3	.6	2.3	2.7
MN	7.5	7.7	26.9	29.7	30.4	34.2
MS	7.4	7.8	328.7	335.7	(z)	(z)
MO	5.0	4.0	(D)	(D)	12.5	13.5
NY	6.8	5.6	1.8	2.0	.3	.3
NC	11.7	11.8	447.3	450.5	31.9	39.1
OH	11.0	11.9	9.0	9.9	2.8	3.1
OK	3.4	3.1	61.7	79.5	(D)	(D)
OR	1.8	1.5	14.4	15.8	1.3	1.5
PA	13.2	16.5	94.7	101.9	7.1	7.8
SC	4.0	4.5	60.4	63.8	2.9	3.9
TN	2.7	1.9	(D)	(D)	(z)	(z)
TX	9.3	10.3	215.9	238.6	(D)	(D)
VA	2.0	2.6	154.1	154.2	13.1	14.3
WA	3.0	3.4	23.0	25.1	(z)	(z)
WV	.5	.4	25.7	29.0	2.4	2.2
WI	1.9	2.2	11.2	11.6	6.2	6.1
Other [1]	11.5	11.1	261.1	263.5	19.4	20.9

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

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

No. 1115. Poultry—Number on Farms, Value, Production, and Prices: 1970 to 1986

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

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Chickens: [1] Number [2]	Million	433	380	397	401	392	385	379	365	374	369	369
Value per head [2]	Dollars	1.21	1.74	1.75	1.81	1.88	1.89	1.85	1.96	2.02	1.90	1.87
Value, total [2]	Mil. dol	525	660	696	726	737	728	703	717	754	700	690
Number produced [3]	Million	264	233	242	251	241	242	246	232	242	220	217
Price per lb [3]	Cents	9.1	9.9	12.4	13.9	11.0	11.1	10.3	12.7	15.9	14.8	12.5
Production value [3]	Mil. dol	107	105	142	171	129	135	121	145	181	152	128
Eggs: Number produced	Mil. doz	5,684	5,386	5,596	5,767	5,807	5,819	5,810	5,681	5,686	5,701	5,710
Price per dozen	Cents	39.1	52.4	52.2	58.3	56.3	63.1	59.5	61.1	72.3	57.1	61.6
Production value	Mil. dol	2,221	2,819	2,921	3,360	3,268	3,671	3,459	3,469	4,110	3,253	3,515
Broilers: [4] Number produced	Million	2,987	2,950	3,614	3,951	3,963	4,148	4,149	4,184	4,282	4,479	4,646
Price per lb	Cents	13.6	26.3	26.3	26.0	27.7	28.4	26.9	28.6	33.7	30.1	34.5
Production value	Mil. dol	1,475	2,915	3,676	4,032	4,303	4,699	4,502	4,873	6,018	5,680	6,780
Turkeys, number raised	Million	116	124	139	156	165	171	165	171	171	185	207
Price per lb	Cents	22.6	34.8	43.6	41.1	41.3	38.2	39.5	38.0	48.9	49.1	47.1
Gross income	Mil. dol	498	793	1,157	1,214	1,272	1,248	1,255	1,269	1,655	1,819	1,952

[1] Excludes commercial broilers. [2] As of Dec. 1. [3] Beginning 1985, represents number sold and value of sales. [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 production of chickens.

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

No. 1116. Dairying—Cows and Dairy Products: 1970 to 1986

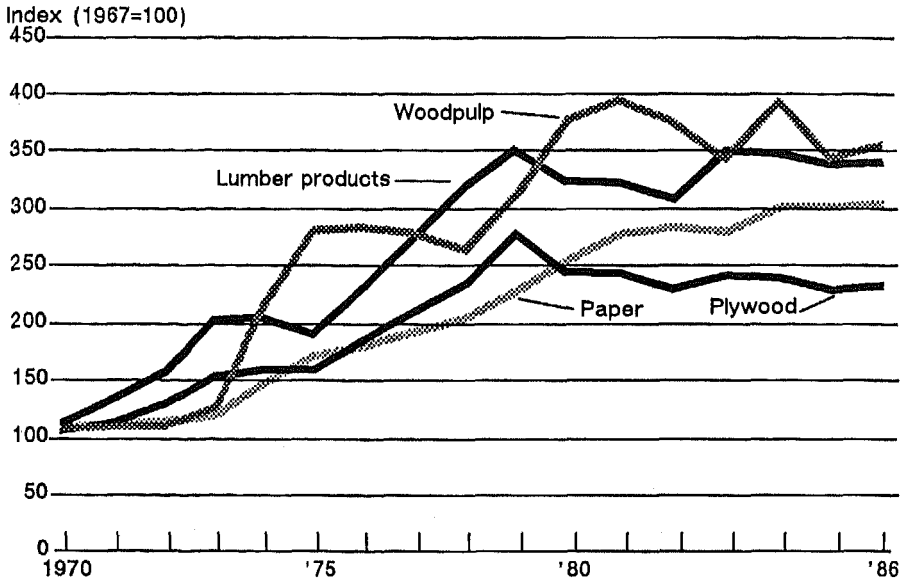
[See also *Historical Statistics, Colonial Times to 1970*, series K 595–608]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986
Cows and heifers that have calved, kept for milk, Jan. 1 [1]	Mil. head	13.3	11.1	10.8	10.8	11.0	11.0	11.1	10.8	11.2
Milk produced on farms	Bil. lb	117	115	128	133	136	140	135	143	144
Production per cow	1,000 lb	9.8	10.4	11.9	12.2	12.3	12.6	12.6	13.0	13.3
Whole milk sold from farms [2]	Bil. lb	113	112	126	130	133	137	133	141	142
Sales to plants and dealers	Bil. lb	110	110	125	129	132	136	131	139	140
Value of milk produced	Bil. dollars	6.8	10.2	16.9	18.4	18.6	19.1	18.3	18.4	18.1
Gross farm income, dairy products	Bil. dollars	6.7	10.1	16.7	18.2	18.3	18.9	18.1	18.2	17.9
Cash receipts from marketing of milk and cream [2]	Bil. dollars	6.5	9.9	16.6	18.1	18.2	18.8	17.9	18.1	17.8
Sales to plants and dealers	Bil. dollars	6.3	9.7	16.3	17.8	17.9	18.5	17.7	17.8	17.6
Manufactured dairy products:										
Butter (incl. whey butter)	Mil. lb	1,137	984	1,145	1,228	1,257	1,299	1,103	1,248	1,202
Cheese, total [3]	Mil. lb	2,201	2,811	3,984	4,278	4,542	4,819	4,674	5,081	5,209
American (excl. full-skim American)	Mil. lb	1,428	1,660	2,376	2,642	2,752	2,928	2,648	2,855	2,798
Swiss (including block)	Mil. lb	144	174	219	214	221	209	208	223	227
Muenster, Brick, and Limburger [4]	Mil. lb	59	74	87	82	87	85	93	103	109
Cream and Neufchatel	Mil. lb	126	160	229	241	263	270	276	294	322
All Italian varieties	Mil. lb	394	672	983	984	1,088	1,200	1,319	1,491	1,633
Cottage cheese: Creamed [5]	Mil. lb	1,038	991	825	773	749	743	736	716	705
Curd, pot, and bakers'	Mil. lb	726	701	667	648	629	618	606	599	600
Condensed bulk milk	Mil. lb	1,237	1,041	952	972	975	984	1,159	1,232	1,362
Evaporated and condensed canned milk	Mil. lb	1,293	938	725	758	754	710	666	656	602
Dry whole milk	Mil. lb	69	63	83	93	102	111	120	119	122
Nonfat dry milk solids [6]	Mil. lb	1,456	1,009	1,168	1,322	1,410	1,510	1,168	1,398	1,294
Dry whey [7]	Mil. lb	621	596	690	779	791	892	898	987	1,031
Dry buttermilk	Mil. lb	60	43	44	44	39	46	43	52	66
Ice cream of all kinds	Mil. gal	762	837	830	832	852	882	894	901	924
Milk sherbet	Mil. gal	49	49	45	46	46	48	47	48	50
Ice milk	Mil. gal	287	299	293	291	281	295	300	301	315
Wholesale prices, American cheese:										
40-lb. blocks, Wis. assembly points	Cents per lb	55.0	86.6	133.0	139.4	138.3	138.3	136.0	127.7	127.3
Single daisies, Chicago	Cents per lb	64.9	104.4	156.2	167.2	168.4	168.2	170.4	160.1	157.5
Prices received by farmers, whole milk:										
Wholesale, per 100 lb	Dollars	5.71	8.75	13.05	13.77	13.61	13.58	13.46	12.75	12.51
Sold directly to consumers	Cents per qt	27.0	35.4	45.3	48.3	48.1	48.4	49.2	48.7	48.4

[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 1975, includes full-skim. [4] Beginning 1986, excludes limburger. [5] Includes partially creamed (low fat). [6] Includes dry skim milk for animal feed. [7] Includes animal but excludes modified whey production.

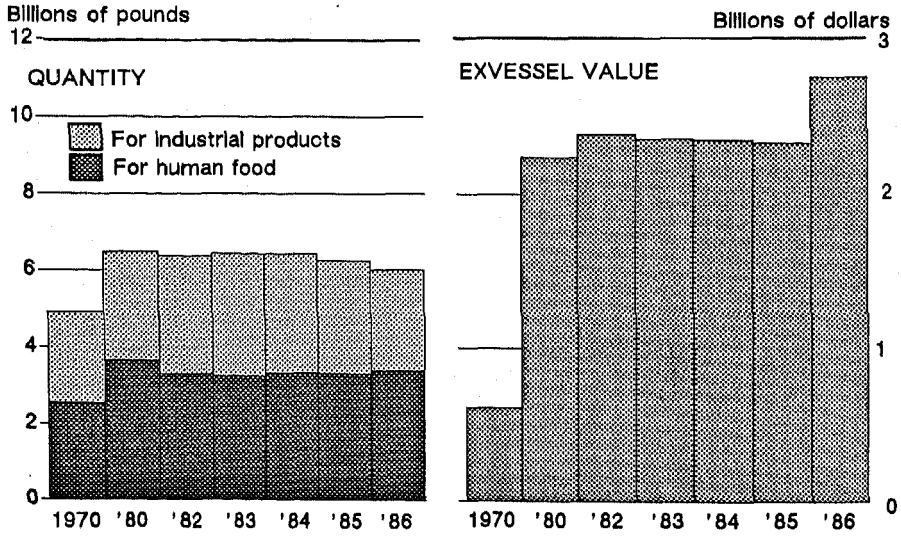
Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Production of Manufactured Dairy Products*, annual; and *Milk Production, Disposition, and Income*, annual.

Figure 24.1
Selected Timber Products– Producer Price Indexes: 1970 to 1986

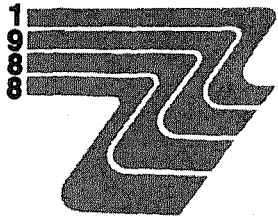


Source: Chart prepared by U.S. Bureau of the Census. For data see table 1124.

Figure 24.2
Fisheries–Quantity and Value of Domestic Catch: 1970 to 1986



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1136.



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, 1952-2030, Appendix 3; U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-86;* and *Land Areas of the National Forest System,* issued annually by the Forest Service of the Department of Agriculture; *Agricultural Statistics* issued by the Department of Agriculture; and reports of the census of manufactures (taken every five years) and the annual *Current Industrial Reports,* issued by the Bureau of the Census. Additional information is published in the monthly *Survey of Current Business* of the Bureau of Economic Analysis; and the annual *Wood Pulp and Fiber Statistics* and *The Statistics of Paper, Paperboard, and Wood Pulp* of the American Paper Institute, New York, NY.

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

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand volumes are much more reliable for areas which have been recently surveyed than for those for which only estimates are available. Estimates of fire damage or causes of fires for Federal lands are considered much better than those for private lands. 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, 1986.* 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.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986.* For cross-references, see Appendix V.

No. 1117. National Forest Lands and Purchases: 1960 to 1986

[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	1965	1970	1975	1980	1982	1983	1984	1985	1986
Gross area [1]	Mil. acres	227	226	226	226	226	230	230	230	230	230
National Forest System	Mil. acres	186	187	187	188	187	191	191	191	191	191
Approved for purchase	1,000 acres	8	29	92	12	42	2	7	8	16	23
Average price per acre	Dollars	15	47	125	275	664	675	332	544	431	308
Total price	Mil. dol	.1	1.3	11.5	3.3	27.9	1.5	2.4	4.2	6.9	7.0
Purchases completed	1,000 acres	8	33	113	34	27	13	31	35	7	33
Average price per acre	Dollars	31	39	96	267	617	409	330	407	653	295
Total price	Mil. dol	.2	1.3	10.9	9.1	17.1	5.2	10.0	14.0	4.2	9.8
Gross area of purchase units	Mil. acres	56	56	56	56	56	58	58	58	58	58
Purchase completed, net area [2]	Mil. acres	19	19	20	20	20	20	20	20	20	20
Average price per acre	Dollars	4	4	6	9	12	14	15	15	15	15
Total price	Mil. dol	75	79	125	179	250	284	294	298	302	302

[1] Comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, national grasslands, and land utilization projects (research and experimental areas, and other areas). [2] 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. 1118. National Forest System—Summary: 1960 to 1986

[**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	1960	1970	1975	1980	1981	1982	1983	1984	1985	1986
Timber cut, total value	Mil. dol	157.1	308.6	368.4	736.6	728.9	348.7	655.9	763.9	724.5	789.9
Commercial and cost sales: [1]											
Volume	Mil. bd. ft	9,367	11,527	9,174	9,178	8,036	6,747	9,244	10,549	10,941	11,786
Value	Mil. dol	156.4	307.6	366.0	729.8	720.9	339.2	649.7	759.6	720.6	786.9
Free use:											
Volume	Mil. bd. ft	123	179	618	2,070	2,107	2,343	1,071	570	399	308
Value [2]	Mil. dol	.2	.3	1.1	5.7	6.4	7.5	4.5	2.6	2.2	1.4
Misc. forest products:											
Value	Mil. dol	.5	.7	1.4	1.1	1.6	2.0	1.7	1.7	1.7	1.6
Livestock grazing: [3]											
Cattle and horses [4]	1,000	1,307	1,607	1,626	1,521	1,535	1,562	1,609	1,521	1,565	1,491
Sheep and goats	1,000	2,574	2,105	1,549	1,328	1,341	1,340	1,242	1,129	1,183	1,166
Roads and trails:											
Road construction [5]	Miles	851	942	136	925	1,217	1,867	2,016	1,667	1,903	1,252
Trail construction [5] [6]	Miles	142	278	298	2,419	727	782	959	874	987	1,092
Receipts, total	Mil. dol	148.2	299.7	373.1	702.9	680.7	350.2	495.3	637.3	635.9	831.7
Timber use	Mil. dol	140.1	283.9	341.3	625.4	581.4	251.0	398.5	544.3	514.6	745.1
Grazing use	Mil. dol	4.5	4.4	7.7	15.8	14.9	12.4	10.2	9.6	9.0	8.6
Special land use, etc	Mil. dol	3.6	11.4	24.1	61.6	84.4	86.8	86.6	83.5	112.3	78.0
Payments to local govt. [7]	Mil. dol	36.1	72.8	91.0	240.1	243.0	144.3	203.5	235.3	229.0	270.9
25-percent fund [8]	Mil. dol	35.4	71.9	89.8	233.6	230.5	132.6	192.7	224.9	212.2	262.1
Other [9]	Mil. dol	.7	.9	1.2	6.5	12.5	11.7	10.8	10.4	16.8	8.8
Allotments to Forest Service, total [10]	Mil. dol	14.9	29.5	39.5	73.1	68.2	35.2	49.0	62.3	60.0	82.1
Roads and trails	Mil. dol	14.2	28.8	35.9	65.5	60.9	29.4	44.5	58.0	55.5	78.0
Other	Mil. dol	.7	.8	3.6	7.6	7.3	5.8	4.5	4.3	4.5	4.1

[1] Includes land exchanges. [2] Includes some free use timber not reducible to board feet. [3] For 1960-1970, data for livestock permitted to graze; 1975 for authorized use; 1980-1986 for number actually grazed. Calendar-year data. Excludes Puerto Rico. [4] Excludes animals under 6 months of age. 1960-1970 includes swine. Includes burros beginning in 1980. [5] Includes reconstruction. 1960 excludes national grasslands. [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, 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. 1119. Forest Land—Total and Commercial Area, Volume of Sawtimber, and Growing Stock: 1952 to 1977

[As of **Jan. 1**. For composition of regions, see source]

Year and region	Total forest land (mil. acres)	Commercial timberland, ownership [1]					Sawtimber net volume [3]			Growing stock, net volume [4] (bil. cu. ft.)
		All ownerships (mil. acres)	Federally owned or managed [2] (mil. acres)	State, county, and municipal (mil. acres)	Private		Total (bil. bd. ft.)	Softwood (bil. bd. ft.)	Hardwood (bil. bd. ft.)	
					Total (mil. acres)	Percent of total				
United States, 1952	**664**	**499**	**117**	**27**	**356**	**71.3**	**2,512**	**2,066**	**446**	**603**
North	209	169	13	18	137	81.1	249	59	190	111
South	197	192	14	3	175	91.1	409	197	213	136
West	258	138	89	6	43	31.2	1,854	1,811	44	356
United States, 1962	**759**	**509**	**117**	**27**	**366**	**71.9**	**2,516**	**2,033**	**484**	**648**
North	178	171	12	18	140	81.9	282	70	212	137
South	220	200	14	3	183	91.5	465	246	219	156
West	360	139	90	6	42	30.2	1,769	1,717	52	354
United States, 1970	**754**	**496**	**112**	**30**	**355**	**71.6**	**2,538**	**2,002**	**537**	**680**
North	186	169	12	18	138	81.7	320	83	237	156
South	212	193	14	3	175	90.7	535	296	239	177
West	355	135	85	8	42	31.1	1,684	1,623	61	348
United States, 1977	**737**	**482**	**105**	**30**	**347**	**72.0**	**2,579**	**1,985**	**594**	**711**
North	178	166	12	19	136	81.9	359	97	263	173
South	207	188	14	3	170	90.4	615	341	274	202
West	352	128	79	8	41	32.0	1,605	1,548	57	336

[1] Commercial timberland is forest land which 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 commercial 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] Net volume of the sawlog portion of live sawtimber trees in board feet, International ¼-inch log rule. [4] Net volume in cubic feet of live sawtimber and poletimber trees from stump to a minimum 4-inch top (of central stem) outside bark or to the point where the central stem breaks into limbs.

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States, 1952–2030*, Appendix 3.

No. 1120. National Forest Lands—States and Other Areas: 1986

[**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 lands	Other lands within unit boundaries	State	Gross area within unit boundaries [1]	National forest system lands	Other lands within unit boundaries
Total	**230,007**	**190,832**	**39,175**	NE	442	352	90
				NV	5,426	5,162	264
				NH	819	706	114
				NM	10,384	9,326	1,058
				NY	13	13	–
				NC	3,165	1,219	1,947
				ND	1,106	1,106	(z)
				OH	833	179	654
				OK	451	296	156
				OR	17,481	15,614	1,866
				PA	743	511	232
AL	1,274	647	627				
AK	24,018	22,811	1,207	SC	1,382	611	770
AZ	11,934	11,274	659	SD	2,347	1,997	350
AR	3,502	2,483	1,019	TN	1,212	626	586
CA	24,324	20,503	3,821	TX	1,994	752	1,243
CO	16,030	14,446	1,584	UT	9,130	8,043	1,086
CT	(z)	(z)	–	VT	630	325	304
FL	1,224	1,100	125	VA	3,226	1,637	1,588
GA	1,855	867	989	WA	10,045	9,137	908
HI	(z)	(z)	–	WV	1,361	978	883
ID	21,706	20,444	1,262	WI	2,023	1,507	516
				WY	9,717	9,255	462
IL	840	263	576				
IN	644	188	456	PR	56	28	28
KS	117	108	9	VI	(z)	(z)	–
KY	2,102	681	1,421				
LA	1,023	600	423				
ME	94	51	42				
MI	4,873	2,766	2,107				
MN	5,467	2,805	2,662				
MS	2,310	1,147	1,163				
MO	3,082	1,471	1,610				
MT	19,093	16,798	2,295				

– Represents zero. Z Less than 500 acres. [1] See footnote 1, table 1117.

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

No. 1121. Timber-Based Industries—Employment and Average Hourly Earnings: 1970 to 1986

[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	1975	1980	1984	1985	1986	1970	1975	1980	1984	1985	1986
24	Lumber and wood products [2]	554	517	578	590	584	597	2.96	4.26	6.55	8.03	8.22	8.33
241	Logging camps and contractors	(NA)	59	71	68	67	70	(NA)	5.28	8.64	10.70	10.92	10.84
242	Sawmills and planing mills	196	180	190	180	172	172	2.84	4.34	6.70	8.42	8.52	8.56
243	Millwork, plywood, and structural members	(NA)	137	164	185	190	203	(NA)	4.26	6.41	7.81	8.06	8.20
26	Paper and allied products	543	480	523	512	512	511	3.44	5.01	7.84	10.41	10.83	11.18
25	Furniture and fixtures	362	337	376	390	394	397	2.77	3.78	5.49	6.84	7.17	7.46

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

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

No. 1122. Timber Products—Production, Foreign Trade, and Consumption, by Type of Product: 1960 to 1985

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

ITEM	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985, prel.
Industrial roundwood:										
Domestic production [1]	8,920	11,105	10,575	12,955	12,090	11,090	10,825	12,010	12,685	12,420
Softwoods	6,930	8,635	8,380	10,135	9,280	8,485	8,410	9,275	9,790	9,635
Hardwoods	1,995	2,470	2,195	2,815	2,810	2,605	2,410	2,735	2,895	2,780
Imports	1,680	2,430	2,215	3,655	3,250	3,165	3,015	3,710	4,165	4,335
Exports	455	1,540	1,685	2,135	2,350	2,090	1,995	2,110	2,060	2,065
Consumption [2]	10,145	11,995	11,105	14,470	12,995	12,160	11,840	13,610	14,790	14,690
Softwoods	8,065	9,425	8,875	11,605	10,335	9,655	9,540	10,960	11,965	11,930
Hardwoods	2,080	2,565	2,230	2,865	2,660	2,510	2,300	2,650	2,825	2,760
Lumber:										
Domestic production	[3] 5,080	5,215	4,890	6,115	5,300	4,780	4,635	5,370	5,770	5,640
Imports	610	955	930	1,800	1,540	1,490	1,460	1,915	2,130	2,345
Exports	135	195	255	340	395	380	320	360	340	305
Consumption	5,560	5,970	5,565	7,580	6,450	5,885	5,780	6,925	7,560	7,680
Plywood and veneer:										
Domestic production	705	1,020	1,165	1,370	1,175	1,180	1,135	1,365	1,400	1,410
Imports	60	170	170	195	120	140	115	160	145	165
Exports	(z)	15	70	45	45	70	50	65	45	40
Consumption	765	1,170	1,265	1,520	1,250	1,250	1,200	1,460	1,500	1,535
Pulp products:										
Domestic production	2,575	3,835	3,485	4,110	4,390	4,125	3,980	4,165	4,355	4,165
Imports	985	1,280	1,105	1,635	1,565	1,515	1,415	1,605	1,860	1,810
Exports	275	720	715	805	1,070	995	900	965	930	920
Consumption	3,290	4,400	3,875	4,935	4,885	4,645	4,495	4,805	5,290	5,055
Logs:										
Imports	20	25	15	25	25	20	20	30	30	20
Exports	45	465	455	670	560	425	550	565	600	655
Pulpwood chips, exports	–	145	195	280	275	220	175	155	145	145
Other industrial prod. [4] consumption	510	425	385	410	390	350	345	390	410	400
Fuelwood consumption	1,300	540	570	2,270	3,190	3,225	3,480	3,425	3,635	(NA)

– Represents zero. NA Not available. Z Less than 500,000 cubic feet. [1] Includes log exports. [2] Includes log imports. [3] Excludes Alaska and Hawaii. [4] Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, etc.

No. 1123. Timber Products—Per Capita Consumption: 1960 to 1985

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

PRODUCT	Unit	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985, prel.
All products	Cu. ft	63.3	61.1	54.1	74.4	71.0	66.9	65.9	72.6	77.7	(NA)
Industrial roundwood	Cu. ft	56.1	58.5	51.4	64.3	57.0	52.8	50.9	58.0	62.4	61.4
Lumber	Cu. ft	30.8	29.1	25.8	33.7	28.3	25.6	24.9	29.5	31.9	32.1
Plywood and veneer	Cu. ft	4.2	5.7	5.9	6.8	5.5	5.4	5.2	6.2	6.3	6.4
Pulp products	Cu. ft	18.2	21.4	17.9	21.9	21.4	20.2	19.3	20.5	22.3	21.1
Other products	Cu. ft	2.8	2.1	1.8	1.8	1.7	1.6	1.5	1.7	1.7	1.7
Fuelwood	Cu. ft	7.2	2.6	2.6	10.1	14.0	14.0	15.0	14.6	15.3	(NA)
Lumber	Bd. ft	199	193	171	222	188	169	161	190	205	206
Plywood and veneer	Bd. ft	25	34	32	37	30	29	28	34	34	35
Pulp products	Cords (128 cu. ft.)	.2	.3	.2	.3	.3	.3	.2	.3	.3	.3

NA Not available.

Source of tables 1122 and 1123: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-85*, annual.

No. 1124. Selected Timber Products—Producer Price Indexes: 1970 to 1986

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

INDEX AND PRODUCT	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
1967=100												
Softwood lumber [1]	113	201	297	346	380	345	343	322	370	354	345	348
Douglas fir	109	212	291	340	384	353	312	266	362	328	337	332
Southern pine	115	175	263	305	324	287	292	286	320	320	301	300
Hardwood lumber [1]	115	160	200	236	260	252	255	262	284	320	307	310
Plywood [2]	108	161	212	236	251	247	246	232	244	242	231	235
Softwood	114	201	296	326	323	309	307	282	310	304	303	309
Hardwood	103	120	128	140	169	177	180	181	180	180	163	165
Insulation board	111	144	178	203	199	208	242	251	263	270	(NA)	(NA)
Woodpulp	110	283	281	267	315	380	397	379	347	397	347	356
Paper	111	173	194	206	230	257	280	286	282	303	303	306
Paperboard	101	170	176	180	202	235	258	255	251	282	275	272
Containerboard	99	172	172	173	198	231	253	246	(NA)	(NA)	(NA)	(NA)
Hardboard and particleboard	93	114	141	170	166	191	213	220	229	238	233	236
Dec. 1980=100												
Hardwood lumber:												
Oak, red, #1, common	43	60	91	113	120	103	(NA)	115	143	167	140	146
Gum #2, common	50	63	84	111	117	108	(NA)	(NA)	105	122	117	110
Poplar #1, common	62	71	81	97	102	99	104	(NA)	(NA)	104	102	109
Softwood, ponderosa pine, #3 boards	23	42	68	77	93	84	88	73	75	81	69	74

NA Not available. [1] Includes lumber listed below and other softwoods or hardwoods. [2] Includes softwood plywood veneer.

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

No. 1125. Selected Species—Stumpage and Log Prices in Current and Constant (1967) Dollars: 1970 to 1986

[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	1978	1979	1980	1981	1982	1983	1984	1985	1986
CURRENT DOLLARS											
Softwoods:											
Douglas-fir [1]	41.90	169.50	250.30	394.40	432.20	350.20	118.20	161.60	132.90	126.20	160.70
Southern pine [2]	44.10	57.00	134.50	155.20	155.40	172.00	127.20	140.60	139.40	90.70	103.60
Sugar pine [3]	38.50	99.20	159.60	365.00	666.60	225.20	71.90	137.70	84.30	109.70	169.60
Ponderosa pine [4]	32.10	71.20	164.70	239.00	206.10	195.20	66.90	104.00	122.70	101.40	156.60
Western hemlock [5]	20.50	68.80	113.60	200.80	212.70	163.40	44.50	62.20	61.80	50.50	74.70
Hardwoods: [6]											
All eastern hardwoods	26.90	33.90	41.10	46.80	52.40	50.90	56.40	60.10	90.10	65.40	69.90
Oak, white, red, and black	26.60	29.70	59.20	66.80	65.60	63.20	70.80	87.90	145.00	94.50	108.10
Maple	34.40	39.60	57.40	33.90	37.40	41.50	34.30	25.00	48.60	56.20	68.90
Douglas-fir log prices: [7]											
Saw logs [8]	89.30	168.70	284.60	382.20	379.80	331.40	308.80	277.30	288.60	239.30	(NA)
Peeler logs [9]	136.60	274.40	446.40	571.30	584.40	563.90	460.90	427.50	414.00	364.50	(NA)
CONSTANT (1967) DOLLARS [10]											
Softwoods:											
Douglas-fir [1]	38.00	96.90	119.60	167.40	160.80	119.40	39.50	53.30	42.80	40.90	53.60
Southern pine [2]	39.90	32.60	64.30	65.90	57.80	58.60	42.50	46.40	44.90	29.40	34.60
Sugar pine [3]	34.90	56.70	76.30	154.90	248.00	76.80	24.00	45.40	27.20	35.50	56.60
Ponderosa pine [4]	29.10	40.70	78.70	101.40	76.70	66.50	22.40	34.30	39.50	32.80	52.20
Western hemlock [5]	18.60	39.30	54.30	85.20	79.10	55.70	14.90	20.50	19.90	16.40	24.90
Hardwoods: [6]											
All eastern hardwoods	24.40	19.40	19.60	19.90	19.50	17.30	18.80	19.80	29.00	21.20	23.30
Oak, white, red, and black	24.10	17.00	28.30	29.20	24.40	21.50	23.70	29.00	46.70	30.60	36.10
Maple	31.20	22.60	27.40	14.40	13.90	14.10	11.50	8.20	15.70	18.20	23.00
Douglas-fir log prices: [7]											
Saw logs [8]	80.90	96.50	136.00	162.20	141.30	113.00	103.20	91.50	93.00	77.50	(NA)
Peeler logs [9]	123.70	156.90	213.30	242.50	217.40	192.20	154.00	141.00	133.40	118.00	(NA)

[1] Western Washington and western Oregon. [2] Southern region. [3] Pacific Southwest region (formerly California region). [4] Pacific Southwest region (formerly California region). Includes Jeffrey pine. [5] Pacific Northwest region. [6] Eastern and Southern regions. [7] (Scribner log scale.) Prices are for western Washington and northwest Oregon and represent average transactions which may take place at a variety of points in the distribution process, e.g., at a river dump, reloading or truck scaling station, or on delivery to a mill. [8] Includes mixed grades, ungraded, and, beginning 1975 grade 4 logs. [9] Includes special fir peeler or special mill grade. [10] Deflated by the producer price index, all commodities.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-85,* annual.

No. 1126. Lumber Production and Consumption, by Kind of Wood: 1960 to 1985

[In millions of board feet, except as indicated. 1960 excludes Alaska and Hawaii. 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	1960	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985 [1]
Total production	**32,926**	**34,668**	**32,619**	**40,498**	**40,569**	**35,354**	**31,672**	**30,010**	**34,572**	**37,065**	**36,314**
Softwoods [2]	26,672	27,530	26,747	33,467	33,255	28,239	25,420	24,949	28,927	30,801	30,282
Cedar	(S)	633	821	929	837	722	757	470	744	752	763
Douglas fir	8,832	7,727	7,329	8,601	8,425	6,853	5,868	4,842	6,434	7,809	7,766
Hemlock	2,032	1,980	2,020	2,728	2,505	1,855	1,501	1,284	1,316	(NA)	(NA)
Ponderosa pine	3,169	3,429	3,544	4,175	3,966	3,269	2,894	2,350	2,869	3,679	3,699
Redwood	1,000	1,078	1,054	917	896	770	730	760	852	999	1,155
Southern yellow pine	5,660	7,063	6,967	9,231	9,283	8,217	8,415	8,754	10,181	10,648	10,142
White fir	2,224	2,063	2,012	2,099	2,140	1,643	1,253	974	1,316	2,017	2,156
White pine	675	898	947	1,154	(S)	(S)	502	272	(NA)	(NA)	(NA)
Hardwoods [2]	6,254	7,138	5,872	7,031	7,314	7,115	6,252	5,061	5,644	6,264	6,032
Ash	125	159	124	160	(S)	(S)	130	122	224	219	222
Beech	195	188	136	146	193	183	95	88	112	111	91
Cottonwood and aspen	206	229	253	372	374	303	155	105	197	133	125
Elm	195	155	117	151	151	149	77	57	(NA)	(NA)	(NA)
Maple	602	742	531	561	[3] 217	[3] 225	426	367	524	538	545
Oak	2,789	3,250	2,724	3,220	3,461	3,356	1,922	1,855	2,163	2,786	2,779
Sweet gum [4]	331	376	245	412	401	371	231	193	} 278	300	285
Tupelo and black gum	292	335	251	267	(S)	(S)	79	64			
Yellow poplar	592	606	555	645	673	661	409	399	475	569	527
Domestic consumption [5]	**35,225**	**38,073**	**36,100**	**49,637**	**47,547**	**40,104**	**37,919**	**36,273**	**45,138**	**48,693**	**50,077**
Percent net imports [6]	8.7	12.7	12.2	21.1	19.9	16.7	19.0	20.2	22.1	24.0	26.0
Softwoods	28,974	31,585	30,309	42,640	40,608	33,832	32,064	31,173	39,742	42,857	44,243
Per capita (bd. ft.) [7]	164	155	141	192	181	149	140	134	170	181	185
Mill stocks, yearend	5,285	4,340	4,063	4,032	4,230	4,228	4,167	4,270	4,606	4,594	4,765
Exports	688	1,152	1,373	1,369	1,745	1,956	1,878	1,630	1,745	1,599	1,515
Imports	3,631	5,769	5,711	11,825	11,118	9,540	9,205	9,119	11,947	13,270	14,608
Hardwoods	6,252	6,488	5,791	6,997	6,939	6,272	5,855	5,098	5,397	5,836	5,834
Per capita (bd. ft.) [7]	35	32	27	32	31	28	25	22	23	25	24
Mill stocks, yearend	2,067	1,144	875	820	1,105	1,572	1,727	1,539	1,334	1,561	1,719
Exports	173	138	165	320	307	379	406	356	478	467	397
Imports	291	347	224	361	376	293	291	211	261	328	364

NA Not available. S Figure does not meet publication standards. [1] Production data preliminary. [2] Includes types not shown separately. [3] Excludes hard maple. [4] Red and sap. [5] Source: Through 1970, Copeland Economics Group, Inc., Stamford, CT; thereafter, National Forest Products Association, Washington, DC. *The Economics Monthly Bulletin*, quarterly edition (copyright). [6] Imports minus exports. [7] Based on resident population estimated as of July 1.

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

No. 1127. Lumber Production, by Geographic Area: 1970 to 1985

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

SECTION AND DIVISION	1970	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
United States	**34.7**	**34.6**	**32.6**	[1] **37.0**	[1] **39.4**	[1] **40.5**	[1] **40.6**	[1] **35.4**	[1] **31.7**	**30.0**	**34.6**	**37.1**	**36.3**
North [2]	4.4	4.4	4.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3.8	4.3	4.5	4.3
Hardwood	3.4	3.3	3.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2.7	3.0	3.3	3.1
Softwood	1.0	1.1	1.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1.1	1.3	1.2	1.2
South [2]	10.8	10.4	9.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	10.8	12.7	13.4	12.9
Hardwood	3.6	3.4	2.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2.0	2.4	2.8	2.7
Softwood	7.2	7.0	7.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	8.8	10.3	10.7	10.2
West [2]	19.4	19.7	18.8	21.1	21.8	21.7	21.1	17.2	(NA)	15.4	17.6	19.1	19.2
Hardwood	.1	.2	.1	.1	.2	.2	.2	.3	(NA)	.2	.2	.2	.2
Softwood	19.3	19.5	18.6	20.9	21.6	21.4	20.9	16.9	(NA)	15.1	17.4	19.0	19.0
New England	.7	.8	.8	.9	.9	1.0	1.0	1.1	.7	1.0	1.2	1.1	1.1
Middle Atlantic	.8	.9	.7	.8	.9	.9	.9	.9	.5	.8	.8	.8	.7
East North Central	1.2	1.2	1.1	1.2	1.3	1.4	1.4	1.3	1.0	1.1	1.2	1.3	1.3
West North Central	.6	.6	.5	.6	.6	.7	.6	.6	.2	.3	.4	.4	.4
South Atlantic	5.2	5.1	4.7	5.2	5.3	5.4	5.8	5.2	4.4	5.4	6.5	6.7	6.4
East South Central	3.4	3.4	3.0	3.3	3.6	3.7	3.6	3.2	2.8	3.2	3.8	4.2	4.1
West South Central	3.2	2.9	3.0	3.1	3.5	3.6	3.2	2.9	2.3	2.8	3.1	3.3	3.1
Mountain	4.2	3.9	3.9	4.6	4.7	4.7	4.5	3.8	3.3	3.3	3.8	4.4	4.5
Pacific	15.3	15.8	14.8	16.6	17.1	17.0	16.6	13.4	11.2	12.2	13.6	14.8	14.6

NA Not available. [1] Includes amounts not specified by division. [2] Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-85*, annual. Sections are as defined by the Forest Service, see source.

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

No. 1128. Wood Products—Production: 1960 to 1986

ITEM	Unit	1960	1970	1975	1980	1981	1982	1983 [1]	1984 [1]	1985 [1]	1986, [1] prel.
Hardwood flooring	Mil. bd. ft	915	333	155	292	315	275	365	400	416	419
Softwood plywood	Bil. sq. ft., ⅜" basis	7.8	14.1	15.7	15.5	15.6	14.1	18.0	18.9	20.2	22.4
Insulation boards	1,000 short tons	1,098	1,219	1,249	1,051	845	729	900	785	649	600
Hardboard	1,000 short tons	686	1,463	1,784	1,970	1,858	1,465	1,900	2,170	2,000	1,848
Particleboard	Mil. sq. ft., ¾" basis	266	1,764	2,503	3,029	2,930	2,470	3,010	3,196	3,331	3,603

[1] Estimated by the International Trade Administration.

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 and National Particleboard Association, Silver Spring, MD.

No. 1129. Paper and Paperboard—Production and Consumption: 1970 to 1986

[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	1975	1980	1984	1985	1986	1970	1975	1980	1984	1985	1986
Total paper and paperboard	**51.7**	**51.0**	**63.5**	**70.3**	**68.8**	**72.7**	**56.0**	**54.1**	**67.1**	**77.0**	**76.3**	**79.8**
Paper: Newsprint	3.5	3.7	4.7	5.5	5.4	5.6	9.8	9.0	11.4	12.7	12.8	13.0
Coated printing, converting	3.2	3.2	4.6	6.2	5.9	6.3	3.2	3.0	4.6	6.6	6.3	6.7
Uncoated free sheet	5.1	5.3	8.0	9.2	9.7	10.4	5.1	5.3	8.0	9.5	10.0	10.8
Other printing, writing, etc	2.6	2.5	2.9	3.0	2.9	2.9	2.7	2.6	3.4	4.3	4.2	4.5
Packaging and industrial converting	5.3	4.6	5.5	5.6	5.2	5.1	5.1	4.3	5.2	5.4	5.1	5.1
Tissue and other machine creped	3.5	4.0	4.4	4.9	4.9	5.1	3.7	3.9	4.3	4.9	5.0	5.1
Paperboard: Unbleached kraft	11.5	11.5	15.3	17.2	16.4	17.7	9.9	10.5	13.0	15.2	14.6	15.7
Bleached kraft	3.3	3.3	3.9	4.0	3.9	4.3	3.2	3.1	3.3	3.6	3.5	3.9
Semichemical	3.5	3.7	4.7	5.2	5.1	5.4	3.4	3.6	4.4	5.1	5.0	5.3
Recycled finish	7.0	6.2	7.1	7.6	7.6	8.1	7.0	6.2	7.0	7.7	7.7	8.1
Construction paper and board [2]	**3.0**	**3.0**	**2.6**	[3] **1.8**	[3] **1.8**	[3] **1.8**	**3.0**	**3.0**	**3.0**	[3] **2.2**	[3] **2.1**	[3] **2.0**

[1] Total consumption of paper and paperboard includes net imports of paper and paperboard converted products; not available by grade. [2] Source: 1970-1980 U.S. Bureau of the Census, *Current Industrial Reports.* Includes wet machine board, approximately 100,000-160,000 tons per year. [3] Estimated.

Source: Except as noted, American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp,* annual.

No. 1130. Newsprint—Production, Stocks, Consumption, Imports, and Price Index: 1960 to 1986

[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	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Canada: Production	6,114	7,808	6,966	8,756	8,625	8,950	8,109	8,486	9,013	8,988	9,289
Shipments from mills	6,125	7,795	7,010	8,780	8,622	8,913	8,054	8,439	9,018	8,996	9,302
Stocks at mills, end of year	127	214	86	162	165	202	256	303	298	290	277
United States:											
Estimated consumption [1]	6,634	8,805	8,395	10,199	10,088	10,164	10,107	10,587	11,431	11,587	11,936
Production	1,849	3,142	3,348	3,685	4,239	4,752	4,574	4,688	5,025	4,924	5,108
Shipments from mills	1,842	3,136	3,347	3,689	4,234	4,735	4,526	4,674	5,065	4,927	5,115
Stocks, end of year: At mills	24	30	19	16	21	38	86	99	60	57	49
At and in transit to publishers	570	680	666	628	732	961	854	790	874	910	849
Imports [2]	5,412	6,635	5,847	7,221	7,280	6,978	6,531	6,919	7,899	8,472	8,589
Producer price index (1967=100)	96.1	107.6	184.0	250.2	[3] 279.3	[3] 308.0	315.8	303.0	323.1	332.4	326.1

[1] By all users. Based on American Paper Institute data. [2] Source: Reports of U.S. Bureau of the Census. Includes Puerto Rico and beginning 1981, Virgin Islands. [3] Average for 11 months.

Source: Except as noted, U.S. Bureau of Economic Analysis, *Survey of Current Business,* monthly. Data from American Paper Institute, Inc., New York, NY, and Canadian Pulp & Paper Association.

No. 1131. Wastepaper Utilization and Recovery Rates: 1960 to 1986

[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	1960	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Paper and board, production [1]	33.9	51.7	51.0	64.3	63.5	64.3	61.0	66.8	70.3	68.8	72.7
Wastepaper consumption	[2] 9.0	11.8	11.7	15.4	14.9	15.0	14.4	15.6	16.7	16.4	17.5
Wastepaper utilization rate (percent)	26.5	22.8	23.0	23.8	23.4	23.3	23.7	24.4	23.8	23.8	23.9
Other wastepaper uses [3]	.20	.42	.54	.51	.47	.48	.49	.48	.46	.48	.49
Wastepaper exports	.15	.41	.86	2.23	2.66	2.21	2.13	2.57	3.24	3.29	3.75
Total wastepaper recovered	9.3	12.6	13.1	18.0	18.0	17.7	17.0	18.6	20.3	20.0	21.6
Paper and board, new supply [4]	38.5	56.0	54.1	69.8	67.1	68.0	64.7	71.2	77.0	76.3	79.8
Recovery rate (percent)	24.2	22.4	24.2	25.8	26.8	26.0	26.2	26.1	26.4	26.3	27.0

[1] Excludes hard pressed board; includes construction paper and board, and wet machine board. [2] Source: U.S. Bureau of the Census, Report FT 446. [3] Estimated. [4] Excludes production of hard pressed board.

Source: Except as noted, American Paper Institute, Inc., New York, NY, *Statistics of Paper, Paperboard, and Woodpulp,* annual, and unpublished data.

NO. 1132. SELECTED WOOD PRODUCTS—PRODUCTION AND CONSUMPTION: 1970 TO 1986

[See also *Historical Statistics of the United States, Colonial Times to 1970*, series L 151–170]

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986
PULPWOOD										
Receipts, total	Mil. cords [1]	68.9	65.4	81.0	79.3	77.3	83.4	88.0	85.4	91.1
Softwood	Mil. cords [1]	52.4	49.3	60.2	58.8	56.4	59.8	62.9	60.2	63.5
Hardwood	Mil. cords [1]	16.5	16.2	20.8	20.5	20.9	23.6	25.2	25.1	27.6
Consumption, total	Mil. cords [1]	67.6	65.4	79.7	79.3	77.6	83.5	87.0	84.8	90.6
Softwood	Mil. cords [1]	51.3	48.9	58.8	58.5	56.4	59.9	62.0	59.7	63.0
Hardwood	Mil. cords [1]	16.3	16.5	20.9	20.8	21.1	23.6	24.9	25.1	27.6
Inventories [2]	Mil. cords [1]	6.6	6.6	6.7	5.9	5.4	5.2	5.2	5.1	4.7
WOODPULP										
Production	Mil. short tons	43.9	43.1	53.0	52.8	51.0	54.1	57.8	57.7	60.9
Consumption, [3] total	Mil. short tons	43.2	42.4	52.4	52.8	50.2	54.0	57.5	56.6	59.9
Own pulp	Mil. short tons	38.9	38.5	46.6	47.3	44.6	47.7	50.3	49.7	52.6
Purchased pulp	Mil. short tons	4.3	3.9	5.9	5.5	5.6	6.3	7.2	7.0	7.3
PLYWOOD										
Softwood:										
Production	Mil. sq. ft. [4]	14,149	15,706	15,483	15,524	15,134	18,281	18,865	19,341	19,928
Consumption, total	Mil. sq. ft. [4]	(NA)	(NA)	15,145	14,983	14,741	17,737	18,526	19,122	19,436
Value	Mil. dol	949	(NA)	2,582	2,390	2,177	2,877	2,995	3,080	3,165
Hardwood:										
Production	Mil. sq. ft. [5]	1,904	1,280	1,311	1,232	1,163	1,248	1,185	1,016	1,052
Consumption, total	Mil. sq. ft. [5]	5,772	4,970	3,416	3,837	3,173	4,324	3,831	4,311	4,610
Value	Mil. dol	516	586	977	1,085	920	1,131	1,199	1,192	1,227

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. 1133. SELECTED TIMBER PRODUCTS—IMPORTS AND EXPORTS: 1970 TO 1986

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
IMPORTS [1]											
Lumber, total [2]	Mil. bd. ft.	6,114	5,976	11,530	9,866	9,523	9,360	12,254	13,632	15,008	14,619
From Canada	Percent	96.0	96.0	97.0	97.5	97.5	98.2	98.3	97.9	97.6	97.5
Softwoods	Mil. bd. ft.	5,778	5,724	11,153	9,573	9,232	9,150	11,993	13,304	14,644	14,272
Value	Mil dol	434	717	2,551	1,826	1,763	1,624	2,569	2,681	2,898	2,969
Hardwoods	Mil. bd. ft.	337	252	376	293	291	211	260	328	364	347
Value	Mil. dol	62	70	187	152	154	104	134	173	180	168
Logs, total	Mil. bd. ft. [3]	144	85	133	128	101	117	165	147	99	78
From Canada	Percent	79.6	93.9	83.6	97.4	98.3	98.6	97.9	97.4	81.8	77.9
Softwoods	Mil. bd. ft. [3]	107	69	118	114	88	99	142	117	71	52
Value	Mil. dol	9	12	26	17	17	23	24	15	17	7
Hardwoods	Mil. bd. ft. [3]	38	17	15	13	14	18	23	30	28	26
Value	Mil. dol	5	3	3	3	3	3	5	4	4	4
Paper and board [4]	1,000 tons	7,115	6,253	9,123	8,780	8,339	8,024	8,986	11,075	11,522	11,936
Value	Mil. dol	1,039	1,606	3,208	3,418	3,672	3,682	4,019	5,324	5,698	6,035
Woodpulp	1,000 tons	3,518	3,078	4,318	4,051	4,087	3,656	4,093	4,490	4,466	4,582
Value	Mil. dol	483	1,007	1,465	1,684	1,764	1,493	1,472	1,845	1,521	1,601
Plywood	Mil. sq. ft	4,171	3,913	4,243	2,477	3,047	2,270	3,393	3,056	3,609	3,937
Value	Mil. dol	208	260	591	409	465	331	451	438	463	519
EXPORTS											
Lumber, total [2]	Mil. bd. ft.	1,243	1,618	2,142	2,494	2,406	2,021	2,270	2,150	1,945	2,427
To: Canada	Percent	21.7	34.0	30.4	25.3	30.3	20.7	29.3	25.8	23.7	22.0
Japan	Percent	30.8	31.9	30.2	26.0	21.8	31.1	27.8	28.0	32.1	36.4
Europe	Percent	24.1	15.1	21.3	23.8	16.6	20.3	20.2	16.0	15.1	16.6
Softwoods	Mil bd. ft.	1,115	1,405	1,781	2,007	1,928	1,635	1,756	1,624	1,518	1,878
Value	Mil. dol	163	346	791	789	664	582	609	541	497	644
Hardwoods	Mil bd. ft	128	213	361	487	479	386	514	527	427	549
Value	Mil. dol	31	68	225	272	269	229	305	300	263	350
Logs, total	Mil. bd. ft. [3]	2,741	2,667	3,897	3,261	2,489	3,208	3,307	3,495	3,843	3,627
To: Canada	Percent	10.6	10.4	10.5	9.7	9.9	9.4	10.5	12.1	11.6	12.2
Japan	Percent	86.3	84.6	80.8	78.0	71.3	61.7	55.4	50.4	49.4	57.3
China: Mainland	Percent	(NA)	(NA)	(NA)	2.7	8.9	17.1	21.9	24.8	27.8	17.0
Softwoods	Mil. bd. ft. [3]	2,672	2,601	3,768	3,109	2,377	3,115	3,198	3,369	3,732	3,488
Value	Mil. dol	320	681	1,614	1,452	1,003	1,174	1,068	1,079	1,169	1,129
Hardwoods	Mil. bd. ft. [3]	69	66	129	152	112	93	112	126	111	139
Value	Mil. dol	36	43	138	129	92	84	98	101	91	97
Paper and board [4]	1,000 tons	2,817	3,116	3,672	5,214	4,641	4,246	4,569	4,387	4,077	4,832
Value	Mil. dol	602	1,315	1,914	2,773	2,891	2,589	2,481	2,552	2,268	2,549
Woodpulp	1,000 tons	3,095	2,782	2,935	3,806	3,678	3,395	3,644	3,594	3,791	4,458
Value	Mil. dol	464	875	1,104	1,652	1,661	1,415	1,362	1,502	1,353	1,662
Plywood	Mil. sq. ft	183	871	435	420	741	493	615	407	365	656
Value	Mil. dol	16	141	107	108	178	117	143	94	86	145

[1] Customs value of imports; see text, section 29. [2] Includes railroad ties. [3] Log scale. [4] Includes paper and board products. Excludes hardboard.

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics: 1950 to 1986.*

No. 1134. Fishery Products—Supply: 1970 to 1986

[**Live weight, in millions of pounds, except percent.** 1978-1986 preliminary. See *Historical Statistics, Colonial Times to 1970*, series L 224-226, for domestic catch]

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	**11,474**	**10,164**	**10,652**	**11,509**	**11,831**	**11,357**	**11,353**	**12,011**	**12,352**	**12,552**	**15,150**	**14,368**
For human food	6,213	6,394	7,466	8,135	8,251	8,006	8,267	7,966	8,413	8,498	9,337	9,620
Finfish	(NA)	4,848	5,641	6,263	6,324	6,139	6,316	6,090	6,358	6,303	6,991	7,087
Shellfish [1]	(NA)	1,546	1,825	1,872	1,927	1,867	1,951	1,878	2,055	2,195	2,346	2,533
For industrial use	5,261	3,770	3,186	3,374	3,580	3,351	3,086	4,043	3,939	4,054	5,813	4,748
Domestic catch	**4,917**	**4,877**	**5,271**	**6,028**	**6,267**	**6,482**	**5,977**	**6,367**	**6,439**	**6,438**	**6,258**	**6,031**
Percent of total	42.8	47.9	49.5	52.4	53.0	57.1	52.7	53.0	52.1	51.3	41.3	42.0
For human food	2,537	2,465	2,952	3,177	3,318	3,654	3,547	3,285	3,238	3,320	3,294	3,393
Finfish	(NA)	1,548	1,833	2,018	2,204	2,516	2,414	2,324	2,351	2,348	2,273	2,240
Shellfish [1]	(NA)	917	1,119	1,159	1,114	1,138	1,133	961	887	972	1,021	1,153
For industrial use	2,380	2,412	2,319	2,851	2,949	2,828	2,430	3,082	3,201	3,118	2,964	2,638
Imports [2]	**6,557**	**5,287**	**5,381**	**5,481**	**5,564**	**4,875**	**5,376**	**5,644**	**5,913**	**6,114**	**8,892**	**8,337**
Percent of total	57.2	52.1	50.5	47.6	47.0	42.9	47.3	47.0	47.9	48.7	58.7	58.0
For human food	3,676	3,929	4,514	4,958	4,933	4,352	4,720	4,683	5,175	5,178	6,043	6,227
Finfish	(NA)	3,300	3,808	4,245	4,120	3,823	3,902	3,766	4,007	3,955	4,718	4,847
Shellfish [1]	(NA)	629	706	713	813	729	818	917	1,168	1,223	1,325	1,380
For industrial use [3]	2,881	1,358	867	523	631	523	656	961	738	936	2,849	2,110

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. 1135. Fisheries—Employment, Fishing Craft, and Establishments: 1970 to 1985

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

ITEM	1970	1975	1976	1977	1978, prel.	1979, prel.	1980, prel.	1981, prel.	1982, prel.	1983, prel.	1984, prel.	1985, prel.
Persons employed in U.S	**227**	**260**	**267**	**280**	**257**	**267**	**296**	**303**	**314**	**333**	**340**	**351**
Fishermen	140	168	174	182	172	184	193	198	216	223	230	239
Shore workers [1]	87	92	93	98	85	83	103	105	98	110	110	112
Craft used	**88**	**103**	**103**	**107**	**104**	**103**	**113**	**115**	**123**	**127**	**127**	**130**
Vessels, 5 net tons and over	14	16	17	17	18	18	19	20	20	21	24	24
Motorboats	72	85	84	88	84	84	93	93	102	105	102	104
Other boats	2	2	2	2	2	1	1	2	1	1	1	2
Fishery shore establishments	**3.7**	**3.6**	**3.6**	**3.6**	**3.3**	**3.4**	**3.6**	**3.6**	**3.6**	**3.9**	**4.0**	**4.0**

[1] Seasonal average for processors and wholesaling plants.

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. 1136. Fisheries—Quantity and Value of Domestic Catch: 1960 to 1986

[See also *Historical Statistics, Colonial Times to 1970*, series L 224-226, L 229, and L 310]

YEAR	QUANTITY (mil. lb.) [1]			Ex-vessel value (mil. dol.)	Average price per lb. (cents)	YEAR	QUANTITY (mil. lb.) [1]			Ex-vessel 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	1978, prel	6,028	3,177	2,851	1,854	30.7
1965	4,777	2,587	2,190	446	9.3	1979, prel	6,267	3,318	2,949	2,234	35.6
1970	4,917	2,537	2,380	613	12.5	1980, prel	6,482	3,654	2,828	2,237	34.5
1972	4,806	2,435	2,371	748	15.6	1981, prel	5,977	3,547	2,430	2,388	40.0
1973	4,858	2,398	2,460	937	19.3	1982, prel	6,367	3,285	3,082	2,390	37.5
1974	4,967	2,496	2,471	932	18.7	1983, prel	6,439	3,238	3,201	2,355	36.6
1975	4,877	2,465	2,412	977	20.0	1984, prel	6,438	3,320	3,118	2,350	36.5
1976	5,388	2,775	2,613	1,349	25.0	1985, prel	6,258	3,294	2,964	2,326	37.2
1977	5,271	2,952	2,319	1,554	29.5	1986, prel	6,031	3,393	2,638	2,763	45.8

[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. 1137. Fisheries—Disposition of Domestic Catch: 1970 to 1986

[**Live weight catch in millions of pounds.** 1978–1986 preliminary. In addition to whole fish, a large portion of waste (400–500 million lb.) derived from canning, filleting, and dressing fish and shellfish is utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970*, series L 305–310, for similar but not entirely comparable data]

DISPOSITION	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total	**4,917**	**4,877**	**5,271**	**6,028**	**6,267**	**6,482**	**5,977**	**6,367**	**6,439**	**6,438**	**6,258**	**6,031**
Fresh and frozen	1,595	1,744	1,538	2,237	2,394	2,621	2,547	2,550	2,304	2,336	2,242	2,490
Canned	1,150	907	1,359	1,099	1,046	1,161	1,118	891	1,087	1,128	1,232	1,131
Cured	71	55	55	52	94	96	90	85	80	82	70	60
Reduced to meal, oil, etc	2,101	2,171	2,319	2,640	2,733	2,604	2,222	2,841	2,968	2,892	2,714	2,350

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. 1138. Fisheries—Domestic Catch and Ex-Vessel Value by Area: 1980 to 1986

[See *Historical Statistics, Colonial Times to 1970*, series L 236–253, for data on quantity and ex-vessel value of catch]

AREA	CATCH (mil. lb.)						VALUE (mil. dol.)					
	1980	1982	1983	1984	1985	1986	1980	1982	1983	1984	1985	1986
United States	**6,482**	**6,367**	**6,439**	**6,438**	**6,258**	**6,031**	**2,237**	**2,390**	**2,355**	**2,350**	**2,326**	**2,763**
New England States	788	687	711	694	590	563	327	374	435	434	419	449
Middle Atlantic States	244	129	128	153	151	156	97	93	94	109	101	114
Chesapeake Bay States	717	791	841	663	815	617	130	120	130	138	124	131
South Atlantic States	473	427	397	402	311	249	148	164	173	150	156	155
Gulf States	1,979	2,300	2,443	2,644	2,412	2,368	463	614	615	656	597	781
Pacific Coast States	2,140	1,872	1,739	1,701	1,816	1,923	1,025	964	846	795	863	1,065
Great Lakes States	44	36	47	61	54	48	14	13	14	14	15	14
Hawaii	11	14	29	35	17	11	12	14	18	29	22	20
Other [1]	85	109	103	85	92	96	21	34	30	25	29	34

[1] Mississippi River and other areas.

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. 1139. Domestic Fish and Shellfish Catch, by Species: 1981 to 1986

SPECIES	QUANTITY (1,000 lb.)			VALUE ($1,000)			1981–1985, avg. quantity (1,000 lb.)	RECORD CATCH	
	1984	1985	1986	1984	1985	1986		Year	Quantity (1,000 lb.)
Total	**6,437,783**	**6,257,642**	**6,030,634**	**2,350,462**	**2,326,237**	**2,762,823**	(X)	(NA)	(NA)
Fish, total [1]	**5,456,194**	**5,214,363**	**4,870,763**	**1,188,612**	**1,193,427**	**1,319,134**	(X)	(NA)	(NA)
Anchovies	17,796	14,566	13,436	5,631	2,704	2,523	56,917	1975	329,356
Bluefish	12,713	13,743	13,968	2,382	2,363	2,413	15,234	(NA)	(NA)
Butterfish	26,026	10,338	9,880	7,056	3,537	6,576	14,493	(NA)	(NA)
Cod: Atlantic	96,775	82,823	61,134	36,143	35,140	36,142	99,395	1880	294,351
Pacific	115,608	120,275	104,443	20,966	18,556	11,337	91,875	1985	120,275
Croaker	10,570	11,088	12,382	3,552	3,658	3,883	12,412	1945	64,668
Flounders	219,995	195,718	169,050	124,259	129,121	124,586	219,727	1983	253,528
Haddock	25,997	14,416	10,968	18,352	13,545	10,911	34,627	1929	293,809
Halibut	47,903	61,032	77,691	25,435	38,376	82,925	42,869	1986	77,691
Herring, sea; Pacific	104,742	142,074	130,764	22,159	47,025	44,598	122,658	1937	329,356
Jack mackerel	23,350	20,852	23,672	1,963	1,770	1,775	34,529	1952	146,522
Mackerel, Pacific	93,406	75,453	85,444	7,612	6,324	6,408	77,769	(NA)	(NA)
Menhaden	2,891,076	2,739,401	2,391,363	117,297	100,680	93,762	2,692,952	1983	2,962,811
Mullet	22,782	21,205	21,646	5,426	5,720	6,043	26,864	1902	43,385
Ocean perch, Atlantic	12,333	9,666	6,576	3,550	3,179	3,160	14,539	1951	258,320
Pollock, Atlantic	39,536	43,477	54,469	6,439	6,978	14,044	36,503	1986	54,469
Rockfishes	85,569	82,109	92,029	21,813	23,107	28,265	102,666	1983	99,315
Sablefish	50,031	63,380	84,868	17,526	28,692	45,879	45,757	1986	84,868
Salmon	691,409	726,946	658,521	391,462	439,795	493,937	662,702	1985	726,946
Scup or porgy	18,505	15,996	16,181	8,775	9,338	9,476	19,108	1960	49,229
Sea trout, gray	19,726	16,400	20,602	7,541	7,330	7,086	19,860	1945	41,420
Snapper, red	5,745	5,181	4,489	10,107	10,661	9,820	5,973	1902	23,457
Swordfish	12,831	12,258	9,671	37,063	33,191	30,508	11,174	(NA)	(NA)
Tuna	211,830	83,054	87,811	118,352	52,515	54,575	235,227	1976	490,567
Whiting	46,214	44,545	39,924	6,867	8,274	8,312	40,065	1957	133,041
Shellfish, total [1]	**981,589**	**1,043,279**	**1,159,871**	**1,161,850**	**1,132,810**	**1,443,689**	(X)	(NA)	(NA)
Clams	132,921	150,551	145,393	116,491	128,349	134,910	125,563	1985	150,551
Crabs	312,953	337,632	355,660	186,576	203,044	270,138	352,635	1977	412,774
Lobsters: American	43,967	46,152	46,053	114,348	114,895	120,556	42,253	1985	46,152
Oysters	46,287	44,173	40,544	80,817	70,053	78,068	49,400	1908	152,046
Scallops: Calico	39,330	12,513	1,616	21,620	12,524	3,087	17,420	1984	39,330
Sea	18,427	15,829	19,992	97,675	74,562	97,415	21,267	1961	27,461
Shrimp	301,754	333,691	400,185	488,400	472,850	662,744	304,680	1977	476,469

NA Not available. 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. 1140. Fisheries—Quantity and Value of Catch, by State, and Catch of Principal Species, by Area: 1970 to 1986

[Catch in millions of pounds, live weight, except as indicated; ex-vessel value in millions of dollars. 1980–1986 preliminary. See also *Historical Statistics, Colonial Times to 1970,* series L 262–293]

AREA, STATE, CATCH, AND VALUE	1970	1980	1985	1986
New England:				
Catch	531	788	590	563
Value	91	327	419	449
Maine:				
Catch	159	245	175	175
Value	31	93	101	108
New Hampshire:				
Catch	1	19	8	8
Value	1	5	5	6
Massachusetts:				
Catch	287	438	296	272
Value	47	178	232	244
Rhode Island:				
Catch	79	81	104	102
Value	11	46	70	75
Connecticut:				
Catch	5	5	7	7
Value	2	5	12	16
Catch for certain species:				
Cod	53	118	83	61
Flounder	104	118	98	81
Haddock	27	55	14	11
Herring, sea	66	184	52	79
Lobster, American	30	38	44	43
Ocean perch, Atlantic	55	24	10	7
Pollock	9	40	43	54
Whiting	40	18	31	31
Middle Atlantic:				
Catch	140	244	151	156
Value	30	97	101	114
New York:				
Catch	32	39	39	43
Value	16	45	38	45
New Jersey:				
Catch	98	201	108	108
Value	13	50	61	67
Delaware:				
Catch	10	4	5	5
Value	1	2	2	2
Catch for certain species:				
Clams (meats)	63	40	73	77
Menhaden	31	(D)	(D)	3,029
Oysters (meats)	1	3	1	368
Scup or porgy	4	8	2	6
Chesapeake Bay:				
Catch	630	717	815	617
Value	41	130	124	131
Maryland:				
Catch	80	80	92	89
Value	19	45	47	51
Virginia:				
Catch	551	637	723	528
Value	22	85	76	80
Catch for certain species:				
Alewives	21	1	1	1
Clams (meats)	23	36	47	41
Crabs	70	65	91	84
Menhaden	450	(D)	(D)	(D)
Oysters (meats)	25	21	8	11
South Atlantic:				
Catch	280	473	311	249
Value	30	148	156	155
North Carolina:				
Catch	173	356	215	169
Value	9	69	65	63
South Carolina:				
Catch	16	21	13	17
Value	4	20	14	25
Georgia:				
Catch	14	19	17	16
Value	4	20	21	25

AREA, STATE, CATCH, AND VALUE	1970	1980	1985	1986
South Atlantic—Con.				
Florida (east coast):				
Catch	76	77	66	47
Value	12	39	57	42
Catch for certain species:				
Crabs	43	55	48	40
Menhaden	136	(D)	(D)	(D)
Shrimp	21	33	28	23
Gulf States:				
Catch	1,698	1,979	2,412	2,368
Value	167	463	597	781
Florida (west coast):				
Catch	116	115	117	119
Value	31	86	114	112
Alabama:				
Catch	30	25	30	37
Value	10	25	41	64
Mississippi:				
Catch	298	232	471	418
Value	11	25	40	46
Louisiana:				
Catch	1,107	1,412	1,693	1,677
Value	61	174	225	313
Texas:				
Catch	147	94	103	117
Value	53	153	177	246
Catch for certain species:				
Crabs	36	45	53	59
Menhaden	1,209	(D)	(D)	(D)
Mullet	27	31	17	18
Oysters (meats)	18	17	25	20
Shrimp	230	208	263	304
Great Lakes: [1]				
Catch	72	44	54	48
Value	6	14	15	14
Pacific Coast:				
Catch	1,480	2,140	1,816	1,922
Value	235	1,025	863	1,065
Washington:				
Catch	134	156	167	187
Value	30	86	93	111
Oregon:				
Catch	98	126	101	113
Value	23	56	46	62
California:				
Catch	703	804	363	386
Value	86	323	133	139
Alaska:				
Catch	545	1,054	1,185	1,236
Value	96	560	591	753
Catch for certain species:				
Anchovies	193	107	15	13
Bonito	9	14	5	1
Crabs	126	347	129	160
Flounder	46	60	68	64
Halibut	34	19	61	78
Herring, sea	22	107	142	131
Jack mackerel	48	44	21	24
Salmon	410	614	727	659
Shrimp	93	98	35	63
Tuna	378	387	64	77
Mississippi River and tributaries:				
Catch	75	85	92	96
Value	10	21	29	34
Hawaii:				
Catch	11	11	17	11
Tuna catch	9	7	11	5
Value	4	12	22	20

D Withheld to avoid disclosure. [1] Collected largely by State fishery agencies, and compiled by National Marine Fisheries Service. Includes, in addition to the Great Lakes, small amounts for Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

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

No. 1141. Catch and Catch Limits in the U.S. Exclusive Economic Zone (EEZ) by Country: 1982 to 1986

[**In millions of pounds live weight.** Data are preliminary. Excludes tuna. (In 1982 and 1983, U.S. domestic catch of tuna in EEZ was 23 mil. lb.; in 1984, 34 mil. lb. and in 1985 and 1986, 32 mil. lb.). Allocations (catch limits) set by species for countries fishing within 200 to 300 miles of U.S. shores. For details, see text, section 24, and source]

Country	Actual catch					Allocation				
	1982	1983	1984	1985	1986	1982	1983	1984	1985	1986
Total catch in EEZ	**5,385**	**5,366**	**5,923**	**6,226**	**6,616**	(x)	(x)	(x)	(x)	(x)
U.S.	2,331	2,525	2,939	3,665	5,319	(x)	(x)	(x)	(x)	(x)
Foreign	3,054	2,841	2,984	2,561	1,297	[1] 4,270	[1] 4,265	[1] 4,278	[1] 3,254	[1] 1,526
Japan	2,384	2,143	2,072	1,778	850	3,039	2,585	2,554	1,988	1,047
Soviet Union	(x)	(x)	51	23	(z)	(x)	(x)	77	24	(x)
South Korea	536	613	608	497	215	677	716	727	552	256
Poland	(x)	(x)	153	182	171	(x)	(x)	174	197	172
Spain	34	10	9	[2] 13	6	36	30	22	20	8
Italy	32	20	25	44	9	45	32	19	16	9
West Germany	36	52	53	(x)	(x)	49	64	62	(x)	(x)
Bulgaria	16	(x)	(x)	(x)	(x)	40	1	(x)	(x)	(x)
China: Taiwan	15	(x)	(x)	(x)	(x)	47	15	(x)	(x)	(x)
East Germany	(x)	3	12	24	42	12	11	26	63	22

X Not applicable. Z Less than 500,000 pounds. [1] Includes countries not shown separately. [2] Includes Faroe Islands.

No. 1142. U.S. Catch and Value of Fish and Shellfish, by Distance Caught Off U.S. Shores—Selected Species: 1986

[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 catches by U.S. flag vessels unloaded onto foreign vessels within the U.S. FCZ (joint venture)]

Species	Total U.S. catch [1] (mil. lb.)	By distance from U.S. shores						Value of U.S. catch [1] (mil. dol.)	Percent of total value, by distance caught off U.S. shores		
		Catch (mil. lb.)			Percent of U.S. catch						
		3 miles or less [2]	3 to 200 miles	Over 200 miles	3 miles or less [2]	3 to 200 miles	Over 200 miles		3 miles or less [2]	3 to 200 miles	Over 200 miles
Fish, total [3]	**8,219.2**	**2,876.6**	**4,803.4**	**539.2**	**35**	**58**	**7**	**1,637.2**	**46**	**42**	**12**
Cod	311.2	17.5	292.5	1.2	6	94	(z)	61.9	5	94	1
Flounder	645.0	38.3	596.0	10.7	6	92	2	153.4	14	81	5
Halibut	77.7	29.6	48.1	(z)	38	62	(z)	82.9	38	62	(z)
Herring, sea	210.1	183.9	26.2	(z)	88	12	(z)	48.9	97	3	(z)
Jack mackerel	23.7	(z)	23.7	(z)	(z)	100	(z)	1.8	(z)	100	(z)
Menhaden	2,391.4	1,569.4	822.0	(z)	66	44	(z)	93.8	68	32	(z)
Ocean perch	22.8	4.9	17.9	(z)	21	79	(z)	6.3	11	89	(z)
Salmon, Pacific	658.5	641.5	17.0	(z)	97	3	(z)	493.9	95	5	(z)
Tuna	555.0	.6	32.4	522.0	(z)	6	94	217.2	(z)	15	85
Shellfish [3]	**1,172.5**	**620.3**	**548.1**	**4.1**	**53**	**47**	(z)	**1,452.7**	**48**	**52**	(z)
Clams (meats)	145.4	46.9	98.5	(z)	32	68	(z)	134.9	67	33	(z)
Crabs	355.7	216.8	138.8	(z)	61	39	(z)	270.1	38	62	(z)
Lobsters	52.8	40.8	11.9	(z)	77	23	(z)	139.8	74	25	(z)
Scallops (meats)	22.3	2.0	20.3	(z)	9	91	(z)	107.0	12	88	(z)
Shrimp	400.2	199.0	201.2	(z)	50	50	(z)	662.7	41	59	(z)

Z Less than 500,000 pounds or .05 percent. [1] Includes catch from international waters or off foreign shores. [2] Includes all landings in Great Lakes and other inland waters. [3] Includes other species not shown separately.

Source of tables 1141 and 1142: 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. 1143. Fisheries, Selected Countries—Commercial Catch: 1981 to 1985

[**In billions of pounds, live weight.** Catch of fish, crustaceans, mollusks (including weight of shells), and other aquatic plants and animals, except whales and seals]

Country	1981	1982	1983	1984	1985	Country	1981	1982	1983	1984	1985
World total [1]	**165.0**	**169.2**	**170.3**	**183.2**	**187.3**	China: Mainland [2]	9.6	10.9	11.5	13.1	14.9
United States	8.3	8.8	9.4	10.6	10.5	Iceland	3.2	1.7	1.8	3.4	3.7
Japan	23.7	23.9	24.8	26.5	25.2	Philippines	3.7	3.9	4.4	4.3	4.1
Soviet Union	21.0	22.0	21.5	23.4	23.2	Canada	3.1	3.1	3.0	2.8	3.1
Peru	6.0	7.8	3.5	7.4	9.2	North Korea (est.)	3.3	3.4	3.5	3.6	3.7
Chile	7.5	8.1	8.8	9.9	10.6	Spain	2.8	3.0	2.9	2.9	2.9
Norway	5.6	5.5	6.3	5.4	4.6	Vietnam	1.4	1.4	1.6	1.7	1.8
India	5.4	5.2	5.5	6.3	6.2	Brazil	1.8	1.8	1.9	2.1	2.1
South Korea	5.2	5.0	5.3	5.5	5.8	Mexico	3.4	2.9	2.3	2.4	2.7
Denmark	4.1	4.2	4.1	4.1	3.7	France	1.7	1.7	1.7	1.7	1.9
Indonesia	4.2	4.4	4.9	4.4	4.6	South Africa	1.3	1.4	1.3	1.3	1.4
Thailand	4.4	4.7	5.0	4.7	4.7	Poland	1.4	1.3	1.6	1.6	1.5
						United Kingdom	1.9	2.0	1.9	1.9	1.9

[1] Includes other countries not shown separately. [2] Includes data for Taiwan.

Source: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States,* annual. Data from Food and Agricultural Organization of the United Nations, Rome, Italy.

No. 1144. Fresh and Frozen Fishery Products—Production and Value: 1975 to 1986

[Excludes Alaska and Hawaii, except frozen fishery products includes Alaska and Hawaii]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1975	1980	1983 [1]	1984 [1]	1985 [1]	1986 [1]	1975	1980	1983 [1]	1984 [1]	1985 [1]	1986 [1]
Fish fillets and steaks [2]	131.9	202.1	230.6	252.3	245.5	260.2	137.9	261.2	362.1	410.4	440.1	538.6
Cod	15.2	31.3	51.3	69.6	57.1	62.7	14.6	43.2	68.3	96.6	89.2	127.2
Flounder	41.9	48.9	80.7	79.0	69.1	60.1	53.1	87.4	137.6	158.9	157.2	166.9
Haddock	8.2	17.2	11.7	8.5	7.5	7.9	12.3	29.0	22.0	18.6	19.0	24.4
Ocean perch, Atlantic	8.4	7.1	4.3	2.8	2.4	2.8	5.7	9.3	5.7	3.2	3.3	6.4
Whiting	.1	.6	.1	(3)	(3)	(3)	.1	.5	.1	(3)	(3)	(3)
Rockfish	5.5	14.2	17.3	18.4	18.1	16.6	3.2	12.8	22.1	23.3	25.1	23.9
Pollock, Atlantic	5.7	8.5	11.3	11.3	14.5	16.1	3.6	8.5	11.6	11.4	16.7	20.2
Other	46.9	74.3	53.9	62.7	76.8	94.0	45.3	70.5	94.7	98.4	129.6	169.6
Frozen fishery products	299.7	228.2	186.7	188.1	205.2	192.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. [1] Preliminary. [2] Fresh and frozen. [3] Included with "Other."

No. 1145. Canned Fishery Products—Production and Value: 1975 to 1986

[Data shown 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.)							
	1975	1980	1981	1982	1983	1984	1985	1986	1975	1980	1981	1982	1983	1984	1985	1986
Total [1]	1,382	1,516	1,476	1,294	1,391	1,411	1,161	1,330	1,067	1,928	1,954	1,499	1,534	1,578	1,360	1,494
Tuna	529	602	627	539	591	614	545	637	653	1,144	1,180	918	859	872	821	882
Salmon	78	200	215	112	181	200	159	142	110	376	380	174	308	322	228	265
Clam products	76	77	88	99	102	114	117	116	42	66	72	85	86	95	109	117
Mackerel [2]	10	38	36	39	46	31	15	18	3	12	12	15	17	13	7	7
Sardines, Maine	26	20	31	18	13	15	20	16	25	32	55	28	20	25	38	28
Shrimp	12	16	10	6	7	7	4	5	28	80	60	35	41	36	19	23
Crabs	3	5	2	1	1	1	1	1	10	19	7	6	6	5	2	2
Squid	8	4	9	8	(NA)	(NA)	4	(NA)	2	1	3	3	(NA)	(NA)	1	(NA)
Oysters [3]	2	(z)	(z)	1	1	6	2	3	4	(z)	1	2	2	5	2	4

NA Not available. Z Less than 500,000 pounds or $500,000. [1] Includes other products, not shown separately. [2] Includes Jack and a small amount of Pacific mackerel. [3] Includes oyster specialities.

No. 1146. Processed Fishery Products—Production and Value: 1975 to 1986

[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.[1])						VALUE (mil. dol.)					
	1975	1980	1983	1984	1985	1986, prel.	1975	1980	1983	1984	1985	1986, prel.
Total	(X)	(X)	(X)	(X)	(X)	(X)	2,651	4,942	[2] 4,741	5,211	4,936	(NA)
Packaged fresh and frozen	1,113	1,403	[2] 1,345	1,697	1,662	(NA)	1,309	2,567	2,813	[2] 3,233	3,242	(NA)
Fish not breaded:												
Fillets and steaks, raw	132	203	231	245	246	260	138	262	362	395	440	539
Dressed	55	40	97	98	132	(NA)	43	58	150	183	239	(NA)
Other [3]	26	48	59	59	(NA)	(NA)	22	37	42	46	(NA)	(NA)
Fish breaded, raw or cooked:												
Sticks	91	88	87	92	96	73	62	89	116	109	111	80
Fillets, portions, and steaks	286	326	334	325	330	356	211	368	410	407	368	412
Shellfish: Not breaded	315	497	416	489	(NA)	(NA)	534	1,302	1,200	1,438	(NA)	(NA)
Breaded, raw and cooked	128	113	126	116	(NA)	(NA)	220	321	457	414	(NA)	(NA)
Specialties, fish and shellfish	80	88	42	268	(NA)	(NA)	79	130	76	231	(NA)	(NA)
Canned products [4]	1,382	1,516	1,391	1,411	1,161	1,330	1,067	1,928	1,534	1,578	1,360	1,494
Fish and shellfish	799	1,010	987	1,042	913	1,009	920	1,782	1,394	1,438	1,269	1,394
Animal food	583	506	403	369	248	321	148	146	141	140	91	100
Cured fish [5]	55	66	55	60	58	(NA)	102	175	105	165	149	153
Salted (incl. spiced, pickled) [5]	30	43	26	37	32	(NA)	44	85	30	66	60	(NA)
Smoked	24	22	26	22	25	(NA)	56	86	67	95	86	(NA)
Dried (cod) lutefisk [6]	1	1	3	2	1	(NA)	2	4	8	4	3	(NA)
Industrial products	(X)	(X)	(X)	(X)	(X)	(X)	173	272	252	234	182	175
Meal and scrap (mil. tons)	(z)	(z)	(z)	(z)	(z)	(z)	66	134	130	(NA)	84	83
Oil (body and liver)	246	313	399	373	285	337	33	58	67	61	42	44
Fish solubles (mil. tons)	(z)	(z)	(z)	(z)	(z)	(z)	9	14	16	15	19	12
Other	(X)	(X)	(X)	(X)	(X)	(X)	67	66	39	(NA)	37	36

NA Not available. X Not applicable. Z Less than 500,000 tons. [1] Except as indicated. [2] Detail will not add to total. [3] Includes bait and unbreaded portions. [4] Includes salmon eggs for bait. [5] Includes sun-dried and freeze-dried. [6] In 1975 dried cod was included in salted.

Source of tables 1144–1146: 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. 1147. Supply of Tuna, Salmon, and Sardines: 1970 to 1986

[In millions of pounds. 1979–86 preliminary]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Tuna: Domestic landings, live weight	478	570	566	508	500	490	473	586	583	516	557
Imports, fresh and frozen, live weight	465	517	[1] 870	810	770	770	589	534	497	483	568
Canned tuna, total supply	510	582	757	674	666	698	626	713	777	759	[1] 873
Canned salmon, for U.S. consumption	168	59	116	98	126	152	71	127	151	113	87
Domestic pack	183	78	149	149	200	215	112	181	200	159	142
Exports	17	23	33	51	74	63	41	54	49	48	59
Imports	2	3	(z)	(z)	(z)	(z)	(z)	(z)	1	2	5
Canned sardines, total supply	66	57	75	80	71	86	68	48	59	77	69
Imports	47	31	49	50	51	55	50	35	45	57	53

Z Less than 500,000 lb. [1] Record.

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. 1148. Fishery Products—Imports and Exports: 1970 to 1986

[See also *Historical Statistics, Colonial Times to 1970*, series L 227–235]

YEAR	IMPORTS				EXPORTS			
	Total value (mil. dol.)	Edible products		Non-edible, value (mil. dol.)	Total value (mil. dol.)	Edible products		Non-edible, value (mil. dol.)
		Quantity (mil. lb.)	Value (mil. dol.)			Quantity (mil. lb.)	Value (mil. dol.)	
1970	1,037	1,873	813	225	118	140	94	24
1975	1,637	1,913	1,367	270	305	218	267	37
1980	3,648	2,145	2,687	962	1,006	574	904	102
1983	5,129	2,387	3,627	1,502	1,021	602	908	[1] 114
1984	5,863	2,454	3,742	2,141	949	574	842	106
1985	6,679	2,754	4,064	2,614	1,084	648	1,010	73
1986, prel.	[1] 7,626	[1] 2,979	[1] 4,813	[1] 2,813	[1] 1,356	[1] 735	[1] 1,290	66

[1] Record.

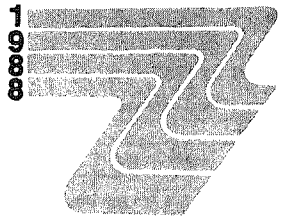
No. 1149. Selected Fishery Products—Imports and Exports: 1983 to 1986

[Includes Puerto Rico. See *Historical Statistics, Colonial Times to 1970*, series L 312–318, for selected imports]

PRODUCT	QUANTITY (mil. lb.)				VALUE (mil. dol.)				Rank of three major foreign sources, 1986
	1983	1984	1985	1986, prel.	1983	1984	1985	1986, prel.	
IMPORTS									
Edible [1]	**2,386.8**	**2,454.3**	**2,754.0**	**2,978.9**	**3,626.7**	**3,742.3**	**4,064.3**	**4,813.5**	(X)
Fresh or frozen [1]	2,051.5	2,057.1	2,229.0	2,423.7	3,211.9	3,281.3	3,461.6	4,150.0	(X)
Halibut [2]	6.1	8.1	12.8	11.3	11.2	13.7	22.1	25.2	Canada, Japan, Norway
Salmon [2]	14.4	21.1	27.0	40.5	33.4	56.5	75.6	100.7	Norway, Canada, Chile
Tuna	505.2	404.2	478.8	563.8	240.0	215.9	266.3	298.8	South Korea, Seychelles, Venezuela
Groundfish fillets, blocks [3]	682.6	624.0	639.8	651.0	708.0	631.1	655.3	790.6	Canada, Iceland, Denmark
Other fillets and steaks	141.5	165.7	231.0	251.4	188.0	238.3	333.7	416.1	(X)
Scallops (meats)	34.3	27.3	42.0	47.9	158.7	117.3	147.1	192.6	Canada, Japan, Peru
Lobster, American and spiny	63.8	73.4	77.4	79.3	364.0	435.7	464.9	464.9	Canada, Australia, Brazil
Shrimp and prawn	328.3	328.9	342.8	384.3	1,198.0	1,189.9	1,120.7	1,404.9	Mexico, Ecuador, China: Taiwan
Canned [1]	257.6	316.4	414.4	438.8	330.4	372.9	465.8	500.4	(X)
Anchovies, in oil	3.8	4.9	5.0	5.6	8.1	10.9	11.3	16.5	Spain, Portugal, Morocco
Salmon	.3	.1	1.9	4.6	1.5	.1	5.8	13.2	W. Germany, Canada, Japan
Sardines, in oil	17.2	17.5	23.0	22.9	21.2	23.4	27.0	28.5	Norway, Portugal, Canada
Sardines and herring [4]	23.7	31.5	39.8	36.0	21.5	24.8	30.3	30.4	Peru, Canada, Iceland
Tuna	122.3	162.3	213.9	236.6	137.3	167.3	209.1	228.6	Thailand, China: Taiwan, Philippines
Crab meat	6.5	6.2	7.6	8.8	20.6	20.0	21.9	24.0	Thailand, Malaysia, Venezuela
Oysters	21.6	23.0	28.9	32.1	24.8	26.2	30.2	32.3	Hong Kong, South Korea, Japan
Pickled or salted	60.9	61.1	57.1	61.4	56.1	55.5	53.4	62.2	(X)
Cod, haddock, hake, pollock, cusk	37.7	38.0	34.7	36.9	42.9	42.3	41.2	49.5	Canada, Norway, Spain
Nonedible scrap and meal	**135.9**	**166.9**	**510.7**	**370.0**	**21.8**	**26.5**	**61.7**	**47.2**	(X)
EXPORTS									
Canned salmon	54.5	49.0	48.2	59.4	97.0	86.8	83.1	101.2	(X)
Fish oil, nonedible	**404.1**	**399.4**	**279.1**	**192.2**	**59.8**	**71.0**	**36.8**	**20.8**	(X)

X Not applicable. [1] Includes products not shown separately. [2] Excludes fillets. [3] Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting. [4] Not in oil.

Source of tables 1148 and 1149: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service *Fishery Statistics of the United States*, annual; and *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.



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 three-volume *Minerals Yearbook,* published by the Bureau of Mines, Department of the Interior, and various monthly and annual publications of the Energy Information Administration, Department of Energy. See text, section 19 for list of Department of Energy publications. In addition, the Bureau of the Census conducts a census of mineral industries every 5 years. Non-government sources include the *Annual Statistical Report* of the American Iron and Steel Institute, Washington, DC; *Metals Week* and the monthly *Engineering and Mining Journal,* issued by the McGraw-Hill Publishing Co., New York, NY; *The Iron Age,* issued weekly by the Chilton Co., Philadelphia, PA; and the *Joint Association Survey of the U.S. Oil and Gas Industry,* conducted jointly by the American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association.

Mineral statistics, with principal emphasis on commodity detail, have been collected by the Geological Survey or by the Bureau of Mines since 1880. Current data in Bureau of Mines publications include quantity and value of nonfuel minerals produced, sold or used by producers, or shipped; quantity of minerals stocked; crude materials treated and prepared minerals recovered; and consumption of mineral raw materials. The U.S. Mine Safety and Health Administration also collects and publishes data on workhours, employment, accidents, and injuries in the mineral industries, except petroleum and natural gas. In October 1977, mineral fuel data collection activities of the Bureau of Mines were transferred to the Energy Information Administration.

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every fifth year for years ending in "2" and "7." The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series.

In general, figures shown in the individual commodity tables include data for outlying areas, and may therefore not agree with summary table 1154. 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.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986.* For cross-references, see Appendix V.

No. 1150. Summary of Mineral Operations: 1958 to 1982

[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
Establishments [1]	Number	36,392	38,651	28,579	25,269	31,359	73,005
With 20 or more employees [1]	Number	6,045	5,499	5,682	5,312	6,632	10,272
Including all operations in manufactures [1]	Number	37,966	40,532	29,688	26,178	31,967	73,349
Excluding oil and gas extraction	Number	19,444	19,290	13,330	11,680	13,520	12,838
Employees, total	1,000	734	616	567	595	799	1,114
Production workers [2]	1,000	565	482	433	443	593	762
All other	1,000	169	134	134	152	206	352
Worker-hours, production workers [2]	Million	1,081	973	892	909	1,183	1,578
Workerhours per production workers	1,000	1.9	2.0	2.1	2.1	2.0	2.1
Payroll, total	Mil. dol	3,749	3,743	4,187	6,226	13,167	28,637
Wages, production workers [2]	Mil. dol	2,623	2,680	2,888	4,250	9,082	18,030
Salaries, all other employees	Mil. dol	1,126	1,063	1,299	1,976	4,085	10,607
Cost of supplies, etc. [3]	Mil. dol	7,521	8,974	10,576	14,884	46,079	109,697
Value added in mining	Mil. dol	13,385	15,910	19,330	26,471	68,013	188,056
Metal mining	Mil. dol	1,180	1,418	1,557	2,382	3,504	3,215
Coal mining	Mil. dol	1,780	1,727	2,091	3,754	11,266	18,631
Oil and gas extraction	Mil. dol	9,033	11,020	13,394	17,612	48,587	159,937
Nonmetallic minerals mining	Mil. dol	1,392	1,745	2,288	2,723	4,656	6,273
Value of shipments and receipts [4]	Mil. dol	16,373	18,804	22,784	36,319	96,375	250,000
Capital expenditures	Mil. dol	2,804	3,264	4,058	5,036	17,718	47,753

[1] Data for 1982 are not comparable to prior years. [2] See footnote 5, table 1153. [3] Includes purchased machinery installed. [4] See footnote 7, table 1153.

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

No. 1151. Gross National Product in Mining: 1970 to 1986

[In billions of dollars, except percent. For definition of gross national product, see text, section 14. Based on 1972 Standard Industrial Classification]

INDUSTRY	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Total mining	**16.7**	**41.3**	**46.0**	**50.2**	**56.5**	**72.7**	**107.3**	**143.7**	**132.1**	**118.4**	**119.4**	**118.2**	**95.3**
Percent of total gross national product	1.8	2.6	2.6	2.5	2.5	2.9	3.9	4.7	4.2	3.5	3.2	2.9	2.3
Metal mining	1.5	1.6	2.0	1.9	2.2	3.3	3.8	3.9	2.3	2.5	2.2	2.3	2.6
Coal mining	3.0	9.1	9.2	9.6	10.2	11.4	12.9	13.8	15.1	14.3	14.6	14.4	13.6
Oil and gas extraction	12.2	27.4	31.5	34.9	39.6	53.1	84.9	120.8	110.2	96.4	96.4	95.3	73.1
Nonmetallic minerals, exc. fuels	1.9	3.2	3.3	3.8	4.4	4.8	5.6	5.2	4.5	5.1	6.2	6.2	5.9

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 1987 issue.

No. 1152. Mining and Primary Metal Production Indexes: 1970 to 1986

[1977 = 100. See also *Historical Statistics, Colonial Times to 1970*, series M 68–71]

INDUSTRY GROUP	1970	1974	1975	1976	1978	1979	1980	1981	1982	1983	1984	1985	1986
Mining	**98.9**	**98.8**	**96.6**	**97.4**	**103.6**	**106.4**	**112.4**	**117.5**	**109.3**	**102.9**	**111.1**	**108.8**	**99.6**
Coal	88.2	87.3	93.8	97.7	96.0	111.6	118.4	117.8	119.9	113.3	128.1	126.8	124.2
Anthracite	165.5	112.4	105.7	105.4	85.8	82.0	102.5	92.2	78.0	70.0	70.6	66.6	65.9
Bituminous	87.1	87.0	93.7	97.6	96.1	112.0	118.6	118.0	120.3	113.8	128.7	127.4	124.9
Oil and gas extraction	100.2	99.6	97.3	95.6	104.5	104.2	111.5	117.8	110.9	102.8	109.1	106.2	94.7
Crude oil and natural gas	115.9	107.8	101.9	99.4	102.8	101.8	103.2	102.3	100.1	96.8	99.9	99.5	97.4
Oil and gas drilling	48.7	72.3	82.0	82.4	117.6	119.5	164.1	214.1	178.8	139.9	165.5	147.5	77.7
Metal mining	127.3	112.1	104.6	114.0	107.3	113.4	103.8	113.2	71.4	65.2	77.0	75.0	71.8
Iron ore	162.8	153.5	144.1	143.5	146.5	154.5	125.4	134.9	66.4	66.8	92.1	87.7	70.7
Nonferrous ores	116.3	99.4	92.5	105.0	90.6	95.9	94.6	104.0	73.5	63.7	70.6	69.6	72.7
Copper ore	112.9	105.6	92.9	105.8	98.5	104.8	85.2	110.9	82.6	75.9	78.6	79.4	83.3
Lead and zinc ores	105.7	111.1	104.4	103.6	88.0	83.4	91.7	78.6	86.2	75.9	60.3	66.0	57.9
Primary metals, manufacturing	**94.8**	**110.7**	**88.2**	**98.7**	**107.0**	**108.5**	**90.4**	**95.0**	**65.8**	**73.0**	**82.3**	**80.5**	**75.8**
Nonferrous metals	82.9	103.6	81.0	93.5	106.1	109.6	98.3	99.7	81.4	86.2	99.3	99.7	99.0
Copper	126.7	109.4	95.7	107.8	106.5	114.5	88.6	106.4	77.3	80.1	90.2	92.1	92.4
Aluminum	87.6	108.0	85.5	93.4	105.8	110.7	112.7	109.1	79.6	81.4	99.3	84.9	73.8
Iron and steel	102.1	114.5	92.0	101.4	107.5	108.0	86.3	92.5	57.5	66.1	73.4	70.4	63.4

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

No. 1153. Mineral Industries—Summary: 1972 to 1982

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

MINERAL INDUSTRY	1972			1977					1982									
				Establishments		All employees			Establishments [4]		All employees		Production workers [5]					
	Establishments	All employees, payroll [1] (mil. dol.)	Value added in mining [2] (mil. dol.)	Total	With 20 or more employees	Number [3] (1,000)	Payroll [1] (mil. dol.)	Value added in mining [2] (mil. dol.)	Total	With 20 or more employees	Number [3] (1,000)	Payroll [1] (mil. dol.)	Number (1,000)	Hours [6] (millions)	Wages (mil. dol.)	Value added in mining [2] (mil dol.)	Value of shipments and receipts [7] (mil. dol.)	Capital expenditures (mil. dol.)
All industries	**25,269**	**6,226**	**26,471**	**31,359**	**6,632**	**799**	**13,167**	**68,013**	**73,005**	**10,272**	**1,114**	**28,637**	**762**	**1,578**	**18,030**	**188,056**	**250,000**	**47,753**
Metal mining	**1,014**	**853**	**2,382**	**1,206**	**328**	**88**	**1,485**	**3,504**	**1,515**	**328**	**68**	**1,860**	**47**	**90**	**1,222**	**3,215**	**5,287**	**1,161**
Iron ores	111	218	702	97	61	19	372	1,046	78	40	12	340	7	13	201	770	1,414	63
Copper ores	181	387	1,025	133	61	33	544	1,067	81	51	22	604	16	30	429	672	1,551	423
Lead and zinc ores	101	72	200	88	41	7	105	329	71	28	4	112	3	6	71	201	318	57
Gold and silver ores	132	30	61	175	20	5	71	161	371	80	10	263	7	15	181	650	741	238
Gold ores and placers	81	20	47	126	8	3	40	78	286	59	8	188	5	10	120	479	521	205
Silver ores	51	10	14	49	12	2	32	83	85	21	3	75	2	5	61	171	220	33
Bauxite	10	4	24	12	6	(z)	7	31	8	4	(z)	9	(z)	(z)	6	15	30	5
Ferroalloy ores, except vanadium	44	40	137	56	17	6	107	256	69	16	5	150	3	6	88	146	206	110
Metal mining services	172	31	54	270	42	3	52	112	394	22	3	61	2	4	42	90	125	27
Miscellaneous metal ores	263	71	180	375	80	14	227	502	443	87	12	323	8	17	205	671	902	240
Anthracite mining	**230**	**35**	**68**	**176**	**43**	**4**	**51**	**123**	**173**	**41**	**4**	**69**	**3**	**6**	**57**	**176**	**293**	**23**
Anthracite	213	32	63	156	38	3	48	116	152	40	3	67	3	6	56	172	287	23
Anthracite mining services	17	3	5	20	5	(z)	4	7	21	1	(z)	2	(z)	(z)	2	5	7	1
Bituminous coal, lignite mining	**3,365**	**1,742**	**3,685**	**5,275**	**1,690**	**242**	**4,120**	**11,143**	**5,005**	**1,856**	**248**	**6,736**	**198**	**380**	**5,188**	**18,455**	**28,261**	**3,199**
Bituminous coal and lignite	3,191	1,714	3,626	4,944	1,610	235	4,005	10,837	4,513	1,767	241	6,570	193	370	5,056	18,041	27,695	3,141
Coal mining services, n.e.c	174	29	60	331	80	7	115	306	492	89	7	166	6	11	132	414	565	58
Oil and gas extraction	**14,498**	**2,525**	**17,612**	**18,447**	**3,128**	**349**	**5,902**	**48,587**	**60,511**	**6,814**	**685**	**17,693**	**434**	**939**	**10,033**	**159,937**	**207,091**	**42,216**
Crude petroleum and natural gas	7,609	1,375	14,422	8,573	981	140	2,738	38,327	27,538	1,994	264	8,084	102	214	2,725	126,035	134,969	34,281
Natural gas liquids	680	117	1,019	692	209	13	227	3,286	793	236	14	402	12	24	323	8,865	41,010	1,131
Oil and gas field services	6,209	1,033	2,172	9,182	1,938	196	2,936	6,974	32,160	4,584	406	9,207	320	701	6,985	25,037	31,112	6,804
Drilling oil and gas wells	1,907	422	881	2,625	840	79	1,317	3,307	10,123	1,810	166	4,007	139	296	3,241	11,316	13,798	4,206
Oil and gas exploration services	715	89	212	1,252	116	18	220	545	4,228	389	42	810	33	73	622	2,307	2,960	391
Oil and gas field services, n.e.c	3,587	522	1,079	5,305	982	99	1,399	3,122	17,809	2,385	199	4,391	148	332	3,123	11,415	14,354	2,207
Nonmetallic minerals mining	**6,162**	**1,070**	**2,723**	**6,255**	**1,443**	**117**	**1,609**	**4,656**	**5,801**	**1,233**	**110**	**2,278**	**80**	**164**	**1,530**	**6,273**	**9,068**	**1,154**
Dimension stone [8]	198	13	26	209	23	2	19	39	154	22	2	21	1	2	16	50	64	3
Crushed and broken stone [9]	1,937	388	982	2,055	655	41	543	1,501	1,932	567	37	701	28	57	494	1,787	2,572	269
Sand and gravel [9]	2,929	322	776	2,807	430	31	418	1,017	2,758	343	28	520	21	42	380	1,336	1,877	211
Clay and related minerals [9]	309	78	198	255	103	10	136	358	224	97	11	212	8	16	139	510	887	107
Chemical and fertilizer minerals	204	203	583	205	112	24	372	1,433	196	114	26	681	16	35	395	2,237	3,135	519
Nonmetallic minerals, services	126	11	20	176	33	2	36	70	222	18	2	35	1	3	26	70	101	7
Miscellaneous [9]	459	55	138	548	87	7	87	238	315	72	6	109	5	10	81	283	433	37

Z Less than 500 or 500,000. [1] Gross earnings paid to all employees on payroll. [2] Computed by subtracting cost of supplies, minerals received for preparation, purchased fuel and electric energy, contract work, and purchased machinery from the value of shipments and capital expenditures. [3] Excludes proprietors and firm members of unincorporated concerns. [4] Not comparable to prior years for the crude petroleum and natural gas and mining service industries. [5] Represents employees up through the working foreman level engaged in manual work. Includes development and exploration workers. [6] Excludes paid vacations, holidays, and sick leave; includes actual overtime hours (not straight-time equivalent). [7] 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. [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: 1972, 1977,* and *1982,* final industry series reports.

NO. 1154. MINERAL PRODUCTION AND VALUE, 1970 TO 1985,

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

	MINERAL	PRODUCTION QUANTITY							
		Unit	1970	1980	1981	1982	1983	1984	1985
1	**Total mineral production**	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
2	**Mineral fuels**	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
3	Coal: Bituminous and lignite	Mil. sh. ton	603	824	818	834	778	892	879
4	Pennsylvania anthracite	Mil. sh. ton	10	6	5	5	4	4	5
5	Natural gas (wet)	Tril. cu. ft	21.92	20.18	19.96	18.52	16.82	18.23	17.20
6	Petroleum (crude)	Mil. bbl. [1]	3,517	3,146	3,129	3,157	3,171	3,250	3,274
7	Uranium [2]	Mil. lb	23.1	43.7	38.5	26.9	21.2	14.9	11.3
8	**Nonmetallic minerals**	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
9	Abrasive stone [3]	Sh. ton	3,055	631	2,501	1,285	1,101	1,290	1,157
10	Asbestos	1,000 sh. ton	125	88	83	70	77	63	63
11	Asphalt and related bitumens (native) [4]	1,000 sh. ton	1,981	1,252	1,261	(D)	(D)	(D)	(D)
12	Barite	1,000 sh. ton	854	2,245	2,849	1,845	754	775	739
13	Boron minerals	1,000 sh. ton	1,041	1,545	1,481	1,234	1,303	1,367	1,269
14	Bromine	Mil. lb	350	378	377	401	370	385	320
15	Calcium chloride	1,000 sh. ton	693	581	705	617	(D)	838	(D)
16	Carbon dioxide, natural (estimate)	Mil. cu. ft	1,110	1,628	1,577	2,068	–	–	–
17	Cement: Portland	Mil. sh. ton	73.2	71.6	68.2	61.1	67.2	74.4	74.3
18	Masonry	Mil. sh. ton	3.0	3.0	2.7	2.4	2.9	3.3	3.2
19	Clays	Mil. sh. ton	54.9	48.8	44.4	35.3	40.9	43.7	45.0
20	Diatomite	1,000 sh. ton	598	689	687	613	619	627	635
21	Feldspar	1,000 sh. ton	726	710	665	615	710	710	700
22	Fluorspar	1,000 sh. ton	269	93	115	77	61	72	66
23	Garnet (abrasive)	1,000 sh. ton	18.8	26.9	25.5	27.3	29.8	29.6	36.7
24	Gem stones (estimate)	(X)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
25	Gypsum	Mil. sh. ton	9.4	12.4	11.5	10.5	12.9	14.3	14.7
26	Helium [5]	Mil. cu. ft	4,600	1,458	1,398	1,248	1,299	1,642	1,865
27	Lime	Mil. sh. ton	19.7	19.0	18.9	14.1	14.9	15.9	15.7
28	Magnesium compounds [7]	1,000 sh. ton	708	(D)	(D)	(D)	618	(D)	(D)
29	Mica: Scrap	1,000 sh. ton	119	116	133	106	140	161	138
30	Peat	1,000 sh. ton	526	788	757	769	725	814	882
31	Perlite	1,000 sh. ton	456	638	591	506	474	498	507
32	Phosphate rock	Mil. sh. ton	38.7	60.0	59.1	41.2	46.9	54.2	56.0
33	Potash [8]	1,000 sh. ton	2,729	2,444	2,103	1,967	1,668	1,807	1,396
34	Pumice	1,000 sh. ton	3,036	543	499	416	449	502	508
35	Pyrites	1,000 lg. ton	(D)	834	784	665	(D)	(D)	(D)
36	Salt (common)	Mil. sh. ton	45.9	40.4	38.9	37.9	34.6	39.2	39.5
37	Sand and gravel	Mil. sh. ton	944	793	720	621	682	803	830
38	Sodium carbonate (natural)	1,000 sh. ton	2,688	(D)	(D)	(D)	(D)	(D)	(D)
39	Sodium sulfate (natural)	1,000 sh. ton	602	583	608	(D)	423	435	389
40	Stone [9]	Mil. sh. ton	869	982	974	791	863	957	1,002
41	Sulfur: Frasch mines (shipments)	1,000 lg. ton	6,504	7,283	5,817	3,541	4,046	4,922	4,604
42	Talc, soapstone, pyrophyllite	1,000 sh. ton	1,028	1,473	1,343	1,135	1,066	1,127	1,269
43	Tripoli	1,000 sh. ton	68	121	107	113	111	124	(D)
44	Vermiculite	1,000 sh. ton	285	337	320	316	282	315	314
45	Nonmetallic minerals, undistributed [10]	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
46	**Metals**	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
47	Antimony ore and concentrate	Sh. ton [11]	1,130	343	646	503	838	557	(D)
48	Bauxite (dried)	1,000 lg. ton [12]	2,082	1,534	1,486	720	668	842	663
49	Copper [2]	1,000 sh. ton	1,720	1,302	1,696	1,264	1,144	1,215	1,219
50	Gold [2]	1,000 fine oz	1,743	970	1,379	1,466	2,003	2,085	2,475
51	Iron ore, usable [14]	Mil. lg. ton [15]	87.2	69.6	72.2	35.8	44.3	(D)	(D)
52	Lead [2]	1,000 sh. ton	572	607	491	565	495	356	456
53	Manganiferous ore [16]	1,000 sh. ton [15]	368	174	175	32	34	88	20
54	Mercury	76 lb. flask	27,296	30,657	27,904	25,760	25,070	19,048	16,530
55	Molybdenum [17]	Mil. lb	110	149	119	76	49	102	112
56	Nickel [18]	1,000 sh. ton	15.9	14.7	12.1	3.2	–	14.5	6.1
57	Silver [2]	Mil. fine oz	45.0	32.3	40.7	40.2	43.4	44.6	39.4
58	Titanium concentrate: Ilmenite [2]	1,000 sh. ton [15]	921	594	524	233	(D)	(D)	(D)
59	Tungsten ore and concentrate	1,000 lb. [19]	9,312	6,036	7,815	3,473	2,240	2,586	2,167
60	Vanadium [2]	Sh. ton	5,319	4,806	5,126	4,098	2,171	1,617	(D)
61	Zinc mine production [2]	1,000 sh. ton	534	350	344	334	303	279	250
62	Metals, undistributed [10]	(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] Grindstones, pulpstones, millstones, grinding pebbles, sharpening stones, and tubemill liners. [4] Contains bituminous limestone and sandstone, and gilsonite. [5] Value included in "Nonmetallic minerals, undistributed." [6] 1970–1981, crude and refined; 1982–1985, refined only. [7] From sea water and brines, except for metals (M_gO equiv.).

[8] K_2O equivalent; represents sales by producers. [9] Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table. Includes calcareous marl and slate.

AND PRINCIPAL PRODUCING STATES, 1985

(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, 1985	
1970	1980	1981	1982	1983	1984	1985		
28,369.7	**146,750.0**	**187,187.0**	**179,062.0**	**168,868.0**	**179,191.1**	**166,808.6**	(x)	1
18,800.0	**121,616.0**	**161,899.0**	**159,395.0**	**147,748.0**	**156,030.1**	**143,575.6**	(x)	2
3,770.0	20,200.0	21,510.0	22,620.0	20,110.0	22,749.8	22,050.0	KY, WY, WV, PA, IL.	3
110.0	260.0	240.0	230.0	210.0	202.5	190.0	PA.	4
3,730.0	32,090.0	39,510.0	45,560.0	43,570.0	48,491.8	42,580.0	TX, LA, OK, NM.	5
11,190.0	67,930.0	99,400.0	90,030.0	83,050.0	84,100.0	78,400.0	TX, AK, LA, CA.	6
(NA)	1,136.0	1,239.0	955.0	808.0	486.0	355.6	WY, NM, TX.	7
5,791.2	**16,213.0**	**16,446.0**	**14,150.0**	**15,263.0**	**17,157.0**	**17,612.0**	(x)	8
.6	1.9	1.1	.6	.5	.6	.5	AR, WI, OH.	9
10.7	30.6	30.7	24.9	27.9	24.2	20.5	CA and VT.	10
8.9	25.0	27.7	(D)	(5)	(5)	(5)	TX and UT.	11
12.8	66.0	102.4	69.5	29.2	25.4	21.5	NV, GA, MO, MT.	12
86.8	366.8	435.4	384.6	439.2	456.7	404.8	CA.	13
60.6	95.4	90.2	102.6	91.0	95.0	80.0	AR and MI.	14
15.2	47.9	61.7	61.5	(5)	93.0	(5)	MI, CA, WA.	15
.2	2.6	2.6	3.4	–	–	–	(x)	16
1,268.7	3,613.3	3,515.6	3,084.4	3,315.7	3,810.4	3,817.3	TX, CA, PA, MI.	17
67.5	188.5	161.8	145.2	186.2	219.9	213.1		18
267.9	898.9	988.8	825.1	931.1	1,032.1	1,011.4	GA, TX, NC, WY.	19
32.6	100.6	113.0	107.6	114.3	120.9	127.0	CA, NV, WA, OR.	20
9.6	23.2	21.0	20.3	22.5	23.5	22.8	NC, CT, GA, CA.	21
13.9	12.6	18.4	13.3	10.0	(5)	(5)	IL, NV, TX.	22
1.9	1.9	2.1	2.3	2.5	2.5	3.0	ID, ME, NY.	23
2.4	6.9	7.6	7.2	7.4	7.5	7.4	(x)	24
35.1	103.1	98.1	89.1	101.4	113.7	114.2	TX, MI, IA, OK.	25
64.2	30.2	33.9	42.4	45.5	61.6	69.9	KS, TX, NM.	26
286.2	842.9	884.2	696.2	757.6	811.2	809.0	OH, KY, MD, PA.	27
62.4	(5)	(5)	(5)	182.5	(5)	(5)	MI, CA, UT, DE.	28
2.5	6.3	8.2	6.4	6.5	7.1	6.3	NC, NM, SC, GA.	29
6.0	16.2	18.8	16.9	18.7	19.9	21.9	MI, FL, IN, IL.	30
4.9	16.5	17.5	16.0	15.7	16.6	17.2	NM, CA, AZ, NV.	31
203.2	1,256.9	1,438.0	950.3	1,021.1	1,182.2	1,203.3	FL, NC, ID, TN.	32
98.1	353.9	328.9	265.6	220.8	241.8	178.4	NM, UT, CA.	33
4.7	4.3	4.3	3.8	4.5	4.9	4.6	OR, NM, CA, ID.	34
(5)	13.8	49.2	41.9	(5)	(5)	(5)	TN, CO, AZ.	35
304.8	656.2	637.6	671.4	597.1	675.1	741.8	LA, TX, NY, OH.	36
1,115.7	2,289.0	2,260.3	1,997.8	2,270.2	2,621.2	2,812.1	CA, TX, MI, AZ.	37
56.3	(5)	(5)	(5)	(5)	(5)	(5)	WY and CA.	38
10.9	36.4	43.2	(5)	39.4	40.1	35.9	CA, TX, UT.	39
1,474.9	3,393.5	3,275.4	3,056.0	3,474.8	3,910.5	4,224.7	TX, FL, PA, GA.	40
151.8	720.5	715.7	434.7	414.2	546.1	573.6	TX and LA.	41
7.8	25.6	31.5	20.7	20.3	23.2	29.2	MT, TX, VT, NY.	42
.5	.7	.6	.7	.7	.7	(5)	IL and OK.	43
6.5	23.5	26.2	28.5	27.2	31.5	32.4	MT, SC, VA.	44
34.4	941.2	994.1	959.3	867.5	937.9	1,007.9	(x)	45
3,778.5	**8,921.0**	**8,842.0**	**5,517.0**	**5,857.0**	**6,004.0**	**5,621.0**	(x)	46
(12)	(12)	(12)	(12)	(12)	(12)	(12)	ID.	47
30.1	22.4	26.5	12.3	11.3	15.6	12.9	AR and AL.	48
1,984.5	2,666.9	2,886.4	1,840.9	1,751.5	1,625.1	1,632.5	AZ, NM, UT, MT.	49
63.4	594.1	633.9	551.0	849.1	751.8	786.3	NV, SD, CA, MT.	50
941.7	2,543.5	2,914.7	1,491.7	1,938.5	(12)	(12)	MN, MI, MO, TX.	51
178.6	515.2	358.8	288.6	214.7	181.7	174.0	MO, ID, CO, NY.	52
(12)	2.4	2.9	.3	.2	.9	(12)	SC.	53
11.1	11.9	11.5	(12)	(12)	(12)	(12)	NV.	54
190.1	1,344.2	945.5	504.1	166.6	326.8	347.8	CO, AZ, ID, NM.	55
(12)	(12)	(12)	(12)	–	(12)	(12)	OR.	56
79.7	667.3	427.9	320.0	496.9	363.0	241.7	ID, NV, AZ, MT.	57
18.6	32.0	37.0	19.1	(12)	(12)	(12)	FL.	58
23.8	50.6	62.2	22.1	10.5	13.4	9.1	CA and CO.	59
34.9	64.4	71.5	52.6	30.7	24.6	(12)	ID and AR.	60
163.7	261.7	306.9	257.1	251.2	270.8	201.6	TN, MO, NY, NJ.	61
58.4	144.8	156.2	157.6	135.6	2,430.4	2,214.9	(x)	62

[10] Comprises value of items that cannot be disclosed. [11] Antimony content. [12] Included with "Metals, undistributed." [13] Dried equivalent. [14] Represents shipments; beginning 1976, includes byproduct ores. [15] Gross weight. [16] 5 to 35 percent manganiferous ore. [17] Content of concentrate. [18] Content of ore and concentrate. [19] Tungsten content.

Source: U.S. Bureau of Mines, *Minerals Yearbook*. Beginning 1980 for mineral fuels, U.S. Energy Information Administration, *Annual Energy Review*.

No. 1155. Mineral Industries—States: 1972 to 1982

[Represents establishments classified in the mineral industries only. Excludes data for stone, sand and gravel, clay and gypsum mines operated as parts of manufacturing establishments. See headnote, table 1153. For composition of regions, see fig. I, inside front cover]

Region, division, and state	1972		1977		1982				
	All employees (1,000)	Value added in mining (mil. dol.)	All employees (1,000)	Value added in mining (mil. dol.)	Establishments: Total	Establishments: With 20 employees or more	All employees: Number (1,000)	All employees: Payroll (mil. dol.)	Value added in mining (mil. dol.)
United States [1]	**595.1**	**26,471**	**798.8**	**68,013**	**73,005**	**10,272**	**1,114.0**	**28,637**	**188,056**
Region:									
Northeast	56.7	1,155	65.6	2,576	3,004	550	63.6	1,606	3,639
Midwest	97.6	2,983	117.1	6,545	12,583	1,151	135.3	3,405	14,352
South	320.3	17,117	449.3	45,061	45,577	6,591	681.3	17,105	119,231
West	120.4	5,215	163.6	13,588	11,760	1,938	228.4	6,367	48,028
New England	**3.8**	**76**	**3.8**	**99**	**336**	**55**	**4.4**	**119**	**168**
Maine	.3	6	.3	5	28	1	.1	2	5
New Hampshire	.2	6	.2	8	28	3	.3	7	17
Vermont	.8	14	.7	25	46	12	.8	15	36
Massachusetts	1.5	28	1.3	32	118	13	1.1	25	54
Rhode Island	.3	4	.1	5	20	2	.2	3	7
Connecticut	.7	18	1.2	24	96	24	1.9	68	47
Middle Atlantic	**52.9**	**1,079**	**61.8**	**2,477**	**2,668**	**495**	**59.2**	**1,487**	**3,472**
New York	7.7	154	7.1	218	598	70	7.8	205	415
New Jersey	3.3	78	3.0	93	165	40	3.4	102	120
Pennsylvania	41.9	847	51.7	2,166	1,905	385	48.0	1,180	2,937
East North Central	**60.8**	**1,592**	**75.7**	**3,762**	**5,738**	**667**	**83.1**	**2,137**	**7,675**
Ohio	20.1	465	27.6	1,181	2,196	255	28.9	708	2,325
Indiana	6.3	211	8.4	392	711	98	10.3	269	786
Illinois	20.5	546	25.8	1,163	1,682	199	31.3	845	2,544
Michigan	11.4	306	11.3	939	941	91	10.7	277	1,935
Wisconsin	2.5	64	2.6	87	208	24	1.9	38	86
West North Central	**36.8**	**1,391**	**41.4**	**2,783**	**6,845**	**484**	**52.2**	**1,268**	**6,677**
Minnesota	11.7	498	11.5	699	170	35	9.2	248	599
Iowa	2.5	53	2.9	88	216	26	2.1	38	104
Missouri	8.9	218	8.1	396	394	65	7.9	198	418
North Dakota	1.5	84	2.5	325	1,037	103	8.5	226	1,999
South Dakota	1.8	32	2.4	68	143	9	2.3	50	116
Nebraska	1.5	40	1.8	73	434	24	2.3	47	246
Kansas	8.9	466	12.2	1,134	4,451	222	19.9	461	3,196
South Atlantic	**92.4**	**2,174**	**117.6**	**5,406**	**4,039**	**1,049**	**113.9**	**2,727**	**8,987**
Delaware	2.2	58	2.3	79	34	3	.2	6	2
District of Columbia					141	30	2.6	59	167
Maryland									
Virginia	16.8	360	23.2	1,016	916	279	24.4	533	1,467
West Virginia	53.0	1,195	69.6	2,820	2,104	502	63.1	1,680	4,790
North Carolina	3.3	71	3.7	111	179	60	4.0	68	198
South Carolina	1.5	34	1.5	47	79	26	1.5	24	72
Georgia	6.6	158	7.4	294	210	73	7.6	142	430
Florida	9.0	298	9.9	1,039	376	76	10.5	216	1,860
East South Central	**51.9**	**1,428**	**77.0**	**4,187**	**4,664**	**877**	**88.7**	**2,146**	**8,385**
Kentucky	30.2	780	47.8	2,515	2,139	530	54.2	1,372	4,142
Tennessee	7.3	152	9.1	378	555	117	9.0	186	498
Alabama	8.8	264	14.1	787	596	115	15.9	375	1,980
Mississippi	5.6	232	6.0	507	1,374	115	9.6	213	1,766
West South Central	**176.0**	**13,515**	**254.7**	**35,468**	**36,874**	**4,665**	**478.7**	**12,232**	**101,859**
Arkansas	3.7	142	4.7	395	862	58	5.4	115	1,015
Louisiana	49.6	5,529	63.1	11,981	5,606	974	102.4	2,694	33,117
Oklahoma	26.9	1,133	43.5	3,418	9,144	1,065	104.1	2,667	13,274
Texas	95.8	6,711	143.4	19,674	21,262	2,568	266.8	6,756	54,453
Mountain	**85.3**	**3,367**	**119.9**	**8,668**	**8,858**	**1,315**	**158.9**	**4,269**	**21,859**
Montana	5.6	169	5.9	560	1,148	87	8.5	214	1,695
Idaho	2.8	51	3.3	144	191	30	3.1	87	200
Wyoming	11.5	679	22.7	2,262	2,101	323	34.2	940	6,859
Colorado	13.5	409	22.7	1,179	2,424	399	45.8	1,320	3,098
New Mexico	16.2	958	23.5	2,689	1,581	248	26.6	660	7,127
Arizona	21.1	625	21.0	751	291	54	16.6	427	748
Utah	11.4	372	16.7	911	788	121	17.5	467	1,665
Nevada	3.2	104	4.1	152	334	53	6.6	155	468
Pacific	**35.1**	**1,848**	**43.7**	**4,920**	**2,902**	**623**	**69.5**	**2,099**	**26,169**
Washington	1.9	46	2.0	85	242	21	2.8	67	162
Oregon	1.3	38	1.3	59	216	19	1.6	37	60
California	29.0	1,401	34.8	3,552	2,196	491	51.3	1,466	11,844
Alaska	2.6	354	5.5	1,216	236	88	13.4	525	14,093
Hawaii	.3	9	.1	8	12	4	.2	4	10

[1] Includes offshore areas not associated with a State.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1977, General Summary, MIC 77-SR-1* and *1982* final geographic area series.

NO. 1156. MINERAL PRODUCTION—VALUE, 1980 TO 1985, AND PRINCIPAL MINERALS IN ORDER OF VALUE, 1985, BY STATE

[In millions of dollars. Data for States may not add to total because State and U.S. totals were independently derived. For composition of regions, see fig. I, inside front cover]

REGION, DIVISION, AND STATE	1980	1982	1983	1984	1985			
					Total	Fuels	Non-fuels	Principal minerals in order of value
U.S	**146,750**	**179,062**	**168,868**	**179,191**	**166,809**	**143,755**	**23,232**	Petroleum, natural gas (wet), coal.
Region:								
Northeast	4,710	4,697	4,476	5,131	5,007	3,043	1,964	(x)
Midwest	16,286	16,877	17,128	18,842	17,667	11,660	6,007	(x)
South	78,072	109,004	(D)	(D)	(D)	(D)	7,975	(x)
West	39,262	47,339	(D)	(D)	(D)	(D)	7,270	(x)
N.E	**268**	**258**	**262**	**305**	**325**	**-**	**325**	(x)
ME	37	35	26	38	41	-	41	Sand and gravel, cement, stone.
NH	25	23	19	23	33	-	33	Sand and gravel, stone, clays.
VT	43	50	42	45	50	-	50	Stone, sand and gravel, talc.
MA	91	89	96	107	117	-	117	Stone, sand and gravel, lime.
RI	6	5	8	12	12	-	12	Stone, sand and gravel, gem stones.
CT	66	56	71	80	72	-	72	Stone, sand and gravel, feldspar.
M.A	**4,442**	**4,441**	**4,214**	**4,826**	**4,682**	**3,043**	**1,639**	(x)
NY	557	589	603	736	790	133	657	Stone, cement, salt.
NJ	149	132	155	156	178	-	178	Stone, sand and gravel, zinc.
PA	3,736	3,720	3,456	3,934	3,714	2,910	804	Coal, natural gas, stone.
E.N.C	**9,005**	**9,268**	**9,145**	**10,423**	**9,836**	**6,993**	**2,843**	(x)
OH	2,390	2,444	2,511	2,867	2,746	2,139	607	Coal, natural gas, petroleum.
IN	1,106	1,174	1,187	1,391	1,327	1,024	303	Coal, petroleum, cement.
IL	2,770	3,009	2,929	3,212	3,101	2,641	460	Coal, petroleum, stone.
MI	2,587	2,529	2,417	2,824	2,537	1,189	1,348	Petroleum, iron ore, natural gas.
WI	152	112	101	129	125	-	125	Sand and gravel, stone, lime.
W.N.C	**7,281**	**7,609**	**7,983**	**8,425**	**7,831**	**4,667**	**3,164**	(x)
MN	1,782	1,110	1,455	1,676	1,548	-	1,548	Iron ore, sand and gravel, stone.
IA	265	231	257	266	243	15	228	Stone, cement, sand and gravel.
MO	1,172	877	866	906	893	158	735	Cement, stone, lead.
ND	801	1,807	1,842	1,887	1,700	1,676	24	Petroleum, coal, natural gas.
SD	250	180	261	244	254	47	207	Gold, petroleum, cement.
NE	272	293	283	285	283	183	100	Petroleum, cement, sand and gravel.
KS	2,740	3,111	3,019	3,161	2,910	2,588	322	Petroleum, natural gas, cement.
S.A	**10,528**	**10,718**	**(D)**	**(D)**	**10,580**	**6,618**	**3,962**	(x)
DE	2	3	3	3	4	-	4	Magnesium compounds, sand and gravel, greensand.
MD	293	294	285	356	338	80	258	Stone, cement, coal.
VA	1,708	1,640	1,405	1,614	1,649	1,268	381	Coal, stone, cement.
WV	4,860	5,490	4,677	5,157	5,005	4,900	105	Coal, natural gas, petroleum.
NC	380	299	399	451	433	-	433	Stone, phosphate, lithium.
SC	195	195	231	276	276	-	276	Cement, stone, clays.
GA	771	718	(D)	(D)	946	-	946	Clays, stone, cement.
FL	2,317	2,079	1,704	1,990	1,929	370	1,559	Phosphate, petroleum, stone.
E.S.C	**8,316**	**9,692**	**8,759**	**9,790**	**9,486**	**8,237**	**1,249**	(x)
KY	4,498	5,029	4,310	4,991	4,880	4,612	268	Coal, petroleum, natural gas.
TN	674	638	639	734	715	243	472	Coal, stone, zinc.
AL	1,994	2,338	2,306	2,531	2,550	2,144	406	Coal, petroleum, natural gas.
MS	1,150	1,687	1,504	1,534	1,341	1,238	103	Petroleum, natural gas, sand and gravel.
W.S.C	**59,228**	**88,594**	**(D)**	**(D)**	**(D)**	**(D)**	**2,764**	(x)
AR	787	1,089	(D)	(D)	(D)	(D)	257	Natural gas, petroleum, bromine.
LA	16,396	31,364	29,063	31,715	(D)	(D)	522	Petroleum, natural gas, sulfur.
OK	7,336	10,762	9,942	10,693	9,361	9,109	252	Natural gas, petroleum, coal.
TX	34,710	45,379	42,515	43,418	40,178	38,445	1,733	Petroleum, natural gas, cement.
Mt	**18,862**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**4,658**	(x)
MT	1,331	1,732	1,671	1,650	1,517	1,317	200	Petroleum, coal, natural gas.
ID	522	300	415	412	348	-	348	Silver, phosphate, molybdenum.
WY	5,133	6,885	6,677	7,143	6,572	6,020	552	Petroleum, coal, natural gas.
CO	2,544	2,676	2,117	2,255	2,125	1,717	408	Petroleum, natural gas, coal.
NM	4,789	5,517	5,487	5,924	5,650	4,993	657	Natural gas, petroleum, coal.
AZ	2,476	(D)	(D)	(D)	(D)	(D)	1,550	Copper, sand and gravel, cement.
UT	1,661	2,090	2,035	2,134	1,943	1,631	312	Petroleum, coal, natural gas.
NV	408	547	629	685	710	79	631	Gold, petroleum, diatomite.
Pac	**20,400**	**(D)**	**(D)**	**(D)**	**(D)**	**(D)**	**2,612**	(x)
WA	207	(D)	(D)	(D)	(D)	(D)	244	Cement, sand and gravel, gold.
OR	152	108	111	128	140	10	130	Stone, sand and gravel, cement.
CA	10,483	12,626	11,979	12,907	(D)	(D)	2,095	Petroleum, natural gas, cement.
AK	9,498	(D)	(D)	(D)	(D)	(D)	90	Petroleum, natural gas, sand and gravel.
HI	60	47	52	51	53	-	53	Stone, cement, sand and gravel.

- Represents zero. D Withheld to avoid disclosing individual company data. X Not applicable.

Source: U.S. Bureau of the Census. Compiled from data from U.S. Bureau of Mines and U.S. Energy Information Administration.

No. 1157. Mineral Industries—Gross Assets and Capital Expenditures: 1972 to 1982

[In millions of dollars]

Industry and year	End of year gross value of depreciable assets					Capital expenditures					
	Total [1]	Buildings and other structures	Machinery and equipment	Mineral exploration and development [2]	Mineral land and rights [1]	Total [2]	New buildings and other structures	New machinery and equipment	Used buildings and other structures	Used machinery and equipment	Mineral exploration and development [2]
Mineral industries: [3]											
1972	21,690	4,244	15,038	(4)	[4] 2,409	2,802	317	1,407	(4)	[4] 128	230
1977	44,664	6,099	33,068	2,625	2,871	6,802	785	5,088	30	399	520
1982	94,613	10,228	73,419	5,036	5,930	13,472	1,229	10,551	78	937	677
Crude petroleum, natural gas:											
1972	47,500	(NA)	(NA)	(NA)	(NA)	2,954	403	842	(4)	[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

NA Not available. [1] Excludes data for mineral exploration and development, and mineral land and rights portions for mining service industries and natural gas liquids industry. [2] Excludes data for mineral exploration and development portion for mining service industries and natural gas liquids industry. [3] Excludes crude petroleum and natural gas. [4] Not collected separately. Data for mineral exploration and development are combined with mineral land and rights. Data for used buildings and other structures are combined with used machinery and equipment.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1982.*

No. 1158. Mineral Industries—Employment, Hours, and Earnings: 1983 to 1986

Item	Unit	1983	1984	1985	1986	Item	Unit	1983	1984	1985	1986
All mining:						Oil and gas extraction—Con.					
All employees	1,000	952	966	927	783	Production workers—Con.					
Production workers	1,000	673	686	658	550	Metal mining:					
Avg. weekly hours	No	42.5	43.3	43.4	42.2	All employees	1,000	56	55	46	41
Avg. weekly earnings	Dol	479	504	520	525	Production workers	1,000	41	40	34	31
Coal mining:						*Average weekly hours*	*No*	*39.3*	*40.5*	*40.9*	*41.1*
All employees	1,000	194	196	187	176	Avg. weekly earnings	Dol	494	529	547	543
Production workers	1,000	156	158	153	144	Nonmetallic minerals, except fuels:					
Average weekly hours	No	40.0	40.8	41.3	40.8	All employees	1,000	104	109	110	109
Avg. weekly earnings	Dol	548	603	626	625	Production workers	1,000	79	83	84	83
Oil and gas extraction:						Average weekly hours	No	43.6	44.7	44.5	44.4
All employees	1,000	598	607	583	457	Avg. weekly earnings	Dol	406	441	453	461
Production workers	1,000	398	405	387	293						
Average weekly hours	No.	43.6	44.4	44.2	42.6						
Avg. weekly earnings	Dol	465	476	489	494						

Source: U.S. Bureau of Labor Statistics, *Employment and Earnings, United States 1909–1984*, and *Supplement to Employment and Earnings, Revised Establishment Data*, July 1987.

No. 1159. Selected Mineral Products—Average Prices: 1970 to 1986

[Excludes Alaska and Hawaii, except as noted. See *Historical Statistics, Colonial Times to 1970*, series M 96, M 139, M 209, M 248, and M 262, for bituminous coal, crude petroleum, iron ore, lead, and aluminum, respectively]

Year	Tantalum (dol. per lb.) [1]	Copper, electrolytic [2] (cents per lb.)	Platinum [3] (dol./troy oz.)	Gold (dol./fine oz.)	Silver (dol./fine oz.)	Lead [4] (cents per lb.)	Tin (New York) [5] (cents per lb.)	Zinc [6] (cents per lb.)	Sulfur, crude [7] (dol./long ton)	Bituminous coal [8] (dol./short ton)	Crude petroleum [8] (dol./bbl.)	Natural gas [8] (dol./thous. cu. ft.)
1970	9.15	58.2	133	36	1.77	15.7	174.2	15.3	22.77	6.26	3.18	.17
1975	18.32	64.2	164	161	4.42	21.5	339.8	39.0	44.91	19.23	7.67	.45
1976	20.31	69.6	162	125	4.35	23.1	379.8	37.1	45.72	19.43	8.19	.58
1977	25.64	66.8	162	148	4.62	30.7	534.6	34.4	44.38	19.82	8.57	.79
1978	34.19	66.5	237	194	5.40	33.7	629.6	31.0	[9] 45.17	21.78	9.00	.91
1979	80.00	93.3	352	308	11.09	52.6	753.9	37.3	[9] 55.75	23.65	12.64	1.18
1980	103.50	101.3	439	613	20.63	42.5	846.0	37.4	[9] 89.06	24.52	21.59	1.59
1981	81.50	84.2	475	460	10.52	36.5	733.0	44.6	[9] 111.48	*26.29*	*31.77*	*1.98*
1982	40.91	72.8	475	376	7.95	25.5	654.0	38.5	[9] 108.27	27.14	28.52	2.46
1983	25.06	76.5	475	424	11.44	21.7	655.0	41.4	[9] 87.24	25.85	26.19	2.59
1984	30.66	66.8	475	361	8.14	25.6	623.8	48.6	[9] 94.31	25.51	25.88	2.66
1985	27.58	67.0	475	318	6.14	19.1	595.9	40.4	[9] 106.46	25.10	24.09	2.51
1986, prel.	19.00	66.1	519	368	5.47	22.1	369.9	38.0	[9] 105.22	24.50	12.66	1.87

NA Not available. [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 metric ton.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Facts and Problems*, 1980 edition, and *Mineral Commodity Summaries*, annual.

NO. 1160. PRINCIPAL FUELS, NONMETALS, AND METALS—U.S. PRODUCTION AS PERCENT OF WORLD PRODUCTION: 1970 TO 1985

MINERAL	Unit	WORLD PRODUCTION						PERCENT U.S. OF WORLD					
		1970	1980	1982	1983	1984	1985, prel.	1970	1980	1982	1983	1984	1985, prel.
Fuels: [1]													
Coal	Bil. sh. ton	3.3	4.2	4.4	4.4	4.6	4.8	18	20	19	18	19	18
Petroleum (crude)	Bil. bbl	16.7	21.8	19.4	19.3	19.7	19.3	21	14	16	16	16	17
Natural gas (dry, marketable)	Tril. cu. ft	37.7	53.3	54.2	54.5	59.3	61.2	58	36	33	29	29	27
Natural gas plant liquids	Bil. bbl	(NA)	1.3	1.4	1.4	1.6	1.6	(NA)	44	41	40	37	36
Nonmetals:													
Asbestos	Mil. metric ton	3.5	4.7	4.1	4.3	4.1	4.1	3	2	2	2	1	1
Barite	Mil. sh. ton	4.3	8.3	8.3	6.0	6.4	6.7	20	27	22	13	12	11
Feldspar	Mil. sh. ton	2.8	3.5	3.7	4.1	4.2	4.3	26	20	16	17	17	16
Fluorspar	Mil. sh. ton	4.6	5.3	4.7	4.7	5.3	5.3	4	2	2	1	1	1
Gypsum	Mil. sh. ton	56.9	86.5	79.0	86.4	86.8	89.2	17	14	13	15	17	17
Mica (incl. scrap)	1,000 sh. ton	180	251	237	264	304	269	66	46	45	53	53	51
Nitrogen, agricultural [2]	Mil. sh. ton	33.4	81.4	83.6	85.4	93.0	94.3	25	20	16	13	14	14
Phosphate rock	Mil. metric ton	85	139	122	139	152	151	41	39	31	31	32	34
Potash (K_2O equiv.)	Mil. metric ton	18.2	27.9	24.7	27.4	29.3	28.6	14	8	7	5	5	5
Sulfur, elemental	Mil. metric ton	41.9	54.9	50.8	50.3	52.6	54.9	23	22	19	18	20	21
Metals, mine basis:													
Bauxite	Mil. metric ton	57.8	89.2	77.8	78.9	88.2	85.1	4	2	1	1	1	1
Columbian-tantalum concentrates (gross weight)	Mil. lb	45.1	80.7	56.3	46.9	78.8	83.9	-	(NA)	(NA)	-	-	-
Copper [3]	Mil. metric ton	6.0	7.7	8.1	7.7	8.0	8.1	26	15	14	13	14	14
Gold	Mil. troy oz	47.5	39.2	43.1	44.9	46.4	48.2	4	2	3	4	4	5
Iron ore	Mil. lg. ton	754	877	769	724	817	845	12	8	5	5	6	6
Lead [3]	Mil. metric ton	3.4	3.4	3.4	3.4	3.3	3.4	15	16	15	14	10	12
Mercury	1,000 flask [4]	284	197	198	181	195	196	10	16	13	14	10	9
Molybdenum [3]	Mil. lb	181	242	207	140	215	215	61	62	41	24	48	50
Nickel [3]	1,000 sh. ton	693	858	705	723	833	857	2	2	(Z)	-	2	1
Silver	Mil. troy oz	301	344	384	392	415	412	15	9	10	11	11	10
Titanium concentrates: Ilmenite	Mil. sh. ton	[5] 4.0	4.1	3.3	3.0	3.4	3.7	23	14	8	(NA)	(NA)	(NA)
Tungsten	Mil. lb	71.4	114.4	99.9	86.9	102.5	103.6	13	5	3	2	3	2
Uranium oxide (U_3O_8) [6]	1,000 sh. ton	24	(NA)	(NA)	(NA)	(NA)	(NA)	53	(NA)	(NA)	(NA)	(NA)	(NA)
Vanadium [3]	1,000 sh. ton	19.9	38.3	35.9	30.9	34.3	33.7	26	13	11	7	5	(NA)
Zinc [3]	Mil. metric ton	5.5	6.0	6.2	6.2	6.6	6.7	9	5	5	5	4	4
Metals, smelter basis:													
Aluminum	Mil. sh. ton	10.6	16.9	14.8	13.9	17.3	16.9	37	30	24	24	26	23
Cadmium	Mil. lb	36.5	40.2	36.3	36.9	42.3	41.1	26	9	6	6	9	9
Copper	Mil. metric ton	6.1	7.9	8.3	8.1	8.3	8.3	24	13	12	12	14	14
Iron, pig (incl. ferroalloys)	Mil. sh. ton	474	565	502	511	546	555	19	12	9	10	10	9
Lead	Mil. metric ton	3.3	5.4	5.3	5.3	5.5	5.6	18	23	21	19	20	20
Magnesium	1,000 sh. ton	242	348	273	286	360	361	46	49	37	40	44	42
Steel ingots and castings	Mil. sh. ton	655	787	707	730	782	788	20	14	11	12	12	11
Tin	1,000 m. ton [6]	227	249	239	212	200	194	(NA)	1	1	1	2	2
Zinc	Mil. metric ton	4.8	6.0	5.9	6.2	6.5	6.6	18	6	5	5	5	5

- Represents zero. NA Not available. Z Less than .5 percent. [1] Source: Beginning 1980, 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. [5] Excludes Soviet Union. [6] Metric tons.

Source: Except as noted, U.S. Bureau of Mines, *Minerals Yearbook*, annual.

NO. 1161. FEDERAL STRATEGIC AND CRITICAL MATERIALS INVENTORY: 1980 TO 1986

[As of **Dec. 31.** Covers strategic and critical materials essential to military and industrial requirements in time of national emergency. Market values are estimated current trade values of similar materials and not necessarily amounts that would be realized at time of sale]

MINERAL	Unit	QUANTITY [1]					VALUE (mil. dol.)				
		1980	1983	1984	1985	1986	1980	1983	1984	1985	1986
Tin	1,000 lg. ton	200	186	186	185	181	3,158	2,559	2,335	2,324	1,024
Silver	1,000 troy oz	139,500	137,506	136,506	136,006	130,006	2,288	1,651	996	801	730
Cobalt	Mil. lb	41	46	46	53	53	1,020	575	508	590	600
Bauxite [2]	1,000 lg. ton	14,333	15,958	16,954	17,957	18,031	583	775	779	871	888
Manganese [3]	1,000 sh. ton	3,495	4,447	4,361	4,470	4,284	540	509	506	520	522
Tungsten [4]	Mil. lb	62	92	88	87	86	533	485	505	369	260
Zinc	1,000 sh. ton	376	378	378	378	378	313	351	343	268	347
Titanium	1,000 sh. ton	21	32	32	37	37	301	353	386	405	278
Platinum	1,000 troy oz	440	453	453	453	453	209	194	147	154	270
Chromium [5]	1,000 sh. ton	763	784	784	834	883	747	728	798	836	870
Diamond:											
Stones	Carat	19,224	15,536	14,047	12,549	11,049	349	379	357	336	315
Industrial, bort	Carat	23,693	22,193	22,001	22,001	22,001	73	39	39	39	39

[1] Consists of stockpile and nonstockpile grades and reflects uncommitted balances. [2] Consists of abrasive grade, metallic grade Jamaica, metallic grade Suriname, and refractory. [3] Consists of chemical grade, dioxide battery natural, dioxide battery synthetic, electrolytic, ferro-high carbon, ferro-med. carbon, ferro-silicon, and metal. [4] Consists of carbide powder, ferro, metal powder, and ores and concentrates. [5] Consists of ferro-high carbon, ferro-low carbon, ferro-silicon, and metal.

Source: U.S. General Services Administration, *Statistical Supplement, Stockpile Report to the Congress* (AP-3).

No. 1162. Selected Mineral and Metal Products—Quantity and Value of Imports and Exports: 1980 to 1985

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

PRODUCT	Unit	QUANTITY 1980	1982	1983	1984	1985	VALUE (mil. dol.) 1980	1982	1983	1984	1985
IMPORTS											
Petroleum (crude) [1]	Mil. bbl	1,975	1,417	1,283	1,317	1,625	61,899	45,724	36,492	37,859	22,608
Gem stones: Diamonds	Mil. carat	4.2	4.6	6.3	8.2	8.2	2,251	1,918	2,275	2,905	3,007
Ores and concentrates:											
Chromium (Cr_2O_3 content)	1,000 sh. ton	410	209	86	134	176	57	30	10	15	20
Copper	1,000 sh. ton	58	130	100	12	3	73	141	82	10	2
Iron	Mil. lg. ton	25.1	14.5	13.2	17.2	15.8	773	471	446	529	452
Tungsten	Mil. lb	11.4	7.8	6.3	12.8	10.5	87	47	26	52	37
Metals:											
Aluminum	1,000 sh. ton	581	679	819	972	958	778	858	1,021	1,293	1,017
Cobalt	Mil. lb	15.0	11.6	15.9	23.3	16.6	359	138	110	203	181
Copper refined ingots, etc	1,000 sh. ton	471	285	507	490	416	935	395	701	621	492
Gold (bullion)	Mil. troy oz	4.1	4.2	3.6	6.0	6.4	2,507	1,651	1,576	2,294	2,109
Iron and steel products (mal.)	Mil. sh. ton	16.2	17.3	17.8	27.3	25.5	7,713	10,290	7,129	11,356	10,874
Platinum group [2]	Mil. troy oz	3.5	2.5	3.2	4.5	4.0	1,177	554	753	1,118	1,026
Silver (bullion)	Mil. troy oz	64.9	96.9	161.2	93.5	137.4	1,332	786	1,926	785	856
Zinc: Blocks, pigs, slabs	1,000 sh. ton	452	503	681	705	673	319	371	504	636	508
EXPORTS											
Fuels: [1]											
Bituminous coal	Mil. sh. ton	89.9	105.2	76.9	80.8	84.0	4,523	5,938	4,008	4,090	3,862
Petroleum (crude)	Mil. bbl	30.6	13.1	6.8	5.8	6.0	751	469	224	185	117
Nonmetallic minerals:											
Gem stones: Diamonds	Mil. carat	1.3	2.7	2.5	2.3	2.4	1,041	639	622	575	571
Nitrogen compounds (mal.)	Mil. sh. ton	11.1	7.8	7.5	10.4	10.8	1,842	1,179	1,050	1,635	1,553
Phosphatic fertilizers [3]	Mil. sh. ton	7.2	5.4	6.6	8.2	8.3	1,383	837	895	1,350	1,225
Metals:											
Aluminum: Ingots, slabs, crude	1,000 sh. ton	715	401	398	286	383	1,107	476	534	397	442
Plates, sheets, bars, etc	1,000 sh. ton	306	194	179	219	185	716	440	389	497	411
Gold (refined bullion)	Mil. troy oz	4.7	1.6	1.9	3.5	2.9	2,787	591	825	1,285	919
Iron and steel prods. (mal.)	Mil. sh. ton	4.5	2.2	1.4	1.2	1.1	3,504	2,515	1,609	1,418	1,321
Magnesium [4]	1,000 sh. ton	56.8	39.6	46.7	48.3	40.3	128	105	125	137	114
Molybdenum [5]	1,000 lb	614	697	577	306	574	5	2	2	1	2
Silver (refined bullion)	Mil. troy oz	57.2	12.9	13.7	10.3	12.6	1,327	106	169	86	82
Scrap exports:											
Aluminum	1,000 sh. ton	445	214	262	285	413	483	158	249	276	351
Iron and steel	Mil. sh. ton	11.4	6.9	7.8	9.8	10.2	1,257	623	651	938	940

[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, monthly. [2] Unwrought and semimanufactured. [3] Superphosphates and ammonium phosphates. [4] Metal and alloys, scrap, semimanufactured forms. [5] Metals and alloys, crude and scrap.

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

No. 1163. Mineral Industries—Lost Workday Injuries and Fatalities: 1980 to 1985

[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 1983, rates for the non-coal industries are based only on employment and hours worked by mine employees. See also *Historical Statistics, Colonial Times to 1970*, series M 271–286]

ITEM	1980	1983	1984	1985
Coal mining:				
Injuries, total	18,822	9,615	10,370	9,141
Fatal	133	70	125	68
Percent of total	.7	.7	1.2	.7
Rate per million work-hours:				
Fatal	.3	.2	.3	.2
Nonfatal	43	29	29	27
Fatalities per 1,000 employed [1]	.55	.37	.63	.36
Quarrying and related industries: [2]				
Injuries, total	3,551	2,089	2,509	2,571
Fatal	42	17	34	26
Percent of total	1.2	.8	1.4	1.0
Quarrying and related industries—Con.				
Rate per million work-hours:				
Fatal	.3	.1	.3	.2
Nonfatal	21	17	18	19
Fatalities per 1,000 employed [1]	.5	.2	.5	.4
Metal and nonmetal mining: [3]				
Injuries, total	6,923	2,734	2,653	2,234
Fatal	46	29	35	22
Percent of total	.7	1.1	1.3	1.0
Rate per million work-hours:				
Fatal	.2	.3	.2	.2
Nonfatal	28	24	18	17
Fatalities per 1,000 employed [1]	.3	.3	.5	.3

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

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

No. 1164. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1970 to 1985, and by Major Foreign Sources, 1981–1984

[**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	1970	1980	1981	1982	1983	1984	1985	Rank of major foreign sources, 1981–1984
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	95	98	98	99	99	98	100	**Ore:** Gabon, South Africa, Brazil.
Bauxite [1]	88	94	94	96	96	96	97	**Bauxite:** Guinea, Jamaica, Brazil; **Alumina:** Australia, Jamaica, Suriname.
Cobalt	98	93	92	92	95	95	95	Zaire, Zambia, Canada.
Tantalum	96	90	92	92	97	92	92	Thailand, Brazil, Malaysia.
Platinum group	78	88	83	81	89	89	92	South Africa, United Kingdom, Soviet Union.
Potassium	42	65	65	65	75	74	77	Canada, Israel.
Chromium	89	91	90	85	76	81	73	South Africa, Zimbabwe, Yugoslavia.
Tin	81	79	77	68	73	74	72	Thailand, Malaysia, Bolivia, Indonesia.
Asbestos	83	78	79	74	65	75	71	Canada, South Africa.
Zinc	54	60	65	58	65	68	69	**Ore:** Canada, Mexico, Peru; **Metal:** Canada, Peru, Mexico.
Barium	45	44	40	55	65	69	69	Canada, Morocco, Chile.
Nickel	71	71	75	76	75	68	68	Canada, Australia, Botswana.
Titanium [2]	24	32	50	74	(D)	(D)	(D)	Australia, Canada, South Africa.
Tungsten	50	53	50	42	52	70	68	Canada, China: Mainland, Bolivia.
Silver	26	7	53	55	61	59	64	Canada, Mexico, Peru.
Antimony	40	48	47	50	54	58	(D)	**Metal:** China: Mainland, Bolivia, Mexico; **Ore:** Bolivia, Mexico, Thailand.
Mercury	41	26	44	32	30	58	57	Spain, Algeria, Japan.
Cadmium	7	55	63	73	72	50	55	Canada, Australia, Peru.
Selenium	11	59	45	55	39	47	54	Canada, United Kingdom, Japan.
Vanadium	21	35	34	24	26	54	(D)	South Africa, E.E.C.[3], Canada.
Gypsum	39	35	37	36	40	38	38	Canada, Mexico, Spain.
Gold	59	18	15	32	19	22	31	Canada, Uruguay, Switzerland.
Petroleum [4] [5]	22	37	34	28	28	30	29	Mexico, Canada, Venezuela.
Copper	(6)	14	6	1	19	23	27	Chile, Canada, Peru.
Iron and steel	4	15	15	20	16	23	22	E.E.C.[3], Japan, Canada.
Iron ore	30	25	22	34	37	19	22	Canada, Venezuela, Liberia.
Aluminum	(6)	(6)	(6)	7	17	7	12	Canada, Japan, Ghana.
Sulfur	(6)	14	5	4	15	16	5	Canada, Mexico.
Natural gas [5]	4	5	4	5	5	4	5	Canada, Algeria.

D Withheld to avoid disclosure. [1] Includes alumina. [2] Ilmenite. [3] European Economic Community. [4] Includes crude and products. [5] Source: Beginning 1980, Energy Information Administration, *International Energy Annual.* [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. 1165. Petroleum Industry—Summary: 1950 to 1986

Year	Crude oil producing wells [1]		Completed wells drilled (1,000)				Crude oil production			Imports (mil. bbl.)		Operable refineries (mil. bbl.)	
	Total (Dec. 31) (1,000)	Daily output per well (bbl.)	Total	Crude oil	Gas	Dry	Total (mil. bbl.)	Value at wells (bil. dol.)	Avg. price per bbl. (dol.)	Crude oil	Refined petroleum products	Capacity (Jan. 1)	Output
1950	466	11.8	42	24	3	15	1,974	5.0	2.51	178	133	2,271	2,197
1955	524	13.2	55	30	4	20	2,484	6.9	2.77	285	170	3,061	2,880
1960	591	12.0	46	22	5	18	2,575	7.4	2.88	372	293	3,593	3,195
1965	589	13.3	39	18	4	16	2,849	8.2	2.86	452	449	3,803	3,639
1970 [2]	531	18.0	28	13	4	11	3,517	11.2	3.18	483	765	4,388	4,421
1971	517	18.1	26	12	4	10	3,454	11.7	3.39	613	819	4,694	4,562
1972	508	18.4	28	11	5	11	3,455	11.7	3.39	811	924	4,865	4,787
1973	497	18.3	28	10	7	10	3,361	13.1	3.89	1,184	1,099	4,979	5,057
1974	498	17.6	33	14	7	12	3,203	22.0	6.87	1,269	962	5,242	4,927
1975	500	16.8	39	17	8	14	3,057	23.5	7.67	1,498	712	5,461	4,995
1976	499	16.3	41	18	9	14	2,976	24.4	8.19	1,935	741	5,577	5,372
1977	507	16.4	46	19	12	15	3,009	25.8	8.57	2,414	800	5,985	5,794
1978	517	17.0	50	19	14	17	3,178	28.6	9.00	2,320	733	6,222	5,828
1979	531	16.3	52	21	15	16	3,121	39.5	12.64	2,380	707	6,366	5,753
1980	548	15.9	70	32	17	20	3,146	67.9	21.59	1,926	603	6,584	5,352
1981	557	15.4	90	43	20	27	3,129	99.4	31.77	1,605	584	6,796	5,106
1982	580	14.9	84	39	19	26	3,157	90.0	28.52	1,273	593	6,530	4,868
1983	603	14.4	75	37	14	23	3,171	83.1	26.19	1,215	629	6,154	4,795
1984	621	14.3	84	42	17	25	3,250	84.1	25.88	1,254	736	5,907	5,007
1985	647	13.9	69	35	14	20	3,275	78.9	24.09	1,168	681	5,716	5,019
1986, prel	623	13.9	38	18	8	12	3,164	40.0	12.66	1,501	712	5,643	5,301

[1] 1983–1986, estimated. [2] Represents peak year for U.S. crude oil production.

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

No. 1166. Crude Petroleum and Refined Products: 1973 to 1986

[**Barrels of 42 gallons.** See tables 924, 925 and 1008 for additional information. See also *Historical Statistics, Colonial Times to 1970,* series M 138-142, M 178, and M 181]

ITEM	Unit	1973	1975	1980	1981	1982	1983	1984	1985	1986
Crude petroleum:										
Domestic production	Mil. bbl	3,361	3,057	3,146	3,129	3,157	3,171	3,250	3,275	3,164
Value at wells	Bil. dol	13.1	23.4	67.9	99.4	90.0	83.0	84.1	78.9	40.1
Average price per barrel at wells	Dol	3.89	7.67	21.59	31.77	28.52	26.19	25.88	24.09	12.66
Imports	Mil. bbl	1,184	1,498	1,926	1,605	1,273	1,215	1,254	1,168	1,501
Value [1]	Mil. dol	4,231	18,374	62,014	61,940	45,862	36,809	36,529	33,034	22,720
Exports	Mil. bbl	1	2	105	83	86	60	66	75	56
Value [1]	Mil. dol	2,621	178	751	577	469	224	185	226	117
Stocks, Dec. 31	Mil. bbl	242	271	466	594	644	723	796	814	843
Proved reserves, Dec. 31 [2]	Mil. bbl	35,300	32,682	29,805	29,426	27,858	27,735	28,446	28,416	26,889
World production	Mil. bbl	20,561	19,301	21,791	20,404	19,437	19,342	19,812	19,328	20,270
U.S. proportion of world total	Percent	16	16	14	15	16	16	16	17	16
Refinery:										
Number of refineries (Jan. 1) [3]	Number	268	279	319	324	301	258	247	223	216
Operable capacity (Jan. 1) [3]	Mil. bbl	4,979	5,461	6,584	6,796	6,530	6,154	5,906	5,715	5,643
Crude oil receipts at refineries	Mil. bbl	4,546	4,546	4,934	4,563	4,331	4,283	4,448	4,322	4,718
By pipeline: Domestic	Mil. bbl	2,905	2,662	2,275	2,343	2,401	2,419	2,442	2,483	2,402
Foreign	Mil. bbl	409	398	503	346	406	421	366	414	429
By water: Domestic	Mil. bbl	399	305	642	587	619	611	673	662	681
Foreign	Mil. bbl	775	1,101	1,406	1,184	817	735	857	666	1,110
By tank cars and trucks	Mil. bbl	58	80	121	103	89	96	110	97	95
Utilization rate [4]	Percent	93.9	85.5	75.4	68.6	69.9	71.7	76.2	77.6	82.9
Refined products:										
Daily motor-gasoline consumption	Mil. bbl	6.67	6.67	6.58	6.59	6.54	6.62	6.69	6.83	7.03
Retail prices for leaded regular motor gasoline (U.S. city average)	Cents	[5] 38.8	56.7	119.1	131.1	122.2	115.7	112.9	111.5	85.7
Yield of gasoline	Percent	45.6	46.5	44.5	44.5	46.2	47.4	46.5	46.7	46.5
Imports	Mil. bbl	1,099	712	603	584	593	629	724	681	712
Value [1]	Mil. dol	3,318	6,751	11,502	13,328	13,200	15,166	19,752	16,761	11,101
Exports	Mil. bbl	84	74	94	134	211	210	198	211	226
Value [1]	Mil. dol	391	325	1,242	2,088	4,589	3,554	3,419	3,593	2,595
Stocks, Dec. 31	Mil. bbl	766	862	926	890	786	731	761	705	751

[1] Source: U.S. Bureau of the Census, *U.S. Exports, Schedule E Commodity by Country,* FT 410, monthly, and *U.S. Imports and Imports for Consumption, Schedule A Commodity by Country,* FT 135, monthly. [2] Source: 1973-1975 American Petroleum Institute, Washington, DC, thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves,* annual. [3] Source: 1973-1980, U.S. Energy Information Administration, *Petroleum Refineries in the United States* and *U.S. Territories,* annual. [4] For 1973 through 1980, utilization rate is derived by dividing gross input to distillation units by one-half of the current year January 1 capacity and the following year January 1 capacity. Percentages were derived from unrounded numbers. For 1981 and forward, utilization is derived by averaging reported monthly utilization. [5] Average dealer's net price per gallon (incl. tax) of regular grade full service gasoline. Data from Platt's Oilgram Price Service.

Source: Except as noted, through 1975, U.S. Bureau of Mines, *Minerals Yearbook;* thereafter, U.S. Energy Information Administration, *Monthly Energy Review, Annual Energy Review,* and *Petroleum Supply Annual.*

No. 1167. Petroleum—Runs to Stills and Refinery Products, by Product: 1973 to 1986

[**In millions of barrels, except percent.** Barrels of 42 gallons, except as indicated. See also *Historical Statistics, Colonial Times to 1970,* series M 162-177]

PRODUCT	1973	1975	1979	1980	1981	1982	1983	1984	1985	1986	PERCENT 1973	1980	1985	1986
Input	4,890	4,827	5,561	5,133	4,921	4,694	4,617	4,804	4,815	5,076	100.0	100.0	100.0	100.0
Crude petroleum	4,537	4,541	5,346	4,934	4,552	4,297	4,265	4,408	4,381	4,641	92.8	96.1	91.0	91.4
Natural gas liquids	297	259	186	169	191	188	168	183	186	175	6.1	3.3	3.9	3.5
Other [1]	56	27	29	30	178	209	184	213	249	260	1.1	.6	5.2	5.1
Output	5,057	4,995	5,753	5,352	5,106	4,888	4,795	5,007	5,019	5,301	100.0	100.0	100.0	100.0
Gasoline (motor)	2,382	2,379	2,495	2,376	2,336	2,313	2,313	2,362	2,343	2,464	47.4	44.6	46.7	46.5
Leaded [2]	(NA)	(NA)	1,502	1,269	1,168	1,093	1,035	941	833	765	(NA)	23.7	16.6	14.4
Unleaded [3]	(NA)	(NA)	993	1,107	1,167	1,219	1,278	1,421	1,510	1,699	(NA)	20.7	30.1	32.1
Distillate fuel oil	1,029	968	1,151	974	954	951	897	981	980	1,021	20.3	18.2	19.5	19.3
Residual fuel oil	354	451	616	578	482	390	311	326	322	324	7.0	10.8	6.4	6.1
Jet fuel	314	318	369	366	353	357	373	414	434	472	6.2	6.8	8.6	8.9
Petrochemical feedstocks	133	122	252	254	220	160	153	140	143	148	2.6	4.7	2.8	2.8
Still gas for fuel [3]	177	175	205	197	199	195	192	193	201	234	3.5	3.7	4.0	4.4
Asphalt and road oil [4]	175	149	170	144	124	120	136	141	146	150	3.5	2.6	2.9	2.8
Coke (5 bbl.=1 sh. ton)	132	129	137	135	142	150	153	161	166	185	2.6	2.5	3.3	3.5
Liquefied refinery gases	128	109	121	119	115	99	120	133	143	152	2.5	2.2	2.8	2.9
Kerosene	79	55	67	50	44	42	40	42	34	33	1.6	.9	.7	.6
Other finished products	137	126	157	145	137	111	107	113	107	118	2.7	2.8	2.1	2.2
Processing gains	*−165*	*−168*	*−192*	*−219*	*−185*	*−194*	*−178*	*−203*	*−203*	*−225*	(X)	(X)	(X)	(X)

NA Not available. X Not applicable. [1] Includes unfinished oil rerun net, blending components, other hydocarbons and alcohol. [2] 1978 through 1980 estimates based on shipments. [3] 1 barrel=3,600 cu. ft. [4] 5.5 barrels=1 sh. ton.

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

No. 1168. Crude Petroleum and Natural Gas—Wells Drilled, Footage, and Drilling Cost, by Type of Well: 1970 to 1984

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

Year	Wells drilled		Footage drilled (mil. ft.)	Drilling cost (mil. dol.)		Average depth per well (ft.)	Average cost per well ($1,000)		Average cost per ft. (dol.)
	Total	Offshore		Total	Offshore		Total	Offshore	
Wells, total:									
1970	27,177	1,058	136.9	2,579	599	5,037	95	566	18.84
1975	36,960	1,028	177.6	6,571	1,174	4,806	178	1,142	36.98
1980	62,011	1,272	296.0	22,800	3,846	4,773	368	3,024	77.02
1981	80,816	1,476	388.8	36,665	5,551	4,811	454	3,761	94.30
1982	76,652	1,464	362.6	39,428	6,154	4,731	514	4,203	108.73
1983	67,536	1,270	301.2	25,105	4,961	4,460	372	3,906	83.34
1984	77,210	1,421	350.6	25,206	5,024	4,541	326	3,536	71.90
Oil wells:									
1970	12,547	533	56.4	1,088	282	4,496	87	528	19.29
1975	16,276	283	66.1	2,257	253	4,059	139	892	34.15
1980	28,553	317	117.1	7,768	844	4,099	272	2,663	66.36
1981	38,725	415	162.0	13,023	1,074	4,183	336	2,589	80.40
1982	35,865	486	144.3	12,459	1,563	4,024	347	3,217	86.34
1983	33,485	459	130.8	9,504	1,499	3,907	284	3,266	72.65
1984	38,976	486	154.0	10,214	1,322	3,952	262	2,721	66.32
Gas wells:									
1970	3,844	193	23.1	618	139	6,007	161	720	26.75
1975	7,654	271	43.4	2,005	338	5,667	262	1,247	46.23
1980	15,225	444	85.8	8,167	1,446	5,636	536	3,256	95.16
1981	17,533	515	100.3	12,248	2,122	5,718	699	4,121	122.17
1982	17,052	442	100.9	14,738	2,165	5,912	864	4,898	146.20
1983	12,919	293	72.5	7,856	1,213	5,611	608	4,140	108.37
1984	14,893	372	82.6	7,339	1,353	5,516	490	3,636	88.80
Dry holes:									
1970	10,786	332	57.4	873	178	5,320	81	536	15.21
1975	13,030	474	68.2	2,309	584	5,234	177	1,232	33.86
1980	18,233	511	93.1	6,865	1,556	5,108	377	3,046	73.70
1981	24,558	546	126.6	11,395	2,354	5,154	464	4,312	90.03
1982	23,735	536	117.5	12,232	2,425	4,951	515	4,525	104.09
1983	21,132	518	97.9	7,745	2,249	4,633	367	4,341	79.10
1984	23,251	563	113.9	7,653	2,349	4,900	329	4,172	67.18

Source: American Petroleum Institute, Independent Petroleum Association of America, and Mid-Continent Oil and Gas Association, *Joint Association Survey on Drilling Costs*, annual.

No. 1169. Federal Offshore Leasing, Exploration, Production, and Revenue: 1973 to 1986

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

Leasing	Unit	1973	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Tracts offered	Number	276	1,374	586	666	483	1,398	1,410	21,689	27,984	15,754	10,724
Tracts leased	Number	187	321	249	351	218	430	357	1,251	1,400	667	142
Acres offered	1,000	1,515	7,247	3,141	3,412	2,563	7,680	7,637	120,054	154,384	87,029	58,670
Acres leased	1,000	1,033	1,680	1,297	1,767	1,134	2,265	1,886	6,588	7,495	3,512	734
Bonus paid for leased tracts	Mil. dol	3,082	1,088	1,767	5,079	4,205	6,612	3,987	5,749	4,037	1,539	187
EXPLORATION AND DEVELOPMENT												
New wells being drilled:												
Active	Number	84	97	117	175	191	173	166	134	253	195	95
Suspended	Number	249	292	486	603	739	724	701	597	313	348	279
Wells completed	Number	6,421	6,104	8,433	8,984	9,638	10,308	11,164	11,990	13,012	12,285	12,536
Wells plugged and abandoned	Number	4,599	5,617	7,133	7,576	8,057	8,704	8,913	9,374	9,903	10,487	11,911
REVENUE AND PRODUCTION												
Revenue, total [1]	Mil. dol	3,495	1,723	2,941	6,617	6,363	9,924	7,823	9,160	8,040	5,244	2,805
Bonuses	Mil. dol	3,083	1,088	1,767	5,079	4,205	6,612	3,987	5,749	4,037	1,539	187
Oil and gas royalties [1]	Mil. dol	401	615	1,139	1,512	2,133	3,287	3,815	3,376	3,964	3,639	2,560
Rentals	Mil. dol	11	20	22	20	19	22	20	32	39	66	58
Production, value [2]	Mil. dol	2,487	3,925	7,097	9,273	13,056	20,200	22,573	21,034	24,001	22,153	15,711
Crude oil	Mil. dol	1,480	2,208	2,628	2,874	4,784	8,844	8,929	8,935	9,623	9,590	5,765
Condensate	Mil. dol	141	221	226	254	360	844	1,225	1,106	1,206	1,031	664
Natural gas	Mil. dol	866	1,496	4,135	6,126	7,885	10,503	12,420	10,993	13,172	11,532	9,282
Production: [2]												
Crude oil	Mil. bbls	361	303	270	262	259	263	284	304	330	352	350
Condensate	Mil. bbls	34	27	22	23	19	27	37	36	40	37	39
Natural gas	Tril. cu. ft	3,212	3,459	4,385	4,673	4,641	4,850	4,680	3,940	4,537	4,000	3,949

[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*, September 1986.

No. 1170. Petroleum Inventories at the Beginning of Peak Seasons: 1975 to 1986

FUEL	Unit	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Petroleum, total (Sept. 30)	Mil. bbls	1,147	1,304	1,263	1,309	1,447	1,476	1,414	1,485	1,513	1,502	1,618
	Days' supply [1]	72.7	73.4	69.9	74.5	89.8	95.0	94.9	96.9	96.8	96.7	99.4
Motor gasoline (Mar. 31)	Mil. bbls	248.7	262.2	259.6	240.1	282.8	232.4	198.1	182.7	202.1	185.6	184.0
	Days' supply [1]	40.0	38.8	37.4	33.8	43.9	36.6	31.9	29.0	32.2	28.4	27.7
Distillate fuel oil (Sept. 30)	Mil. bbls	220.8	252.8	220.7	220.4	232.4	207.3	161.2	154.0	142.9	117.4	152.4
	Days' supply [1]	102.8	96.1	82.9	83.0	100.1	85.5	71.4	63.0	55.6	46.1	59.0
Residual fuel oil (Sept. 30)	Mil. bbls	76.9	87.5	81.3	87.8	87.9	80.2	61.8	49.7	46.8	43.4	44.0
	Days' supply [1]	34.4	29.9	29.0	34.6	38.0	42.2	40.7	36.8	38.8	39.9	30.8

[1] Days' supply is derived by dividing inventories by previous three month average daily consumption (products supplied).
Source: U.S. Energy Information Administration, *Petroleum Supply Annual.*

No. 1171. Liquefied Petroleum Gases—Summary: 1980 to 1986

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

ITEM	1980	1984	1985	1986	ITEM	1980	1984	1985	1986
Production	**561**	**621**	**622**	**619**	**Consumption**	**538**	**576**	**584**	**552**
At natural gas plants	441	488	479	466	Ethane [1]	164	215	210	181
At refineries	121	133	143	152	Propane [1 2]	298	305	322	303
Imports	79	71	68	88	Butane (incl. isobutane) [2]	76	55	52	68
Refinery input	85	106	111	110					
Exports	9	18	23	15	Stocks, Dec. 31	116	101	74	103

[1] Reported comsumption 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. 1172. Crude Petroleum and Natural Gas—Production, by State: 1980 to 1986

[See *Historical Statistics, Colonial Times to 1970*, series M 138 and M 142 for petroleum production, and series M 147-161 for natural gas production]

STATE	CRUDE PETROLEUM PRODUCTION (mil. bbl.)							NATURAL GAS MARKETED PRODUCTION [1] (bil. cu. ft.)						
	1980	1981	1982	1983	1984	1985	1986	1980	1981	1982	1983	1984	1985	1986, prel.
Total [2]	**3,147**	**3,129**	**3,157**	**3,171**	**3,241**	**3,274**	**3,168**	**20,180**	**19,960**	**18,520**	**16,822**	**18,230**	**17,198**	**16,809**
AL	22	21	20	19	20	22	21	65	79	75	91	102	107	107
AK	592	587	619	626	630	666	661	231	243	264	277	289	321	306
AR	18	18	19	19	19	19	16	112	93	125	128	135	155	132
CA	357	385	402	405	412	424	407	310	381	384	415	476	491	469
CO	30	30	31	29	29	30	29	188	196	210	164	173	178	158
FL	43	35	26	19	14	11	9	41	32	23	21	13	11	9
IL	23	24	28	29	29	30	27	2	1	1	1	2	1	(NA)
IN	5	5	6	5	6	5	5	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(NA)
KS	60	66	71	72	76	75	67	735	640	430	435	466	513	448
KY	6	7	7	8	8	8	6	57	61	52	47	62	73	(NA)
LA	469	449	458	480	515	508	512	6,639	6,780	6,172	5,332	5,825	5,014	4,889
MI	34	33	31	32	31	27	26	158	153	153	139	145	132	127
MS	36	34	33	31	33	31	30	175	161	167	151	158	144	143
MT	30	31	31	29	30	30	27	52	57	57	52	51	52	49
NE	6	7	7	6	6	7	7	3	3	2	2	2	2	(NA)
NM	75	72	71	75	79	79	76	1,150	1,134	991	895	957	905	710
NY	1	1	1	1	1	1	1	16	16	16	18	25	32	(NA)
ND	40	45	47	51	53	51	46	42	43	54	69	70	73	60
OH	13	14	15	15	15	15	13	139	141	138	151	186	182	(NA)
OK	150	154	159	159	168	163	149	1,892	2,019	1,934	1,730	1,986	1,936	1,917
PA	3	4	4	4	4	5	4	97	122	121	118	166	150	(NA)
TX	977	945	925	903	905	889	840	7,116	6,190	6,469	5,939	6,185	6,053	6,092
UT	25	26	22	30	35	41	39	88	91	94	63	75	83	88
WV	2	3	3	4	4	4	3	157	161	151	130	144	145	130
WY	126	131	118	118	124	129	121	410	410	425	444	517	417	495

NA Not available. Z Less than 500 million cubic feet. [1] Excludes nonhydrocarbon gases.
[2] Includes other States not shown separately.

Source: U.S. Energy Information Administration, *Natural Gas Annual, Natural Gas Monthly, Petroleum Statement,* annual, and *Petroleum Supply Annual.*

No. 1173. Natural Gas—Supply, Consumption, Reserves, and Marketed Production: 1970 to 1986

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

ITEM	Unit	1970	1973	1975	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Producing wells (yearend)	1,000	117	124	130	170	182	199	211	222	234	243	250
Production value at wells	Bil. dol	3.7	5.0	9.0	24.2	32.1	39.5	45.6	43.6	48.5	43.2	31.3
Avg. per 1,000 cu. ft	Dollars	.17	.22	.45	1.18	1.59	1.98	2.46	2.59	2.66	2.51	1.87
Proved reserves [1]	Tril. cu. ft	291	250	228	201	199	202	202	200	197	193	(NA)
Marketed production [2]	Tril. cu. ft	21.92	22.65	20.11	20.47	20.18	19.96	18.52	16.82	18.23	17.20	16.81
Drawn from storage	Tril. cu. ft	1.46	1.53	1.76	2.05	1.97	1.93	2.16	2.27	2.10	2.40	1.94
Imports [3]	Tril. cu. ft	.82	1.03	.95	1.25	.98	.90	.93	.92	.84	.95	.75
Consumption, total	Tril. cu. ft	21.14	22.05	19.54	20.24	19.88	19.40	18.00	16.83	17.95	17.28	16.00
Residential	Tril. cu. ft	4.84	4.88	4.92	4.97	4.75	4.55	4.63	4.38	4.56	4.43	4.40
Commercial [4]	Tril. cu. ft	2.40	2.60	2.51	2.79	2.61	2.52	2.61	2.43	2.52	2.43	2.35
Industrial	Tril. cu. ft	9.25	10.18	8.36	8.40	8.20	8.06	6.94	6.62	7.23	6.87	6.17
Lease and plant fuel	Tril. cu. ft	1.40	1.50	1.40	1.50	1.03	.93	1.11	.98	1.08	.97	.94
Other industrial	Tril. cu. ft	7.85	8.69	6.97	6.90	7.17	7.13	5.83	5.64	6.15	5.90	5.23
Electric utilities	Tril. cu. ft	3.93	3.66	3.16	3.49	3.68	3.64	3.23	2.91	3.11	3.04	2.60
Transportation [5]	Tril. cu. ft	.72	.73	.58	.60	.63	.64	.60	.49	.53	.50	.48
Extraction losses [6]	Tril. cu. ft	.91	.92	.87	.81	.78	.77	.76	.79	.84	.82	.77
Exports	Tril. cu. ft	.07	.08	.07	.06	.05	.06	.05	.05	.05	.06	.06
Additions to storage [7]	Tril. cu. ft	1.86	1.97	2.10	2.30	1.95	2.23	2.47	1.82	2.30	2.16	2.06
Unaccounted for gas [8]	Tril. cu. ft	.23	.20	.24	.37	.64	.50	.47	.64	.14	.35	.70
World production (dry)	Tril. cu. ft	37.54	43.15	44.10	51.73	53.28	54.71	54.18	54.45	58.30	(NA)	(NA)
U.S. production (dry)	Tril. cu. ft	21.01	21.73	19.24	19.66	19.40	19.18	17.76	16.03	17.39	16.38	15.97
Percent U.S. of world	Percent	56.0	50.4	43.6	38.0	36.4	35.1	32.8	29.4	29.8	(NA)	(NA)

NA Not available. [1] Estimated, end of year. Source: 1970-1975; American Gas Association, Arlington, VA. (Copyright.); thereafter, U.S. Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, annual. [2] Marketed production includes gross withdrawals from reservoirs less quantities used for reservoir repressuring and quantities vented or flared. For 1980 and thereafter, it excludes the nonhydrocarbon gases subsequently removed. [3] Includes imports of liquefied natural gas. [4] Includes deliveries to municipalities and public authorities for institutional heating and other purposes. [5] Pipeline fuel. [6] Volumetric reduction in natural gas resulting from the extraction of natural gas constitutents at natural gas processing plants. [7] Beginning with 1980, includes liquefied natural gas (LNG) storage in above ground tanks. [8] Derived by subtracting the sum of additions to storage, exports and consumption from total supply.

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review, International Energy Annual*, and *Monthly Energy Review*, March 1987.

No. 1174. Natural Gas Plant Liquids—Production and Value: 1970 to 1986

[Barrels of 42 gallons. See also *Historical Statistics, Colonial Times to 1970*, series M 143-146]

ITEM	Unit	1970	1973	1975	1979	1980	1981	1982	1983	1984	1985	1986
Total produced	**Mil. bbl**	**606**	**634**	**594**	**578**	**576**	**588**	**566**	**569**	**596**	**582**	**564**
Pentanes plus	Mil. bbl	197	182	149	125	126	122	103	85	107	103	98
Liquefied petroleum gases	Mil. bbl	400	447	444	444	441	459	459	480	488	479	466
Ethane [1]	Mil. bbl	73	108	123	146	145	145	155	166	185	180	177
Propane [1 2]	Mil. bbl	206	214	202	182	181	190	189	197	193	190	185
Butane (incl. isobutane) [2]	Mil. bbl	121	124	119	115	115	124	114	116	111	109	104
Other finished petroleum products	Mil. bbl	9	6	2	9	8	7	4	4	1	5	2
All light products:												
Average value	Dol. per bbl	2.10	2.93	4.65	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Average yield	Gal. per 1,000 cu. ft	1.37	1.35	1.42	1.47	1.63	1.65	1.68	1.80	1.79	1.84	[3] 1.82
Natural gas processed	Tril. cu. ft	19	20	18	16	15	15	14	13	14	13	[3] 13

NA Not available. [1] Reported production of ethane-propane mixtures have been allocated 70 percent ethane and 40 percent propane. [2] Reported production of ethane-propane mixtures have been allocated 60 percent ethane and 30 percent propane. [3] 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. 1175. Coal and Coke—Summary: 1970 to 1986

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1985, was 478 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	1979	1980	1981	1982	1983	1984	1985	1986 [1]
COAL [2]											
Total production	Mil. sh. tons	613	655	781	830	824	838	782	896	879	888
Value	Mil. dol.	3,878	12,671	18,552	20,452	21,748	22,850	20,319	22,944	22,139	21,839
World production	Mil. sh. tons	3,295	3,665	4,101	4,173	4,198	4,375	4,402	4,623	[1] 4,790	(NA)
Bituminous coal and lignite: [3]											
Number of mines	Number	5,601	6,168	5,837	5,598	5,569	5,365	4,665	4,902	4,764	(NA)
Production	Mil. sh. tons	603	648	776	824	818	838	782	896	879	888
Value, total	Mil. dol.	3,773	12,472	18,359	20,196	21,514	22,850	20,319	22,944	22,139	21,839
Average per ton	Dollars	6.26	19.23	23.65	24.52	26.29	27.26	25.98	25.61	25.20	24.59
Method of mining:											
Underground	Mil. sh. tons	339	293	320	337	316	339	300	352	351	353
Surface	Mil. sh. tons	264	356	456	487	503	499	482	544	533	536
Percent of total prod	Percent	43.8	54.8	58.7	59.0	61.4	59.5	61.6	60.7	60.3	60.3
Exports	Mil. sh. tons	71	66	65	90	110	106	78	81	93	86
Value	Mil. dol.	951	3,233	3,328	4,523	5,809	5,997	4,057	4,133	4,465	3,930
Imports	1,000 sh. tons	36	940	2,059	1,194	1,043	742	1,271	1,286	1,952	2,212
Value	Mil. dol.	(Z)	22	51	30	30	30	43	45	70	80
Consumption [4]	Mil. sh. tons	516	556	677	699	729	707	737	791	818	804
Electric power utilities	Mil. sh. tons	319	404	526	568	596	594	625	664	694	685
Industrial	Mil. sh. tons	184	146	144	126	128	105	103	118	116	112
Productivity average: [5]											
Daily employment	1,000	140	190	224	225	226	217	176	178	169	(NA)
Days worked	Number	228	232	206	210	186	196	197	204	204	(NA)
Tons per worker:											
Per day	Sh./tons	18.84	14.74	15.33	16.32	18.08	18.13	20.98	22.19	23.05	(NA)
Per year	Sh./tons	4,296	3,420	3,158	3,427	3,363	3,497	4,133	4,527	4,702	(NA)
Production, by State:											
Alabama	Mil. sh. tons	20.6	22.6	23.9	26.4	24.5	26.6	23.8	27.1	27.8	23.2
Illinois	Mil. sh. tons	65.1	59.5	59.5	62.5	51.9	60.3	56.8	63.8	59.2	62.3
Indiana	Mil. sh. tons	22.3	25.1	27.5	30.9	29.3	31.8	31.8	37.6	33.3	32.5
Kentucky	Mil. sh. tons	125.3	143.6	149.8	150.1	157.6	150.2	131.2	159.5	152.3	160.2
Montana	Mil. sh. tons	3.4	22.1	32.5	29.9	33.6	27.9	28.9	33.0	33.3	32.0
Ohio	Mil. sh. tons	55.4	46.8	43.5	39.4	37.4	36.5	33.8	39.3	35.6	36.4
Pennsylvania	Mil. sh. tons	80.5	84.1	89.2	87.1	78.1	79.4	69.8	77.5	71.4	74.5
Virginia	Mil. sh. tons	35.0	35.5	37.0	41.0	42.0	39.8	35.0	40.4	40.9	42.1
West Virginia	Mil. sh. tons	144.1	109.3	112.4	121.6	112.8	128.5	115.0	131.0	127.8	129.5
Wyoming	Mil. sh. tons	7.2	23.6	71.8	94.9	103.0	103.0	112.2	130.9	140.7	135.2
Other States	Mil. sh. tons	44.0	76.0	129.2	139.8	148.2	154.1	143.8	155.9	161.3	160.3
Anthracite production	Mil. sh. tons	9.7	6.2	4.8	6.1	5.4	4.6	4.1	4.2	4.7	3.8
COKE											
Production [6]	Mil. sh. tons	66.5	57.2	52.9	46.1	42.8	28.1	25.8	30.6	28.7	25.5
Oven coke [7]	Mil. sh. tons	65.7	56.5	52.9	46.1	42.8	28.1	25.8	30.6	28.7	25.5
Value of product at plant	Mil. dol.	2,193	5,261	6,662	6,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze	Mil. dol.	1,899	4,607	5,459	4,784	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton	Dollars	28	84	98	103	113	115	114	105	104	99.9
Coal charged	Mil. sh. tons	96.5	83.6	77.4	66.7	61.0	40.9	37.0	44.0	41.1	36.0
Average value per ton	Dollars	12.47	44.21	50.70	56.26	62.86	64.97	59.30	56.57	54.30	50.83
Yield of coke from coal	Percent	69.1	68.4	68.4	69.2	70.1	68.7	69.7	69.4	69.8	70.9

NA Not available. Z Less than $500,000. [1] Preliminary. [2] Includes bituminous coal, lignite, and anthracite. [3] All domestic product data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. Beginning 1982, includes anthracite, which accounts for approximately .5 percent of total coal production. [4] Includes some categories not shown separately. [5] Data for 1970 and 1975 are for mines producing 1,000 short tons or more per year; thereafter, for mines producing 10,000 short tons or more. Beginning 1982, includes all types of coal. [6] Includes beehive coke. [7] Prior to 1979, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverable coke-oven operations.

Source: 1970 and 1975, U.S. Bureau of Mines, *Minerals Yearbook;* thereafter, U.S. Energy Information Administration, *Energy Data Reports, Weekly Coal Production; Coal Production,* annual; *Coke Plant Report,* and *Quarterly Coal Report.*

No. 1176. World Coal Trade: 1974 to 1985

[In millions of short tons]

COUNTRIES	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985 [1]
Exporting countries, total [2]	**209.9**	**212.5**	**210.2**	**224.7**	**222.5**	**254.9**	**276.0**	**287.4**	**291.3**	**284.2**	**327.6**	**364.3**
United States	60.7	66.3	60.0	54.3	40.7	66.0	88.7	106.5	106.5	76.5	81.2	91.9
Australia	32.5	33.5	34.3	42.3	42.6	44.6	46.6	54.3	44.8	59.9	79.7	96.0
South Africa	2.5	3.0	6.6	14.0	17.0	25.7	29.9	32.5	29.9	32.2	40.7	49.1
Soviet Union	28.9	28.8	29.6	31.1	31.6	28.4	26.2	22.5	23.0	24.1	22.7	26.3
West Germany	19.2	16.2	14.4	16.0	21.0	17.2	13.8	13.1	11.2	11.5	12.9	10.5
Canada	11.9	12.9	13.0	13.3	15.1	15.3	16.1	17.7	16.4	17.6	26.7	29.7
Poland	44.1	42.4	42.9	43.3	44.2	45.6	34.3	16.6	30.6	39.0	47.1	39.8
China: Mainland	[3].4	[3].5	.4	.5	.9	1.7	4.2	4.1	5.1	6.2	7.6	8.1
Importing countries, total [2]	**209.9**	**212.5**	**210.2**	**224.7**	**222.5**	**254.9**	**276.0**	**287.4**	**291.3**	**284.2**	**327.6**	**364.3**
Western Europe/Mediterranean	79.3	80.8	80.2	85.9	94.3	107.4	126.9	129.4	126.5	117.1	132.2	146.8
Japan	70.7	68.5	67.0	67.1	57.5	64.5	75.6	86.0	86.5	81.6	94.5	101.1
Eastern Europe	35.6	35.1	35.4	36.8	38.4	40.2	34.8	30.1	37.0	41.2	39.9	42.3
Canada	13.6	16.8	16.1	16.9	14.6	19.4	17.4	16.3	17.3	16.2	20.4	16.4

[1] Preliminary. [2] Includes areas not shown separately. [3] Includes trade with Japan only.

Source: U.S. Energy Information Administration, 1973–1983, and 1985, *Annual Prospects for World Coal Trade 1987;* 1984, *Outlook for U.S. Coal Imports.*

NO. 1177. CEMENT, SAND, GRAVEL, STONE, GYPSUM, LIME, AND PHOSPHATE ROCK: 1970 TO 1985

[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	1978	1979	1980	1981	1982	1983	1984	1985
Cement production [1]	**Mil. sh. ton**	**76.1**	**69.7**	**85.5**	**85.9**	**76.7**	**72.9**	**64.3**	**71.3**	**78.7**	**78.9**
Portland	Percent	96.1	95.8	95.2	95.6	95.9	96.2	96.5	95.9	95.8	95.9
Shipments [2]	Mil. sh. ton	76.4	70.7	88.0	87.2	77.7	73.0	65.1	71.9	81.2	84.0
Portland	Mil. sh. ton	73.4	67.8	83.8	83.4	74.7	70.2	62.7	68.9	77.9	80.7
Value	Mil. dol	1,366	2,220	3,623	4,061	3,780	3,666	3,199	3,440	4,020	4,142
Average per ton	Dollar	17.88	31.41	41.17	46.57	50.89	52.20	51.04	49.89	51.62	51.30
Imports	Mil. sh. ton	2.5	3.6	6.6	9.4	5.2	4.0	2.9	4.3	8.8	14.5
Value	Mil. dol	34	71	191	302	196	151	111	161	294	437
Exports	1,000 sh. ton	123	417	55	149	186	300	201	118	80	98
World production (est.)	Mil. sh. ton	630	774	940	962	977	977	973	1,010	1,045	1,071
Sand and gravel sold [3]	**Mil. sh. ton**	**944**	**789**	**996**	**979**	**793**	**720**	**621**	**682**	**803**	**830**
Value	Mil. dol	1,116	1,340	2,302	2,427	2,289	2,260	1,998	2,270	2,621	2,812
Stone sold or used by producers	**Mil. sh. ton**	**869**	**901**	**1,051**	**1,101**	**985**	**874**	**791**	**863**	**957**	**1,002**
Value	Mil. dol	1,470	2,120	2,886	3,399	3,405	3,276	3,056	3,475	3,911	4,225
Crude gypsum: [4]											
Active establishments [5]	Number	108	110	116	113	114	113	109	111	113	116
Apparent supply	Mil. sh. ton	15.5	15.1	23.1	22.3	19.7	18.9	17.1	20.8	23.1	24.6
Mined	Mil. sh. ton	9.4	9.8	14.9	14.6	12.4	11.5	10.5	12.9	14.3	14.7
Imports for consumption	Mil. sh. ton	6.1	5.4	8.3	7.8	7.4	7.6	6.7	8.0	8.9	9.9
Exports	1,000 sh. ton	41	75	132	91	86	157	123	117	131	83
Calcined gypsum produced	**Mil. sh. ton**	**8.4**	**9.2**	**14.0**	**14.5**	**11.8**	**11.7**	**11.2**	**13.9**	**15.5**	**16.0**
Value	Mil. dol	132	186	387	442	270	243	196	270	321	367
Gypsum products sold, value [6]	**Mil. dol**	**353**	**514**	**1,248**	**1,392**	**1,242**	**1,196**	**1,122**	**1,606**	**2,274**	**2,418**
Building uses, value	Mil. dol	323	466	1,171	1,312	1,149	1,099	1,032	1,504	2,162	2,301
Lime:											
Active plants	Number	194	171	155	154	153	150	147	139	129	115
Quantity sold	1,000 sh. ton	19,747	19,133	20,443	20,945	19,010	18,856	14,075	14,867	15,922	15,690
Value	Mil. dol	286	524	750	862	843	884	696	758	811	809
Per ton	Dollars	14.49	27.38	36.67	41.18	44.34	46.89	49.46	50.96	50.95	51.70
Phosphate rock:											
Mine production	**Mil. ton**	**125.5**	**187.5**	**191.2**	**204.8**	**231.4**	**202.5**	**114.8**	**138.6**	**179.7**	**193.2**
P_2O_5 content	Mil. ton	18.6	23.5	23.5	25.4	26.2	26.2	14.8	19.4	23.2	25.2
Marketable production	Mil. ton	38.7	48.8	55.2	56.9	60.0	59.1	41.2	46.9	54.2	56.0
P_2O_5 content	Mil. ton	12.0	15.0	16.9	17.5	18.4	18.0	12.7	14.4	16.4	17.3
Value	Mil. dol	203	1,122	929	1,046	1,257	1,438	950	1,021	1,182	1,236
Per ton	Dollars	5.25	22.99	16.84	18.38	20.95	24.33	23.04	21.75	21.80	22.05
Imports [7]	Mil. sh. ton	.14	.04	1.00	.98	.54	.01	.03	.01	.01	.04
Value	Mil. dol	3.8	1.6	24.4	21.6	12.9	.4	1.3	.4	.3	1.7
Per ton	Dollars	27.87	43.83	24.38	22.04	23.99	30.00	38.29	37.90	27.62	46.61
Exports	Mil. sh. ton	11.7	12.3	14.2	15.8	15.7	11.5	10.8	13.2	12.7	10.1
P_2O_5 content	Mil. sh. ton	3.8	4.0	4.5	5.1	5.0	3.6	3.5	4.2	4.0	3.2
Value	Mil. dol	60.0	429.2	297.4	356.5	431.4	373.2	293.6	327.3	324.8	263.6
Per ton	Dollars	5.11	34.98	20.94	22.56	27.41	32.57	27.06	24.73	25.56	26.18
Consumption, apparent [8]	Mil. sh. ton	27.2	34.2	40.6	43.6	45.0	38.7	31.7	38.4	46.0	41.4
World production	Mil. sh. ton	93.6	118.6	137.8	145.3	158.9	157.7	140.4	153.5	165.5	161.7

[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; P_2O_5 content not available. [8] Amount sold or used plus imports minus exports.

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

NO. 1178. POTASH—SUMMARY: 1970 TO 1985

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

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985
Production of potassium salts (marketable)	4,853	4,576	4,769	4,708	4,756	4,578	3,710	3,053	3,350	2,831
Approximate equivalent K_2O	2,729	2,501	2,483	2,453	2,468	2,377	1,966	1,575	1,724	1,428
Value [1] (mil. dol.)	98.1	223.1	226.5	279.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sales of potassium salts by producers	4,703	3,819	4,804	5,014	4,701	4,045	3,734	3,252	3,510	2,761
Approximate equivalent K_2O	2,729	2,094	2,543	2,632	2,444	2,103	1,967	1,668	1,807	1,395
Value at plant (mil. dol.)	92.4	187.9	226.5	279.2	353.9	328.9	265.6	220.8	241.8	178.4
Per ton (dollars)	19.64	49.19	47.15	55.68	75.28	81.31	71.13	67.90	68.89	78.48
Imports for consumption of potash materials	4,403	6,271	8,556	9,375	9,031	8,712	6,986	8,071	8,761	8,343
Approximate equivalent K_2O	2,605	3,797	5,189	5,693	5,481	5,287	4,253	4,894	5,323	5,061
Value (mil. dol.)	94.7	267.2	399.2	520.8	648.0	750.4	575.4	600.6	658.1	499.1
Exports of potash materials	966	1,419	1,577	1,233	1,746	978	1,049	622	922	1,072
Approximate equivalent K_2O	544	779	892	700	926	541	572	331	492	565
Value (mil. dol.)	28.5	92.7	88.6	79.5	179.8	107.9	93.2	55.8	85.7	(NA)
Apparent consumption of potassium salts [2]	8,140	8,671	11,782	13,156	11,987	11,779	9,671	10,701	11,349	10,032
Approximate equivalent K_2O	4,730	5,112	6,840	7,626	6,999	6,849	5,647	6,231	6,638	5,891
World production (marketable), approximate equivalent K_2O	20,013	27,269	28,795	28,404	30,707	29,849	27,187	30,232	31,568	31,537

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. 1179. Iron Ore—Summary: 1970 to 1985

[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	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Number of mines	74	67	54	51	49	37	32	27	20	20	20
Production [1]	**89.8**	**78.9**	**55.8**	**81.6**	**85.7**	**69.6**	**73.2**	**35.4**	**37.6**	**51.3**	**48.8**
Lake Superior	69.6	66.7	44.0	72.7	77.2	62.3	67.5	31.0	35.6	49.7	47.4
Northeastern	3.5	1.9	2.0	} 8.9	8.6	7.3	5.7	4.4	2.0	1.6	1.4
Western	14.3	9.6	9.8								
Hematite [2]	33.6	19.2	11.5	15.9	13.9	11.8	10.6	6.7	5.4	(NA)	(NA)
Magnetite [2]	53.8	58.4	43.1	64.8	71.0	57.8	62.6	28.7	32.2	(NA)	(NA)
Other	2.4	1.2	1.1	.8	.8	–	–	–	–	(NA)	(NA)
Shipments [3]	87.2	75.7	54.1	83.2	86.2	69.6	72.2	35.8	44.6	50.9	49.4
Value [3] (mil. dol.)	942	1,621	1,423	2,401	2,814	2,544	2,915	1,492	1,945	2,248	2,077
Average price per ton at mine (dol.)	10.80	21.41	26.32	28.86	32.64	36.56	40.39	41.72	43.61	44.17	42.03
Stocks, Dec. 31 (at mines)	15.3	12.3	14.8	12.4	11.3	11.7	12.7	12.1	4.1	5.3	6.0
Price (Lake Superior ores) Dec. 31:											
Natural ores, basis 51.5% Fe (dol./lg. ton)	10.80	18.50	21.18	22.30	24.56	28.50	32.53	32.53	30.03	30.03	(NA)
Imports for consumption [4]	44.9	46.7	37.9	33.6	33.8	25.1	28.3	14.5	13.2	17.2	15.8
Canada	23.9	19.1	25.3	19.2	22.6	17.3	18.8	9.3	8.8	11.2	8.6
Venezuela	13.0	13.1	6.2	6.1	4.6	3.6	5.1	1.6	1.3	1.5	2.1
Brazil	2.0	7.5	2.2	4.0	3.1	2.0	1.7	1.0	1.3	2.5	2.5
Value (mil. dol.)	480	860	957	845	923	773	948	471	446	529	452
Exports	5.5	2.5	2.1	4.2	5.1	5.7	5.5	3.2	3.8	5.0	5.0
Value (mil. dol.)	68	60	63	137	179	231	245	151	183	239	241
World production (est.)	754	902	828	893	889	877	845	768	726	817	845

– Represents zero. NA Not available. [1] Includes Southeastern district and byproduct ore, not shown separately. [2] Predominant mineral. [3] Beginning 1976, includes byproduct ore. [4] Includes countries not shown separately.

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

No. 1180. Gold and Silver—Summary: 1970 to 1986

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

ITEM	Unit	1970	1975	1980	1981	1982	1983	1984	1985	1986, prel.
GOLD										
Ore produced [1] [4]	1,000 sh. ton	3,687	5,722	9,893	12,729	17,918	24,142	30,497	35,909	60,699
Production, U.S.	1,000 fine oz.	1,743	1,052	970	1,379	1,466	2,003	2,085	2,427	3,733
Value	Mil. dol.	63	170	594	634	551	849	752	771	1,375
World production	1,000 fine oz.	47,522	38,476	39,179	41,250	43,105	44,996	46,475	48,673	50,937
Industrial consumption U.S., net	1,000 fine oz.	5,973	3,993	3,215	3,276	3,423	3,101	3,164	2,999	2,976
Imports [2]	Mil. dol.	237	457	2,750	2,157	1,894	1,977	2,947	2,696	5,694
Canada	Mil. dol.	152	182	1,234	1,314	1,124	987	1,554	1,555	2,444
Soviet Union	Mil. dol.	–	1	88	22	4	–	–	–	155
South Africa	Mil. dol.	(z)	6	33	188	38	16	8	–	79
Exports	Mil. dol.	38	493	3,648	3,072	1,089	1,326	1,813	1,254	1,720
Price per fine oz. [3]	Dollars	36.4	161.5	612.6	459.6	375.9	424.0	360.7	317.7	368.2
Production:										
Nevada	1,000 fine oz.	480	333	278	525	757	961	1,021	1,276	2,099
South Dakota	1,000 fine oz.	579	305	268	278	185	310	311	356	(D)
Utah	1,000 fine oz.	408	190	180	228	175	238	(D)	135	(D)
SILVER										
Ore produced [1] [4]	1,000 sh. ton	934	919	2,936	5,579	6,636	8,658	9,392	5,347	6,425
Production, U.S.	1,000 fine oz.	45,006	34,938	32,329	40,683	40,248	43,431	44,592	39,433	34,220
Value	Mil. dol.	80	154	667	428	320	497	363	242	187
World production	1,000 fine oz.	300,991	303,112	342,804	361,617	371,159	386,533	412,069	421,041	419,781
Industrial consumption U.S., net [5]	1,000 fine oz.	128,404	157,650	124,694	116,670	118,840	116,464	114,841	118,555	118,940
Imports [2]	Mil. dol.	104	394	1,606	1,028	927	2,124	963	952	798
Canada	Mil. dol.	64	150	660	375	303	420	301	288	261
Mexico	Mil. dol.	9	96	282	228	205	340	336	251	257
Peru	Mil. dol.	19	76	354	273	143	269	197	76	57
Exports	Mil. dol.	49	148	1,910	332	209	377	206	161	143
Price per fine oz. [3] [5]	Dollars	1.77	4.42	20.63	10.52	7.95	11.44	8.14	6.14	5.47
Production: [4]										
Idaho	Mil. fine oz	19.1	13.9	13.7	16.5	14.8	17.7	18.9	18.8	11.2
Arizona	Mil. fine oz	7.3	6.3	6.3	8.1	6.3	4.5	4.2	4.9	4.2
Utah	Mil. fine oz	6.0	2.8	2.2	2.9	4.3	4.6	(D)	(D)	(D)
Colorado	Mil. fine oz	2.9	3.4	3.0	3.0	1.9	2.1	2.2	.5	.6

– Represents zero. D Withheld to avoid disclosure. Z Less than $500,000. [1] Gold and silver are also produced from base-metal ores and placers. In 1975, those sources accounted for 38 percent of gold produced and 65 percent of silver. [2] General imports, 1970 and 1975; thereafter, imports for consumption. [3] Selling price. [4] Includes gold-silver ore. [5] Excludes coinage.

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

No. 1181. Lead—Summary: 1970 to 1986

[**In thousands of short tons, except as indicated.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports as noted. See also *Historical Statistics, Colonial Times to 1970*, series M 242-248]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Smelter production of refined primary lead	667	636	623	634	604	546	565	567	436	537	404
Domestic ores and base bullion [1]	528	530	553	564	560	485	507	506	364	459	379
Foreign ores and base bullion	139	106	70	50	43	61	58	61	72	79	24
Recovery of secondary lead	597	658	848	883	745	707	630	555	698	679	678
Imports, general:											
Lead in pigs and bars	244	101	244	211	90	112	101	144	178	147	155
Lead in ores and matte	112	88	58	44	49	65	39	52	76	47	98
Exports of refined pig lead [2]	8	21	9	12	181	26	56	19	5	28	12
Consumption of metal, primary and secondary	1,361	1,297	1,579	1,497	1,180	1,287	1,185	1,266	1,331	1,266	1,240
Average price, common lead:											
New York (cents per lb.)	15.69	21.53	33.65	52.64	42.46	36.53	25.54	21.68	25.55	19.07	22.05
London (cents per lb.)	13.76	18.73	29.86	54.52	41.21	33.30	24.66	19.27	20.12	17.84	18.43
Mine production of recoverable lead [3]	572	621	584	579	607	491	565	495	356	456	375
Value [3] (mil. dol.)	179	267	394	610	515	359	289	215	182	174	165
World smelter production, primary (est.)	3,628	3,633	3,466	3,611	3,506	3,439	3,539	3,579	3,494	3,736	3,540
World smelter capacity	(NA)	(NA)	5,230	5,241	(NA)	(NA)	(NA)	5,027	5,027	(NA)	(NA)

NA Not available. [1] Excludes lead content of antimonial lead. [2] Pigs, bars, and anodes. [3] Includes Alaska.

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

No. 1182. Copper—Summary: 1970 to 1986

[**In thousands of short tons, except as indicated.** Excludes Hawaii and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970*, series M 235-241]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986, prel.
New (primary) copper produced:										
Mines (from domestic ores)	1,720	1,413	1,595	1,302	1,696	1,264	1,144	1,215	1,219	1,265
Copper ore produced [1] (mil. sh. tons)	258	263	306	244	306	201	196	189	179	186
Average yield of copper (percent)	.59	.47	.47	.48	.51	.55	.51	.58	.62	.62
Smelters (from domestic ores)	1,605	1,374	1,448	1,096	1,427	1,037	979	1,091	1,035	[2] 1,001
Percent of world total	24	17	16	13	16	12	11	12	11	11
Refineries (from domestic ores)	1,521	1,286	1,557	1,241	1,577	1,158	1,134	1,201	1,106	1,183
From foreign ores, matte, etc., refinery	244	157	114	98	125	194	169	83	59	(D)
Total new refined, domestic and foreign	1,765	1,443	1,671	1,339	1,702	1,352	1,303	1,284	1,165	1,183
Secondary copper produced	1,248	972	1,711	1,584	1,563	1,309	1,194	1,234	1,256	1,252
Recovered from old scrap only	504	369	666	676	659	571	495	508	555	528
Imports (unmanufactured) [3]	392	324	310	603	474	558	636	573	464	627
Refined	132	147	225	471	364	285	507	490	416	553
Exports of refined metallic copper	221	172	81	16	27	34	90	101	42	14
Stocks (producers), Dec. 31	470	519	374	354	472	552	362	390	(NA)	(NA)
Mine production of recoverable copper	1,720	1,413	1,595	1,302	1,696	1,264	1,144	1,215	1,219	1,265
Arizona	918	813	1,043	849	1,147	848	748	823	878	870
Montana	120	88	77	42	69	72	37	(D)	17	(D)
New Mexico	166	146	181	165	170	(D)	(D)	(D)	(D)	(D)
Utah	296	177	213	174	233	208	187	(D)	(D)	(D)
Other States	220	189	77	72	77	136	173	393	324	395
Avg. price, domestic production (cents per lb.)	58.2	64.2	93.3	102.4	85.1	74.3	79.3	68.2	67.0	66.1
World smelter production	6,752	8,069	8,833	8,432	8,820	8,764	8,967	9,264	9,462	9,428
World smelter capacity	(NA)	(NA)	11,180	(NA)	(NA)	(NA)	12,692	12,895	(NA)	(NA)

D Withheld to avoid disclosure of individual company data. NA Not available. [1] Includes old tailings, smelted or retreated. Not comparable with mine production figures which include recoverable copper content of ores not classified as "copper." [2] Includes production from foreign ores. [3] Includes copper imported for immediate consumption plus material entering country under bond. Beginning 1979, includes imports for consumption. Comprises copper in ores and concentrates, matte, refined, blister, and scrap.

No. 1183. Cobalt—Summary: 1970 to 1986

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

ITEM	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
Production: Mine	.7	–	–	–	–	–	–	–	–	–	–	–
Secondary (scrap) [1]	.1	.3	.5	1.0	1.2	1.2	1.0	.9	.7	.9	.9	2.6
Imports [2]	12.4	6.6	17.5	19.0	20.0	16.3	15.6	12.9	17.2	25.3	17.7	12.3
Zaire	(NA)	2.2	7.5	7.9	8.8	6.2	4.2	5.0	7.7	11.8	4.8	.7
Zambia	(NA)	–	2.4	2.1	3.5	2.2	1.5	1.2	2.3	3.8	4.3	3.5
Finland	(NA)	1.1	1.3	.9	1.2	1.1	1.2	.8	1.0	1.0	1.0	.6
Exports [3]	1.5	1.8	.9	1.5	.7	.6	.8	.6	.8	.7	.6	1.0
Consumption	13.4	12.8	16.6	20.0	17.4	15.3	11.7	9.5	11.3	12.9	13.5	14.4
Inventories	61.0	49.5	44.5	45.2	44.2	43.3	42.2	45.1	47.3	47.6	(NA)	(NA)
Government [4]	79.1	47.6	40.9	40.8	40.8	40.8	40.8	43.8	45.9	46.2	(NA)	(NA)
Private [5]	1.9	1.8	3.7	4.4	3.4	2.5	1.4	1.3	1.4	1.4	1.1	1.5
Price per pound [6] (dollars)	2.20	3.98	5.58	[7] 6.40	24.58	25.00	14.58	8.56	5.76	10.40	11.43	7.49

– Represents zero. NA Not available. [1] Reported consumption of purchased scrap. [2] Includes countries not shown separately. [3] Content of unwrought cobalt and cobalt alloys, and waste and scrap. [4] Includes cobalt sold but not delivered. [5] Consumer stocks only. [6] 1970-77 weighted average based on the market price quoted by a major U.S. cobalt dealer; otherwise based on range of prices; 1980-86 weighted average "Metals Week" prices. [7] Represents low price for years. Price ranged from low 6.40 lb. to 20.00 per lb.

Source of tables 1182 and 1183: U.S. Bureau of Mines, *Minerals Yearbook*.

No. 1184. Nickel—Summary: 1970 to 1985

[**Quantities in thousands of short tons.** Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. See also *Historical Statistics, Colonial Times to 1970,* series M 231-234]

ITEM	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985, prel.
Mine production	16	17	16	14	14	15	15	12	3	-	15	6
Plant production:												
Primary [1]	16	14	14	13	11	12	11	10	3	(D)	10	5
Secondary [2]	49	42	47	45	44	57	49	52	43	50	55	57
Imports (est. nickel content)	156	161	188	195	240	177	189	209	130	152	177	158
Exports (gross weight)	31	30	47	39	36	51	57	47	57	44	59	51
Consumption	156	146	163	155	181	196	156	145	104	128	137	120
Stocks (consumer), Dec. 31	25	35	32	19	20	20	15	23	19	20	21	19
Price per pound [3] (dollars)	1.33	2.20	2.20	2.41	2.10	3.20	2.85	2.65	2.24	2.20	2.22	2.26
World production, est	693	890	873	913	725	756	859	800	682	735	833	857

- Represents zero. D Withheld to avoid disclosing company proprietary data. [1] From domestic ores. [2] Includes nickel recovered from iron and steel scrap. [3] Through 1979, peak price quoted U.S. buyers by International Nickel Co., Inc., for electrolytic nickel, U.S. duty included, f.o.b. Port Colborne, Ontario; thereafter, New York dealer price.

No. 1185. Tin—Summary: 1970 to 1986

[**In thousands of short tons, except price.** See headnote, table 1184, for exclusions]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Production: Domestic smelters	(D)	7.2	6.5	5.1	3.3	2.2	3.9	2.8	4.4	3.3	3.5
Secondary sources	22.4	17.5	23.3	23.7	20.5	17.0	15.8	15.7	17.0	15.6	15.4
Imports for consumption:											
Metal	56.7	48.9	51.8	53.3	50.7	50.6	30.8	37.5	45.4	37.3	39.4
Ore (tin content)	5.2	7.1	4.3	5.0	.9	.3	2.2	1.1	3.6	1.8	4.3
Exports	5.0	4.0	5.2	3.8	[1] .7	[1] 2.6	[1] 6.4	[1] 1.5	[1] 1.6	1.6	1.7
Price of Straits tin at NY, dol. per lb. [2]	1.74	3.40	6.30	7.54	8.46	7.33	6.54	6.55	6.24	5.96	3.70
Consumption	83	62	68	69	62	60	51	50	54	55	48
World mine production, est	256	245	266	270	270	278	242	217	219	208	199

D Withheld to avoid disclosure of individual company data. [1] Excludes reexports. [2] See footnote 5, table 1159.

No. 1186. Tungsten Concentrate—Summary: 1970 to 1986

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

ITEM	Unit	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Production:											
Concentrates (60% WO_3 basis) [1]	1,000 sh. ton	10.1	5.8	7.0	6.3	8.2	3.6	(NA)	(NA)	(NA)	(NA)
Tungsten content	Mil. lb	9.3	5.5	6.6	6.0	7.8	3.5	2.2	2.6	2.2	1.7
Shipments from mines:											
Reported value f.o.b. mines	Mil. dol	23.8	29.1	55.8	50.6	62.2	22.1	10.5	13.4	9.1	5.8
Avg. value per lb. of tungsten	Dollars	2.55	5.30	8.40	8.38	7.96	6.35	4.70	5.20	4.23	3.21
Imports for consumption [2]	Mil. lb	[3] 1.3	[3] 6.9	11.4	11.4	11.8	7.8	6.3	12.8	10.5	5.6
Consumption [2]	Mil. lb	16.7	14.0	21.6	20.4	21.7	9.9	11.4	18.9	15.1	10.6
Stocks, [2] end of year	Mil. lb	2.2	2.5	1.6	1.4	1.7	4.0	2.5	2.2	2.5	1.2
World production [2]	Mil. lb	71.4	84.5	107.1	114.6	110.8	92.9	94.2	110.6	106.5	99.4

NA Not available. [1] A short ton of 60% tungsten trioxide (WO_3) contains 951.72 pounds of tungsten. [2] Tungsten content. [3] General imports.

Source of tables 1184-1186: U.S. Bureau of Mines, *Minerals Yearbook.*

No. 1187. Uranium Industry—Summary: 1973 to 1985

[Middle demand case. See table 939. See also *Historical Statistics, Colonial Times to 1970,* series M266-267]

ITEM	Unit	1973	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Production	1,000 sh. tons	13.2	11.6	14.9	18.5	18.7	21.9	19.2	13.4	10.6	7.4	5.7
Net imports (U_3O_8)	1,000 sh. tons	-.6	.2	.8	-.8	-1.6	-1.1	-1.1	6.3	2.4	5.2	3.2
Utility inventories (U_3O_8 equivalent)	1,000 sh. tons	(NA)	(NA)	[1] 21.5	35.6	42.8	54.4	64.0	68.6	75.0	[2] 80.1	[2] 76.9
Price (1983 dol./lb U_3O_8):												
Long-term contract price	Dollars	20.40	36.50	46.40	45.30	43.10	35.50	29.40	25.90	27.20	22.60	21.10
Spot market price	Dollars	13.10	40.80	65.20	62.20	56.40	38.60	26.80	20.80	23.00	16.60	14.50
Delivered price	Dollars	14.50	18.10	30.50	31.10	31.60	34.20	35.70	41.60	38.20	[3] 31.30	[3] 29.26
Capital expenditures (1983 dollars)	Mil. dol	(NA)	461	1,159	1,069	1,060	949	461	173	67	37	32
Mining and milling	Mil. dol	(NA)	251	760	617	642	625	300	96	30	12	13
Exploration	Mil. dol	100	210	399	452	418	324	161	77	37	25	19
Employment	1,000	6.6	9.7	18.8	21.4	22.2	19.9	13.7	9.1	5.6	2.9	1.9
Mining and milling	1,000	5.0	7.6	14.6	17.0	18.1	16.5	11.4	8.3	5.2	2.7	1.7
Exploration	1,000	1.6	2.0	4.1	4.4	4.1	3.4	2.3	.8	.4	.2	.2

NA Not available. [1] Natural U_3O_8 only. [2] Includes natural U_3O_8 (uranium oxide), natural UF_6 (uranium hexafluoride), natural UF_6 under usage agreement, UF_6 at enrichment suppliers, enriched UF_6 and fabricated fuel. [3] Average U.S. contract prices and market price settlements.

Source: U.S. Department of Energy, *Domestic Uranium Mining and Milling Industry,* annual.

No. 1188. Zinc—Summary: 1970 to 1986

[**Production in thousands of short tons.** Excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series M 249-250, for production]

ITEM AND STATE	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986, prel.
Smelter production, primary slab zinc	**878**	**438**	**450**	**448**	**521**	**375**	**382**	**252**	**260**	**279**	**288**	**279**
Value (mil. dol.)	236	341	310	278	389	281	341	194	215	271	232	212
From domestic ores	404	308	355	295	281	256	286	213	232	218	218	211
From foreign ores	474	130	95	154	240	120	96	38	28	61	70	69
Production, redistilled secondary slab zinc	77	58	51	36	59	32	55	82	76	86	80	69
Avg. price of common zinc (cents per lb.)	15.3	39.0	34.4	31.0	37.3	37.4	44.6	38.5	41.4	48.6	40.3	38.0
World smelter production, est.	5,321	5,526	6,407	6,483	6,900	6,668	6,708	6,461	6,835	7,194	7,489	7,345
World smelter and refining capacity	(NA)	(NA)	7,666	8,487	8,524	(NA)	(NA)	(NA)	8,529	8,600	8,700	8,924
Mine production, recoverable zinc	**534**	**469**	**450**	**334**	**295**	**350**	**344**	**334**	**303**	**279**	**250**	**224**
Colorado	57	48	40	24	11	15	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	41	41	31	36	33	31	(D)	(D)	(D)	(D)	(D)	(Z)
Missouri	51	75	82	65	68	69	58	70	63	50	54	42
New York	59	77	71	29	13	37	41	58	63	(D)	(D)	(D)
Tennessee	118	83	90	97	94	123	130	134	121	128	115	113
Other States	208	145	136	83	76	75	116	72	56	101	81	69

D Withheld to avoid disclosure of individual company data. NA Not available. Z Less than 500 tons.

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

No. 1189. Bauxite—Summary: 1970 to 1986

[See also *Historical Statistics, Colonial Times to 1970*, series M 256-257]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Production:												
Crude ore	Mil. lg. ton	2.5	2.2	2.0	2.2	1.8	1.8	.9	.8	1.0	.8	.6
Dried bauxite	Mil. lg. ton	2.1	1.8	1.6	1.8	1.5	1.5	.7	.7	.8	.7	.5
Value	Mil. dol	30.1	25.1	23.2	24.9	22.4	26.5	12.3	11.3	15.6	12.9	10.4
Imports [1] (crude, dried)	Mil. lg. ton	13.6	11.5	13.8	13.6	13.9	12.6	10.0	7.5	9.3	7.0	6.4
Jamaica	Mil. lg. ton	7.5	5.4	6.4	6.4	6.0	5.4	4.1	3.1	3.7	1.5	2.1
Guinea	Mil. lg. ton	.5	2.6	3.4	3.9	4.0	3.6	4.3	3.7	3.7	3.7	3.3
Suriname	Mil. lg. ton	2.9	1.9	2.3	1.5	1.3	1.1	.4	.2	.3	.2	.1
Value [2]	Mil. dol	159.8	245.1	397.5	389.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Exports (as shipped)	1,000 lg. ton	3	19	23	24	28	40	48	73	81	55	68
Value	Mil. dol	.2	1.7	1.5	3.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Consumption (dry equivalent)	Mil. lg. ton	15.7	12.4	14.5	15.4	15.7	13.3	9.1	9.0	10.4	8.1	6.8
World production, est.	Mil. lg. ton	56.9	73.6	79.7	84.2	87.8	84.0	78.1	77.4	86.4	83.0	84.6

NA Not available. [1] Includes countries not shown separately. [2] Source: U.S. Bureau of the Census. See footnote 1, table 1162.

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

No. 1190. Aluminum—Summary: 1970 to 1986

[See also *Historical Statistics, Colonial Times to 1970*, series M 258-262]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Production	Mil. sh. ton	4.8	4.9	6.1	6.4	6.5	6.4	5.2	5.4	6.4	5.8	5.3
Primary aluminum	Mil. sh. ton	4.0	3.9	4.8	5.0	5.1	4.9	3.6	3.7	4.5	3.9	3.3
Plant capacity	Mil. sh. ton	4.3	5.0	5.2	5.3	5.5	5.5	5.5	5.5	5.4	5.2	4.5
Secondary aluminum [1]	Mil. sh. ton	.8	1.0	1.3	1.4	1.4	1.5	1.6	1.7	1.9	1.9	2.0
Value [2] (primary metal)	Bil. dol	2.6	3.7	6.6	7.8	9.3	9.8	8.0	8.5	10.4	(NA)	(NA)
Primary aluminum	Bil. dol	2.2	3.0	5.2	6.1	7.3	7.5	5.5	5.8	7.3	6.2	5.4
Price (cents per lb.[3])	Cents/lb	26.7	39.8	54.0	61.0	71.6	76.0	76.0	77.8	81.0	81.0	81.0
Secondary aluminum	Bil. dol	.5	.8	1.4	1.7	2.0	2.3	2.5	2.7	3.1	(NA)	(NA)
Imports for consumption [4]	1,000 sh. ton	468	550	1,080	840	713	935	968	1,203	1,628	1,565	2,168
Value	Bil. dol	.2	.4	1.1	1.0	1.0	1.4	1.3	1.6	2.5	2.0	2.7
Exports [4]	1,000 sh. ton	612	440	520	773	1,483	867	824	855	809	1,001	830
Value	Bil. dol	.4	.4	.7	1.1	2.4	1.5	1.2	1.3	1.3	1.3	1.2
Shipments [5] (net domestic)	Mil. sh. ton	4.5	4.6	6.8	6.9	6.1	6.2	5.6	6.4	7.2	7.0	7.2
World production, est.	Mil. sh. ton	10.6	13.4	15.6	16.0	17.0	16.6	14.8	15.3	17.3	16.9	16.9
World plant capacity	Mil. sh. ton	12.0	16.4	18.9	19.4	18.7	19.0	19.2	19.5	20.1	19.9	19.8

NA Not available. [1] Recoverable aluminum content from scrap, old and new. [2] Based on published producers' prices for primary metal. [3] Average of prices for primary aluminum, 1970-1978, quoted by *American Metal Market*; thereafter *Metals Week*. [4] Crude and semicrude (including metal and alloys, plates, bars, etc., and scrap). [5] Compiled by Aluminum Association from data on net shipments of aluminum ingot and mill products. Includes changes in aluminum industry and government inventories and net trade.

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

No. 1191. Magnesium—Summary: 1970 to 1985

[**In thousands of short 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	1970	1975	1977	1978	1979	1980	1981	1982	1983	1984	1985
Production (domestic)	124	148	159	185	200	209	200	145	161	207	196
Primary [1]	112	120	126	149	162	169	154	102	115	159	150
Secondary (recovered from scrap)	12	28	33	36	37	40	46	43	46	48	46
Exports	36	33	28	42	54	57	35	40	47	48	40
Value (mil. dol.)	22.5	48.2	51.8	75.8	113.8	127.7	90.8	104.8	124.7	136.7	113.6
Imports	3	8	6	7	5	4	7	5	6	9	9
Value (mil. dol.)	2.5	11.5	8.0	10.1	9.0	8.3	17.6	15.6	16.3	25.7	25.1
Consumption	93	94	104	109	109	96	91	75	82	90	84
Castings and wrought products	23	19	20	19	19	17	15	14	15	14	17
Alloys (aluminum)	37	47	56	59	61	54	51	40	46	49	41
Other	33	28	28	31	29	24	25	21	21	27	26
Price per pound (cents)	35	82	96-99	99-101	101-109	107-125	125-134	134	138	143-148	148-153
World production (primary)	242	258	284	318	339	348	340	280	286	360	361

[1] For 1975–1980, figures are the difference between total North American production reported by the International Magnesium Association and Canadian production.

No. 1192. Platinum-Group Metals—Summary: 1970 to 1986

[**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	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986 [1]
World mine production, total [2]	4,239	5,714	6,440	6,487	6,848	6,931	6,424	6,525	7,648	7,938	7,834
United States	17	19	8	7	3	7	8	6	15	(D)	(D)
U.S.S.R.	2,200	2,650	3,150	3,200	3,250	3,350	3,500	3,600	3,700	3,800	3,850
South Africa	1,503	2,600	2,860	3,017	3,100	3,110	2,600	2,600	3,500	3,700	3,600
Primary refined	21	17	8	8	3	7	9	9	24	7	34
Secondary refined	350	270	257	309	331	392	344	303	340	259	231
Imports	1,411	1,820	2,921	3,479	3,502	2,850	2,494	3,218	4,474	3,990	4,477
Value (mil. dol.)	105	273	450	841	1,177	800	554	753	1,118	1,026	1,347
Exports	414	660	703	900	765	863	836	1,229	1,162	889	751
Value (mil. dol.)	43	88	102	202	341	302	182	310	275	187	202
Consumption [3]	1,331	1,309	2,260	2,756	2,206	1,921	1,873	1,914	2,200	2,271	2,250
Industry stocks, Jan. 1	1,068	1,122	1,013	861	761	973	918	1,107	943	1,319	1,129
Producer price per troy ounce (dol.):											
Platinum	133	164	237	352	439	475	475	475	475	475	519
Palladium	38	93	71	113	214	130	110	130	147	127	131
Rhodium	215	338	510	733	766	641	600	600	625	915	1,196
Iridium	156	477	300	257	505	600	600	600	600	600	600
Ruthenium	53	60	56	45	45	45	45	45	[4] 45	[4]	[4]
Osmium	215	200	150	150	150	150	137	110	[5]	[5]	[5]

D Withheld to avoid disclosing company proprietary data. [1] Preliminary. [2] Includes countries not shown separately. [3] Reported sales to consumers. [4] Price suspended June 7, 1984. [5] Price suspended Jan. 13, 1984.

No. 1193. Titanium—Summary: 1970 to 1986

[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 ordinance applications; and 17 percent in steel and other alloys]

ITEM	Unit	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Ilmenite concentrate:												
Mine shipments	1,000 sh. ton	921	702	581	646	594	524	233	(D)	(D)	(D)	(D)
Value	Mil. dol	18.6	26.9	25.6	33.0	32.0	37.0	19.1	(D)	(D)	(D)	(D)
Imports	1,000 sh. ton	96	122	309	184	357	236	348	259	410	507	466
Value	Mil. dol	1.0	2.1	4.5	2.8	6.7	5.9	8.8	9.3	11.1	14.6	16.8
Consumption	1,000 sh. ton	972	748	792	791	849	856	583	731	783	756	806
Titanium dioxide pigments:												
Production	1,000 sh. ton	655	603	701	742	727	761	660	760	835	860	917
Imports for consumption	1,000 sh. ton	60	26	118	105	98	125	139	175	194	196	203
Apparent consumption	1,000 sh. ton	(NA)	596	802	837	753	806	741	853	916	981	988
Price, Dec. 31:												
Anatase	Cents/lb	26	39	46	53	57	69	69	69	69	72	77
Rutile	Cents/lb	26-27	44	51	59	63	75	75	75	75	78	82
World production:												
Ilmenite concentrate	1,000 sh. ton	3,109	3,194	3,875	3,910	4,107	4,021	3,339	[1] 2,948	[1] 3,795	[1] 3,793	[1] [2] 3,750
Titanium slag	1,000 sh. ton	853	832	1,037	842	1,313	1,245	1,157	1,160	1,260	1,410	[2] 1,417
Rutile concentrate, natural [1]	1,000 sh. ton	460	422	333	390	480	399	373	342	376	414	[2] 439

D Withheld to avoid disclosing company proprietary data. NA Not available. [1] Excludes U.S. production data to avoid disclosing company proprietary data. [2] Estimated.

Source of tables 1191–1193: U.S. Bureau of Mines, *Minerals Yearbook.*

No. 1194. Chromite—Summary: 1970 to 1986

[In thousands of short tons, except as indicated]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Imports for consumption [1]	1,405	1,252	1,013	1,024	982	898	507	190	305	414	488
Value (mil. dol.)	31.8	60.7	51.4	55.6	56.5	49.9	29.7	10.4	15.5	20.2	21.7
South Africa	407	289	490	353	405	482	277	144	235	301	341
Soviet Union	248	349	157	250	170	111	34	(Z)	–	–	22
Philippines	210	210	185	194	138	145	70	13	48	41	19
Exports	41	139	23	27	6	71	8	11	55	101	92
Reexports	73	45	29	28	44	67	57	5	4	4	1
Consumption, total	1,403	881	1,010	1,214	977	889	558	320	512	560	427
Metallurgical industry	912	532	534	774	577	503	283	64	226	273	[2] 377
Refractory industry	278	183	237	198	160	148	80	72	97	65	50
Chemical industry	213	166	239	242	240	238	195	184	189	222	([2])
Stocks, Dec. 31 (consumer)	733	952	1,301	907	675	728	546	456	327	300	314
World production [1]	6,672	9,136	12,064	10,277	10,915	10,018	9,231	9,131	10,756	11,630	11,394
South Africa	1,573	2,288	3,466	3,634	3,763	3,164	2,680	2,762	3,756	4,077	3,840
Soviet Union	1,930	2,290	3,640	2,535	3,200	3,200	3,240	3,240	3,240	3,240	3,250
Philippines	624	573	595	613	547	484	355	294	288	300	202

– Represents zero. Z Fewer than 500 short tons. [1] Includes countries not shown separately. [2] For 1986, chemical industry included with metallurgical industry.

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

No. 1195. Ferroalloys—Summary: 1970 to 1986

[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 1275–1278]

ITEM	QUANTITY (1,000 sh. tons)						VALUE (mil. dol.)					
	1970	1975	1980	1984	1985	1986	1970	1975	1980	1984	1985	1986
Domestic shipments [1]	**2,489.6**	**1,768.1**	**1,486.1**	**1,153.9**	**941.7**	**854.6**	**548.1**	**906.7**	**1,129.9**	**760.5**	**699.2**	**664.8**
Ferromanganese [2]	807.4	556.1	194.3	185.5	156.6	111.6	134.5	222.5	99.6	106.3	100.9	90.9
Silicomanganese	173.0	126.4	161.6	([3])	([3])	([3])	32.0	53.9	70.3	([3])	([3])	([3])
Manganese metal	(NA)	22.1	(NA)	([3])	([3])	([3])	(NA)	(NA)	(NA)	([3])	([3])	([3])
Ferrosilicon	659.2	709.9	681.4	498.1	404.7	371.3	136.2	321.5	442.6	259.4	190.4	218.4
Silicon metal	97.7	131.1	124.5	139.4	121.6	126.1	(NA)	(NA)	(NA)	171.8	157.2	148.8
Chromium alloys	370.9	223.5	237.5	120.8	108.5	115.7	126.3	177.5	179.9	102.1	97.7	87.6
Ferrocolumbium	1.4	.5	1.3	(D)	(D)	(D)	9.4	3.5	34.5	9.8	8.8	(D)
Ferrophosphorus	176.1	96.0	85.4	113.5	54.9	53.8	6.5	10.9	13.1	18.1	7.9	7.2
U.S. exports	(NA)	(NA)	**155.5**	**133.5**	**106.0**	**83.7**	(NA)	(NA)	**173.8**	**165.0**	**135.3**	**115.2**
Ferroalloys	151.1	97.4	128.5	124.8	98.5	72.8	55.7	58.9	93.1	66.0	63.4	39.2
Metals [1]	(NA)	(NA)	27.0	8.8	7.5	10.8	(NA)	(NA)	80.7	98.1	71.9	76.0
Silicon	(NA)	(NA)	14.4	4.4	2.1	5.4	(NA)	(NA)	65.5	88.5	61.6	65.2
Manganese	3.0	3.3	12.3	4.1	5.2	5.1	2.0	3.3	11.5	5.9	7.2	7.9
U.S. imports	(NA)	**927.3**	**1,149.1**	**1,220.0**	**1,131.2**	**1,314.2**	(NA)	**482.9**	**643.7**	**629.4**	**600.5**	**641.3**
Ferroalloys	385.5	913.6	1,115.9	1,176.8	1,066.9	1,259.2	60.5	466.0	585.9	537.0	488.4	544.6
Manganese alloys	305.5	451.9	683.5	548.0	532.7	594.5	33.3	151.4	240.8	162.5	155.9	179.4
Ferrosilicon	22.4	70.4	71.2	143.7	155.4	223.0	4.1	42.0	42.6	72.9	74.0	100.6
Chromium alloys	41.3	322.9	302.3	433.8	335.0	397.6	9.6	192.7	155.8	187.2	158.6	178.4
Metals	(NA)	13.7	33.2	43.2	64.3	55.0	(NA)	16.9	57.8	92.4	112.0	96.6
Silicon	(NA)	7.7	21.3	25.2	51.8	40.9	(NA)	6.2	21.4	55.4	83.4	65.2
Chromium	1.9	1.6	4.1	4.7	4.0	4.5	3.1	6.6	28.4	24.1	19.6	21.6
Manganese	1.3	4.4	7.9	13.3	8.6	9.7	.5	4.0	8.0	13.0	9.1	9.8

D Withheld to avoid disclosure of individual company data. NA Not available. [1] Includes other not shown separately. [2] Includes fused-salt electrolytic low and medium-carbon ferromanganese. [3] Included with ferromanganese.

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

No. 1196. Beryllium—Summary: 1970 to 1986

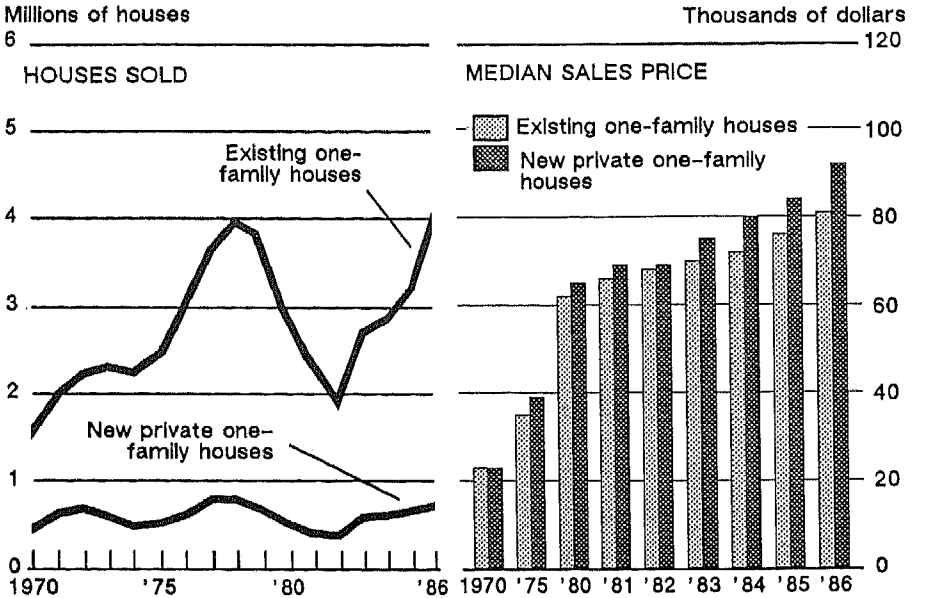
[**In short tons, except as indicated** Represents beryllium mineral concentrates. Beryllium has great stiffness, (exceeding that of other metals, including steels), useful heat dissipation properties, a very high strength-to-weight ratio, useful nuclear moderating and reflecting properties, and excellent corrosion resistance. Its major use is as a beryllium-copper alloy in communications, computers, switching, and other electronic and electrical applications]

ITEM	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
Imports for consumption	4,942	1,479	1,031	1,037	1,703	2,138	2,652	2,194	1,332	1,646	1,510
Consumption [1]	9,496	4,850	5,916	9,518	8,508	8,141	5,387	6,989	9,003	(NA)	(NA)
Price, per short ton unit BeO [2] (dollars)	35	32	40	47	69	94	121	126	88	87	88
Yearend stocks [1]	5,698	3,546	1,346	835	1,350	2,223	5,112	7,037	5,653	(NA)	(NA)
World production of beryl	6,857	3,290	2,888	2,642	10,272	10,609	9,003	9,950	9,850	8,973	9,874

NA Not available. [1] Includes bertrandite ore which was calculated as equivalent to beryl containing 11% BeO. [2] Approximate.

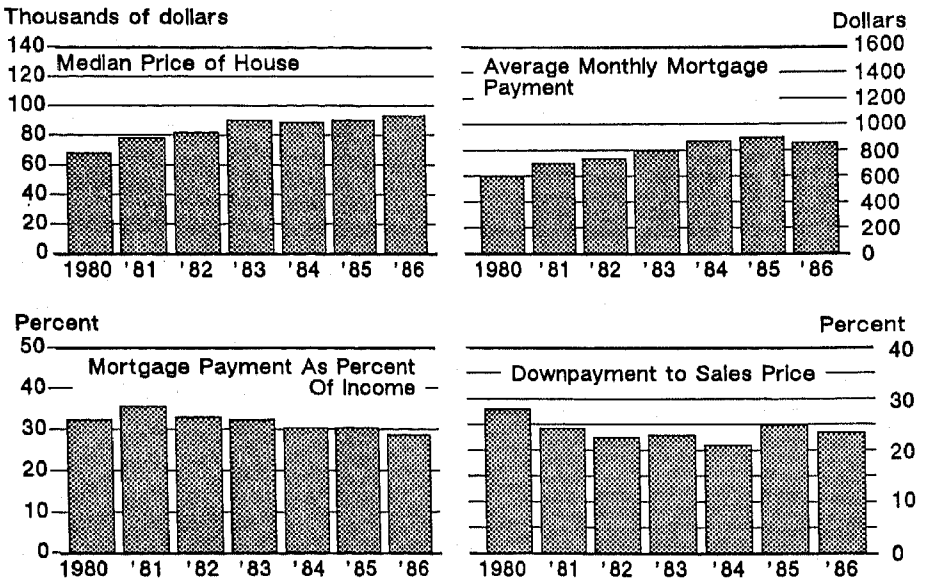
Source: U.S. Bureau of Mines, *Minerals Yearbook.*

Figure 26.1
Houses Sold and Sales Price: 1970 to 1986

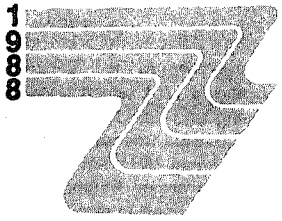


Source: Chart prepared by U.S. Bureau of the Census. For data see tables 1212, 1213 and 1215.

Figure 26.2
Recent Home Buyers-General Characteristics: 1980 to 1986



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1231.



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 *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; *Value of New Construction Put in Place* includes monthly composite construction cost indexes; *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 *Residential Alterations and Repairs.* 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 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; the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the Federal Home Loan Bank Board, the Department of Housing and Urban Development (HUD), and the Veterans Administration, which publish financial data. Data on conventional home mortgages are provided by the Federal Home Loan Bank Board. The Department of Housing and Urban Development provides data on the gross flow of long-term mortgage loans in its study, *The Supply of Mortgage Credit, 1970-1979.* Data on mortgages insured by the Federal Housing Administration (FHA) and on VA-guaranteed loans are also presented in this section. The Energy Information Administration provides data on commercial buildings through its periodic sample surveys.

Censuses and surveys.—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every five years (for years ending in "2" and "7"). The latest reports are for 1982.

The 1982 Census of Construction Industries, in accordance with the 1972 *Standard Industrial Classification Manual* (see text, section 13), defines a construction establishment as a relatively permanent place of business where the usual business activities related to construction are conducted.

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.

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The Annual 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 to the American 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 Annual Housing Survey.

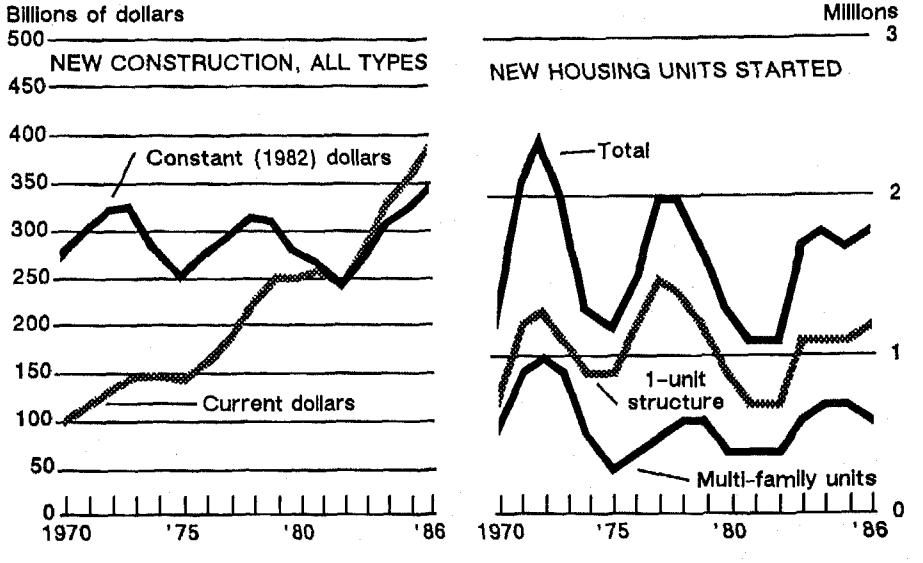
Housing units.—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the structure, and there is either (1) direct access from the outside or through a common hall, or (2) complete kitchen facilities for the exclusive use of the occupants. 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.

Statistics for States and metropolitan statistical areas (MSAs).—Data for States and MSAs may also be found in *State and Metropolitan Area Data Book 1986.* For cross-references, see Appendix V.

Figure 26.3
Value of New Construction and Housing Units Started: 1970 to 1986



Source: Chart prepared by U.S. Bureau of the Census. For data see tables 1200 and 1208.

No. 1197. Construction Industries—Summary, by Industry: 1972 to 1982

[Based on a probability sample of about 167,000 construction establishments with payroll in 1972, 181,000 in 1977, and 172,000 in 1982; see Appendix III. N.e.c.=Not elsewhere classified]

Industry	Establishments with payroll (1,000)	Employees (1,000)		Payroll (mil. dol.)		Receipts (mil. dol.)		Value added [2] (mil. dol.)
		Total	Construction workers	Total	Construction workers	Total	Net construction [1]	
1972, total	**437.9**	**4,146**	**3,487**	**40,005**	**32,187**	**155,850**	**111,232**	**68,197**
Contract construction	430.0	4,083	3,464	39,528	32,036	152,722	110,716	67,810
General building contractors	133.1	1,150	938	10,159	7,740	64,350	33,245	17,884
Heavy construction contractors	28.0	827	709	9,255	7,537	31,461	25,357	16,200
Special trade contractors	269.0	2,107	1,817	20,114	16,759	56,911	52,114	33,726
1977, total	**480.0**	**4,273**	**3,565**	**54,980**	**43,112**	**224,665**	**164,516**	**98,864**
Contract construction	474.9	4,234	3,548	54,566	42,963	221,622	163,463	98,116
General building contractors	156.0	1,181	963	13,537	10,041	89,787	48,262	25,040
Heavy construction contractors	31.3	917	757	14,267	10,988	50,728	40,272	26,573
Special trade contractors	287.7	2,136	1,827	26,762	21,934	81,108	74,929	46,502
1982, total	**456.7**	**4,275**	**3,453**	**78,666**	**60,175**	**324,512**	**233,267**	**145,965**
Contract construction	450.8	4,235	3,438	78,097	60,017	321,100	232,005	144,946
General building contractors	123.2	994	756	17,049	11,647	117,111	57,367	33,588
Single-family houses	72.1	310	253	3,606	2,749	20,129	14,116	7,877
Other residential buildings	7.5	63	50	1,078	760	7,953	3,570	1,951
Operative builders	14.1	108	53	1,874	710	18,085	8,841	5,492
Industrial buildings and warehouses	7.4	154	122	3,231	2,344	18,119	9,294	5,756
Nonresidential buildings, n.e.c	22.1	360	278	7,260	5,085	52,825	21,547	12,512
Heavy construction contractors	28.2	852	703	19,444	15,359	71,024	54,654	36,060
Highway and street construction	10.1	213	180	3,989	3,138	19,035	14,987	8,833
Bridge, tunnel, and elevated highway	1.0	38	32	816	665	3,549	2,812	1,468
Water, sewer, and utility lines	9.4	187	160	3,576	2,907	12,129	10,462	7,005
Heavy construction, n.e.c	7.7	415	329	11,063	8,649	36,310	26,392	18,953
Special trade contractors [3]	299.4	2,389	1,979	41,605	33,011	132,965	119,984	75,299
Plumbing, heating, air-conditioning	60.2	512	398	9,861	7,477	33,521	28,846	16,962
Painting, paperhanging, decorating	24.8	136	121	1,876	1,589	4,688	4,399	3,360
Electrical work	39.6	435	352	9,107	7,347	26,441	25,252	15,123
Masonry and other stonework	20.2	121	110	1,551	1,344	4,333	4,046	2,667
Plastering, drywall, insulation	16.4	200	172	3,573	2,930	10,206	9,215	6,009
Carpentering	30.8	133	117	1,612	1,352	5,512	4,759	2,929
Roofing and sheet metal work	21.1	191	159	3,035	2,321	10,034	9,315	5,460
Concrete work	20.0	157	138	2,310	1,902	8,377	7,447	4,492
Structural steel erection	3.7	62	53	1,291	1,056	3,650	3,293	2,376
Excavating and foundation work	19.6	136	115	2,152	1,757	8,473	7,337	5,507
Installing building equipment, n.e.c	3.8	60	49	1,449	1,145	4,256	3,971	2,952
Special trade contractors, n.e.c	25.1	172	136	2,960	1,931	9,379	8,324	5,306
Subdividers and developers, n.e.c	5.9	40	15	569	157	3,425	1,263	1,019

[1] Construction receipts less payments for construction work subcontracted to others, not shown separately. [2] Total receipts less (*a*) payments for materials, components, and supplies, (*b*) payments for construction work subcontracted to others, not shown separately. [3] Includes other industries each with less than $3.0 billion in total receipts, not shown separately.

Source: U.S. Bureau of the Census, Census of Construction Industries, 1972, 1977, and *1982,* series CC.

No. 1198. Construction Materials—Producer Price Indexes: 1970 to 1986

[**1967=100, except as noted.** For discussion of producer price index, see text, section 15. 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. See also *Historical Statistics, Colonial Times to 1970,* series N 140–155]

Commodity	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
All materials	**112.5**	**174.0**	**228.3**	**251.4**	**266.4**	**283.0**	**288.0**	**297.7**	**306.4**	**309.8**	**309.2**
Softwood lumber: Douglas fir	108.7	212.0	339.7	383.9	353.0	311.8	266.2	361.5	328.1	336.6	331.5
Southern pine	114.7	175.3	304.6	324.2	297.4	291.6	285.9	319.9	319.8	300.7	299.5
Hardwood lumber	114.6	160.3	235.8	260.0	252.0	255.2	262.4	283.7	319.7	307.2	310.1
Millwork	116.0	160.4	235.4	254.3	260.4	273.4	279.4	302.3	307.8	312.1	317.5
Plywood	108.4	161.2	235.6	250.5	246.5	245.7	232.1	244.1	241.6	231.3	235.3
Building paper and board	101.0	127.1	187.4	182.4	206.2	231.7	239.5	250.0	259.0	257.2	260.7
Prepared paint	112.4	166.9	192.3	204.4	235.3	249.8	262.8	264.7	272.5	276.8	281.2
Finished steel products:											
Line pipe, carbon	113.2	227.8	296.6	303.4	336.3	394.2	416.8	406.4	405.6	405.1	402.8
Reinforcing bars [1]	42.9	77.4	80.9	101.4	106.7	107.0	99.7	92.4	98.9	101.1	102.2
Galvanized sheets and strip [1]	34.0	58.7	75.3	83.8	86.1	97.9	100.0	106.3	113.7	113.7	107.3
Bright nails	114.8	241.4	273.5	298.5	331.9	356.9	365.3	358.0	363.0	365.9	364.5
Nonferrous metal products	124.7	171.6	207.8	261.7	305.0	285.8	263.6	276.1	277.1	262.5	259.7
Aluminum drawn tube, 6,000 alloy [2]	100.7	159.9	189.7	216.1	242.2	265.9	282.9	285.5	310.5	310.5	310.8
Plumbing fixtures, brass fittings	111.2	162.3	199.1	217.1	246.7	267.5	278.7	289.3	302.7	311.8	322.1
Heating equipment	110.6	150.7	174.4	187.1	206.5	224.2	237.2	243.6	252.9	259.7	268.3
Metal doors, sash, trim	113.0	162.5	207.6	229.6	255.2	278.8	290.5	298.8	309.6	311.9	316.4
Concrete ingredients	112.6	172.3	217.7	244.0	274.0	296.3	310.0	313.3	325.7	336.2	338.9
Concrete products	112.2	170.5	214.0	244.1	273.9	291.2	297.8	302.0	309.6	320.1	325.1
Structural clay products	109.9	151.2	197.2	217.9	231.5	249.8	260.8	277.8	286.8	295.9	309.1
Gypsum products	99.7	144.0	229.1	252.3	256.3	256.2	256.1	286.0	346.7	338.8	350.7
Asphalt felts and coatings	102.7	225.9	292.0	325.3	396.8	407.5	398.4	384.0	399.5	408.7	389.6
Insulation materials	123.2	196.2	250.7	256.3	287.9	(NA)	356.6	369.7	370.7	374.9	377.6

NA Not available. [1] June 1982=100. [2] Dec. 1969=100.

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

No. 1199. Price and Cost Indexes for Construction: 1970 to 1986

[1982=100. Excludes Alaska and Hawaii. Indexes of certain of these sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970*, series N 118-137, for construction cost indexes on a 1947-49 base]

NAME OF INDEX	1970	1975	1978	1979	1980	1981	1983	1984	1985	1986
Price index for new one-family houses sold [1]	35.1	52.3	70.4	80.1	88.8	97.0	102.6	106.3	108.4	111.3
Dept. of Commerce composite [2]	36.5	56.4	71.5	80.9	89.7	97.1	102.6	106.4	109.6	111.8
Federal Highway Admin., Highways [3]	39.5	65.9	81.3	97.1	111.0	106.7	99.8	105.6	117.2	116.9
Bureau of Reclamation composite [4]	37	59	71	78	87	95	101	103	105	106
Federal Energy Regulatory Commission:										
Pipeline	37	63	76	82	91	99	101	103	(NA)	(NA)
Turner Construction Co.: Building construction [5]	40	61	68	76	84	93	105	111	115	118
E.H. Boeckh, building cost index: [6]										
Small residential structures	38.3	57.4	73.9	80.7	87.4	92.2	105.9	111.9	115.1	117.3
Apartments, hotels, and office buildings	38.3	57.1	71.0	76.5	83.4	91.6	106.4	111.2	113.0	114.9
Commercial and factory buildings	36.6	56.2	70.8	77.1	84.1	92.2	105.3	109.4	111.3	113.2
Engineering News-Record: [7]										
Building construction	37.4	58.5	74.9	81.4	87.0	93.9	106.7	108.2	108.7	111.2
General construction	36.2	57.8	72.6	78.5	84.6	92.5	106.3	108.4	109.7	112.3
Handy-Whitman public utility: [8]										
Building	37	66	77	86	95	100	103	107	110	113
Electric light and power [9]	35	60	72	79	87	95	103	105	107	107

NA Not available. [1] Excludes value of site. [2] Covers both building and nonbuilding construction, excluding maintenance and repair. Represents a weighted average of various indexes used for different types of construction. [3] Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). [4] Derived from the four quarterly indexes which are weighted averages of costs of labor, materials, and equipment for the construction of dams and reclamation projects. [5] Eastern cities. Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. Reflects payment of sales taxes and employee-benefit costs. [6] Average of 20 cities for types shown. Weights based on surveys of building costs. Wage rates used for both common and skilled labor. Reflects payment of sales taxes and Social Security payroll taxes. [7] Building construction index computed on basis of hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. General construction index based on same materials components combined with 200 hours of common labor. [8] Based on data covering public utility construction costs for 95 items in 6 geographic regions. Covers skilled and common labor; does not reflect tax payments nor employee-benefit costs. [9] As derived by U.S. Bureau of the Census. Covers steam production plants only; excludes hydraulic plants.

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

No. 1200. Value of New Construction Put in Place: 1960 to 1986

[**In millions of dollars.** Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

YEAR	CURRENT DOLLARS					CONSTANT (1982) DOLLARS				
	Total	Private			Public	Total	Private			Public
		Total	Residential buildings	Nonresidential buildings			Total	Residential buildings	Nonresidential buildings	
1960	54,736	38,875	22,975	10,149	15,863	(NA)	(NA)	(NA)	(NA)	(NA)
1965	78,474	56,554	30,235	17,995	21,920	276,033	198,783	107,240	63,223	77,250
1966	81,812	57,966	28,611	19,701	23,846	275,956	195,319	96,982	66,596	80,637
1967	83,521	58,144	28,737	18,855	25,377	272,964	189,976	94,372	61,929	82,988
1968	93,183	65,745	34,172	19,402	27,437	288,451	203,456	106,280	59,942	84,996
1969	100,464	72,671	37,214	22,530	27,793	291,289	210,743	108,935	64,348	80,546
1970	101,281	73,374	35,863	22,770	27,908	277,618	202,969	102,285	60,951	74,650
1971	117,904	88,205	48,514	23,872	29,699	302,795	229,096	130,477	58,786	73,699
1972	133,887	103,857	60,693	26,025	30,030	323,535	253,192	152,582	59,959	70,343
1973	147,368	115,020	65,085	29,949	32,348	327,299	257,106	148,976	63,808	70,194
1974	147,763	109,631	55,967	31,325	38,132	285,186	216,796	116,614	58,274	68,390
1975	144,311	102,610	51,581	27,545	41,702	255,670	186,284	98,542	49,037	69,387
1976	162,953	122,064	68,273	27,026	40,889	276,864	210,507	122,513	46,138	66,357
1977	188,048	148,607	92,004	29,693	39,441	295,876	235,366	148,320	47,114	60,510
1978	225,934	178,440	109,838	37,560	47,495	315,895	251,057	154,884	53,610	64,839
1979	252,411	200,720	116,444	49,505	51,690	311,973	250,349	144,450	62,877	61,624
1980	251,719	193,251	100,381	55,431	58,468	280,741	218,813	112,972	63,833	61,928
1981	260,160	203,611	99,241	64,695	56,549	268,055	211,039	102,140	67,758	57,016
1982	246,568	192,855	84,676	69,355	53,713	246,621	192,812	84,663	69,325	53,809
1983	281,266	227,494	125,521	65,675	53,772	274,108	220,731	122,099	63,234	53,377
1984	326,641	270,977	153,849	81,147	57,664	308,770	253,483	144,398	74,767	55,287
1985	355,994	291,665	158,474	95,317	64,328	324,817	266,642	145,787	85,497	58,175
1986	386,817	316,589	187,148	91,171	72,228	347,831	283,565	168,592	79,823	64,266

NA Not available.

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

No. 1201. Value of New Construction Put in Place: 1970 to 1986

[**In millions of dollars, except percent.** Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1–29 and N 66-69]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Total	**101,281**	**144,311**	**252,411**	**251,719**	**260,160**	**246,568**	**281,266**	**328,641**	**355,994**	**388,817**
Average annual percent change [1]	5.2	7.3	11.7	−.3	3.4	−5.2	14.1	16.8	8.3	9.2
Private	**73,374**	**102,610**	**200,720**	**193,251**	**203,611**	**192,855**	**227,494**	**270,977**	**291,665**	**316,589**
Percent of total	72.4	71.1	79.5	76.8	78.3	78.2	80.9	82.5	81.9	81.4
Residential buildings [2]	35,863	51,581	116,444	100,381	99,241	84,676	125,521	153,849	158,474	187,148
New housing units	27,059	36,317	89,272	69,629	69,424	57,001	94,649	113,826	114,662	133,192
1 unit	17,541	29,639	72,257	52,921	51,965	41,462	72,203	85,605	86,123	102,154
2 or more units	9,518	6,679	17,015	16,708	17,460	15,538	22,447	28,221	28,539	31,038
Improvements	8,804	15,264	27,172	30,752	29,817	27,675	30,872	40,023	43,812	53,956
Nonresidential buildings [3]	22,770	27,545	49,505	55,431	64,695	69,355	65,675	81,147	95,317	91,171
Industrial	6,537	8,018	14,950	13,837	17,030	17,343	12,861	13,745	15,769	13,747
Office	(4)	4,973	9,461	13,318	17,473	23,049	20,768	25,940	31,580	28,591
Hotels, motels	1,307	1,072	2,150	2,930	3,716	4,101	5,185	6,751	7,301	7,451
Other commercial	[4] 9,753	7,833	15,463	16,627	16,775	14,235	15,025	22,167	28,048	28,170
Religious	929	867	1,548	1,637	1,665	1,543	1,780	2,132	2,409	2,702
Educational	915	634	863	1,243	1,331	1,475	1,593	1,660	1,896	2,343
Hospital and institutional	2,529	3,209	3,530	4,046	4,907	5,875	6,559	6,297	5,583	5,422
Miscellaneous	800	939	1,540	1,794	1,798	1,733	1,905	2,455	2,729	2,745
Farm nonresidential	1,875	3,731	5,588	5,274	4,612	3,692	3,255	3,161	2,197	2,049
Public utilities	11,920	18,684	27,732	30,915	33,795	33,864	31,579	30,915	32,952	33,946
Telephone and telegraph	2,968	3,683	6,343	6,733	7,074	7,110	6,471	7,174	7,484	8,427
Other public utilities	8,952	15,001	21,389	24,181	26,721	26,754	25,108	23,741	25,468	25,520
Railroads	561	949	2,195	2,319	2,260	2,595	2,951	3,513	4,046	3,088
Electric light, power [5]	5,807	9,688	14,621	16,048	17,774	18,313	*17,936*	*15,654*	*15,968*	*16,955*
Gas	2,299	2,220	3,982	5,006	5,945	5,469	3,764	4,303	5,182	5,191
Petroleum pipelines	284	1,944	591	809	742	377	457	271	272	286
All other private	946	1,068	1,452	1,250	1,268	1,269	1,464	1,905	2,726	2,275
Public	**27,908**	**41,702**	**51,690**	**58,468**	**56,549**	**53,713**	**53,772**	**57,664**	**64,328**	**72,228**
Percent of total	27.6	28.9	20.5	23.2	21.7	21.8	19.1	17.5	18.1	18.6
Buildings	10,473	15,243	15,558	18,517	17,792	16,997	17,276	17,883	20,172	23,494
Housing, redevelopment	1,106	754	1,211	1,648	1,722	1,658	1,700	1,636	1,511	1,456
Industrial	316	687	1,112	1,441	1,655	1,632	1,809	1,828	1,968	1,657
Educational	5,619	7,760	6,903	8,050	6,737	5,927	5,374	5,557	6,708	8,440
Hospital	*838*	*1,745*	*1,648*	*1,785*	*2,083*	*1,991*	*2,098*	*2,039*	*2,017*	*1,998*
Other	2,594	4,296	4,684	5,593	5,595	5,789	6,295	6,822	7,967	9,943
Highways and streets	9,982	11,902	14,895	17,225	16,799	16,164	17,199	18,771	21,756	23,359
Military facilities	717	1,389	1,647	1,880	1,964	2,205	2,544	2,839	3,283	3,919
Conservation, redevelopment	1,907	3,257	4,587	5,090	5,300	5,027	4,820	4,654	4,744	4,668
Sewer systems	1,543	4,801	7,298	7,171	5,935	5,529	5,260	6,241	7,196	8,105
Water supply facilities	1,093	1,765	2,490	3,266	3,004	2,902	2,083	2,621	2,664	3,370
Miscellaneous	2,192	3,345	5,215	5,318	5,754	4,889	4,590	4,654	4,512	5,313
Public ownership:										
State and local government	24,798	35,614	43,126	48,827	46,136	43,705	43,214	46,423	52,282	59,706
Buildings	*9,753*	*13,580*	*13,215*	*15,699*	*14,641*	*14,012*	*13,886*	*14,088*	*15,900*	*19,299*
Highways and streets	9,728	11,595	14,367	16,769	16,048	15,646	16,731	18,255	21,287	22,957
Conservation, development	540	618	673	821	896	908	820	727	935	971
Other	4,777	9,821	14,872	15,538	14,550	13,139	11,777	13,354	14,160	16,478
Federal government	3,110	6,088	8,564	9,641	10,413	10,008	10,557	11,240	12,046	12,522
Conservation, development	1,367	2,638	3,915	4,270	4,404	4,119	4,000	3,927	3,810	3,697
Buildings	720	1,663	2,343	2,818	3,151	2,986	3,390	3,796	4,272	4,195
Military facilities	717	1,389	1,647	1,880	1,964	2,205	2,544	2,839	3,283	3,919
Misc. (incl. highways and streets)	305	397	659	673	894	699	624	678	681	712

[1] Change from immediate year, except 1970, change from 1965. Minus sign (−) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. [2] Includes farm residential. [3] Excludes building by privately owned public utilities. [4] Office buildings included in "other commercial." [5] Includes construction with Rural Electrification Administration (REA) funds.

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

No. 1202. Value of New Construction Put in Place in Constant (1982) Dollars: 1970 to 1986

[In millions of dollars, except percent. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see Construction Reports, series C30-80S]

ITEM	1970	1975	1979	1980	1981	1982	1983	1984	1985	1986
Total	**277,618**	**255,670**	**311,973**	**280,741**	**268,055**	**246,621**	**274,108**	**308,770**	**324,817**	**347,831**
Average annual percent change [1]	.1	−1.6	5.1	−10.0	−4.5	−8.0	11.1	12.6	5.2	7.1
Private	**202,969**	**186,284**	**250,349**	**218,813**	**211,039**	**192,812**	**220,731**	**253,483**	**266,642**	**283,565**
Percent of total	73.1	72.9	80.2	77.9	78.7	78.2	80.5	82.1	82.1	81.5
Residential buildings [2]	102,285	98,542	144,450	112,972	102,140	84,663	122,099	144,398	145,787	168,592
New housing units	77,218	69,378	110,743	78,379	71,496	56,990	92,062	106,873	105,505	120,000
1 unit	50,047	56,571	89,658	59,537	53,511	41,454	70,211	80,362	79,237	92,034
2 or more units	27,172	12,807	21,085	18,842	17,985	15,536	21,851	26,510	26,268	27,966
Improvements	25,067	29,164	33,707	34,594	30,643	27,673	30,037	37,525	40,282	48,591
Nonresidential buildings [3]	60,951	49,037	62,877	63,833	67,758	69,325	63,234	74,767	85,497	79,823
Industrial	17,493	14,272	19,026	15,948	17,823	17,941	12,395	12,665	14,145	12,038
Office	([4])	8,857	12,006	15,323	18,291	23,035	20,000	23,898	28,331	25,037
Hotels, motels	3,502	1,909	2,724	3,373	3,891	4,099	4,990	6,226	6,550	6,522
Other commercial	[4] 26,104	13,943	19,607	19,153	17,581	14,232	14,452	20,409	25,153	24,660
Religious	2,488	1,543	1,966	1,884	1,746	1,541	1,712	1,965	2,159	2,365
Educational	2,450	1,128	1,095	1,428	1,397	1,474	1,534	1,530	1,700	2,050
Hospital, institutional	6,771	5,714	4,498	4,656	5,141	5,871	6,318	5,811	5,011	4,747
Miscellaneous	2,142	1,671	1,954	2,068	1,888	1,732	1,833	2,263	2,448	2,403
Farm nonresidential	5,020	6,640	7,110	6,067	4,830	3,691	3,131	2,915	1,973	1,793
Public utilities	32,193	30,361	34,233	34,668	35,054	33,863	30,796	29,545	30,884	31,301
Telephone, telegraph	7,324	6,064	7,882	7,604	7,419	7,113	6,257	6,818	7,025	7,715
Other public utilities	24,869	24,297	26,350	27,064	27,635	26,750	24,539	22,727	23,859	23,586
Railroads	1,499	1,513	2,538	2,350	2,241	2,598	2,963	3,431	3,706	2,792
Electric light, power [5]	16,323	16,242	18,240	18,321	18,628	18,306	17,393	14,848	14,943	15,691
Gas	6,273	3,516	4,853	5,505	6,013	5,469	3,731	4,185	4,950	4,837
Petroleum pipelines	774	3,027	720	888	753	377	452	263	260	266
All other private	2,519	1,704	1,680	1,273	1,257	1,270	1,471	1,858	2,500	2,057
Public	**74,650**	**69,387**	**61,624**	**61,928**	**57,016**	**53,809**	**53,377**	**55,287**	**58,175**	**64,266**
Percent of total	26.9	27.1	19.8	22.1	21.3	21.8	19.5	17.9	17.9	18.5
Buildings	28,230	27,226	19,761	21,259	18,627	16,989	16,657	16,513	18,128	20,597
Housing, redevelopment	3,153	1,441	1,503	1,854	1,774	1,658	1,657	1,537	1,392	1,313
Industrial	845	1,224	1,418	1,660	1,738	1,631	1,743	1,686	1,767	1,451
Educational	15,043	13,810	8,778	9,255	7,067	5,924	5,176	5,122	6,014	7,382
Hospital	2,247	3,107	2,100	2,053	2,184	1,991	2,020	1,881	1,810	1,750
Other	6,943	7,643	5,962	6,438	5,863	5,785	6,061	6,287	7,145	8,702
Highways and streets	*26,356*	*18,219*	*15,890*	*15,792*	*15,909*	*16,267*	*17,533*	*18,353*	*18,990*	*20,188*
Military facilities	1,906	2,281	1,921	1,924	1,953	2,206	2,518	2,696	2,915	3,408
Conservation, development	5,153	5,429	5,771	5,771	5,536	5,026	4,780	4,541	4,554	4,424
Sewer systems	4,167	8,024	9,164	8,129	6,192	5,524	5,212	6,086	6,902	7,681
Water supply facilities	2,973	2,872	3,079	3,652	3,092	2,902	2,065	2,550	2,551	3,166
Miscellaneous	5,864	5,335	6,039	5,400	5,706	4,893	4,612	4,548	4,136	4,802

[1] Change from immediate prior year; except 1970, change from 1965. Minus sign (−) indicates decrease. For explanation of average annual percent change, see Guide to Tabular Presentation. [2] Includes farm residential. [3] Excludes building by privately owned public utilities. [4] Office buildings included in "Other Commercial." [5] Includes construction with Rural Electrification Administration (REA) funds.

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

No. 1203. Value of Privately Owned Nonresidential Building Projects, by Construction Status, 1975 to 1986, and by Type of Project, 1986

[In billions of dollars]

CONSTRUCTION STATUS	1975	1979	1980	1981	1982	1983	1984	1985	1986				
									Total	Industrial	Office building	Other commercial	Other [1]
Value of projects—													
Started	20.1	49.0	48.3	65.8	55.5	63.3	84.7	90.8	89.7	11.1	25.4	30.6	22.7
Completed	28.0	40.1	48.4	52.7	56.3	60.3	68.2	82.8	99.3	14.4	34.1	29.2	21.6

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

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

No. 1204. Construction Contracts—Value of Construction and Floor Space of Buildings, by Class of Construction: 1975 to 1986

[Includes new structures and additions, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 78–100]

Year	Total	Residential buildings	Nonresidential buildings								Nonbuilding construction
			Total	Commercial [1]	Manufacturing	Educational [2]	Hospital	Public buildings	Religious	Social and recreational [3]	
VALUE (bil. dol.)											
1975	92.7	31.3	31.6	9.2	6.8	5.9	3.7	2.1	.8	3.1	29.8
1976	110.1	44.2	30.0	10.2	4.5	4.9	4.5	2.1	.9	3.0	35.9
1977	139.7	62.0	35.1	13.6	5.4	5.2	4.5	2.3	1.0	3.3	42.6
1978	159.9	74.9	45.0	20.6	9.2	5.7	3.8	1.5	1.2	3.0	39.9
1979	168.4	74.6	50.2	24.4	7.6	6.3	4.8	1.6	1.3	4.1	43.7
1980	148.4	63.7	52.5	24.8	8.4	6.8	5.3	1.6	1.2	4.4	32.2
1981	153.5	60.2	60.1	31.7	8.6	5.8	6.4	1.4	1.2	4.9	33.2
1982	156.2	59.2	59.6	28.2	9.5	6.1	7.8	1.9	1.2	4.8	37.4
1983	193.6	93.6	62.3	33.7	5.3	6.2	8.5	2.1	1.5	5.0	37.8
1984	211.5	101.4	74.3	42.1	7.3	7.7	7.2	2.7	1.7	5.7	35.8
1985	232.3	108.7	83.2	47.8	7.7	8.8	7.8	3.0	2.0	6.0	40.5
1986	243.3	120.6	81.3	44.7	6.5	10.5	7.8	3.0	2.1	6.7	41.3
FLOOR SPACE (mil. sq. ft.)											
1975	2,390	1,441	949	409	146	152	63	46	28	105	(X)
1976	2,819	1,867	952	440	152	118	71	42	31	99	(X)
1977	3,536	2,440	1,096	564	175	112	66	43	32	105	(X)
1978	4,101	2,815	1,286	758	219	104	53	22	35	96	(X)
1979	3,905	2,528	1,377	816	243	102	57	20	34	106	(X)
1980	3,092	1,892	1,200	688	216	95	54	18	28	101	(X)
1981	2,797	1,620	1,177	733	187	74	60	14	25	85	(X)
1982	2,442	1,497	945	571	119	74	70	19	25	68	(X)
1983	3,379	2,349	1,029	647	110	74	83	20	29	66	(X)
1984	3,635	2,396	1,238	808	147	90	70	23	29	71	(X)
1985	3,822	2,414	1,408	939	159	100	73	26	32	79	(X)
1986	3,864	2,537	1,327	855	141	116	73	28	33	81	(X)

X Not applicable. [1] Includes nonindustrial warehouses. [2] Includes science. [3] Includes miscellaneous.

Source: F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potentials.*

No. 1205. Construction Contracts—Value, by State: 1980 to 1986

[In millions of dollars. See headnote, table 1204. Represents value of construction in States in which work was actually done]

State	1980	1984	1985	1986			State	1980	1984	1985	1986		
				Total (incl. nonbldg.)	Residential	Nonresidential					Total (incl. nonbldg.)	Residential	Nonresidential
U.S	**148,393**	**211,480**	**232,277**	**243,255**	**120,637**	**81,304**	MO	2,613	3,769	3,851	4,254	2,025	1,557
							MT	395	721	698	488	192	124
AL	1,918	3,026	2,886	3,001	1,456	1,005	NE	830	1,140	1,040	1,021	428	305
AK	706	1,804	1,500	1,182	267	480	NV	1,167	1,331	1,629	2,023	1,177	632
AZ	3,137	6,008	6,629	6,427	3,705	1,974	NH	477	1,040	1,355	1,600	1,079	327
AR	1,324	1,697	1,649	1,499	739	426	NJ	3,790	6,427	8,077	8,678	4,300	3,168
CA	17,688	27,409	32,456	36,925	21,211	11,698	NM	1,371	1,796	1,771	1,603	725	513
CO	2,791	4,777	4,667	3,789	2,014	1,201	NY	5,860	9,475	11,366	11,991	5,108	4,158
CT	1,440	2,764	3,385	4,018	2,096	1,324	NC	3,471	5,628	6,671	6,861	3,899	2,126
DE	305	512	715	663	290	229	ND	456	574	557	483	199	150
DC	510	792	985	1,150	214	736	OH	5,221	6,218	6,943	8,367	3,282	3,191
FL	12,847	16,926	17,820	17,604	10,589	5,326	OK	2,300	3,297	2,650	2,132	937	743
GA	3,939	6,601	7,566	9,111	4,867	2,786	OR	1,926	1,745	1,634	1,515	718	489
HI	1,216	867	873	1,147	551	373	PA	5,246	6,700	7,008	8,498	3,736	2,621
ID	635	618	758	659	268	235	RI	322	537	828	802	428	210
IL	5,313	7,074	7,513	8,997	4,015	3,069	SC	2,522	2,695	3,446	3,206	1,760	1,032
IN	2,775	3,458	4,045	4,756	2,097	1,864	SD	421	514	485	433	161	122
IA	1,540	1,658	1,532	1,309	449	448	TN	2,789	4,257	4,394	4,511	2,408	1,407
KS	1,887	2,329	2,227	2,234	1,001	751	TX	13,611	21,287	21,305	16,902	6,831	6,088
KY	2,185	2,459	2,843	3,020	1,287	1,039	UT	1,116	1,601	1,633	1,619	758	630
LA	3,270	4,321	3,869	3,110	1,101	1,126	VT	258	467	487	569	351	104
ME	538	695	785	1,045	563	248	VA	3,451	6,578	7,586	8,626	4,479	3,040
MD	3,062	4,734	5,703	6,305	3,224	1,995	WA	4,795	3,748	4,409	4,854	2,157	1,703
MA	2,712	4,729	5,806	6,336	3,499	2,106	WV	855	822	858	973	238	273
MI	4,174	4,899	5,627	6,971	3,090	2,932	WI	2,269	2,881	3,038	3,172	1,377	1,049
MN	2,746	3,760	4,285	4,852	2,493	1,569	WY	644	580	693	466	108	108
MS	1,561	1,740	1,543	1,495	692	489							

Source: F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potentials.*

No. 1206. Value of Private Construction Authorized by Building Permits: 1977 to 1986

[In billions of dollars. "14,000, 16,000, and 17,000 places" series are based on U.S. total of approximately 14,000, 16,000, and 17,000 places identified in 1972, 1978, and 1984 respectively, with local building permit systems]

Type of construction	14,000 places		16,000 places							17,000 places		
	1977	1978	1978	1979	1980	1981	1982	1983	1984	1984	1985	1986
Total	**82.9**	**96.6**	**101.6**	**107.4**	**102.1**	**103.7**	**98.5**	**127.5**	**153.4**	**155.0**	**170.5**	**184.2**
Residential units	50.0	55.4	58.9	56.3	47.2	41.9	40.5	69.3	76.7	77.7	84.9	98.0
In structures with—												
1 unit	40.0	43.2	46.3	42.6	33.1	28.7	27.4	49.1	53.5	54.3	59.5	73.7
2-4 units	2.6	3.0	3.1	3.3	3.3	3.2	2.7	4.3	4.8	4.9	4.6	4.4
5 units or more	7.4	9.3	9.6	10.4	10.8	10.0	10.4	15.8	18.3	18.4	20.8	19.9
Nonhousekeeping residential buildings	1.0	1.3	1.3	1.6	1.6	2.0	2.6	3.1	3.7	3.7	3.9	4.0
Nonresidential buildings	23.7	30.8	32.2	38.3	34.8	39.3	34.8	37.0	46.7	47.2	52.7	50.6
Industrial buildings	5.5	7.4	7.8	9.3	8.0	7.9	6.1	5.8	9.1	9.2	9.5	9.7
Office buildings	4.3	6.6	6.8	9.1	9.9	14.6	12.9	12.6	15.9	16.1	18.1	14.5
Stores and other mercantile	5.7	7.3	7.6	9.0	6.7	6.2	5.5	7.4	9.8	9.9	12.0	12.1
Hospitals and other institutional	2.0	2.1	2.1	2.3	1.6	1.7	2.0	2.4	2.0	2.1	2.5	2.6
All other nonresidential	6.1	7.4	7.9	8.7	8.7	8.9	8.3	8.9	9.9	9.9	10.1	11.8
Additions and alterations	8.2	9.1	9.2	11.2	18.5	20.5	20.6	23.5	26.3	26.4	29.1	31.6

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

No. 1207. New Privately Owned Housing Units Authorized by State: 1985 and 1986

[Based on about 17,000 places in U.S. having building permit systems]

State	Housing units (1,000)			Valuation (mil. dol.)		
	1985	1986		1985	1986	
		Total	1 unit		Total	1 unit
U.S.	**1,733.3**	**1,769.4**	**1,077.6**	**84,904**	**98,005**	**73,695**
AL	17.2	19.2	11.5	537	686	526
AK	4.0	1.4	1.0	319	117	95
AZ	71.8	61.6	33.6	3,119	3,083	2,326
AR	9.9	8.7	5.1	388	376	291
CA	271.4	314.6	145.7	16,188	20,865	13,206
CO	32.8	31.0	20.4	1,570	1,627	1,315
CT	24.5	27.7	20.5	1,289	1,677	1,429
DE	4.6	5.5	4.2	202	235	204
DC	.6	.6	.1	24	21	8
FL	202.6	195.5	110.0	8,464	8,742	6,050
GA	73.1	76.9	50.7	3,130	3,868	3,126
HI	7.3	7.2	4.5	489	465	322
ID	4.3	3.8	2.9	217	217	190
IL	38.7	51.9	30.6	2,238	3,391	2,540
IN	23.0	29.7	17.2	1,100	1,578	1,251
IA	5.2	5.5	3.1	242	268	200
KS	13.3	13.1	7.3	609	782	598
KY	13.8	13.5	8.0	523	642	497
LA	18.8	10.5	6.6	804	557	501
ME	8.1	9.6	6.8	382	505	409
MD	42.1	42.4	34.3	1,919	2,269	2,029
MA	39.2	45.2	28.1	2,342	3,087	2,265
MI	37.6	47.2	27.0	1,829	2,437	1,819
MN	28.6	33.2	20.7	1,651	2,142	1,619
MS	8.8	8.3	5.9	352	356	303
MO	27.2	33.2	17.4	1,181	1,586	1,124
MT	2.0	1.2	.7	87	57	45
NE	5.0	6.2	3.2	221	252	202
NV	14.0	15.7	9.9	594	758	594
NH	17.8	18.0	12.3	892	1,113	894
NJ	55.0	57.4	42.6	3,130	3,550	2,808
NM	11.8	11.5	8.1	567	604	532
NY	61.9	60.2	41.3	3,573	3,730	2,875
NC	70.7	63.0	42.7	2,964	3,054	2,496
ND	2.6	1.7	.9	102	83	58
OH	33.0	44.5	25.6	1,724	2,537	1,989
OK	10.7	9.0	6.3	502	466	380
OR	11.3	10.7	7.0	590	528	526
PA	43.6	53.4	44.0	2,184	2,994	2,689
RI	5.4	7.3	4.7	241	350	280
SC	32.8	26.8	19.1	1,360	1,357	1,124
SD	2.5	2.0	1.3	91	81	63
TN	38.1	34.4	21.6	1,515	1,701	1,323
TX	143.1	96.7	59.1	6,720	5,180	4,266
UT	16.5	13.8	9.1	741	698	570
VT	4.1	4.5	3.5	218	267	224
VA	64.1	73.5	54.4	2,960	3,663	3,106
WA	35.5	36.4	19.3	1,794	2,043	1,437
WV	1.5	1.9	1.4	58	83	72
WI	20.2	21.8	13.2	917	1,130	854
WY	1.2	.9	.8	52	48	45

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

No. 1208. New Housing Units Started: 1960 to 1987

[Minus sign (−) indicates decrease. See also *Historical Statistics, Colonial Times to 1970,* series N 156-159]

Year	Total (1,000)	Percent change	Privately owned (1,000)		Publicly owned (1,000)
			Total	1-unit structures	
1960	1,296	[1] −16.6	1,252	995	44
1965	1,510	[2] −3.3	1,473	964	37
1966	1,196	−20.8	1,165	779	31
1967	1,322	10.5	1,292	844	30
1968	1,545	16.9	1,508	899	38
1969	1,500	−2.9	1,467	811	33
1970	1,469	−2.1	1,434	813	35
1971	2,085	41.9	2,052	1,151	32
1972	2,379	14.1	2,357	1,309	22
1973	2,057	−13.5	2,045	1,132	12
1974	1,353	−34.2	1,338	888	15
1975	1,171	−13.4	1,160	892	11
1976	1,548	32.2	1,538	1,162	10
1977	2,002	29.3	1,987	1,451	15
1978	2,036	1.7	2,020	1,433	16
1979	1,760	−13.6	1,745	1,194	15
1980	1,313	−25.4	1,292	852	20
1981	1,100	−16.2	1,084	705	16
1982	1,072	−2.6	1,062	663	10
1983	1,712	59.7	1,703	1,068	9
1984	1,756	2.6	1,750	1,084	6
1985	1,745	−.6	1,742	1,072	3
1986	1,807	3.6	1,805	1,179	2
1986, Jan.–July [3]	(NA)	(NA)	1,891	1,211	(NA)
1987, Jan.–July [3] [4]	(NA)	(NA)	1,692	1,194	(NA)

NA Not available. [1] Change from 1959. [2] Change from 1964. [3] Average seasonally adjusted annual rate.
[4] Preliminary.

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

No. 1209. New Privately-Owned Housing Units Started—Selected Characteristics: 1970 to 1986

[In thousands. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 156–163 and 170]

Year	Total units [1]	Structures with—			Region				Condominium units [2]			Type of assistance [3]	
		One unit	2–4 units	5 or more units	Northeast	Midwest	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	471	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	(NA)	(NA)
1986	1,805	1,179	84	542	294	296	733	483	214	80	134	(NA)	(NA)

NA Not available. [1] For 1970–1976, characteristics such as type of structure, and region, include data for publicly owned units. [2] 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. [3] Source: U.S. Department of Housing and Urban Development, 1970–1979, *HUD Statistical Yearbook;* thereafter unpublished data.

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

No. 1210. New Privately-Owned Housing Units Started, by State: 1983 to 1986

[In thousands of units]

Region, division and state	1983	1984	1985	1986, prel.
United States	**1,702.9**	**1,749.9**	**1,742.0**	**1,805.0**
Region:				
Northeast	167.8	203.7	252.0	293.0
Midwest	218.1	244.7	240.0	296.0
South	934.8	866.0	782.0	733.0
West	382.2	435.5	468.0	483.0
New England	**59.0**	**76.4**	**95.0**	**110.0**
Maine	4.6	6.8	9.5	11.1
New Hampshire	7.9	12.5	15.7	17.8
Vermont	5.1	7.4	5.1	5.9
Massachusetts	22.4	26.5	36.5	42.1
Rhode Island	3.7	4.4	5.0	6.7
Connecticut	15.3	18.8	23.1	26.2
Middle Atlantic	**108.8**	**127.3**	**157.0**	**183.0**
New York	36.2	43.4	59.5	61.8
New Jersey	36.7	43.7	50.6	60.2
Pennsylvania	35.9	40.2	46.9	60.9
East North Central	**127.3**	**141.4**	**148.0**	**198.0**
Ohio	31.6	33.5	34.5	45.6
Indiana	20.2	23.5	22.6	31.1
Illinois	34.2	35.0	37.4	52.6
Michigan	23.4	30.1	34.6	46.4
Wisconsin	17.9	19.3	18.7	22.2
West North Central	**90.7**	**103.3**	**92.0**	**98.0**
Minnesota	28.2	30.4	29.0	33.3
Iowa	7.9	7.7	5.9	5.8
Missouri	22.5	30.8	31.7	35.2
North Dakota	5.5	3.9	3.2	1.8
South Dakota	3.1	4.5	2.5	2.2
Nebraska	6.7	7.1	5.5	6.3
Kansas	16.8	18.9	14.1	13.4
South Atlantic	**430.5**	**479.7**	**486.0**	**521.0**
Delaware	3.4	4.3	4.2	5.7
Maryland	36.0	36.9	40.0	44.2
District of Columbia	.3	.4	.3	.6
Virginia	53.8	62.8	60.3	77.3
West Virginia	2.5	2.8	2.0	3.2
North Carolina	53.6	62.7	73.2	71.7
South Carolina	28.3	33.1	33.0	29.1
Georgia	72.2	80.0	82.6	90.8
Florida	180.4	196.7	190.2	198.3
East South Central	**84.0**	**92.1**	**93.0**	**84.0**
Kentucky	14.9	15.7	16.5	15.8
Tennessee	37.5	42.4	42.9	38.2
Alabama	18.9	20.1	22.3	20.2
Mississippi	12.7	13.9	11.4	9.8
West South Central	**420.4**	**294.1**	**203.0**	**128.0**
Arkansas	12.5	12.7	13.6	11.0
Louisiana	40.2	30.8	21.2	11.7
Oklahoma	50.2	28.5	14.5	9.6
Texas	317.5	222.1	153.6	95.7
Mountain	**161.3**	**172.0**	**157.0**	**145.0**
Montana	2.6	3.4	3.1	1.8
Idaho	4.1	4.3	5.0	4.3
Wyoming	2.8	2.0	1.7	1.2
Colorado	50.0	41.9	34.8	32.3
New Mexico	11.1	16.2	12.2	11.7
Arizona	62.6	73.1	70.5	62.7
Utah	13.0	18.2	15.8	14.6
Nevada	15.1	12.9	13.7	16.2
Pacific	**221.0**	**263.7**	**311.0**	**338.0**
Washington	27.6	29.4	34.3	35.5
Oregon	8.9	8.6	10.4	10.1
California	166.5	212.9	253.6	284.1
Alaska	12.7	7.5	6.0	1.6
Hawaii	5.3	5.3	6.7	6.7

Source: National Association of Home Builders, Economics Division, Washington, DC. Data provided from the Econometric Forecasting Service.

No. 1211. Characteristics of New Privately Owned One-Family Houses Completed: 1970 to 1986

[**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	1984	1985	1986
Total houses (1,000)	793	957	1,025	1,072	1,120
Financing	100	100	100	100	100
Mortgage	84	81	81	81	83
FHA-insured	30	16	13	15	20
VA-guaranteed	7	8	6	7	8
Conventional	47	55	61	57	54
Farmers Home Administration		3	2	3	2
Cash or equivalent	16	18	19	19	16
Floor area	100	100	100	100	100
Under 1,200 sq. ft	36	21	19	20	17
1,200–1,599 sq. ft	28	29	30	30	30
1,600–1,999 sq. ft	16	22	21	21	21
2,000–2,399 sq. ft	21	*13*	*12*	*12*	*14*
2,400 sq. ft. and over		15	17	17	18
Average (sq. ft.)	1,500	1,740	1,700	1,785	1,825
Median (sq. ft.)	1,385	1,595	1,605	1,605	1,660
Number of stories	100	100	100	100	100
1	74	60	54	52	51
2 or more	17	31	40	42	44
Split level	10	8	6	6	5
Foundation	100	100	100	100	100
Full or partial basement	37	36	32	35	37
Slab	36	45	50	48	45
Crawl space	27	19	18	18	18

CHARACTERISTIC	1970	1980	1984	1985	1986
Bedrooms	100	100	100	100	100
2 or less	13	17	24	25	21
3	63	63	58	57	59
4 or more	24	20	18	18	20
Bathrooms	100	100	100	100	100
1 or less	32	18	14	13	10
1½	20	10	10	11	9
2	32	48	48	48	47
2½ or more	16	25	28	29	33
Heating fuel	100	100	100	100	100
Electricity	28	50	48	44	44
Gas	62	41	45	49	47
Oil	8	3	2	3	5
Other	1	5	5	4	4
Heating system	100	100	100	100	100
Warm air furnace	71	57	55	54	54
Electric heat pump	(NA)	24	30	30	29
Other	29	19	15	15	17
Central air-conditioning	100	100	100	100	100
With	34	63	71	70	69
Without	66	37	29	30	31
Fireplaces	100	100	100	100	100
No fireplace	65	43	41	41	38
1 or more	35	56	59	59	62
Parking facilities	100	100	100	100	100
Garage	58	69	69	70	74
Carport	17	7	5	5	4
No garage or carport	25	24	25	25	21

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* (a joint publication).

No. 1212. New Privately Owned One-Family Houses Sold, by Region and Type of Financing, 1970 to 1986, and by Sales Price Group, 1986

[*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. I, inside front cover*]

YEAR AND SALES-PRICE GROUP	Total sales	REGION				FINANCING TYPE			
		Northeast	Midwest	South	West	Conventional	FHA and VA	Farmers Home Administration	Cash
1970	485	61	100	203	121	[1] 213	244	(1)	27
1971	656	82	127	270	176	[1] 314	314	(1)	28
1972	718	96	130	305	187	[1] 447	242	(1)	30
1973	634	95	120	257	161	[1] 465	134	(1)	34
1974	519	69	103	207	139	[1] 378	112	(1)	28
1975	549	71	106	222	150	363	122	43	22
1976	646	72	128	247	199	458	134	23	31
1977	819	86	162	317	255	592	166	24	38
1978	817	78	145	331	262	575	174	26	43
1979	709	67	112	304	225	469	186	18	36
1980	545	50	81	267	145	302	196	14	32
1981	436	46	60	219	112	244	142	14	36
1982	412	47	48	219	99	193	173	11	34
1983	623	76	71	323	152	350	217	8	49
1984	639	94	76	309	160	423	149	9	58
1985	688	112	82	323	170	403	208	11	64
1986 total	**750**	**136**	**96**	**322**	**196**	**411**	**268**	**12**	**59**
Under $50,000	36	(B)	5	25	6	13	(B)	9	3
$50,000 to $59,999	51	4	9	31	8	18	28	(B)	4
$60,000 to $69,999	86	6	12	53	16	30	51	(B)	6
$70,000 to $79,999	96	7	13	51	26	32	58	(B)	5
$80,000 to $99,999	165	24	22	66	52	67	83	(B)	14
$100,000 to$119,999	92	21	10	33	27	61	24	(B)	7
$120,000 to $149,999	83	20	11	26	26	64	9	(B)	9
$150,000 and over	140	53	14	37	36	126	(B)	(B)	11

B Base figure to small to meet statistical standards for reliability. [1] Houses financed by Farmers Home Administration included under conventional financing.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

No. 1213. Median Sales Price of New Privately Owned One-Family Houses Sold, by Region: 1970 to 1986

[In dollars. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. I, inside front cover]

Year	U.S.	North-east	Mid-West	South	West	Year	U.S.	North-east	Mid-West	South	West
1970	23,400	30,300	24,400	20,300	24,000	1980	64,600	69,500	63,400	59,600	72,300
1971	25,200	30,600	27,200	22,500	25,500	1981	68,900	76,000	65,900	64,400	77,800
1972	27,600	31,400	29,300	25,800	27,500	1982	69,300	78,200	68,900	66,100	75,000
1973	*32,500*	*37,100*	*32,900*	*30,900*	*32,400*	1983	*75,300*	*82,200*	*79,500*	*70,900*	*80,100*
1974	35,900	40,100	36,100	34,500	35,800	1984	79,900	88,600	85,400	72,000	87,300
1975	39,300	44,000	39,600	37,300	40,600	1985	84,300	103,300	80,300	75,000	92,600
1976	44,200	47,300	44,600	40,500	47,200	1986 [1]	92,000	125,000	88,300	80,200	95,700
1977	48,800	51,600	51,500	44,100	53,500						
1978	55,700	58,100	59,200	50,300	61,300						
1979	62,900	65,500	63,900	57,300	69,600						

[1] 1987, U.S. total: 1st qtr., $97,900, 2d qtr., $104,000.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Construction Reports*, series C25, *Characteristics of New Housing*, annual; and *New One-Family Houses Sold and For Sale*, monthly.

No. 1214. New Mobile Homes Placed for Residential Use and Average Sales Price, by Region: 1974 to 1986

[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. I, inside front cover]

Year	Units placed (1,000)					Average sales price ($1,000)				
	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	9.3	9.4	9.3	8.3	11.6
1975	229.3	14.7	48.5	110.8	55.2	10.6	10.5	10.7	9.0	13.6
1976	249.6	16.8	51.5	114.8	66.5	12.3	11.6	11.6	10.6	16.0
1977	257.5	16.7	50.7	112.5	77.7	14.2	12.9	13.5	12.1	18.1
1978	279.9	17.4	49.5	135.3	77.7	*15.9*	*14.3*	*15.1*	*13.7*	*20.6*
1979	279.9	16.9	47.3	145.2	70.5	17.6	15.8	16.1	15.6	23.1
1980	233.7	12.3	32.3	140.3	48.7	19.6	18.5	18.6	18.2	25.4
1981	229.2	12.0	30.1	143.5	43.6	19.9	19.0	18.9	18.4	25.6
1982	234.1	12.4	25.6	161.1	35.0	*19.7*	*19.8*	*20.0*	*18.5*	*24.7*
1983	278.1	16.3	34.3	186.0	41.4	21.0	21.4	20.4	19.7	27.0
1984	287.9	19.8	35.2	193.4	39.4	21.5	22.2	21.1	20.2	27.4
1985	283.4	20.2	38.6	187.6	36.9	21.8	22.7	21.5	20.4	28.7
1986	256.1	21.2	37.2	162.3	*35.4*	*22.4*	*24.4*	*21.8*	*20.7*	*29.9*

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

No. 1215. Existing One-Family Houses Sold and Price, by Region: 1970 to 1986

[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. I, inside front cover]

Year	Houses sold (1,000)					Median sales price ($1,000)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1970	1,612	251	501	568	292	23.0	25.2	20.1	22.2	24.3
1971	2,018	311	583	735	389	24.8	27.1	22.1	24.3	26.5
1972	2,252	361	630	788	473	26.7	29.8	23.9	26.4	28.4
1973	2,334	367	674	847	446	28.9	32.8	25.3	29.0	31.0
1974	2,272	354	645	839	434	32.0	35.8	27.7	32.3	34.8
1975	2,476	370	701	862	543	35.3	39.3	30.1	34.8	39.6
1976	3,064	439	881	1,033	712	38.1	41.8	32.9	36.5	46.1
1977	3,650	515	1,101	1,231	803	42.9	44.4	36.7	39.8	57.3
1978	3,986	516	1,144	1,416	911	48.7	47.9	42.2	45.1	66.7
1979	3,827	526	1,061	1,353	887	55.7	53.6	47.8	51.3	77.4
1980	2,973	403	806	1,092	672	62.2	60.8	51.9	58.3	89.3
1981	2,419	353	632	917	516	66.4	63.7	54.3	64.4	96.2
1982	1,990	354	490	780	366	67.8	63.5	55.1	67.1	98.9
1983	2,719	493	709	1,035	481	70.3	72.2	56.6	69.2	94.9
1984	2,868	511	755	1,073	529	72.4	78.7	57.1	71.3	95.8
1985	3,214	622	866	1,172	554	75.5	86.9	58.9	75.2	95.4
1986	3,565	703	991	1,261	610	80.3	104.8	63.5	78.2	100.9

Source: National Association of Realtors®, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

No. 1216. Median Sales Price of Existing One-Family Homes, by Selected Metropolitan Area: 1984 to 1987

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

Metropolitan area	1984	1985	1986	1987, 2nd qtr.	Metropolitan area	1984	1985	1986	1987, 2nd qtr.
U.S., all areas	**72.4**	**75.5**	**80.3**	(NA)	Louisville, KY-IN	48.9	50.6	51.7	53.4
Akron, OH PMSA	50.4	52.7	56.2	56.9	Memphis, TN-AR-MS	64.1	64.6	70.6	76.9
Albany-Schenectady-Troy, NY	52.9	60.3	72.7	86.5	Miami-Hialeah, FL PMSA	79.5	80.5	81.1	84.4
Albuquerque NM	73.4	76.8	81.6	82.5	Milwaukee, WI PMSA	66.2	67.5	69.9	71.7
Anaheim-Santa Ana, CA PMSA	133.7	136.2	147.7	167.3	Minneapolis-St. Paul, MN-WI	74.0	75.2	77.9	80.2
Baltimore, MD	66.1	72.6	74.0	77.6	Nashville-Davidson, TN	62.9	66.1	70.8	75.9
Baton Rouge, LA	73.5	74.6	70.9	68.1	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	105.3	134.0	160.6	183.0
Birmingham, AL	65.1	64.5	68.3	72.7	Oklahoma City, OK	63.9	64.7	63.0	65.2
Boston, MA PMSA	100.0	134.2	159.2	175.8	Omaha NE-IA	56.2	58.3	58.8	60.0
Buffalo-Niagara Falls, NY CMSA	44.8	46.7	52.4	57.0	Orlando, FL	70.1	70.3	72.5	76.4
Chicago, IL PMSA	79.5	81.1	86.1	90.9	Philadelphia, PA-NJ PMSA	65.2	70.8	74.5	84.4
Cincinnati, OH-KY-IN PMSA	58.9	60.2	(NA)	65.9	Phoenix, AZ	74.7	74.7	78.4	81.4
Cleveland, OH PMSA	62.7	64.4	66.9	(NA)	Portland, OR PMSA	62.9	61.5	62.6	64.3
Columbus OH	59.9	62.2	65.5	67.2	Providence, RI PMSA	59.6	67.5	87.6	109.8
Dallas–Ft. Worth, TX CMSA	82.2	87.7	92.8	90.0	Rochester, NY	59.7	64.2	68.3	72.3
Denver, CO PMSA	82.7	84.3	86.4	87.5	St. Louis, MO-IL	61.8	65.7	70.9	74.7
Des Moines, IA	52.4	52.5	55.9	56.8	Salt Lake City-Ogden, UT	65.8	66.7	68.5	69.4
Detroit, MI PMSA	48.5	51.7	58.1	66.6	San Antonio, TX	67.5	67.7	69.2	73.2
El Paso, TX	57.8	57.6	59.0	58.0	San Diego, CA	100.2	106.4	118.2	127.1
Ft. Lauderdale-Hollywood-Pompano Beach, FL PMSA	73.1	74.6	77.7	79.7	San Francisco-Oakland-San Jose, CA CMSA	129.9	(NA)	(NA)	(NA)
Grand Rapids, MI	42.8	46.7	50.4	53.4	Syracuse, NY	50.7	58.8	64.3	68.1
Hartford, CT PMSA	87.4	99.6	129.0	157.0	Tampa-St. Petersburg-Clearwater, FL	58.4	58.4	61.1	65.7
Houston, TX PMSA	77.6	78.6	69.9	67.4	Toledo, OH	50.7	51.9	56.0	58.2
Indianapolis, IN	53.1	55.0	59.0	63.8	Tulsa, OK	67.3	66.7	65.5	67.4
Jacksonville, FL	55.7	58.4	62.8	65.8	Washington, DC-MD-VA	93.0	97.1	101.2	120.4
Kansas City, MO-KS	59.1	61.4	65.4	71.1	West Palm Beach-Boca Raton-Delray Beach, FL	84.8	88.3	90.1	104.3
Las Vegas, NV	76.3	75.1	77.5	77.9					
Los Angeles-Long Beach, CA PMSA	115.3	(NA)	128.8	139.6					

NA Not available.

Source: National Association of Realtors®, Washington, DC, *Existing Home Sales*, monthly. (Copyright.)

No. 1217. Existing Home Sales, by State: 1982 to 1986

[**In thousands.** For composition of regions, see fig. I, inside front cover]

Region, division, and state	1982	1983	1984	1985	1986	Division and state	1982	1983	1984	1985	1986
U.S.[1]	**2,120.0**	**2,924.0**	**3,098.0**	**3,493.0**	**3,897.0**	**S.A**	**386.1**	**524.3**	**564.2**	**640.3**	**723.2**
Region: [1]						DE	7.3	9.3	10.0	12.3	12.9
Northeast	399.3	573.5	609.4	756.3	845.4	MD	43.8	60.8	66.8	80.9	86.9
Midwest	519.7	756.9	805.6	917.1	1,042.6	DC	5.5	7.5	7.8	9.9	11.6
South	819.3	1,088.1	1,127.8	1,236.9	1,323.9	VA	71.3	103.1	98.1	107.2	130.4
West	436.9	611.6	660.2	703.6	792.0	WV	21.9	32.2	34.6	37.7	39.7
						NC	70.0	93.0	103.2	123.3	139.2
N.E	**98.7**	**155.2**	**170.4**	**206.0**	**210.7**	SC	30.2	39.7	46.0	52.6	58.0
ME	14.8	21.0	23.3	27.1	30.8	GA	35.8	51.0	60.1	65.1	75.1	
NH	7.9	15.2	16.9	19.3	17.4	FL	100.3	127.7	137.6	151.3	169.4	
VT	6.0	7.4	8.2	9.9	12.4							
MA	42.5	65.0	66.5	80.5	84.6	**E.S.C**	**138.8**	**202.0**	**221.3**	**252.1**	**265.6**
RI	6.2	8.8	11.0	13.2	13.5	KY	37.1	56.5	57.3	57.7	58.6
CT	21.3	37.8	44.5	56.0	52.0	TN	46.8	71.1	78.7	99.2	112.0
						AL	31.9	41.8	53.3	59.7	60.8
M.A	**300.6**	**418.3**	**439.0**	**550.3**	**634.7**	MS	23.0	32.6	32.0	35.5	34.2
NY	120.9	148.5	148.9	190.7	216.8						
NJ	73.0	112.9	119.7	148.8	159.6	**W.S.C**	**294.4**	**361.8**	**342.3**	**344.5**	**335.1**
PA	106.7	156.9	170.4	210.8	258.3	AR	31.3	43.0	43.4	49.8	52.8
						LA	45.7	63.0	50.3	44.1	34.0
E.N.C	**333.4**	**490.5**	**520.7**	**625.8**	**708.7**	OK	52.1	64.7	51.9	46.8	49.4
OH	83.0	129.1	138.3	162.5	179.9	TX	165.3	191.1	196.7	203.8	198.9
IN	41.4	57.2	64.5	90.1	86.1						
IL	80.0	115.3	122.5	140.5	179.2	**Mt**	**136.6**	**169.2**	**181.3**	**195.4**	**195.7**
MI	94.8	135.1	139.4	167.2	186.6	MT	9.3	12.4	12.4	11.1	11.9
WI	34.2	53.8	56.0	65.5	76.9	ID	9.3	11.3	12.3	11.5	11.3
						WY	5.1	5.5	6.2	6.5	6.1
W.N.C	**186.3**	**266.4**	**284.9**	**291.3**	**333.9**	CO	38.4	46.1	47.1	49.3	47.5
MN	44.3	58.6	65.5	73.9	96.8	NM	15.9	18.3	19.1	19.8	19.5
IA	28.6	39.1	41.9	39.5	46.1	AZ	37.9	50.7	59.8	71.7	73.8
MO	48.4	72.1	81.0	85.8	88.4	UT	12.5	14.7	15.0	15.5	14.6
ND	6.4	9.4	10.0	8.9	9.5	NV	8.2	10.2	9.4	10.0	11.0
SD	8.6	13.3	11.8	11.3	13.2						
NE	16.6	24.6	24.9	24.5	25.5	**Pac**	**300.3**	**442.4**	**478.9**	**508.2**	**596.3**
KS	33.4	49.3	49.8	47.4	54.4	WA	33.7	44.9	44.9	43.8	50.6
						OR	24.4	34.4	35.7	39.3	45.0
						CA[2]	233.8	343.2	382.1	407.2	484.6
						AK	4.3	12.1	9.2	10.0	6.1
						HI	4.1	7.8	7.0	7.9	10.0

[1] U.S. and region 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. 1218. New Apartments Completed and Rented in 3 Months, by Region: 1980 to 1986

[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. I, inside front cover]

Year and rent	Number (1,000)					Percent rented in 3 months				
	Total	Northeast	Midwest	South	West	Total	Northeast	Midwest	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	**408.0**	**17.0**	**64.1**	**171.7**	**155.1**	**66**	**70**	**70**	**62**	**68**
Less than $300	30.6	3.5	7.9	14.9	4.3	70	69	75	70	65
$300-$349	34.3	.6	7.5	15.1	11.2	71	57	84	64	74
$350-$399	67.1	(z)	11.7	35.6	19.7	64	(z)	64	64	64
$400-$449	64.3	.4	8.2	31.2	24.5	65	37	68	63	67
$450-$499	61.6	1.0	7.7	29.6	23.3	64	68	71	61	64
$500 or more	150.2	11.6	21.0	45.4	72.2	66	72	67	60	69

Z Less than 50 or .5 percent.

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

No. 1219. Gross Housing Product—Summary: 1970 to 1986

[**In billions of dollars.** For definition of current and constant dollars, see Guide to Tabular Presentation]

Item	Current dollars						Constant (1982) dollars					
	1970	1980	1983	1984	1985	1986	1970	1980	1983	1984	1985	1986
Total value of housing output [1]	90.5	251.2	330.8	356.7	386.7	420.4	207.4	299.9	312.8	320.0	327.9	336.9
Nonfarm housing	87.3	240.1	318.6	344.5	375.7	410.5	189.1	285.6	300.3	307.9	316.2	325.5
Owner-occupied	61.3	178.3	233.9	252.3	272.7	296.0	132.8	212.0	220.5	226.1	230.5	236.0
Tenant-occupied	26.0	61.9	84.7	92.2	103.0	114.5	56.2	73.6	79.8	81.8	85.7	89.5
Farm housing	3.3	11.0	12.1	12.2	10.9	9.9	18.3	14.3	12.5	12.1	11.7	11.4
Less: Intermediate goods and services consumed	*12.7*	*47.2*	*57.2*	*61.1*	*62.9*	*65.0*	*29.9*	*56.4*	*54.1*	*54.9*	*53.4*	*52.1*
Equals: Gross housing product	77.8	204.0	273.6	295.6	323.8	355.4	177.5	243.5	258.7	265.2	274.5	284.7

[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. 1220. Residential Capital—Stocks and Average Age: 1960 to 1986

[As of **Dec. 31.** Data based on fixed residential capital formation components of the gross national product. For nonresidential business capital, see table 849]

Item	Current dollars (bil. dol.)					Constant (1982) dollars (bil. dol.)					Average age [1] (years)				
	1960	1970	1980	1985	1986	1960	1970	1980	1985	1986	1960	1970	1980	1985	1986
Gross stocks [2]	688	1,220	4,184	5,517	5,914	2,454	3,319	4,484	5,008	5,160	27.2	25.1	23.7	24.0	23.9
Private nonfarm:															
1-4 units	572	983	3,331	4,401	4,721	2,056	2,689	3,572	3,985	4,107	26.6	25.7	24.5	24.8	24.7
5 or more units	49	125	508	696	756	174	343	543	631	657	26.3	18.1	17.6	18.5	18.4
Farm (1-4 units)	42	55	134	152	156	153	150	145	137	136	43.7	43.9	42.8	42.9	42.9
Private nonhousekeeping	5	10	24	27	28	16	27	25	25	25	21.8	14.6	19.3	21.8	22.3
Mobile homes	4	14	73	91	93	6	29	77	89	89	4.7	4.7	7.1	8.2	8.3
Public: Federal, State and local	12	25	85	112	120	42	68	91	101	104	11.2	14.9	19.6	21.7	22.0
Net stocks [2] [3]	436	791	2,734	3,559	3,824	1,555	2,151	2,929	3,230	3,334	17.5	16.5	16.2	16.8	16.7
Private nonfarm:															
1-4 units	371	639	2,187	2,857	3,072	1,333	1,748	2,345	2,587	2,672	17.1	17.2	16.8	17.4	17.3
5 or more units	28	88	363	487	529	102	243	387	441	459	18.6	11.1	12.5	13.6	13.7
Farm (1-4 units)	19	24	57	64	65	70	64	62	58	57	29.5	28.8	26.4	26.4	26.5
Private nonhousekeeping	2	6	12	13	13	8	18	13	11	11	12.7	9.0	16.0	18.3	18.6
Mobile homes	3	10	41	47	47	4	21	43	46	45	3.5	3.3	5.3	5.6	5.6
Public: Federal, State and local	10	18	57	72	77	34	51	61	65	67	9.9	12.7	16.2	17.6	17.7

[1] Constant-dollar stocks. [2] Includes equipment, not shown separately. [3] Based on straight-line depreciation.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, August 1987, and *Fixed Reproducible Tangible Wealth in the United States, 1925-85.*

No. 1221. Housing Units—Summary of Characteristics: 1960 to 1983

[In thousands, except as indicated. As of April, except 1983 as of fall. For information on methodology, see Appendix III. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. I, inside front cover]

Characteristic	1960	1970	1980	1983				
				Total	Regions			
					Northeast	Midwest	South	West
All housing units	**58,326**	**68,672**	**88,411**	**93,519**	**20,053**	**23,874**	**31,150**	**18,443**
All year-round units	56,584	67,699	86,693	91,675	19,352	23,421	30,700	18,201
Occupied units	53,024	63,445	80,390	84,638	18,221	21,618	27,931	16,868
Owner occupied	32,797	39,886	51,795	54,724	11,009	14,935	18,825	9,955
Percent of all occupied	61.9	62.9	64.4	64.7	60.4	69.1	67.4	59.0
Renter occupied	20,227	23,560	28,595	29,914	7,212	6,683	9,106	6,912
Vacant year-round	3,560	4,254	6,303	7,037	1,131	1,803	2,769	1,334
For sale only	522	501	948	955	120	275	364	196
Homeowner vacancy rate	1.6	1.2	1.8	1.7	1.1	1.8	1.9	1.9
For rent	1,453	1,666	2,179	1,906	303	470	753	381
Rental vacancy rate	6.7	6.8	7.1	5.9	4.0	6.4	7.5	5.1
Other vacant	1,084	2,087	3,176	4,176	708	1,058	1,652	756
Vacant, seasonal and migratory	1,742	973	1,718	1,845	700	453	450	241
Cooperatives and condominiums:								
Owner occupied	(NA)	(NA)	(NA)	1,749	422	341	496	489
Cooperatives	(NA)	(NA)	(NA)	360	227	58	35	40
Condominiums	(NA)	(NA)	1,225	1,389	195	284	461	449
Vacant for sale only	(NA)	(NA)	(NA)	145	14	25	65	41
Public or subsidized housing: [1]								
Units in public housing project	(NA)	(NA)	(NA)	2,180	639	525	707	309
Private housing unit with government rent subsidy	(NA)	(NA)	(NA)	1,199	381	252	293	273
Units in structure [2]—								
1-unit	43,758	46,791	57,183	61,482	10,884	16,546	22,298	11,754
Percent of total units	77.3	69.1	65.9	67.1	56.2	70.6	72.6	64.6
2–4 units	7,552	9,007	9,682	11,373	3,847	2,969	2,516	2,041
5 or more units	6,238	9,829	15,478	14,820	4,274	3,149	4,028	3,369
Mobile home or trailer	767	2,073	4,416	3,999	348	756	1,858	1,037
Year structure built: [2]								
April 1970 or later	(X)	(X)	[3] 22,744	23,686	2,633	4,926	10,301	5,826
1960–March 1970	(X)	16,956	[4] 17,087	18,144	3,082	4,242	6,763	4,058
1950–1959	16,046	14,499	14,871	14,331	2,628	3,544	5,013	3,147
1940–1949	8,640	8,788	9,642	8,101	1,549	1,782	3,051	1,719
1939 or earlier	33,632	27,458	22,414	27,413	9,461	8,927	5,573	3,452
Percent built prior to 1940	57.7	40.6	25.8	29.9	48.9	38.1	18.2	19.0
Units with [2]—								
1–3 rooms	11,400	11,028	13,598	13,533	3,498	2,768	3,834	3,433
4 rooms	12,435	14,113	16,969	17,828	3,409	4,100	6,356	3,963
5 rooms	14,323	16,998	20,017	21,937	3,812	5,909	8,160	4,055
6 rooms	11,141	13,609	16,945	18,324	3,869	4,940	6,330	3,184
7 or more rooms	9,020	11,950	19,164	20,053	4,764	5,703	6,020	3,566
Median number of rooms	4.9	5.0	5.1	5.1	5.2	5.3	5.1	4.9
Persons per unit (median):								
Owner occupied	3.1	3.0	2.6	2.5	2.7	2.6	2.5	2.4
Renter occupied	2.6	2.3	2.0	2.0	2.0	1.9	2.2	2.1
Units lacking some or all plumbing facilities [2]	7,899	4,398	2,334	2,233	371	463	1,174	225
Percent	13.2	6.5	2.7	2.4	1.9	2.0	3.8	1.2
Percent of units with—								
Telephone [5]	78.5	87.0	93.0	90.4	91.3	92.2	88.3	90.5
Air conditioning [2]	12.4	36.7	55.0	59.1	46.8	61.7	78.2	37.2
Central system [2]	1.9	10.7	27.5	29.2	9.6	29.5	45.4	23.0
Public sewer [2]	(NA)	70.2	74.1	74.3	76.9	76.5	65.6	83.3
Public or private company water [1]	(NA)	81.7	83.6	84.4	85.8	81.0	81.5	92.1
Year householder moved into unit:								
April 1970 or later	(NA)	(NA)	(NA)	61,655	12,038	15,259	20,665	13,692
1965–March 1970	(NA)	(NA)	(NA)	7,004	1,698	1,852	2,325	1,129
1960–1964	(NA)	(NA)	(NA)	5,090	1,301	1,379	1,643	768
1950–1959	(NA)	(NA)	(NA)	6,397	1,827	1,812	1,911	847
1949 or earlier	(NA)	(NA)	(NA)	4,493	1,358	1,316	1,387	433

NA Not available. X Not applicable. [1] Refers to specified renter-occupied units. [2] For 1960, all housing units, based on a complete count, but tabulated on a 20-percent sample basis. For 1970, 1980, and 1983 all year-round units. For 1980 and 1983, air conditioning based on occupied housing units. [3] January 1970 or later. [4] 1960 to 1969. [5] Occupied housing units.

Source: U.S. Bureau of the Census, *U.S. Census of Housing: 1960*, vol. 1; *1980 Census of Housing*, vol. 1, chapters A and B; and *Current Housing Reports*, series H-150-83, Annual Housing Survey, part A.

No. 1222. Housing Units—Selected Characteristics, by State: 1980

[As of April 1]

State	Total housing units (1,000)	YEAR-ROUND HOUSING UNITS										
			Percent with—			Occupied housing units						
			Structure built				Percent—					
		Total (1,000)	1970 to March 1980	1939 or earlier	5 or more units in structure	Total (1,000)	Owner occupied units	With 1.01 or more persons per room	Householder moved into unit 1979 to March 1980	Median value (dol.) specified owner [1]	Median selected monthly owner costs [2] (dol.)	Median gross rent [3] (dol.) specified renter [4]
United States	**88,411**	**86,759**	**25.9**	**26.1**	**17.5**	**80,390**	**64.4**	**4.5**	**22.8**	**47,200**	**365**	**243**
Alabama	1,467	1,451	30.9	16.3	9.1	1,342	70.1	5.4	20.8	33,900	295	188
Alaska	163	154	52.7	4.7	22.1	131	58.3	10.1	38.6	76,300	640	368
Arizona	1,111	1,072	48.6	5.6	16.3	957	68.3	7.2	32.5	54,800	365	263
Arkansas	899	889	32.9	17.3	7.2	816	70.5	5.2	23.1	31,100	280	185
California	9,279	9,223	27.2	14.7	24.0	8,630	55.9	7.4	28.0	84,500	411	283
Colorado	1,194	1,170	39.1	18.0	21.4	1,061	64.5	2.8	33.0	64,100	422	252
Connecticut	1,159	1,145	18.1	32.0	17.5	1,094	63.9	2.6	18.1	65,600	434	261
Delaware	239	230	25.7	20.8	16.7	207	69.1	2.6	21.1	44,400	351	247
District of Columbia	277	277	7.0	39.1	52.7	253	35.5	8.1	20.1	66,800	399	226
Florida	4,379	4,279	43.9	6.7	23.7	3,744	68.3	5.3	26.8	45,100	337	256
Georgia	2,028	2,014	33.3	14.7	14.0	1,872	65.0	5.3	23.9	36,900	340	211
Hawaii	334	332	38.9	10.5	38.1	294	51.7	15.3	26.8	118,100	463	311
Idaho	375	360	38.4	21.9	8.8	324	72.0	4.5	28.8	45,600	332	219
Illinois	4,320	4,304	19.4	34.7	22.3	4,045	62.6	4.2	20.6	52,800	406	246
Indiana	2,092	2,065	22.0	32.1	10.8	1,927	71.7	3.1	21.0	37,200	304	219
Iowa	1,131	1,121	20.5	44.4	10.2	1,053	71.8	2.1	20.6	40,600	348	225
Kansas	955	951	22.7	33.6	9.7	872	70.2	2.4	24.0	37,800	330	219
Kentucky	1,369	1,355	28.7	24.7	10.1	1,263	70.0	4.7	21.2	34,200	298	198
Louisiana	1,548	1,537	30.8	15.9	11.1	1,412	65.5	7.1	23.2	43,000	313	214
Maine	501	428	23.2	47.5	10.0	395	70.9	3.1	20.1	37,900	317	216
Maryland	1,571	1,550	23.6	22.4	22.4	1,461	62.0	3.1	20.6	58,300	413	266
Massachusetts	2,208	2,141	15.4	47.3	20.5	2,033	57.5	2.6	18.2	48,400	424	255
Michigan	3,590	3,451	22.1	27.6	12.5	3,195	72.7	3.1	20.0	39,000	363	250
Minnesota	1,613	1,530	25.2	33.3	17.3	1,445	71.7	2.3	21.8	53,100	375	236
Mississippi	912	905	32.5	15.6	8.0	827	71.0	8.0	20.4	31,400	284	180
Missouri	1,989	1,963	23.9	29.4	11.4	1,793	69.6	3.4	21.3	36,700	317	211
Montana	328	315	30.7	30.3	9.9	284	68.6	3.8	27.8	46,500	347	200
Nebraska	625	619	23.8	38.9	12.3	571	68.4	2.1	22.9	38,000	359	213
Nevada	340	338	51.8	5.7	23.2	304	59.6	4.7	37.7	68,700	454	310
New Hampshire	386	349	27.5	39.0	14.3	323	67.6	2.4	22.0	48,000	408	251
New Jersey	2,772	2,690	16.1	33.4	20.9	2,549	62.0	3.5	16.7	60,200	456	270
New Mexico	508	493	36.5	11.8	12.2	441	68.1	8.6	29.5	45,300	324	216
New York	6,868	6,706	11.9	43.3	35.8	6,340	48.6	4.9	17.1	45,600	430	249
North Carolina	2,275	2,224	32.0	17.3	8.5	2,043	68.4	4.5	20.6	36,000	320	205
North Dakota	259	253	30.9	34.9	14.3	228	68.7	2.7	24.6	43,900	392	206
Ohio	4,108	4,078	20.0	32.8	14.1	3,834	68.4	2.5	20.2	44,900	347	224
Oklahoma	1,237	1,230	30.0	20.2	10.1	1,119	70.7	3.7	26.4	35,600	305	214
Oregon	1,083	1,072	34.2	20.6	15.1	992	65.1	2.9	29.8	56,900	371	257
Pennsylvania	4,596	4,513	16.4	44.8	12.2	4,220	69.9	2.4	15.8	39,100	336	225
Rhode Island	373	363	16.1	43.0	16.4	339	58.8	2.5	19.6	46,800	391	222
South Carolina	1,154	1,123	34.4	15.2	8.4	1,030	70.2	6.0	20.6	35,100	312	206
South Dakota	277	270	26.6	40.7	11.2	243	69.3	3.6	23.5	36,600	352	188
Tennessee	1,747	1,737	31.1	16.7	11.5	1,619	68.6	4.4	22.0	35,600	299	203
Texas	5,549	5,485	35.2	12.2	18.4	4,929	64.3	7.2	29.1	39,100	348	245
Utah	490	481	37.7	18.8	12.5	449	70.7	5.8	28.8	57,300	381	235
Vermont	223	196	24.4	46.9	9.4	178	68.7	2.5	21.6	42,200	336	226
Virginia	2,021	2,000	30.9	17.7	16.2	1,863	65.6	3.4	23.3	48,000	395	259
Washington	1,689	1,652	32.0	21.3	17.2	1,541	65.6	2.9	29.0	59,900	362	254
West Virginia	748	737	24.9	34.2	6.2	686	73.6	4.1	18.0	38,500	290	195
Wisconsin	1,864	1,756	23.1	36.6	12.3	1,652	68.2	2.4	20.7	48,600	381	234
Wyoming	188	182	40.4	22.6	10.0	166	69.2	4.2	34.2	59,800	397	252

[1] "Specified owner-occupied" housing units include one-family houses on less than 10 acres without a commercial establishment or medical office on the property. The data exclude owner-occupied condominium housing units, mobile homes, trailers, boats, tents, or vans occupied as a usual residence, as well as owner-occupied noncondominium units in multi-family buildings.
[2] "Specified owner with a mortgage". Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, or similar debts on the property; real estate taxes; fire and hazard insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.). [3] "Gross rent" is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else) in addition to rent. [4] "Specified renter-occupied" housing units include renter-occupied units except one-family houses on 10 or more acres.

Source: U.S. Bureau of the Census, *1980 Census of Housing*, vol. 1, chapters A and B (HC80-1-A and HC80-1-B).

No. 1223. Occupied Housing Units—Tenure, by Race of Householder: 1920 to 1983

[**In thousands, except as indicated.** As of **April 1**, except **1983**, 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 1983*. 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	1983
ALL RACES								
Occupied units, total	24,352	29,905	34,855	42,826	53,024	63,445	80,390	84,638
Owner occupied	11,114	14,280	15,196	23,560	32,797	39,886	51,795	54,724
Percent of occupied	45.6	47.8	43.6	55.0	61.9	62.9	64.4	64.7
Renter occupied	13,238	15,624	19,659	19,266	20,227	23,560	28,595	29,914
WHITE								
Occupied units, total	21,826	26,983	31,561	39,044	47,880	56,606	68,810	72,562
Owner occupied	10,511	13,544	14,418	22,241	30,823	37,005	46,671	49,144
Percent of occupied	48.2	50.2	45.7	57.0	64.4	65.4	67.8	67.7
Renter occupied	11,315	13,439	17,143	16,803	17,057	19,601	22,139	23,418
BLACK AND OTHER								
Occupied units, total	2,526	2,922	3,293	3,783	5,144	6,839	11,580	12,076
Owner occupied	603	737	778	1,319	1,974	2,881	5,124	5,580
Percent of occupied	23.9	25.2	23.6	34.9	38.4	42.1	44.2	46.2
Renter occupied	1,923	2,185	2,516	2,464	3,170	3,959	6,456	6,496

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-150-83, Annual Housing Survey: 1983, part A.

No. 1224. Occupied Housing Units—Financial Summary: 1970 to 1983

[**In thousands, except as indicated.** See headnote, table 1221. For definition of median, see Guide to Tabular Presentation. For composition of regions, see fig. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 302-307]

CHARACTERISTIC	1970	1980	1983				
			Total	Region			
				Northeast	Midwest	South	West
Occupied units, total	**63,450**	**80,390**	**84,638**	**18,221**	**21,618**	**27,931**	**16,868**
Mortgaged	(NA)	25,483	27,758	5,112	7,410	9,317	5,919
Percent	(NA)	64.6	63.8	58.9	62.2	62.5	73.6
Not mortgaged	(NA)	13,946	15,777	3,562	4,497	5,594	2,124
Median income:							
Owner occupied (dol.)	9,700	19,800	24,400	26,300	24,300	21,700	28,000
Renter occupied (dol.)	6,300	10,500	12,400	12,400	11,800	12,400	13,500
Specified owner occupied [1]	31,891	39,470	43,535	8,674	11,906	14,911	8,043
With value of—							
Less than $20,000	19,739	4,777	2,409	362	731	1,218	96
$20,000–$24,999	4,674	2,494	1,486	261	503	637	85
$25,000–$34,999	4,436	5,511	4,207	693	1,468	1,840	206
$35,000–$49,999	2,045	8,496	8,703	1,740	2,846	3,377	740
$50,000–$99,999	996	14,382	19,464	4,272	5,385	6,068	3,739
$100,000 and over		3,810	7,269	1,344	975	1,772	3,176
Median—							
Value (dol.)	17,000	47,200	59,700	61,900	52,500	52,100	89,100
Real estate taxes [2] (dol.)	(NA)	460	564	1,100	635	270	572
Units monthly costs [3]—							
With mortgages (dol.)	(NA)	366	463	503	453	428	500
Owned clear (dol.)	(NA)	128	166	223	178	137	134
Specified renter occupied [4]	22,334	27,252	29,214	7,149	6,469	8,791	6,804
With gross rent of—							
Less than $80	5,466	1,080	646	114	150	302	80
$80–$99	3,701	651	551	116	109	201	125
$100–$119	3,332	818	1,707	448	395	580	285
$120–$149	3,772	1,678					
$150–$199	*3,304*	*4,219*	*2,364*	*545*	*637*	*805*	*376*
$200–$299	1,194	10,023	7,377	1,854	2,088	2,097	1,338
$300 and over	265	7,516	15,168	3,843	2,804	4,144	4,374
No cash rent	1,300	1,267	1,401	226	286	662	228
Median rent (dol.)	108	243	315	316	286	304	362

NA Not available. [1] Includes only 1-family homes on less than 10 acres and no business on the property. [2] Taxes paid previous year. [3] Covers real estate taxes, property insurance, utilities, fuel, water, garbage and trash collection, and mortgage. [4] Excludes 1-family homes on 10 acres or more.

Source: U.S. Bureau of the Census, *Census of Housing, 1970* and *1980*, vol. 1, and *Current Housing Reports*, H-150-83, Annual Housing Survey: 1983, parts A and C.

No. 1225. Heating Equipment and Fuels for Occupied Units: 1950 to 1983

ITEM	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1950	1960	1970	1980	1983	1950	1960	1970	1980	1983
Occupied units, total	**42,826**	**53,024**	**63,445**	**80,390**	**84,638**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Heating equipment:										
Warm air furnace	[1] 11,508	17,378	27,515	39,279	44,320	[1] 26.9	32.8	43.4	48.9	52.4
Heat pumps				2,835	2,171				3.5	2.6
Steam or hot water	10,071	11,990	13,211	13,859	13,772	23.5	22.6	20.8	17.2	16.3
Floor, wall, or pipeless furnace	(1)	6,088	5,552	4,693	5,977	(1)	11.5	8.8	5.8	7.1
Built-in electric units	–	664	3,236	6,370	6,207	–	1.3	5.1	7.9	7.3
Room heaters with flue	[2] 15,399	[2] 11,183	7,209	6,098	3,438	[2] 36.0	[2] 21.1	11.4	7.6	4.1
Room heaters without flue	5,268	5,218	3,558	2,736	2,926	12.3	9.8	5.6	3.4	3.5
Fireplaces, stoves, or heaters [3]	(2)	(2)	2,766	3,977	5,152	(2)	(2)	4.4	4.9	6.1
None	581	503	398	541	677	1.4	.9	.6	.7	.8
House heating fuel:										
Utility gas	11,387	22,851	35,014	42,658	46,700	26.6	43.1	55.2	53.1	55.2
Fuel oil, kerosene, etc	9,686	17,158	16,473	14,655	13,031	22.6	32.4	26.0	18.2	15.4
Electricity	283	933	4,876	14,768	15,684	.7	1.8	7.7	18.3	18.5
Bottled, tank, or LP gas	787	2,686	3,807	4,535	3,869	1.8	5.1	6.0	5.6	4.6
Wood and other fuel	4,855	2,460	1,060	2,729	4,245	11.3	4.6	1.7	3.4	5.0
Coal or coke	14,828	6,456	1,821	504	432	34.6	12.2	2.9	.6	.5
None	999	478	395	541	677	2.3	.9	.6	.7	.8
Cooking fuel:										
Electricity	6,403	16,351	25,768	41,906	(NA)	15.0	30.8	40.6	52.1	(NA)
Utility gas	22,084	27,296	31,244	32,375	(NA)	51.6	51.5	49.2	40.3	(NA)
Bottled, tank, or LP gas	3,417	6,491	5,314	5,569	(NA)	8.0	12.2	8.4	6.9	(NA)
Other fuel	10,796	2,603	908	398	(NA)	25.2	4.9	1.4	.5	(NA)
None	124	280	213	142	(NA)	.3	.5	.3	.2	(NA)

– Represents zero. [1] "Floor, wall, or pipeless furnace" included in "Warm air furnace." [2] "Fireplaces, stoves, or portable heaters" included in "Room heaters with flue." [3] Portable heaters.

Source: U.S. Bureau of the Census, *Census of Housing, 1960,* vol. 1, and *1980,* vol. 1; *Current Housing Reports,* series H-150-83, Annual Housing Survey: 1983, part A.

No. 1226. Occupied Housing Units—Primary Heating Fuel and Equipment, by Selected Characteristics: 1984

[**In millions.** As of **November.** Excludes Alaska and Hawaii. Covers year-round units only. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see fig. I, inside front cover]

CHARACTERISTIC	Total occupied housing units [1]	PRIMARY HEATING FUEL					PRIMARY HEATING EQUIPMENT				
		Natural gas	Fuel oil, kerosene	Electricity	LPG [2]	Wood	Warm air furnace with ducts	Steam or hot water system	Room heaters [3]	Floor, wall, or pipeless furnace	Built in electric units	Wood or coal stove
Total	**86.3**	**47.8**	**12.2**	**14.5**	**3.9**	**6.5**	**41.8**	**15.3**	**5.5**	**6.5**	**5.4**	**6.1**
Region:												
Northeast	18.2	7.2	8.2	1.4	.2	1.1	5.8	9.7	.3	.1	1.1	1.1
Midwest	21.6	16.4	1.1	1.3	1.3	1.4	14.5	3.7	.8	.6	.4	1.1
South	29.3	13.1	2.3	8.4	2.1	2.8	13.8	1.0	3.8	2.4	1.9	2.9
West	17.1	11.2	.4	3.4	.4	1.1	7.7	.8	.6	3.4	2.0	1.0
Type:												
Single-family detached	53.5	29.8	7.0	7.2	2.6	5.8	27.9	5.1	4.4	4.4	2.6	5.5
Single-family attached	4.1	2.5	.7	.7	–	–	2.3	1.1	.2	.1	.1	.1
2–4 unit building	10.0	7.0	1.7	1.0	–	.2	3.8	3.2	.6	1.1	.5	.1
5 or more unit building	13.6	7.1	2.2	4.2	–	–	4.1	5.8	.2	.7	1.9	–
Mobile home	5.1	1.4	.7	1.4	1.2	.4	3.7	–	.1	.2	.2	.4
Year house built:												
1980 or later	5.0	2.1	.2	2.0	.2	.4	3.1	.6	–	.1	.5	.7
1975 to 1979	10.1	3.9	.6	4.1	.4	.7	5.2	1.3	.1	.1	1.3	.7
1970 to 1974	10.7	5.1	.6	3.2	.7	.9	6.2	1.1	.1	.4	1.2	.8
1965 to 1969	8.2	4.7	.7	1.7	.3	.7	4.4	1.1	.2	.6	.9	.7
1960 to 1964	7.5	4.3	1.1	1.0	.4	.6	4.1	1.0	.2	.7	.5	.5
1950 to 1959	12.6	8.3	1.9	1.1	.4	.7	6.5	1.7	.9	1.6	.3	.7
1940 to 1949	7.0	4.4	1.1	.7	.2	.5	2.9	1.4	.6	1.1	.2	.4
1939 or earlier	25.2	15.0	5.6	1.0	1.2	2.0	9.4	7.2	3.3	2.0	.5	2.0

– Represents zero or rounds to zero. [1] Includes types of fuel and equipment not shown separately. [2] Liquid petroleum gas. [3] With or without flue.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristic, 1984,* August 1986.

No. 1227. Appliances Used by Households, by Region and Family Income: 1984

[**In millions, except percent.** As of **November.** Represents appliances possessed and generally used by the household. See headnote, table 1226. For composition of regions, see fig. I, inside front cover]

Type of appliance	Households using appliance		Region				Family income in 1984			
	Number	Percent of total	Northeast	Midwest	South	West	Under $15,000	$15,000–$24,999	$25,000–$34,999	$35,000 and over
Total households	**86.3**	**100.0**	**18.3**	**21.6**	**29.3**	**17.1**	**35.0**	**17.4**	**15.3**	**18.7**
Air conditioners: Room [1]	26.8	31.0	7.5	7.2	9.3	2.8	10.7	6.0	5.2	4.9
Central system	24.6	28.5	1.8	5.8	13.3	3.7	6.6	4.4	5.1	8.4
Clothes washer	63.1	73.1	13.4	15.8	22.0	12.0	21.0	12.5	12.4	17.2
Clothes dryer	53.1	61.5	10.7	14.2	17.8	10.5	14.7	10.6	11.6	16.3
Dehumidifier	7.5	8.7	2.8	3.6	1.1	(S)	.9	1.5	2.1	2.9
Dishwasher	32.5	37.6	6.4	6.6	11.5	7.9	6.1	5.7	7.5	13.2
Evaporative cooler [2]	3.2	3.8	(S)	(S)	.5	2.6	1.3	.6	.6	.6
Freezer	31.7	36.7	5.3	9.2	11.7	5.6	10.5	5.9	6.2	9.1
Humidifier	11.3	13.1	2.8	6.2	1.6	.8	2.5	2.0	2.6	4.3
Microwave oven [3]	29.6	34.3	4.0	8.6	10.1	7.0	5.9	5.9	7.4	10.4
Motor vehicles: [4] One	30.7	35.6	6.8	7.7	10.0	6.2	17.0	7.3	3.9	2.5
Two or more	44.6	51.7	7.9	11.2	15.9	9.5	8.8	9.1	10.9	15.8
Outdoor gas grill	11.5	13.4	3.6	2.6	3.5	1.8	1.5	1.7	2.8	5.5
Outdoor gas light	1.2	1.4	.2	.5	.5	(S)	(S)	.2	.2	.4
Oven: Electric	42.4	49.1	7.2	10.0	15.8	9.4	14.4	8.5	8.2	11.2
Gas	35.9	41.5	9.7	9.8	9.7	6.7	16.5	7.4	5.9	6.1
Portable electric heater	8.9	10.3	1.4	1.5	3.7	2.3	3.6	1.7	1.9	1.6
Portable kerosene heater	5.3	6.1	1.3	1.2	2.5	.2	1.7	1.3	1.0	1.4
Range: Electric	46.5	53.9	7.7	11.2	18.2	9.4	16.2	9.2	9.0	12.1
Gas	39.0	45.2	10.4	10.2	10.9	7.6	18.3	8.1	6.1	6.7
Refrigerator: Frost-free	53.9	62.4	9.5	12.8	19.8	11.8	17.1	10.6	10.8	15.3
Non frost-free [5]	32.2	37.3	8.7	8.8	9.5	5.2	17.6	6.7	4.5	3.4
Television set: Color	75.9	88.0	16.3	19.3	25.1	15.2	27.7	15.6	14.4	18.2
Black and white	37.3	43.2	9.0	9.0	13.3	6.0	14.6	7.1	6.7	8.8
Water heater: [6] Gas	41.3	47.8	7.0	12.5	11.8	10.0	14.8	8.1	8.0	10.5
Electric	27.9	32.3	3.9	4.8	15.0	4.3	11.4	5.8	4.7	6.0
Other fuel	2.8	3.2	2.6	(S)	.2	(S)	.7	.5	.6	.7
Whole house cooling fan	6.7	7.8	1.3	1.7	3.1	.7	1.2	1.3	1.7	2.5
Window or ceiling fan	30.6	35.5	6.0	7.9	13.8	3.0	11.2	6.5	6.1	6.9

S Figure does not meet publication standards. [1] Includes small amount of households that have both central air conditioners and room units. [2] An air-cooling unit used in dry climates that turns air into moist, cool air by saturating the air with water vapor. [3] Microwave is first or second most used oven. [4] All motorized vehicles used by U.S. households for personal transportation excluding motorcycles, mopeds, large trucks, and buses. [5] Includes refrigerators without freezer compartments. [6] Excludes water heaters that serve more than one household.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristics, 1984*, October 1986.

No. 1228. Housing Units—Characteristics, by Square Footage of Floor Space: 1980 to 1984

[See headnote, table 1226. For composition of regions, see fig. I, inside front cover]

Characteristic	Average number of square feet per household				Households by measured heated square footage of residence (mil.)				
	Total		Heated		Total	Less than 1,000	1,000 to 1,599	1,600 to 2,399	2,400 and over
	Mean	Median	Mean	Median					
1980, total	1,745	1,488	1,499	1,260	81.6	28.6	24.0	17.8	11.3
1981, total	1,734	1,452	1,482	1,247	83.1	29.0	25.2	18.0	11.0
1982, total	1,698	1,463	1,449	1,222	83.8	30.3	25.1	17.7	10.6
1984, total	**1,672**	**1,434**	**1,440**	**1,225**	**86.3**	**31.8**	**24.9**	**18.9**	**10.7**
Northeast	1,914	1,862	1,601	1,407	18.3	6.1	4.2	4.8	3.1
Midwest	1,811	1,646	1,561	1,322	21.6	7.8	4.9	5.2	3.8
South	1,518	1,290	1,337	1,174	29.3	11.0	10.0	6.0	2.3
West	1,503	1,280	1,289	1,113	17.1	7.0	5.8	3.0	1.4
Single family detached	2,049	1,904	1,716	1,547	53.5	10.3	17.6	16.0	9.6
Single family attached	1,890	1,819	1,643	1,550	4.1	.8	1.3	1.4	.5
2–4 unit building	1,159	991	1,067	900	10.1	5.8	2.8	1.0	.5
5 or more unit building	816	743	801	736	13.6	10.8	2.2	.5	.1
Mobile home	837	780	819	768	5.1	4.0	1.1	–	–
Year house built:									
1980 or later	1,543	1,300	1,353	1,206	5.0	1.9	1.5	1.1	.4
1975–1979	1,709	1,500	1,472	1,317	10.1	3.8	2.5	2.5	1.4
1970–1974	1,562	1,184	1,376	1,100	10.7	4.8	2.8	2.1	1.2
1965–1969	1,621	1,326	1,431	1,175	8.2	3.1	2.6	1.5	1.1
1960–1964	1,654	1,368	1,456	1,231	7.5	2.6	2.5	1.5	.9
1950–1959	1,696	1,529	1,451	1,243	12.6	4.2	3.9	3.1	1.3
1940–1949	1,596	1,400	1,387	1,224	7.0	2.6	2.1	1.5	.8
1939 or earlier	1,761	1,584	1,478	1,258	25.2	9.0	7.0	5.7	3.5

– Represents zero or rounds to zero.

Source: U.S. Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristics, 1984*, October 986, and earlier issues.

No. 1229. Expenditures by Residential Property Owners for Improvements and Maintenance and Repairs by Type of Property and Activity: 1970 to 1986

[In millions of dollars]

Year and type of expenditure	Total	1-unit properties with owner occupant	Other properties	Additions and alterations				Major replacements	Maintenance and repairs
				Total	To structures		To property outside of structures		
					Additions	Alterations			
1970	14,770	9,469	5,301	6,246	1,411	3,539	1,296	2,629	5,895
1975	25,239	15,684	9,556	10,997	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	5,699	11,344
1978	37,461	24,189	13,272	16,458	3,713	8,443	4,302	8,094	12,909
1979	42,231	28,280	13,951	18,285	3,280	9,642	5,363	8,996	14,950
1980	46,338	31,481	14,857	21,336	4,183	11,193	5,960	9,816	15,187
1981	46,351	30,201	16,150	20,414	3,164	11,947	5,303	9,915	16,022
1982	45,291	29,779	15,512	18,774	2,641	10,711	5,423	9,707	16,810
1983	49,295	32,524	16,771	20,271	4,739	11,673	3,859	10,895	18,128
1984, total [1]	**69,784**	**43,781**	**26,003**	**27,822**	**6,007**	**14,486**	**7,329**	**13,067**	**28,894**
Heating and air-conditioning [2]	5,071	2,768	2,303	959	(NA)	959	(NA)	2,391	1,721
Plumbing	6,919	3,346	3,573	1,201	(NA)	1,201	(NA)	2,408	3,310
Roofing	5,140	2,573	2,568	(NA)	(NA)	(NA)	(NA)	3,126	2,014
Painting	8,817	4,998	3,819	(NA)	(NA)	(NA)	(NA)	(NA)	8,817
1985, total [1]	**80,267**	**47,742**	**32,525**	**28,775**	**3,966**	**17,599**	**7,211**	**16,134**	**35,358**
Heating and air-conditioning [2]	5,096	3,287	1,809	1,121	(NA)	1,121	(NA)	2,322	1,653
Plumbing	8,120	4,029	4,091	1,502	(NA)	1,502	(NA)	3,115	3,503
Roofing	7,497	4,428	3,069	(NA)	(NA)	(NA)	(NA)	5,086	2,411
Painting	11,267	5,810	5,457	(NA)	(NA)	(NA)	(NA)	(NA)	11,267
1986, total [1]	**91,274**	**54,298**	**36,976**	**38,608**	**7,377**	**21,192**	**10,040**	**16,695**	**35,971**
Heating and air-conditioning [2]	6,232	3,993	2,239	974	(NA)	974	(NA)	3,399	1,860
Plumbing	8,461	3,791	4,670	1,484	(NA)	1,484	(NA)	3,408	3,569
Roofing	7,685	3,834	3,851	(NA)	(NA)	(NA)	(NA)	4,552	3,133
Painting	11,170	5,673	5,497	(NA)	(NA)	(NA)	(NA)	(NA)	11,170

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

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

No. 1230. Vacancy Rates for Housing Units—Characteristics: 1981 to 1986

[**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. I, inside front cover. See also *Historical Statistics, Colonial Times to 1970*, series N 249-258]

Rental units	1981	1982	1983	1984	1985	1986
Total rental units	**5.0**	**5.3**	**5.7**	**5.9**	**6.5**	**7.3**
Inside SMSAs	4.8	5.0	5.5	5.7	6.3	7.2
Outside SMSAs	5.7	6.2	6.3	6.4	7.1	8.2
Northeast	3.7	3.7	4.0	3.7	3.5	3.9
Midwest	5.9	6.3	6.1	5.9	5.9	6.9
South	5.4	5.8	6.9	7.9	9.1	10.1
West	5.1	5.4	5.2	5.2	6.2	7.1
Units in structure:						
1 unit	3.3	3.6	3.7	3.8	3.8	3.9
2 or more	6.0	6.2	6.7	7.0	7.9	9.2
5 or more	6.4	6.5	7.1	7.5	8.8	10.4
Units with:						
3 rooms or less	6.9	7.2	7.2	7.5	8.8	10.2
4 rooms	4.8	5.0	5.7	6.3	6.9	8.0
5 rooms	3.8	4.0	4.4	4.6	5.0	5.3
6 rooms or more	3.2	3.5	3.7	3.5	3.2	3.3
Monthly rent:						
Less than $99	3.0	3.4	2.5	2.7	3.5	2.8
$100 or more	5.2	5.4	5.7	5.9	6.6	7.7
Year built:						
1960 or later	5.1	5.3	5.9	6.6	7.9	9.5
1965 or later	5.3	5.6	6.2			
1940–1959	4.9	5.2	5.4	5.6	6.2	6.9
1939 or earlier	5.2	5.5	5.6	5.3	*5.0*	*5.0*
Plumbing:						
With all facilities	4.8	5.1	5.5	5.7	6.3	7.2
Lacking facilities	12.3	12.2	11.8	13.6	13.8	14.5

Homeowner units	1981	1982	1983	1984	1985	1986
Total homeowner units	**1.4**	**1.5**	**1.5**	**1.7**	**1.7**	**1.6**
Inside SMSAs	1.4	1.5	1.6	1.6	1.7	1.5
Outside SMSAs	1.3	1.5	1.5	1.8	1.9	1.8
Northeast	1.1	1.0	1.0	.8	1.0	1.0
Midwest	1.4	1.6	1.5	1.6	1.6	1.5
South	1.3	1.6	1.8	2.0	2.1	2.1
West	1.7	1.9	1.8	2.0	2.1	1.6
Units in structure:						
1 unit	1.1	1.2	1.3	1.4	1.4	1.3
2 or more	5.4	6.1	5.2	6.1	6.6	5.6
5 or more	10.8	12.2	8.8	10.6	10.1	8.3
Units with:						
3 rooms or less	3.5	3.9	3.3	4.8	5.8	5.2
4 rooms	*2.0*	*2.4*	*2.4*	*2.6*	*2.3*	*2.3*
5 rooms	1.4	1.4	1.4	1.6	2.0	1.7
6 rooms or more	1.1	1.2	1.3	1.4	1.4	1.3
Value:						
Less than $19,999	1.8	2.3	2.3	2.5	2.5	2.6
$20,000 or more	1.1	1.2	1.2	1.3	1.3	1.2
Year built:						
1960 or later	1.6	1.8	1.8	2.0	2.0	1.8
1965 or later	1.8	2.1	1.9			
1950–1959	.8	.9	1.1	1.2	1.2	1.2
1939 or earlier	1.6	1.6	1.7	1.7	1.8	1.8
Plumbing:						
With all facilities	1.4	1.5	1.5	1.6	1.7	1.6
Lacking facilities	3.3	3.9	3.6	5.3	7.5	6.0

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

No. 1231. Recent Home Buyers—General Characteristics and Downpayments: 1976 to 1986

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

ITEM	Unit	1976	1979	1980	1981	1982	1983	1984	1985	1986
Median price of house purchased	Dollars	43,340	58,100	68,714	78,220	82,500	90,000	89,400	90,400	93,680
First-time buyers	Dollars	37,670	50,800	61,450	63,180	58,900	73,100	81,500	75,100	74,700
Repeat buyers [1]	Dollars	50,090	64,600	75,750	82,220	98,300	101,800	100,400	106,200	114,860
Average monthly mortgage payment	Dollars	329	449	599	694	732	794	868	896	852
Percent of income	Percent	24.0	28.2	32.4	35.5	33.0	32.5	30.3	30.0	28.6
Percent buying—										
New houses	Percent	15.1	17.8	22.4	25.2	23.2	26.4	22.3	23.8	25.7
Existing houses	Percent	84.9	82.2	77.6	74.8	76.8	73.6	77.7	76.2	74.3
Single-family houses	Percent	88.8	87.5	82.4	78.3	76.6	87.8	89.9	87.0	85.1
Multiple-family houses	Percent	4.8	5.3	5.5	6.9	6.5	4.6	2.5	4.2	5.2
Condominiums	Percent	6.4	6.8	12.1	13.4	16.9	7.6	7.6	6.4	9.0
For the first time	Percent	44.8	36.6	32.9	39.4	40.6	40.5	37.7	36.6	35.5
Average age of first-time buyers	Years	28.1	28.4	28.3	28.4	28.6	28.9	29.1	28.4	30.9
Average age of repeat buyers [1]	Years	35.9	34.7	36.4	36.4	37.1	37.3	37.8	38.4	39.5
Downpayment to sales price	Percent	25.2	24.9	28.0	24.1	22.4	22.9	20.9	24.8	23.4
First-time buyers	Percent	18.0	17.6	20.5	19.4	15.1	15.7	13.2	11.4	13.4
Repeat buyers [1]	Percent	30.8	29.0	32.7	27.1	27.3	27.8	25.6	32.7	28.9

[1] Buyers who previously owned a home.

Source: Chicago Title Insurance Company, Chicago, IL, *The Guarantor*, bimonthly. (Copyright.)

No. 1232. Volume of Long-Term Mortgage Loans Originated, by Type of Property, 1970 to 1986, and by Lender, 1986

[In billions of dollars. Covers credit extended in primary mortgage markets for financing real estate acquisitions]

TYPE OF PROPERTY	1970	1975	1980	1982	1983	1984	1985	1986, BY LENDER					
								Total [1]	Savings and loan	Commercial banks	Mortgage companies	Fed. credit agencies	Mutual savings
Loans, total	**59.8**	**120.7**	**197.2**	**153.9**	**295.6**	**319.2**	**383.3**	**658.7**	**218.3**	**201.2**	**142.9**	**8.2**	**39.1**
1–4 unit family home	35.6	77.9	133.7	97.0	201.9	203.7	243.0	454.0	176.1	107.6	131.8	2.7	31.1
New units	12.6	24.6	49.1	30.6	47.4	53.7	53.6	82.7	24.7	16.5	35.0	1.1	4.1
Existing units	23.0	53.3	84.6	66.4	154.5	150.0	189.4	371.3	151.4	91.1	96.6	1.6	27.0
Multifamily residential	8.8	10.7	12.5	11.4	21.4	27.6	31.9	49.5	19.9	6.8	7.2	1.7	2.9
New units	7.0	5.8	8.6	6.1	8.8	11.1	10.6	15.1	2.9	1.8	–	1.4	3.1
Existing units	1.8	4.9	3.9	5.3	12.6	16.5	21.3	34.4	17.0	5.0	7.2	.3	2.6
Non-residential	12.5	24.2	35.9	34.3	62.4	77.3	99.4	145.4	22.2	82.0	4.1	.5	5.1
Farm properties	3.0	7.9	15.0	11.2	9.9	10.5	9.0	9.8	.2	4.9	–	3.3	–

– Represents zero. [1] Includes life insurance companies and other lenders not shown separately.

Source: U.S. Dept. of Housing and Urban Development, *Survey of Mortgage Lending Activity, 1970–1979,* and monthly and quarterly press releases based on the Survey of Mortgage Lending Activity.

No. 1233. Characteristics of Conventional First Mortgage Loans for Purchase of Single-Family Homes: 1970 to 1986

[Annual averages, except as indicated. Refers to loans originated directly (rather than through correspondents) by savings and loan associations, mortgage companies, commercial banks, or mutual savings banks]

LOAN CHARACTERISTIC	Unit	1970	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
NEW HOMES														
Contract interest rate	Percent	8.3	8.8	8.8	8.8	9.3	10.5	12.3	14.1	14.5	12.1	11.9	11.1	9.7
Initial fees, charges [1]	*Percent*	1.03	1.53	1.42	1.32	1.39	1.66	2.09	2.68	2.96	2.39	2.66	2.52	2.50
Term to maturity	Years	25.1	27.0	27.3	27.9	28.0	28.5	28.1	27.7	27.5	26.7	27.8	27.0	26.8
Loan to price ratio	Percent	71.7	76.2	75.7	76.3	75.2	73.8	73.2	74.8	76.6	77.3	78.6	77.1	75.3
Purchase price	$1,000	35.5	44.7	49.1	54.4	62.8	74.4	83.2	90.3	94.1	93.9	96.8	105.0	119.8
EXISTING HOMES														
Contract interest rate	Percent	8.2	9.0	8.9	8.8	9.4	10.6	12.5	14.5	14.8	12.3	12.0	11.2	9.8
Initial fees, charges [1]	Percent	.92	1.16	1.14	1.17	1.26	1.44	1.91	2.27	2.55	2.40	2.54	2.50	2.13
Term to maturity	Years	22.6	24.2	24.6	25.8	26.4	27.1	26.9	25.9	24.9	25.9	26.5	25.5	25.4
Loan to price ratio	Percent	71.1	73.5	73.8	75.1	75.0	74.0	73.5	72.9	71.9	74.3	76.8	75.7	73.9
Purchase price	$1,000	30.0	39.2	42.0	47.6	54.5	64.8	68.3	68.5	70.7	79.3	82.2	92.7	108.5

[1] Rate applies to any general or specific charges paid by borrower or seller, in order to obtain a loan, except those for mortgage, credit, life, or property insurance; for property transfer; and for title search and insurance.

Source: U.S. Federal Home Loan Bank Board, *Savings and Home Financing Source Book,* annual, and monthly news releases.

No. 1234. Low-Income Public Housing Units, by Progress Stage: 1960 to 1986

[**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	Occupied units [1]	Under construction	Other [2]	YEAR	Total	Occupied units [1]	Under construction	Other [2]
1960	**593.3**	**478.2**	**36.4**	**78.8**	**1982**	**1,432.2**	**1,231.4**	**66.7**	**134.1**
Elderly	18.9	1.1	4.1	13.7	Elderly	392.0	328.4	27.7	35.9
1970	**1,155.3**	**893.5**	**126.8**	**135.0**	**1983**	**1,483.3**	**1,262.5**	**86.7**	**134.1**
Elderly	249.4	143.4	65.7	40.3	Elderly	410.0	338.4	35.7	35.9
1975	**1,316.7**	**1,180.4**	**52.9**	**83.4**	**1984**	**1,368.7**	**1,312.9**	**24.0**	**31.8**
Elderly	336.3	288.3	24.3	23.7	Elderly	373.0	351.4	9.4	12.2
1980	**1,321.1**	**1,195.6**	**20.9**	**104.6**	**1985**	**1,378.0**	**1,344.6**	**9.6**	**19.5**
Elderly	358.3	317.7	11.5	29.1	Elderly	373.5	361.1	2.1	10.3
1981	**1,404.0**	**1,229.3**	**51.5**	**123.2**	**1986**	**1,392.3**	**1,351.8**	**1.8**	**38.7**
Elderly	385.4	327.7	21.8	35.9	Elderly	367.8	359.6	3.6	5.6

[1] Under management or available for occupancy. [2] To be constructed or to go directly "under management" because no rehabilitation needed.

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

No. 1235. Residential Loans Underwritten by FHA: 1970 to 1986

[**In millions of dollars.** Figures are gross amount of insurance written; do not take account of principal repayments on previously insured loans. See also *Historical Statistics, Colonial Times to 1970,* series N 291–297]

LOAN	1970	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986
FHA-insured loans	**11,982**	**7,941**	**16,098**	**22,848**	**22,301**	**14,976**	**14,105**	**31,651**	**17,749**	**28,378**	**61,758**
Home mortgages: New properties	2,667	1,148	1,881	3,409	4,071	3,177	2,444	4,209	3,704	3,999	7,129
Existing properties	5,447	5,017	9,259	14,758	12,387	7,102	5,643	22,363	10,821	19,965	49,772
Project type mortgages	3,251	976	3,270	2,719	4,197	3,024	4,464	3,227	1,867	3,219	3,708
Property improvement loans [1]	*617*	*799*	*1,688*	*1,962*	*1,646*	*1,674*	*1,554*	*1,852*	*1,357*	*1,195*	*1,149*

[1] Not ordinarily secured by mortgages. Includes mobile home loans.

Source: U.S. Dept. of Housing and Urban Development, 1970–1979, *HUD Statistical Yearbook;* thereafter, unpublished data.

No. 1236. Office Buildings—Vacancy Rates, 1980 to 1987, and Status of Supply, 1987, by Major City

[**As of December;** except **1987, as of June.** Excludes government owned and occupied, owner-occupied, and medical office buildings]

CITY	VACANCY RATE FOR EXISTING SPACE (percent)								SUPPLY STATUS, 1987 (mil. sq. ft.)			
									Existing space		Space under construction	
	1980	1981	1982	1983	1984	1985	1986	1987	Total	Available for lease	Total	Available for lease
Total [1]	**4.6**	**5.4**	**11.0**	**13.5**	**15.5**	**16.9**	**18.6**	**19.3**	**1,667.4**	**321.3**	**117.1**	**83.6**
Atlanta, GA	10.0	13.6	16.8	13.7	14.5	21.0	20.1	21.3	67.8	14.4	6.1	4.6
Baltimore, MD	7.2	3.2	5.9	6.4	11.9	11.5	15.9	19.4	22.5	4.4	2.7	1.6
Boston, MA	3.8	4.7	7.8	4.4	8.9	13.1	13.0	12.9	92.6	11.9	7.0	5.6
Charlotte, NC	(NA)	(NA)	(NA)	(NA)	16.7	16.7	15.5	15.1	14.2	2.1	1.7	.9
Chicago, IL	7.0	6.4	6.9	12.6	14.8	16.5	19.6	18.2	165.2	30.0	13.3	9.7
Cleveland, OH	9.7	(NA)	6.7	17.1	14.7	18.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Dallas, TX	8.6	8.4	18.6	21.5	18.7	23.0	30.9	30.1	112.7	34.0	6.0	2.6
Denver, CO	6.6	4.1	22.6	24.1	20.6	24.7	25.1	25.3	66.0	16.7	1.1	.9
Fort Worth, TX	(NA)	(NA)	(NA)	(NA)	24.1	22.5	24.7	26.2	20.0	5.2	1.8	.5
Hartford, CT	6.7	7.8	7.3	18.5	17.4	15.3	12.9	12.1	17.7	2.1	1.9	1.5
Houston, TX	4.0	7.6	20.3	26.9	25.0	27.6	30.6	32.0	148.3	47.5	.5	.3
Kansas City, MO	4.2	6.7	12.4	15.7	18.6	16.2	18.2	20.0	28.8	5.8	1.6	.6
Los Angeles, CA	.9	5.5	12.3	14.0	20.4	15.3	13.2	14.8	151.2	22.4	13.8	11.7
Miami, FL	2.4	5.0	6.3	14.0	18.2	20.9	25.2	27.0	27.2	7.3	.7	.3
New Orleans, LA	(NA)	3.7	7.4	19.0	22.4	21.8	25.5	24.8	22.7	5.6	.4	.4
New York, NY [2]	3.1	3.6	4.9	5.0	6.8	7.9	8.9	11.3	217.0	24.5	9.2	5.9
Philadelphia, PA	6.3	5.7	12.8	9.6	9.0	14.5	15.5	16.5	51.8	8.5	5.7	3.7
Pittsburgh, PA	1.2	2.8	7.1	7.8	14.2	(NA)	12.0	15.0	34.8	5.2	2.7	1.6
San Diego, CA	(NA)	(NA)	25.3	22.9	21.8	24.7	25.4	24.4	26.2	6.4	1.9	1.4
San Francisco, CA	.4	4.2	7.3	11.3	9.0	13.7	16.6	14.5	49.9	7.2	3.1	2.3
Stamford, CT	(NA)	(NA)	(NA)	(NA)	18.9	15.6	21.4	27.3	28.5	7.8	2.5	2.0
Tampa, FL	(NA)	(NA)	(NA)	(NA)	23.9	23.9	24.1	22.0	23.8	5.2	2.0	1.2
Washington, DC	2.5	1.7	6.3	7.2	9.6	9.0	13.6	13.8	125.3	17.2	18.1	14.9
White Plains, NY	(NA)	(NA)	(NA)	(NA)	23.2	23.7	22.7	22.0	24.0	5.3	.5	.5

NA Not available. [1] Includes other cities not shown separately. In 1987, 32 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. 1237. COMMERCIAL BUILDINGS—SELECTED CHARACTERISTICS, BY SQUARE FOOTAGE OF FLOORSPACE: 1983

[Excludes Alaska and Hawaii. Building type based on predominant activity in which the occupants were engaged. Excludes industrial buildings. Based on a sample survey building representatives conducted between March and August 1983; therefore, subject to sampling variability. For data on energy consumption and expenditures in commercial buildings, see tables 916 and 917. For composition of regions, see fig. I, inside front cover]

CHARACTERISTIC	Number of buildings (1,000)	FLOORSPACE (mil. sq. ft.)							Average 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	**3,948**	**52,325**	**4,908**	**5,246**	**8,912**	**7,692**	**7,168**	**18,399**	**13.3**	**4.0**
Region:										
Northeast	670	11,615	784	939	1,960	1,915	1,754	4,264	17.3	5.7
Midwest	1,211	16,059	1,526	1,685	2,616	2,334	2,146	5,750	13.3	4.0
South	1,493	17,049	1,971	1,685	2,923	2,176	2,199	6,094	11.4	3.3
West	574	7,602	627	937	1,412	1,267	1,068	(s)	13.2	4.7
Year constructed:										
1980 to 1983	140	5,675	127	163	523	479	794	3,590	40.5	9.9
1974 to 1979	530	6,616	688	635	1,298	1,029	848	2,118	12.5	4.1
1971 to 1973	209	3,442	249	320	496	654	556	1,168	16.4	5.1
1961 to 1970	721	9,947	881	860	1,417	1,371	1,533	3,885	13.8	3.4
1946 to 1960	946	9,612	1,187	1,279	1,699	964	1,265	3,219	10.2	3.1
1921 to 1945	726	8,639	855	950	1,663	1,656	949	2,566	11.9	3.8
1901 to 1920	388	5,453	514	600	1,049	1,010	942	1,337	14.1	5.1
1900 or before	288	2,940	406	440	767	530	281	(s)	10.2	4.8
Principal activity within building:										
Assembly	457	5,483	485	901	1,390	912	621	(s)	12.0	5.9
Educational	177	6,044	113	182	560	1,322	1,619	2,248	34.2	18.1
Food sales/service	380	2,051	636	343	568	209	179	(s)	5.4	2.8
Health care	61	2,277	80	(s)	(s)	(s)	(s)	1,761	37.6	4.7
Lodging	106	2,241	95	166	310	495	316	856	21.1	6.8
Mercantile/services	1,071	10,427	1,433	1,562	2,013	1,065	1,089	(s)	9.7	3.5
Office	575	8,454	749	803	1,236	976	933	3,757	14.7	4.1
Residential	236	2,454	325	265	748	432	(s)	(s)	10.4	4.4
Warehouse	425	6,791	448	446	1,202	1,203	1,198	2,293	16.0	4.8
Other	179	2,760	176	186	405	350	214	1,429	15.4	3.4
Vacant	261	3,342	368	314	410	582	614	1,054	11.9	3.3
Number of establishments in building:										
None	142	1,475	218	(s)	137	187	342	300	10.4	3.1
Single establishment	3,160	35,227	4,077	3,870	6,563	5,710	5,031	9,975	11.1	3.6
Multi-establishment	645	15,623	613	1,202	2,212	1,795	1,794	8,007	24.2	7.5
Government occupancy:										
Government occupied	346	10,099	327	378	959	1,356	1,551	5,529	29.2	7.2
Not Government occupied	3,602	42,225	4,580	4,868	7,953	6,336	5,616	12,871	11.7	3.9
Fuels used alone or in combination:										
Electricity	3,783	51,359	4,701	5,079	8,810	7,491	6,973	18,305	13.6	4.1
Natural gas	2,314	37,090	2,732	3,522	6,081	5,484	4,930	14,342	16.0	5.0
Fuel oil	633	13,313	743	886	1,656	1,425	1,509	7,093	21.0	5.1
Propane	260	3,007	380	285	515	328	209	1,290	11.6	3.5
Purchased steam	60	4,594	(s)	(s)	235	448	645	3,173	76.2	29.2
Other	245	3,997	345	260	497	337	535	2,024	16.3	3.6

S Figure does not meet publication standards.

Source: U.S. Energy Information Administration, *Characteristics of Commercial Buildings, 1983.*

No. 1238. Commercial Buildings and Workers—Selected Building Characteristics, by Floorspace: 1983

[See headnote, table 1237]

Building characteristics	Number of buildings (1,000)							Workers		
		Square footage of—								
	Total	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	Number (1,000)	Average sq. ft. per worker	Median sq. ft. per worker
All buildings	**3,948**	**2,248**	**725**	**567**	**222**	**107**	**79**	**77,673**	**674**	**714**
Region:										
Northeast	670	306	131	130	58	27	18	16,633	698	849
Midwest	1,211	688	234	163	68	31	27	22,659	709	731
South	1,493	955	236	185	60	32	24	26,347	647	677
West	574	299	124	89	37	17	9	12,034	632	604
Principal activity within building:										
Assembly	457	209	122	86	27	9	4	5,998	914	1,087
Educational	177	45	24	33	37	24	14	6,131	986	971
Food sales/service	380	287	49	35	6	3	(s)	5,670	362	380
Health care	61	31	(s)	(s)	(s)	(s)	7	5,512	413	397
Lodging	106	42	23	19	14	5	3	2,373	944	1,176
Mercantile/services	1,071	666	217	131	30	17	10	13,914	749	735
Office	575	328	109	81	27	14	15	26,174	323	364
Residential	236	131	37	48	13	(s)	(s)	1,371	1,790	1,295
Warehouse	425	221	64	75	36	18	11	5,386	1,261	1,253
Other	179	111	24	25	10	3	5	3,624	762	604
Vacant	281	177	43	29	17	9	5	1,520	2,199	(x)
Government occupancy:										
Government occupied	346	153	51	61	39	23	19	17,149	589	544
Non-government occupied	3,602	2,095	674	507	183	84	59	60,524	698	731

S Figure does not meet publication standards. X Not applicable.

Source: U.S. Energy Information Administration, *Characteristics of Commercial Buildings, 1983.*

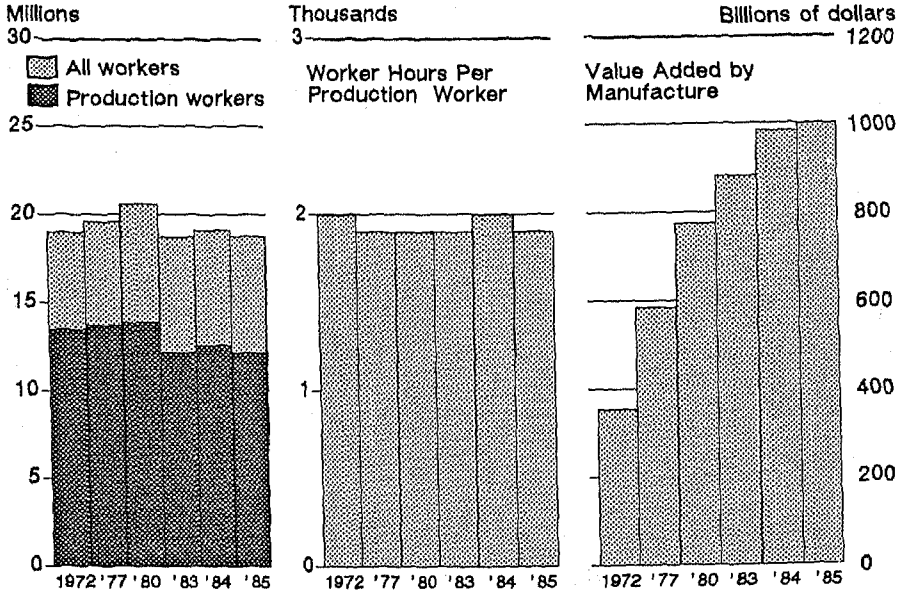
No. 1239. Commercial Buildings—Number and Square Footage of Floorspace, by Type of Building and Characteristic: 1983

Building characteristics	All buildings	Assembly	Educational	Food sales/service	Health care	Lodging	Mercantile/services	Office	Residential	Warehouse	Other [1]
NUMBER (1,000)											
All buildings	**3,948**	**457**	**177**	**380**	**61**	**106**	**1,071**	**575**	**236**	**425**	**460**
Region:											
Northeast	670	61	28	58	11	13	183	97	97	57	66
Midwest	1,211	149	39	120	21	12	353	176	78	131	130
South	1,493	202	79	145	20	57	383	191	44	170	201
West	574	45	31	57	(s)	24	151	112	16	68	63
Year constructed:											
1900 or before	288	51	(s)	24	(s)	(s)	71	35	54	20	(s)
1901 to 1920	388	66	11	43	(s)	(s)	95	41	45	41	(s)
1921 to 1945	726	69	24	55	8	15	194	107	69	80	104
1946 to 1960	946	102	58	78	19	35	311	97	38	98	110
1961 to 1970	721	87	45	76	10	27	187	121	(s)	81	72
1971 to 1973	209	19	6	23	(s)	12	52	45	(s)	22	(s)
1974 to 1979	530	50	20	70	12	7	139	100	(s)	65	57
1980 to 1983	140	14	10	12	3	3	21	28	(s)	18	30
Government occupancy:											
Government occupied	346	46	57	(s)	13	(s)	32	79	(s)	20	83
Non-government occupied	3,602	411	120	372	47	101	1,039	496	233	405	376
FLOORSPACE (mil. sq. ft.)											
All buildings	**52,325**	**5,483**	**6,044**	**2,051**	**2,277**	**2,241**	**10,427**	**8,454**	**2,454**	**6,791**	**6,102**
Region:											
Northeast	11,615	1,053	1,374	392	502	422	2,040	1,774	1,336	1,224	1,498
Midwest	16,059	1,755	1,834	724	1,015	669	3,219	2,178	717	2,130	1,818
South	17,049	1,835	2,082	616	567	803	3,843	2,903	299	2,288	1,813
West	7,602	(s)	754	320	193	346	1,325	1,599	103	1,149	973
Year constructed:											
1900 or before	2,940	373	(s)	129	(s)	(s)	488	429	609	315	263
1901 to 1920	5,453	791	435	249	(s)	(s)	882	715	517	915	394
1921 to 1945	8,639	799	1,084	206	215	523	1,345	1,388	721	1,096	1,263
1946 to 1960	9,612	1,142	1,623	368	751	301	2,120	966	278	1,348	716
1961 to 1970	9,947	896	1,494	390	346	647	1,979	1,773	(s)	1,406	832
1971 to 1973	3,442	318	357	163	(s)	255	736	625	(s)	363	(s)
1974 to 1979	6,616	654	674	376	505	213	1,485	1,370	(s)	797	509
1980 to 1983	5,675	(s)	274	171	130	154	(s)	1,189	(s)	552	1,255
Government occupancy:											
Government occupied	10,099	651	2,625	(s)	552	258	(s)	2,197	(s)	373	1,682
Non-government occupied	42,225	4,831	3,419	1,913	1,725	1,983	8,859	6,257	2,400	6,418	4,420

S Figure does not meet publication standards. [1] Includes vacant commercial buildings.

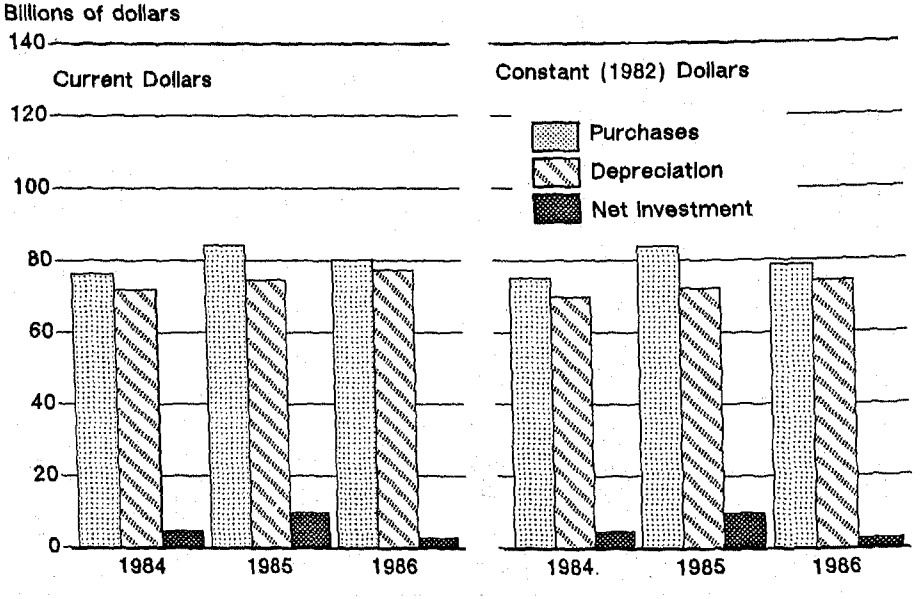
Source U.S. Energy Information Administration, *Characteristics of Commercial Buildings, 1983.*

Figure 27.1
Manufactures-Summary: 1972 to 1985



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1241.

Figure 27.2
Capital in Manufacturing Establishments: 1984 to 1986



Source: Chart prepared by U.S. Bureau of the Census. For data see table 1246.