

100 1980

101st EDITION

Section 21 Science

This section presents statistics on scientific and technological resources, with emphasis on patterns of research and development funding and on scientific and technical personnel and education. Also included are statistics on space program outlays and accomplishments. Principal sources of these data are the National Science Foundation and the National Aeronautics and Space Administration.

The National Science Foundation (NSF) gathers data chiefly through recurring surveys. Some current NSF publications containing data on funds for research and development and on scientific and engineering personnel include the occasional bulletin series, *Reviews of Data on Science Resources* and *Science Resources Studies Highlights*; and annual, biennial, and periodic reports such as *Federal Funds for Research and Development*; *Research and Development in Industry*; *National Patterns of Science and Technology Resources*; *Academic Science: R&D Funds, Scientists and Engineers, Graduate Enrollment and Support*; *Scientists, Engineers, and Physicians From Abroad*; *Federal Scientific, Technical, and Health Personnel*; *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*; *Characteristics of Doctoral Scientists and Engineers in the U.S.*; *Characteristics of Experienced Scientists and Engineers*; *Scientific and Technical Personnel in Private Industry Science and Engineering Personnel: A National Overview*; and policy reports relating to national allocation of human resources and funds to science and technology. Statistical surveys in these areas pose particularly difficult problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. Detailed discussions of the scope and limitations of the data appear in the source publications.

The Budget of the United States Government, published by the U.S. Office of Management and Budget, contains summary financial data on Federal research and development programs. In addition, *Aerospace Facts and Figures*, published by Aerospace Industries Association of America, Inc., presents data on sales and orders of space vehicle systems and employment in NASA programs.

Research and development outlays.—The National Science Foundation defines research as a “systematic and intensive study directed toward a fuller knowledge of the subject studied” and development as “the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes.” National data on outlays of funds are composed of four sectors: (1) *Government*, made up primarily of Federal executive agencies; (2) *industry*, consisting of manufacturing and nonmanufacturing firms and the federally funded research and development centers they administer; (3) *colleges and universities*, composed of colleges, universities and their affiliated institutions, agricultural experiment stations and associated schools of agriculture, and federally funded research and development centers administered by educational institutions; and (4) *other nonprofit institutions*, consisting of such organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and federally funded research and development centers administered by nonprofit organizations. These centers are exclusively or substantially financed by the Federal government and, in most instances, were originally established to meet a particular research and development need of the Government. They are administered on a contractual basis, by companies, educational institutions, or other nonprofit organizations. The research and development funds reported consist of current operating costs, including those for

planning and administration, except as otherwise noted. They exclude funds for routine testing, mapping and surveying, collection of general-purpose data, dissemination of scientific information, and training of scientific personnel.

Scientists, engineers, and technicians.—Scientists and engineers are defined as persons engaged in scientific and engineering work at a level requiring a knowledge of sciences equivalent at least to that acquired through completion of a 4-year college course. They are generally classified according to the fields of their employment rather than the discipline in which they received their major training. Technicians are defined as persons engaged in technical work at a level requiring knowledge acquired through a technical institute, junior college, or other type of training less extensive than 4-year college training. Craftsmen and skilled workers are excluded.

Historical statistics.—Tabular headnotes provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1970*. See Appendix 1.

NO. 1062. RESEARCH AND DEVELOPMENT—OUTLAYS: 1955 TO 1980

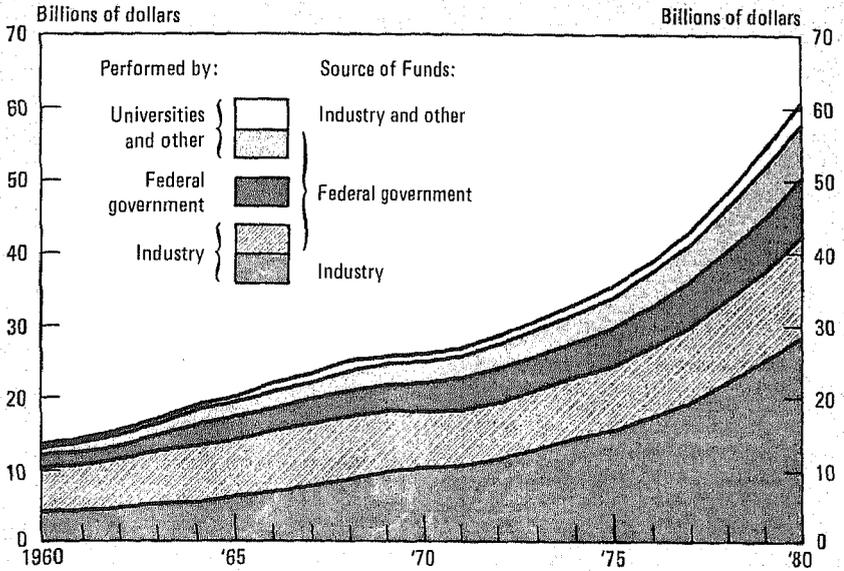
[Includes basic research, applied research, and development. Defense-related outlays comprise all research and development spending by Dept. of Defense, including space activities, and a portion of Department of Energy funds. Space-related outlays are those of the National Aeronautics and Space Administration; they exclude space activities of other Federal agencies, estimated at less than 5 percent of all space research and development spending. Minus sign (–) denotes decrease]

YEAR OR PERIOD	CURRENT DOLLARS			CONSTANT (1972) DOLLARS		ANNUAL PERCENT CHANGE ³		PERCENT OF TOTAL R AND D OUTLAYS					
	Total ¹ (bil. dol.)	De- fense space related (bil. dol.)	Other (bil. dol.)	Total (bil. dol.)	Per- cent of GNP ²	Cur- rent dol- lars	Con- stant dol- lars	Federally funded defense-space- related			Other outlays		
								Total	De- fense	Space	Total	Non- Fed- eral	Fed- eral
1955.....	6.2	3.0	3.1	10.1	1.5	9.4	7.0	49	48	1	51	43	8
1956.....	8.4	4.2	4.2	13.3	2.0	35.5	31.4	50	49	1	50	42	8
1957.....	9.8	5.3	4.5	15.0	2.2	16.9	13.1	54	53	1	47	38	9
1958.....	10.7	5.8	4.9	16.2	2.4	9.6	7.8	54	59	1	47	37	10
1959.....	12.4	7.0	5.3	18.3	2.5	15.4	12.9	57	54	3	43	35	8
1960.....	13.5	7.4	6.1	19.6	2.7	9.4	7.6	55	52	3	44	35	9
1961.....	14.3	8.0	6.3	20.7	2.7	5.9	4.9	56	50	6	44	35	9
1962.....	15.4	8.5	6.9	21.8	2.7	7.5	5.6	55	48	7	46	36	10
1963.....	17.1	9.4	7.7	23.8	2.9	10.8	9.2	55	41	14	44	34	10
1964.....	18.9	10.6	8.3	25.9	3.0	10.5	8.8	56	37	19	45	34	11
1965.....	20.0	10.8	9.2	26.9	2.9	6.3	4.0	54	33	21	46	35	11
1966.....	21.8	11.4	10.5	28.5	2.9	9.0	5.5	52	33	19	48	36	12
1967.....	23.1	11.3	11.8	29.3	2.9	6.0	2.9	49	35	14	51	38	13
1968.....	24.6	11.8	12.8	29.8	2.8	6.3	1.7	48	35	13	52	39	13
1969.....	25.6	11.5	14.1	29.6	2.7	4.2	–.8	45	34	11	55	42	13
1970.....	25.9	11.1	14.8	28.4	2.6	1.1	–4.0	43	33	10	57	43	14
1971.....	26.6	10.9	15.7	27.7	2.5	2.7	–2.3	41	32	9	59	44	15
1972.....	28.4	11.4	17.0	28.4	2.4	6.8	2.5	40	32	8	60	45	15
1973.....	30.6	11.6	19.0	29.1	2.4	7.7	2.5	38	31	7	62	47	15
1974.....	32.8	11.5	21.3	28.5	2.3	7.2	–2.1	35	28	7	65	49	16
1975.....	35.3	12.4	22.9	27.9	2.3	7.6	–2.1	35	27	8	65	48	17
1976.....	39.0	13.3	25.7	29.2	2.3	10.5	4.7	34	26	8	66	49	17
1977.....	43.0	14.2	28.8	30.3	2.3	10.3	3.8	33	25	8	67	50	17
1978.....	48.3	15.0	33.3	31.8	2.3	12.3	5.0	31	24	7	69	50	19
1979, est.....	54.3	16.8	37.5	32.8	2.3	12.4	3.1	31	24	7	69	51	18
1980, est.....	60.4	19.3	41.1	33.3	1.3	11.2	1.5	32	24	8	68	51	17
Annual avg: 1960–1969.....	19.4	10.1	9.4	25.6	2.8	(x)	(x)	53	40	13	48	36	11
1970–1980.....	38.6	12.5	25.2	29.8	2.4	(x)	(x)	36	28	8	64	48	16

X Not applicable. ¹ Includes revisions not shown in detail. ² GNP=Gross national product. ³ Change from prior year shown; 1955 change from 1954.

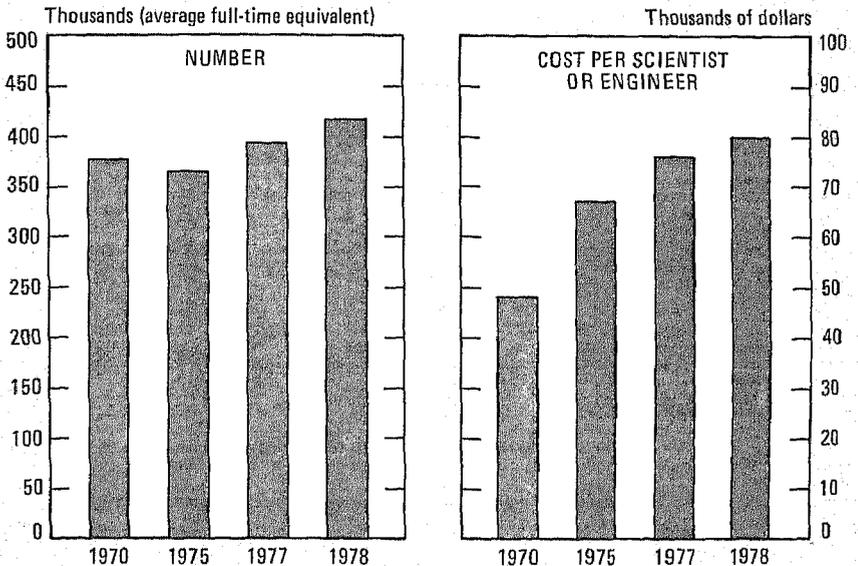
Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources, 1980*; and unpublished data.

Figure 21.1
Research and Development, Funds Used: 1960 to 1980



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1063.

Figure 21.2
Research and Development Scientists and Engineers in Private Industry: 1970 to 1978



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

NO. 1063. RESEARCH AND DEVELOPMENT (R AND D) FUNDS, BY PERFORMANCE SECTOR AND SOURCE: 1965 TO 1980

[In millions of dollars, except percent. Data primarily on calendar year basis—calendar year data for industry and other nonprofit institutions combined with Federal and university fiscal year data. Data refer, in general, to natural sciences including engineering, and to social sciences in all but industry sector. Excludes capital expenditures data. Expenditures at associated federally funded research and development centers administered by industry and other nonprofit institutions included in totals of respective sectors. See also *Historical Statistics, Colonial Times to 1970*, series W 109-125]

PERFORMANCE SECTOR AND SOURCE OF FUNDS	1965	1970	1973	1974	1975	1976	1977	1978	1979, prel.	1980, est.
Total R and D ¹	20,044	25,910	30,631	32,768	35,256	38,960	43,013	48,286	54,296	60,375
In 1972 dollars	26,914	28,400	29,063	28,476	27,888	29,165	30,316	31,756	32,623	33,264
Percent Federal as source	64.9	56.6	53.2	51.1	51.5	50.9	50.6	49.8	49.3	48.7
Federal Government	3,093	3,855	4,619	4,815	5,397	5,710	6,142	6,882	7,500	7,830
Industry	14,185	18,067	21,249	22,887	24,187	26,997	29,928	33,400	37,622	42,250
Federal funds	7,740	7,779	8,145	8,220	8,605	9,561	10,521	11,302	12,472	13,950
Industry funds	6,445	10,288	13,104	14,667	15,582	17,436	19,407	22,098	25,150	28,300
Universities and colleges	1,474	2,335	2,940	3,023	3,409	3,730	4,064	4,615	5,340	5,050
Federal funds	1,073	1,648	2,038	2,032	2,288	2,501	2,717	3,057	3,600	4,100
Industry funds	41	61	85	96	113	123	139	170	190	210
University and college funds ²	267	461	615	677	750	821	893	1,029	1,150	1,300
Other nonprofit institutions funds ²	93	165	202	218	258	285	315	359	400	440
Univ. and colleges, associated federal-ly funded R and D centers	629	737	817	865	987	1,147	1,384	1,717	1,840	2,000
Other nonprofit institutions	663	916	1,005	1,178	1,276	1,376	1,495	1,672	1,994	2,245
Federal funds	477	649	690	822	875	925	987	1,100	1,350	1,520
Industry funds	62	95	105	115	125	135	150	165	180	200
Other ³	124	172	211	241	276	316	358	407	464	525
Total research, basic and applied	6,894	9,226	10,557	11,506	12,506	14,009	15,369	17,219	19,495	21,735
In 1972 dollars	9,242	10,126	10,049	10,070	9,938	10,495	10,822	11,533	11,791	11,987
Percent Federal as source	62.9	59.9	57.9	56.4	56.9	56.7	56.5	55.9	55.7	55.6
Federal Government	1,354	1,862	2,096	2,309	2,499	2,868	3,037	3,217	3,530	3,730
Industry	3,250	4,029	4,456	4,987	5,300	5,931	6,567	7,430	8,410	9,450
Federal funds	1,224	1,207	1,125	1,188	1,287	1,385	1,541	1,750	1,910	2,150
Industry funds	2,026	2,822	3,331	3,799	4,013	4,546	5,026	5,680	6,500	7,300
Universities and colleges	1,417	2,223	2,772	2,890	3,261	3,562	3,855	4,380	5,075	5,755
Federal funds	1,036	1,564	1,918	1,961	2,210	2,408	2,597	2,922	3,445	3,925
Industry funds	39	56	81	90	106	115	130	160	180	200
University and college funds ²	252	448	582	635	703	771	834	964	1,080	1,225
Other nonprofit institutions funds ²	90	155	191	204	242	268	294	334	370	405
Univ. and colleges, associated federal-ly funded R and D centers	412	485	523	502	573	686	867	1,017	1,090	1,225
Other nonprofit institutions	461	628	710	818	873	962	1,043	1,175	1,390	1,575
Federal funds	307	409	452	525	545	595	636	720	880	1,000
Industry funds	50	77	85	94	103	112	123	135	145	160
Other ³	104	142	173	199	225	255	285	320	365	415
Total basic research	2,555	3,513	3,877	4,153	4,556	4,908	5,476	6,357	7,305	8,230
In 1972 dollars	3,419	3,860	3,702	3,661	3,638	3,680	3,851	4,182	4,420	4,544
Percent of total R and D	12.7	13.6	12.7	12.7	12.9	12.6	12.7	13.2	13.5	13.6
Percent Federal as source	70.8	69.8	68.1	68.0	67.8	68.4	68.7	69.0	69.5	69.7
Federal Government	364	541	537	611	682	719	866	1,047	1,150	1,210
Industry	592	602	631	699	730	819	911	1,040	1,180	1,325
Federal funds	186	158	132	163	157	185	210	250	280	325
Industry funds	406	444	499	536	573	634	701	790	900	1,000
Universities and colleges	1,138	1,796	2,055	2,153	2,410	2,547	2,787	3,185	3,745	4,275
Federal funds	879	1,296	1,456	1,522	1,694	1,827	1,992	2,257	2,700	3,100
Industry funds	26	40	57	61	72	72	82	100	115	125
University and college funds ²	164	350	408	432	479	481	527	614	690	785
Other nonprofit institutions funds ²	69	110	134	138	165	167	186	214	240	265
Univ. and colleges, associated federal-ly funded R and D centers	208	269	297	285	309	359	402	500	550	650
Other nonprofit institutions	253	305	357	405	425	464	510	585	680	770
Federal funds	172	189	218	245	245	265	290	335	400	450
Industry funds	29	44	49	54	60	64	70	80	85	95
Other ³	52	72	90	106	120	135	150	170	195	225
Total development	13,150	16,683	20,074	21,262	22,750	24,951	27,644	31,067	34,801	38,640
In 1972 dollars	17,672	18,274	19,014	18,406	17,950	18,670	19,494	20,431	21,032	21,277
Percent of total R and D	65.6	64.4	65.5	64.9	64.5	64.0	64.3	64.3	64.1	64.0
Percent Federal as source	66.0	54.8	50.8	48.3	48.5	47.7	47.3	46.5	45.7	45.0

¹ Basic research, applied research, and development. Institutions and used for research and development.

² Includes State and local government funds received by these voluntary health agencies.

³ Includes estimates for independent nonprofit hospitals and

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources, 1980*.

**NO. 1064. FEDERAL FUNDING FOR RESEARCH AND DEVELOPMENT, BY CHARACTER OF WORK,
BUDGET FUNCTION, AND FIELD OF SCIENCE: 1973 to 1981**

[In millions of dollars. For years ending June 30 except, beginning 1977 ending Sept. 30. Excludes R&D plant. For any given year, obligations differ from expenditures (see table 1047) because not all funds are expended during year obligated. Function data for 1973-77 are shown in obligations, and for 1978-81 are shown in budget authority. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

ITEM	1973	1974	1975	1976	1977	1978	1979	1980, est.	1981, est.
R&D total	16,800	17,411	19,039	20,780	23,984	26,388	28,978	31,878	35,492
Basic research.....	2,193	2,339	2,536	2,700	3,191	3,619	4,097	4,509	4,902
Applied research.....	3,454	3,877	4,305	4,915	5,413	6,105	6,576	7,295	8,006
Development.....	11,154	11,195	12,198	13,165	15,380	16,663	18,305	20,075	22,584
R&D total	16,800	17,411	19,039	20,780	23,984	26,517	29,040	31,845	35,528
National defense.....	9,002	9,016	9,679	10,430	11,864	12,899	13,791	14,959	18,117
Space.....	2,824	2,702	2,764	3,130	3,365	3,481	3,969	4,606	4,918
Health.....	1,585	2,069	2,170	2,351	2,629	2,968	3,401	3,650	3,792
Energy.....	630	759	1,353	1,649	2,562	3,134	3,461	3,765	3,675
General science.....	658	749	813	858	974	1,050	1,119	1,246	1,371
Natural resources and environment.....	554	516	624	683	753	904	1,010	1,090	1,140
Transportation.....	572	694	635	631	709	768	799	860	876
Agriculture.....	308	313	342	383	457	501	552	602	634
Ed., training, employment, and soc. serv.	290	236	239	255	230	345	354	457	341
Community and regional dev.	78	62	93	109	101	92	127	118	137
International affairs.....	28	24	29	42	66	57	117	127	135
Veterans benefits and services.....	74	85	95	98	107	111	123	126	130
Commerce and housing credit.....	50	51	65	69	71	77	92	107	114
Income security.....	106	71	72	48	55	67	57	63	80
Administration of justice.....	33	35	44	35	30	44	47	48	46
General government.....	7	9	12	12	13	18	23	21	23
Research total	5,646	6,216	6,841	7,616	8,604	9,725	10,673	11,803	12,908
Percent of total R and D.....	33.6	35.7	35.9	36.7	35.9	36.9	36.8	37.0	36.4
Life sciences.....	1,929	2,265	2,462	2,639	3,016	3,430	3,850	4,187	4,432
Engineering.....	1,413	1,575	1,765	2,068	2,125	2,446	2,623	2,963	3,246
Physical sciences.....	986	1,028	1,119	1,266	1,560	1,680	1,822	1,980	2,263
Environmental sciences.....	585	633	731	766	908	1,028	1,103	1,250	1,329
Social sciences.....	298	291	302	393	449	507	528	560	602
Mathematics and computer sciences.....	133	136	151	167	211	235	257	282	353
Psychology.....	108	133	138	138	156	193	202	222	246
Other sciences.....	195	154	173	178	180	206	287	359	438

Source: U.S. National Science Foundation, *Federal Funds for Research and Development*, annual.

**NO. 1065. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: 1970 TO
1980**

[In millions of dollars except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. See headnote, table 1064. See *Historical Statistics, Colonial Times to 1970*, series W 142, for total R & D expenditures]

AGENCY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979, est.	1980, est.
Total	15,340	15,545	16,498	16,800	17,415	19,047	20,789	23,995	26,414	29,576	30,733
Departments:											
Agriculture.....	281	305	350	367	379	420	462	547	621	667	664
Commerce.....	122	144	187	191	181	215	229	245	284	319	322
Defense ¹	7,360	7,509	8,318	8,404	8,420	9,012	9,655	10,963	11,554	13,002	13,880
Percent of total.....	48.0	48.3	50.4	50.0	48.3	47.3	46.4	45.7	43.7	44.0	45.2
Army.....	1,660	1,682	2,064	2,014	2,010	1,897	2,014	2,442	2,549	2,776	3,045
Navy.....	2,258	2,284	2,519	2,655	2,719	3,100	3,328	3,817	3,998	4,618	4,528
Air Force.....	2,990	3,114	3,254	3,274	3,216	3,513	3,727	4,031	4,262	4,679	5,221
Energy ²	1,346	1,303	1,298	1,363	1,489	2,047	2,464	3,536	4,245	4,689	4,659
HHS ³	1,221	1,476	1,751	1,838	2,290	2,398	2,584	2,823	3,207	3,665	3,726
NIH ⁴	873	1,039	1,271	1,314	1,737	1,880	2,060	2,280	2,581	2,961	2,951
Interior.....	158	194	220	243	197	311	342	326	385	435	417
Transportation.....	328	497	311	311	370	312	295	355	408	418	395
Agencies:											
EPA ⁵	89	137	122	181	169	258	259	296	385	400	436
NASA ⁶	3,800	3,258	3,157	3,061	3,002	3,064	3,447	3,703	3,875	4,392	4,540
NRC ⁷	(NA)	(NA)	(NA)	(NA)	42	64	88	112	134	152	176
NSF ⁸	289	337	455	480	556	595	609	697	749	819	910
Veterans Admin.....	59	63	69	74	85	95	98	107	114	127	127
Other agencies.....	288	322	260	288	235	256	257	285	453	491	481

NA Not available. ¹ Includes agencies not shown separately. ² Prior to 1974, Atomic Energy Commission; 1974-1977, Energy Research and Development Administration. ³ Health and Human Services beginning Oct. 1979; prior to then, Health, Education, and Welfare. ⁴ National Institutes of Health. ⁵ Environmental Protection Agency. ⁶ National Aeronautics and Space Administration. ⁷ Nuclear Regulatory Commission. Prior to 1974 part of Atomic Energy Commission. ⁸ National Science Foundation.

Source: National Science Foundation, *Federal Funds for Research and Development*, annual.

NO. 1066. INDUSTRIAL RESEARCH AND DEVELOPMENT FUNDS, BY GEOGRAPHIC DIVISION, 1965 TO 1978, AND BY SOURCE OF FUNDS, 1978

[For composition of divisions, see fig. 1, inside front cover]

GEOGRAPHIC DIVISION	FUNDS (mil. dol.)							PERCENT DISTRIBUTION				
	1965	1970	1974	1975	1976	1977	1978 ¹			1970	1975	1978
							Total	Federal Govt.	Private industry			
U.S.²	14,185	18,067	22,867	24,187	26,997	29,928	33,400	11,302	22,098	100	100	100
New England	1,175	1,854	2,060	2,032	2,152	2,407	2,688	1,115	1,573	10	8	8
Middle Atlantic	3,210	4,481	5,238	5,379	5,938	6,304	7,040	1,604	5,436	25	22	21
Eastern North Central	2,500	3,623	4,699	4,810	5,389	6,287	7,021	530	6,491	20	20	21
Western North Central	478	766	1,042	995	1,715	1,512	1,689	604	1,085	4	4	5
South Atlantic	1,015	1,424	1,804	1,753	1,851	2,017	2,252	773	1,479	8	7	7
Eastern South Central	416	346	388	401	428	469	524	269	255	2	2	2
Western South Central	796	571	729	844	1,116	1,216	1,358	568	790	3	3	4
Mountain	457	687	623	783	925	1,037	1,158	681	477	4	3	3
Pacific	4,137	4,315	4,962	5,389	5,938	6,359	7,101	4,798	2,303	24	22	21

¹ Estimated. ² Beginning 1974, includes undistributed funds, not shown separately.

NO. 1067. FUNDS FOR PERFORMANCE OF INDUSTRIAL RESEARCH AND DEVELOPMENT, BY INDUSTRY, 1965 TO 1978, AND BY SOURCE OF FUNDS, 1977 AND 1978

[In millions of dollars. Covers basic research, applied research, and development. See also *Historical Statistics, Colonial Times to 1970*, series W 144-160]

INDUSTRY	1965	1970	1975	1977			1978		
				Total	Federal Govt.	Private industry	Total	Federal Govt.	Private industry
Total¹	14,185	18,067	24,187	29,928	10,521	19,407	33,400	11,302	22,098
Electrical equip. and communication	3,200	4,220	5,105	5,937	2,698	3,238	6,739	2,970	3,769
Aircraft and missiles	5,148	5,219	5,713	7,104	5,541	1,563	7,700	5,837	1,863
Machinery	1,065	1,729	3,196	3,967	576	3,391	4,469	594	3,875
Chemicals and allied products	1,356	1,773	2,727	3,256	300	2,956	3,598	365	3,232
Motor vehicles, transportation equip	1,230	1,591	2,430	3,444	² 438	² 2,887	3,913	² 449	² 3,333
Professional and scientific instruments	403	744	1,173	1,487	174	1,313	1,723	194	1,529
Petroleum refining and extraction	397	515	693	918	76	842	1,071	119	952
Primary metals	213	275	443	534	25	507	546	28	518
Food and kindred products	157	230	335	395	(NA)	(NA)	428	(NA)	(NA)
Fabricated metal products	145	207	324	394	45	349	397	37	360
Rubber products	162	276	467	491	(NA)	(NA)	495	(NA)	(NA)
Paper and allied products	94	178	249	336	(NA)	(NA)	394	(NA)	(NA)
Stone, clay, and glass products	112	167	233	287	(NA)	(NA)	330	(NA)	(NA)

NA Not available. ¹ Includes industries not available separately. ² Excludes transportation equipment.
Source of tables 1066 and 1067: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1068. FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1965 TO 1978

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Minus sign (-) denotes decrease]

ITEM	1965	1970	1972	1973	1974	1975	1976	1977	1978
Total Federal obligations	2,305	3,237	4,145	3,839	4,480	4,547	5,403	6,486	7,479
Annual percent change ¹	41.9	-6.5	18.5	-7.4	16.7	1.5	18.8	20.0	15.3
Academic science obligations	1,816	2,188	2,599	2,464	2,737	2,806	2,959	3,348	3,958
Percent of total	78.8	67.6	62.7	64.2	61.1	61.7	54.8	51.6	52.9
Research and development	1,095	1,447	1,853	1,871	2,085	2,238	2,423	2,785	3,362
Research and development plant	126	45	37	43	29	45	24	36	34
Other science activities	595	696	709	550	623	522	513	526	561
Nonscience activities	489	1,049	1,546	1,375	1,743	1,741	2,443	3,138	3,522

¹ For 1965, change from 1964; for 1970, change from 1969; for 1972, change from 1971.

Source: U.S. National Science Foundation, *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions*, annual.

NO. 1069. RESEARCH AND DEVELOPMENT EXPENDITURES IN SCIENCE AND ENGINEERING AT UNIVERSITIES AND COLLEGES: 1964 TO 1978

[In millions of dollars. Estimates for nonrespondents account for less than 7 percent of the total]

CHARACTERISTIC	1964	1966	1968	1970	1972	1974	1975	1976	1977	1978
Total	1,275	1,715	2,149	2,335	2,677	3,023	3,409	3,730	4,064	4,815
In 1972 dollars ¹	1,733	2,230	2,611	2,569	2,677	2,687	2,736	2,799	2,856	3,036
Basic research.....	1,003	1,303	1,650	1,796	2,022	2,153	2,408	2,547	2,797	3,175
Applied research.....	232	328	404	427	544	737	852	1,015	1,060	1,204
Development.....	41	83	95	112	110	133	149	168	207	235
Source of funds:										
Federal Government.....	917	1,261	1,572	1,648	1,839	2,032	2,288	2,501	2,729	3,057
State and local governments.....	132	156	172	219	270	327	352	386	374	414
Institutions' own funds.....	103	147	218	243	305	351	398	435	508	615
Foundations, voluntary health agencies, and other.....	82	109	131	165	187	218	258	284	314	359
Industry.....	41	42	55	61	75	96	113	123	139	170
Field of science:										
Engineering.....	162	259	309	319	347	348	382	433	497	601
Physical sciences ²	217	287	320	307	330	334	350	380	429	497
Astronomy.....	16	23	24	19	22	24	27	26	32	37
Chemistry.....	70	88	105	102	110	116	121	140	164	182
Physics.....	120	159	173	162	162	169	174	183	201	235
Environmental sciences.....	55	66	120	125	192	235	255	287	317	378
Math. and computer sciences.....	33	42	58	72	71	77	85	87	107	124
Life sciences ²	682	872	1,037	1,194	1,353	1,632	1,900	2,101	2,260	2,536
Biological and agricultural.....	315	422	491	547	682	858	1,013	1,123	1,235	1,356
Clinical medical.....	320	390	477	549	605	716	812	897	950	1,093
Psychology.....	32	40	59	59	70	74	80	78	84	89
Social sciences and other.....	96	146	245	257	313	324	355	361	266	275

¹ Based on GNP implicit price deflator; see text p. 435.

² Includes sciences not shown separately.

Source: U.S. National Science Foundation, *Expenditures for Scientific Activities at Universities and Colleges*, annual; and unpublished data.

NO. 1070. SCIENTISTS AND ENGINEERS EMPLOYED IN RESEARCH AND DEVELOPMENT, BY SECTOR: 1961 TO 1980

[In thousands of full-time equivalent employees. Yearly averages for industry sector only. Excludes those employed by State and local government agencies, except as noted. DOD=Dept. of Defense]

SECTOR	1961	1965	1970	1974	1975	1976	1977	1978	1979 ¹	1980 ¹
Total	425.7	494.5	546.6	525.1	534.9	549.2	573.9	601.6	629.5	659.0
Industry (excl. social scientists) ²	312.0	348.4	375.6	361.6	363.8	373.6	393.2	415.8	440.0	465.0
Universities and colleges, total.....	42.4	53.4	68.5	65.5	70.2	71.8	74.5	77.7	80.0	82.5
Scientists and engineers.....	33.6	40.4	50.3	48.0	51.6	52.9	54.4	57.1	59.0	60.5
Graduate students.....	8.8	13.0	18.2	17.5	18.6	18.9	20.1	20.6	21.0	22.0
Federal Government (incl. DOD).....	51.1	61.8	69.8	62.6	63.4	64.0	64.7	65.4	66.0	66.5
University-associated federally funded R & D centers.....	9.1	11.1	11.5	12.1	12.7	13.4	14.0	14.7	15.0	16.0
Other nonprofit institutions ^{2,3}	11.1	19.3	21.2	23.3	24.8	26.4	27.5	28.0	28.5	29.0

¹ Estimated. ² Includes professional R & D personnel employed at FFRDC's administered by industry and other nonprofit institutions. ³ Includes estimate for R & D scientists and engineers employed in State-affiliated institutions.

Source: U.S. National Science Foundation, *National Patterns of Science and Technology Resources, 1980*.

NO. 1071. NOBEL PRIZE LAUREATES IN CHEMISTRY, PHYSICS, AND PHYSIOLOGY/MEDICINE—SELECTED COUNTRIES: 1901 TO 1979

[Presented by location of award-winning research and by date of award]

COUNTRY	1901-1979, total	1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1979	1901-1979		
								Phys-ics	Chem-istry	Physiology/Medicine
Total	334	52	41	49	74	92	26	115	93	126
United States.....	118	3	3	14	38	42	18	43	22	53
United Kingdom.....	63	7	8	11	14	20	3	21	22	20
Germany, Fed. Rep. of ¹	51	15	12	11	4	8	1	14	25	12
France.....	20	10	3	2	-	5	-	8	6	6
Soviet Union.....	10	2	-	-	4	3	1	7	1	2
Other countries.....	72	15	15	11	14	14	3	22	17	33

- Represents zero. ¹ Includes East Germany before 1946.

Source: U.S. National Science Foundation, *Science Indicators, 1976*; and unpublished data.

NO. 1072. SCIENTISTS AND ENGINEERS, BY FIELD, EMPLOYMENT STATUS, AND SEX: 1974 TO 1978

[In thousands, except percent. Represents the total science and engineering population in the United States]

FIELD	1974			1976			1978			
	Total		In labor force	Total		In labor force	Total		In labor force	Out-side labor force ¹
	Number	Per-cent female		Number	Per-cent female		Number	Per-cent female		
Total, all fields.....	2,482	8.7	2,288	2,706	9.2	2,452	2,741	9.7	2,508	234
Engineers, total.....	1,292	.5	1,229	1,375	.8	1,268	1,396	1.6	1,285	111
Scientists, total.....	1,190	17.7	1,059	1,330	18.2	1,184	1,345	18.2	1,223	123
Physical scientists.....	248	8.4	207	291	9.4	237	255	8.9	217	38
Chemists.....	166	9.8	137	186	11.2	157	174	10.9	147	27
Physicists/astronomers.....	63	3.8	54	70	3.7	61	62	3.6	52	9
Other physical scientists.....	19	10.4	15	25	12.4	19	20	7.3	18	2
Mathematical scientists.....	101	19.8	84	110	20.8	92	108	18.4	90	18
Mathematicians.....	89	19.6	74	98	20.8	82	97	18.3	82	15
Statisticians.....	12	21.0	10	13	20.6	11	11	19.6	8	3
Computer specialists.....	170	20.4	167	180	20.2	173	238	18.0	235	3
Environmental scientists.....	79	6.7	71	86	7.5	77	81	10.6	74	7
Earth scientists.....	74	7.0	67	80	7.8	72	71	12.0	65	6
Oceanographers.....	2	(²)	1	2	(²)	2	2	(²)	1	(²)
Atmospheric scientists.....	4	2.8	3	4	2.6	3	8	1.2	9	(²)
Life scientists.....	266	19.5	243	314	19.4	286	328	22.0	296	32
Biological scientists.....	126	29.2	112	140	29.3	124	154	27.9	133	21
Agricultural scientists.....	97	1.8	90	129	4.4	118	130	6.7	120	10
Medical scientists.....	43	31.3	42	46	31.4	45	44	47.5	43	1
Psychologists.....	109	21.1	94	123	25.0	106	132	27.3	123	8
Social scientists.....	217	24.4	192	237	24.5	211	205	20.6	189	17
Economists.....	56	6.3	48	60	6.8	52	59	11.2	53	6
Sociologists/anthropologists.....	46	38.1	36	51	37.8	42	45	34.6	40	5
Other social scientists.....	115	27.3	108	127	27.4	117	102	19.9	96	6

¹Includes those not employed or not seeking employment, such as retirees.

²Too few cases to estimate.

NO. 1073. CHARACTERISTICS OF SCIENTISTS AND ENGINEERS: 1976 AND 1978

[Represents the total science and engineering population in the United States]

CHARACTERISTIC	1976, total	1978								
		Total	Engi-neers	Physi-cal scientists,	Math-ematical special-ists	Com-puter specialists	Environ-mental scientists	Life scientists	Psycholo-gists	Social scientists
Total (1,000).....	2,706	2,741	1,396	255	108	238	81	328	132	205
	PERCENT DISTRIBUTION									
Male.....	90.8	90.3	98.4	91.0	81.6	82.0	89.4	78.0	72.7	79.4
Female.....	9.2	9.7	1.6	9.0	18.4	18.0	10.6	22.0	27.3	20.6
Under 30 years.....	30.0	23.7	18.9	25.5	18.8	38.1	37.4	30.8	30.4	28.8
30-39 years.....	27.6	28.9	25.6	24.9	40.0	38.9	19.1	30.8	34.1	28.0
40-49 years.....	19.1	21.5	23.2	22.8	21.7	16.8	19.8	18.5	17.6	20.8
50-59 years.....	15.9	16.9	21.1	16.8	11.2	5.4	15.8	12.6	12.3	15.4
60 and over.....	7.5	9.1	11.3	9.9	8.3	.8	7.9	7.4	5.7	9.0
Highest degree:										
Doctorate.....	10.6	11.6	3.5	25.6	15.0	2.6	17.6	25.2	28.6	23.5
Master's.....	24.1	28.0	19.7	23.8	63.4	26.4	30.1	34.7	60.7	40.9
Bachelor's.....	62.4	58.0	72.3	50.4	21.4	71.0	52.2	39.8	10.7	35.5
Other.....	2.9	2.4	4.6	.1	.2	.1	.1	.3	.1	.1
Type of employer:										
Business, industry.....	60.3	61.8	77.7	54.8	38.7	74.0	55.9	29.7	26.2	32.7
Educational institutions.....	15.6	15.4	3.8	26.1	39.7	7.5	17.8	32.4	45.8	33.0
Nonprofit organizations.....	4.0	3.2	1.4	3.7	3.5	4.7	1.5	6.4	8.4	5.5
Federal Government.....	8.6	8.3	7.1	8.5	10.6	6.2	14.4	14.4	3.3	9.1
Military.....	.8	.8	.9	.3	.9	1.2	.1	.6	1.8	.3
Other government.....	6.7	8.3	6.9	4.5	5.4	4.5	9.3	12.2	12.2	18.2
Other.....	3.9	2.2	2.1	2.1	1.1	1.8	1.0	4.2	2.2	1.2

 Source of tables 1072 and 1073: U.S. National Science Foundation, *U.S. Scientists and Engineers: 1978* (NSF 80-304).

NO. 1074. RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS—AVERAGE FULL-TIME-EQUIVALENT AND COST, BY INDUSTRY AND SOURCE OF SUPPORT: 1970 TO 1978

[In thousands. Data are estimates; for 1970 on man-years basis; thereafter, on average full-time-equivalent (FTE) basis. See *Historical Statistics, Colonial Times to 1970*, series W 167, for total cost per scientist or engineer]

INDUSTRY	1970			1975			1977			1978		
	Total	Private industry	Federal Govt.	Total	Private industry	Federal Govt.	Total	Private industry	Federal Govt.	Total	Private industry	Federal Govt.
Average FTE of scientists and engineers	375.6	234.9	140.7	363.8	260.6	103.2	393.2	275.6	117.5	415.8	290.5	125.3
Chemicals and allied products.....	41.4	38.0	3.4	44.8	42.2	2.6	47.2	44.7	2.5	48.6	46.0	2.6
Machinery.....	42.5	35.4	7.1	54.2	47.0	7.2	56.8	48.7	8.1	60.6	52.0	8.6
Electrical equipment.....	96.2	49.9	46.3	81.4	48.2	33.2	84.9	49.1	35.8	87.4	50.5	36.9
Motor vehicle and other transport equipment.....	26.8	21.5	5.3	27.5	24.0	3.5	31.4	27.4	4.0	34.0	29.7	4.3
Aircraft and missiles.....	85.2	20.9	64.3	67.2	21.1	46.1	77.0	24.3	52.7	84.3	26.6	57.7
Other industries.....	83.5	69.2	14.3	86.7	78.1	10.6	95.9	81.5	14.4	100.9	85.7	15.2
Cost per scientist or engineer (dol.)	48.1	22.9	56.2	66.5	58.2	82.2	76.1	70.4	90.7	79.5	(NA)	(NA)
Chemicals and allied products.....	42.8	42.0	53.7	60.9	56.0	87.0	69.1	66.5	113.1	74.0	(NA)	(NA)
Machinery.....	40.7	40.1	39.2	58.9	59.8	73.8	69.9	69.8	72.1	73.8	(NA)	(NA)
Electrical equipment.....	43.9	40.7	48.1	62.7	54.3	65.8	69.9	66.4	75.3	77.1	(NA)	(NA)
Motor vehicle and other transport equipment.....	59.6	63.2	51.7	88.4	86.0	104.3	91.5	(NA)	(NA)	101.3	(NA)	(NA)
Aircraft and missiles.....	61.3	54.3	65.0	85.1	56.1	96.2	92.3	67.0	107.8	91.4	(NA)	(NA)
Other industries.....	42.0	39.4	55.0	55.3	52.4	75.5	63.2	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. National Science Foundation, *Research and Development in Industry*, annual.

NO. 1075. EMPLOYMENT OF NATURAL SCIENTISTS AND ENGINEERS IN PRIVATE INDUSTRY, BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1975 AND 1978

[In thousands. Total includes nonmanufacturing industries]

OCCUPATION	1975		1978		OCCUPATION	1975		1978	
	Total	Manufacturing	Total	Manufacturing		Total	Manufacturing	Total	Manufacturing
Total	1,184	670	1,211	662	Physical scientists.....	104	85	103	63
Engineers.....	853	507	916	536	Chemists.....	65	59	67	56
Chemical.....	50	41	46	33	Physicists.....	10	10	8	3
Civil, sanitary.....	82	11	84	9	Geologists, geophysicists.....	15	13	21	2
Electrical.....	292	143	255	152	Other.....	14	13	7	3
Industrial.....	67	57	89	70	Life scientists.....	60	24	27	14
Metallurgical.....	20	16	13	9	Math scientists.....	14	7	30	10
Mechanical, aeronautical.....	201	157	228	157	Computer scientists.....	143	43	135	40
Petroleum.....	18	3	14	1					
Other.....	124	78	187	103					

¹ Includes social scientists. ² Geologists only.

Source: U.S. National Science Foundation, and U.S. Bureau of Labor Statistics, unpublished data.

NO. 1076. EMPLOYMENT OF SCIENCE AND ENGINEERING TECHNICIANS IN PRIVATE INDUSTRY, BY OCCUPATION AND MAJOR INDUSTRIAL SECTOR: 1978

OCCUPATION	Total (1,000)	Per cent distribution	Percent manufacturing	INDUSTRY	Total (1,000)	Per cent distribution
Technicians, total	1,105.1	100.0	42.4	Mining.....	21.4	1.9
Engineering technicians.....	819.7	74.1	42.0	Construction.....	44.4	4.0
Drafts.....	263.7	23.9	42.8	Manufacturing.....	468.4	42.4
Electrical and electronic technicians.....	329.8	29.8	34.4	Transportation, communications, public utilities.....	95.6	8.7
Other technicians.....	225.7	20.4	52.0	Wholesale and retail trade.....	131.7	11.9
Science technicians.....	92.1	8.3	78.0	Finance, insurance, and real estate.....	41.7	3.8
Computer programmers.....	161.5	14.6	32.7	Services.....	301.9	27.3

Source: U.S. National Science Foundation and U.S. Bureau of Labor Statistics, unpublished data.

NO. 1077. SCIENTISTS AND ENGINEERS—EMPLOYMENT IN INSTITUTIONS OF HIGHER EDUCATION, BY FIELD: 1965 TO 1978

[In thousands. As of January. Includes full-time and part-time personnel. Excludes graduate students who receive stipends for part-time services as scientists or engineers. R and D=research and development]

FIELD	1965	1971	1975	1977	1978	FIELD	1965	1971	1975	1977	1978
Total	189.9	269.2	291.4	311.2	321.3	Math, and computer scientists	13.7	24.5	28.4	32.0	32.9
Universities, colleges	178.9	257.9	278.9	297.3	306.5	Life scientists	75.8	110.3	113.5	117.4	122.5
Teaching staff	122.0	185.0	215.0	228.7	235.4	Agricultural	13.5	18.0	14.3	14.2	14.9
Engineers ¹	21.7	27.1	27.9	29.9	30.9	Biological	24.3	31.8	38.2	42.7	43.4
Aeronautical	1.1	1.5	1.1	1.1	1.1	Medical	38.0	60.4	61.0	60.5	64.2
Chemical	1.6	1.8	1.9	1.9	2.0	Psychologists	9.4	16.8	21.6	23.7	23.7
Civil	3.1	4.1	4.9	5.2	5.3	Social scientists ¹	32.9	43.2	48.7	53.1	54.2
Electrical	5.5	6.9	6.8	6.9	7.2	Economists	7.9	11.3	12.7	13.8	14.0
Mechanical	4.1	5.4	5.3	5.5	5.7	Sociologists	6.3	11.3	14.2	15.5	15.3
Physical and environmental science ¹	25.5	35.9	38.7	41.3	42.2	Political science	5.9	8.9	10.6	11.2	11.3
Chemists	10.7	14.7	16.1	17.1	17.6	Federally funded R and D centers	11.0	11.3	12.5	13.9	14.8
Earth scientists	4.0	6.5	6.0	6.9	6.9	Engineers	5.0	5.1	5.9	6.4	6.6
Physicists	9.1	12.2	12.3	12.5	12.8	Scientists	6.0	6.2	6.6	7.6	8.2

¹ Includes other engineers or scientists not shown separately.

NO. 1078. FULL-TIME SCIENTISTS AND ENGINEERS EMPLOYED IN UNIVERSITIES AND COLLEGES, BY FIELD OF EMPLOYMENT, AND SEX: 1975 TO 1978

[In thousands, except percent. As of January. Excludes graduate students who receive stipends for part-time services as scientists or engineers. Excludes federally funded research and development centers]

FIELD OF EMPLOYMENT	1975	1977	1978		FIELD OF EMPLOYMENT	1975	1977	1978	
			Total	Per cent male				Total	Per cent male
Total	223.3	235.9	241.1	84.0	Mathematicians ²	22.4	23.9	24.3	85.8
Physical sciences	26.7	27.5	27.9	91.2	Social sciences	38.2	41.0	41.6	81.8
Chemistry	13.8	14.5	14.7	88.3	Economics	10.2	10.7	10.8	91.0
Physics	10.9	11.1	11.3	95.8	Sociology	10.7	11.6	11.4	73.6
Other	1.9	2.0	1.9	87.2	Political science	8.7	9.0	9.0	88.1
Environmental scientists ¹	6.8	8.0	8.1	93.1	Other	8.6	9.7	10.4	75.9
Life sciences	90.7	94.2	97.2	79.7	Engineer	22.6	23.9	24.6	97.6
Agricultural	13.2	12.9	13.6	91.0	Aeronautical ³ .....	.9	1.0	1.0	98.1
Biological	33.5	36.9	37.4	79.3	Chemical	1.6	1.7	1.7	98.1
Medical	44.0	44.4	46.2	78.7	Civil	3.8	4.1	4.2	97.0
Psychology	16.0	17.3	17.4	75.2	Electrical	5.4	5.5	5.6	98.4
					Mechanical	4.4	4.5	4.5	98.7
					Other	6.5	7.2	7.6	96.5

¹ Includes atmospheric scientists and oceanographers. ² Includes computer scientists. ³ Includes astronomical.

Source of tables 1077 and 1078: U.S. National Science Foundation, *Human Resources for Scientific Activities at Universities and Colleges*, annual.

NO. 1079. PROFESSIONAL SCIENTIFIC, ENGINEERING, AND TECHNICAL PERSONNEL IN THE FEDERAL GOVERNMENT, BY OCCUPATIONAL GROUP: 1966 TO 1978

[In thousands, except percent. 1966 data as of December, all other years as of October]

OCCUPATIONAL GROUP	1966	1970	1975	1977	1978	PERCENT FEMALE				
						1966	1970	1975	1977	1978
Total	192.7	206.2	221.9	229.2	236.7	16.6	16.4	19.7	20.8	21.5
Scientific personnel	71.5	77.2	77.3	81.4	84.8	7.8	8.0	8.8	9.8	10.7
Physical sciences	27.3	29.8	27.1	27.1	27.5	6.4	6.4	6.6	7.3	7.9
Mathematics and statistics	7.3	8.6	10.0	10.6	11.2	20.0	17.4	15.9	16.7	17.6
Life sciences	26.0	26.9	26.4	28.3	29.3	3.7	4.1	5.1	6.1	6.6
Social sciences	5.8	6.6	8.0	9.1	9.4	14.5	16.2	17.6	19.9	21.8
Geography and cartography	3.2	3.3	2.9	3.3	3.6	8.6	8.5	7.9	9.2	9.8
Psychology	1.9	2.2	2.9	3.0	3.2	14.6	13.7	14.6	15.1	16.0
Engineering personnel	76.8	83.0	86.6	87.8	89.2	.5	.7	.7	.9	1.1
Health professional personnel	44.3	46.0	58.0	59.9	62.8	58.8	59.2	62.7	65.1	65.0
Health officers	13.1	13.0	13.4	11.7	12.1	4.7	5.5	7.8	9.8	10.6

¹ Includes community planning.

Source: U.S. National Science Foundation. Compiled from data supplied by the U.S. Office of Personnel Management.

**NO. 1080. SALARIES OF PROFESSIONAL, SCIENTIFIC, AND TECHNICAL PERSONNEL IN THE
FEDERAL GOVERNMENT, BY OCCUPATIONAL FIELD, BY SEX: 1970 TO 1978**

[In thousands of dollars. Mean annual salaries as of October; for definition of mean, see p. xii]

OCCUPATIONAL FIELD	ALL PERSONNEL				MALE			FEMALE		
	1970	1975	1977	1978	1970	1975	1978	1970	1975	1978
Engineering.....	17.8	24.2	27.8	29.5	17.8	24.2	29.6	15.5	19.2	22.4
Health officers.....	19.5	28.6	38.2	40.0	19.3	28.4	39.9	21.3	31.0	40.4
Nursing personnel.....	10.0	14.7	16.6	17.8	10.9	14.2	17.9	10.0	14.7	16.6
Scientific personnel.....	16.3	22.5	25.7	27.0	16.5	22.8	27.5	14.0	19.1	22.4
Physical sciences.....	17.8	24.4	28.3	29.7	18.1	24.6	30.3	13.8	19.2	22.5
General physical.....	20.5	28.1	34.0	35.8	20.7	28.3	36.4	15.0	21.7	24.5
Chemistry.....	16.0	22.5	25.6	27.0	16.5	23.1	27.9	13.4	18.9	22.3
Physics.....	17.8	25.5	29.8	31.5	17.9	25.6	31.7	15.7	21.0	25.6
Life sciences.....	14.3	20.0	22.7	23.9	14.3	20.1	24.1	13.0	17.5	20.0
General biological sciences.....	15.9	21.0	24.2	25.5	16.6	21.7	26.5	12.2	17.0	20.5
Agricultural sciences.....	13.2	18.6	21.0	22.3	13.2	18.6	22.4	14.9	16.2	16.7
Animal sciences.....	17.3	23.5	27.4	28.8	17.4	23.8	29.3	14.5	19.4	23.3
Microbiology.....	15.6	21.0	24.0	25.3	16.6	22.2	27.2	13.1	17.9	21.3
Plant sciences.....	14.5	20.8	23.6	24.7	14.5	21.0	25.2	12.5	17.5	18.6
Mathematics.....	15.5	22.0	25.6	27.2	15.8	22.5	28.1	14.1	19.4	23.6
Statistics.....	16.7	22.5	25.3	26.7	17.3	23.3	27.7	14.5	19.7	22.4
Social sciences.....	17.8	23.4	26.8	28.1	18.3	24.2	29.5	15.0	20.0	23.7
Economics.....	18.0	23.6	27.4	28.8	18.3	24.2	29.7	15.2	19.7	23.8
Geography and cartography.....	13.9	19.8	22.3	23.3	14.1	20.0	23.7	12.4	17.4	19.7
Psychology.....	18.2	23.9	27.8	29.0	18.5	24.5	29.8	15.9	20.5	25.0

Source: U.S. National Science Foundation, unpublished data. Compiled from data supplied by U.S. Office of Personnel Management.

NO. 1081. SCIENTISTS, ENGINEERS, AND PHYSICIANS ADMITTED AS IMMIGRANTS, 1967 TO 1978

[For years ending June 30 except, beginning 1977, ending Sept. 30. Includes professors and instructors]

OCCUPATION	1967-1970, total	1971-1975, total	1976-1978, total	1972	1973	1974	1975	1976	1977	1978
Scientists and engineers.....	49,088	43,957	25,170	11,323	6,632	5,969	6,931	7,495	7,819	9,856
Engineers ¹	34,589	29,408	17,099	7,438	4,443	3,866	4,648	5,146	5,191	6,762
Chemical.....	2,874	2,860	1,387	791	438	333	438	446	470	481
Civil.....	4,305	5,096	1,944	1,461	700	575	694	697	543	704
Electrical.....	5,368	4,807	2,350	1,305	661	543	676	754	680	916
Mechanical.....	5,743	5,374	2,310	1,470	829	627	845	823	676	811
Natural scientists ¹	12,133	11,541	5,765	3,271	1,790	1,422	1,602	1,663	1,893	2,209
Agricultural scientists ²	1,057	1,876	965	518	388	250	305	212	314	437
Biologists, medical scientists.....	1,389	1,791	927	527	309	222	238	268	325	334
Chemists.....	5,650	4,956	2,298	1,372	711	592	675	678	752	866
Physicists.....	1,726	989	478	325	118	113	137	152	148	178
Social scientists.....	2,366	3,008	2,306	616	399	681	681	686	735	885
Physicians and surgeons.....	12,896	29,908	17,692	7,143	7,119	4,537	5,361	6,184	7,073	4,435

¹ Includes occupations not shown separately. ² Includes foresters and conservationists.

Source: U.S. National Science Foundation, *Scientists, Engineers, and Physicians From Abroad*, annual through 1975; unpublished data thereafter. Data from U.S. Immigration and Naturalization Service.

NO. 1082. GRADUATE SCIENCE STUDENTS IN DOCTORATE-GRANTING INSTITUTIONS, BY FIELD AND LEVEL OF STUDY: 1975 TO 1978

[In thousands. As of fall. Includes outlying areas]

FIELD OF SCIENCE	Total students, first-year			Total students, beyond first-year			Full-time students, first-year			Full-time students, beyond first-year		
	1975	1977	1978	1975	1977	1978	1975	1977	1978	1975	1977	1978
Total.....	113.2	115.6	106.7	183.1	194.3	205.3	79.7	80.5	74.7	131.9	137.9	142.9
Engineering.....	29.3	28.9	25.3	35.8	37.8	40.9	16.5	15.8	14.6	20.6	21.0	22.5
Physical sciences.....	7.0	7.2	6.8	17.8	18.1	18.3	6.0	6.2	5.8	15.4	15.7	15.9
Environmental sciences.....	3.7	3.8	3.6	7.0	8.0	8.3	3.1	3.3	3.1	5.6	6.3	6.6
Mathematical sciences.....	8.6	8.2	8.0	12.5	12.8	13.7	5.3	5.1	4.8	8.5	8.6	8.9
Life sciences.....	28.5	31.6	29.6	44.9	51.5	55.7	23.1	24.1	22.6	36.4	40.1	42.5
Psychology.....	7.8	7.8	7.1	19.2	20.5	20.8	5.8	6.1	5.5	13.9	15.2	15.1
Social sciences.....	28.3	28.2	26.4	46.0	45.5	47.7	19.8	19.9	18.2	31.4	30.9	31.4

Source: U.S. National Science Foundation, *Survey of Graduate Science Student Support and Postdoctorals*, annual.

NO. 1083. DOCTORATES CONFERRED, 1970 TO 1979, AND SELECTED FIELDS, 1979, BY CHARACTERISTICS

CHARACTERISTIC	ALL FIELDS ¹				Total ¹	1979				
	1970	1975	1977	1978		Physical sciences ²	Engineering	Biological sciences ³	Psychology	Social sciences ⁴
Doctorates conferred.....	29,475	32,913	31,672	30,850	31,200	4,298	2,494	3,317	3,081	2,583
Percent with master's degree.....	78.6	81.3	81.3	81.4	81.2	61.6	90.6	52.6	78.9	83.7
Percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Male.....	86.5	78.1	75.2	73.1	71.4	88.5	97.5	73.2	59.2	75.0
Female.....	13.5	21.9	24.8	26.9	28.6	11.5	2.5	26.8	40.8	25.0
White ⁵	(NA)	79.8	78.7	83.4	83.3	82.6	71.4	86.3	88.0	82.2
Black and other ⁵	(NA)	12.1	14.1	10.7	10.9	10.3	21.8	7.9	7.5	10.3
Not reported ⁵	(NA)	8.1	7.3	5.9	5.8	7.1	6.8	5.8	4.5	7.4
U.S. citizens.....	84.2	82.1	82.1	81.6	81.3	76.4	51.9	85.5	91.2	77.2
Foreign citizens.....	14.0	15.9	15.2	15.4	15.7	21.6	45.6	11.8	3.7	19.9
Citizenship unknown.....	1.6	2.0	2.7	2.9	3.0	2.0	2.5	2.6	5.1	2.9
Median age at award ⁶ (yr.).....	30.7	31.5	31.6	31.7	31.9	29.0	30.3	29.4	30.5	32.4
Median total time, ⁶ baccalaureate to doctorate (yr.).....	7.9	8.6	8.7	8.9	9.0	6.7	7.6	7.0	7.7	9.4
Registered time (yr.).....	5.6	5.9	6.1	6.1	6.2	5.7	5.5	5.8	6.0	6.6

NA Not available. ¹ Includes other fields, not shown separately. ² Astronomy, physics, chemistry, earth sciences, and mathematics. ³ Biochemistry, botany, microbiology, physiology, zoology, and related fields. ⁴ Anthropology, sociology, economics, political science, public administration, and international relations. ⁵ 1978 and 1979 data on race limited to U.S. citizens and non-U.S. citizens with permanent visas (26,529 in 1978 and 26,683 in 1979). ⁶ For definition of median, see Guide to tabular presentation.

Source: U.S. National Science Foundation. Data from National Research Council, *Summary Report, 1979: Doctorate Recipients from United States Universities*.

NO. 1084. SCIENCE DOCTORATES CONFERRED AND ENROLLMENT FOR ADVANCED DEGREES: 1965 TO 1979

[Doctorates conferred, years ending June 30; enrollment as of fall term. See also *Historical Statistics, Colonial Times to 1970*, series H 767-771, 774, and 776-780]

FIELD OF SCIENCE	1965	1970	1974	1975	1976	1977	1978	1979
Science doctorates conferred	10,477	17,731	18,316	18,352	17,872	17,373	17,034	17,230
Life sciences.....	2,539	4,163	4,303	4,402	4,350	4,266	4,361	4,495
Biological sciences.....	1,963	3,360	3,473	3,498	3,562	3,484	3,508	3,640
Agricultural sciences ¹	576	803	830	904	788	782	853	855
Physical sciences.....	2,865	4,400	3,800	3,749	3,572	3,410	3,234	3,321
Chemistry.....	1,444	2,234	1,792	1,762	1,623	1,570	1,545	1,567
Physics and astronomy.....	1,046	1,655	1,334	1,293	1,235	1,149	1,066	1,108
Earth, environmental, and marine sciences.....	375	511	674	694	714	691	623	646
Social sciences.....	1,361	2,626	3,286	3,344	3,278	3,137	3,008	2,862
Economics.....	538	826	833	867	854	809	778	780
Sociology.....	239	504	645	680	734	725	610	632
Anthropology.....	82	217	381	385	428	386	399	383
Other social sciences ²	502	1,079	1,427	1,412	1,262	1,217	1,221	1,067
Psychology.....	954	1,888	2,587	2,749	2,878	2,960	3,049	3,081
Engineering.....	2,073	3,432	3,144	2,959	2,791	2,641	2,423	2,494
Mathematics.....	685	1,222	1,196	1,149	1,003	959	959	977
Graduate enrollment (1,000)	535.3	816.2	965.0	1,053.8	1,030.0			
Science fields (1,000).....	195.3	252.2	250.7	261.5	258.2			
Percent of total.....	36.5	30.9	26.0	24.8	25.1			
Engineering ³ (1,000).....	57.5	64.8	56.0	59.3	57.3			
Social sciences ⁴ (1,000).....	30.0	45.0	45.6	46.3	44.2			
Biological sciences (1,000).....	28.3	37.6	43.4	45.5	45.4	(NA)	(NA)	(NA)
Physical sciences (1,000).....	36.5	40.1	34.9	35.5	36.1			
Psychology (1,000).....	15.6	25.3	32.8	35.3	35.4			
Mathematical subjects ⁵ (1,000).....	21.0	30.6	27.1	27.0	26.8			
Agriculture and forestry ¹ (1,000).....	6.4	8.7	10.8	12.6	13.1			
Health fields (1,000).....	8.9	14.2	30.4	35.5	38.1			
All other fields (1,000).....	331.1	549.8	683.9	756.8	733.7			

NA Not available. ¹ Excludes agricultural economics. ² Includes econometrics, statistics, geography, political science and public administration, history and philosophy of science, archeology, linguistics, and agricultural economics. ³ Includes interdisciplinary studies; excludes engineering technologies. ⁴ Includes agricultural economics, anthropology, archeology, demography, economics, geography, linguistics, political science and government, and sociology. ⁵ Includes computer and information sciences.

Source: U.S. National Science Foundation. Data from National Research Council, Doctorate Record File; and U.S. National Center for Education Statistics, *Enrollment for Masters and Higher Degrees*, annual.

No. 1085. DOCTORAL SCIENTISTS AND ENGINEERS, BY STATES: 1979

[Includes doctorate holders receiving their degrees between 1936 and June 1978]

STATE	Total	Natural scientists	Social scientists	Engineers	STATE	Total	Natural scientists	Social scientists	Engineers
Total	332,280	188,536	92,212	51,532	Mo.....	5,401	3,172	1,467	762
Ala.....	3,124	1,809	860	455	Mont.....	1,225	767	372	86
Alaska.....	693	512	165	16	Nebr.....	2,068	1,378	408	282
Ariz.....	3,605	1,866	1,052	687	Nev.....	656	304	282	70
Ark.....	1,115	748	284	83	N.H.....	978	571	150	257
Calif.....	39,700	20,251	11,289	8,160	N.J.....	13,574	7,996	2,477	3,101
Colo.....	6,321	4,038	1,371	912	N. Mex.....	3,884	2,586	503	795
Conn.....	5,971	3,290	2,019	662	N.Y.....	32,716	17,365	10,811	4,540
Del.....	2,851	2,004	363	484	N.C.....	7,371	4,773	1,753	845
D.C.....	11,616	5,387	4,895	1,334	N. Dak.....	721	492	174	55
Fla.....	7,508	4,133	2,427	948	Ohio.....	13,394	7,535	3,693	2,168
Ga.....	4,956	3,401	1,081	474	Okl.....	3,149	1,580	1,004	565
Hawaii.....	1,649	997	537	115	Oreg.....	3,867	2,347	1,116	404
Idaho.....	1,494	813	371	310	Pa.....	15,868	8,581	4,433	2,854
Ill.....	14,863	8,023	4,788	2,052	R.I.....	1,741	1,000	435	306
Ind.....	5,790	3,392	1,806	802	S.C.....	2,549	1,759	493	297
Iowa.....	3,132	2,013	945	174	S. Dak.....	777	475	240	62
Kans.....	2,343	1,169	903	271	Tenn.....	5,615	3,341	1,371	903
Ky.....	2,966	1,711	1,045	210	Tex.....	16,449	9,705	3,427	3,307
La.....	4,054	2,508	891	555	Utah.....	2,718	1,360	643	715
Maine.....	1,147	657	288	202	Va.....	987	552	399	36
Md.....	12,835	8,828	2,540	1,467	Vt.....	9,516	5,324	2,816	1,578
Mass.....	14,078	7,941	4,008	2,129	Wash.....	6,913	3,289	2,319	1,305
Mich.....	10,698	6,264	2,968	1,468	W. Va.....	1,833	1,131	447	255
Minn.....	6,187	4,138	1,539	510	Wis.....	5,980	3,401	1,667	912
Miss.....	2,099	1,009	746	344	Wyo.....	799	418	340	41
					Other areas.....	746	442	193	111

Source: U.S. National Science Foundation, 1979 Characteristics of Doctoral Scientists and Engineers in the United States. Data derived from the Doctoral Roster of Scientists and Engineers.

No. 1086. FEDERAL SPACE PROGRAM—OUTLAYS, BY AGENCY: 1960 TO 1980

[In millions of dollars, except percent. Through 1976, for years ending June 30, thereafter, years ending Sept. 30. NASA = National Aeronautics and Space Administration]

YEAR	Total ¹	NASA ²		Dept. of Defense	Dept. of Energy ³	YEAR	Total ¹	NASA ²		Dept. of Defense	Dept. of Energy ³
		Total	Percent of total					Total	Percent of total		
1960.....	888	329	37.0	518	41	1970.....	5,453	3,565	65.4	1,756	103
1961.....	1,468	604	47.3	710	64	1971.....	4,999	3,171	63.4	1,693	97
1962.....	2,387	1,226	51.4	1,099	130	1972.....	4,772	3,195	67.0	1,470	60
1963.....	4,079	2,517	61.7	1,368	181	1973.....	4,719	3,069	65.0	1,557	51
1964.....	5,900	4,101	69.5	1,564	220	1974.....	4,854	2,960	61.0	1,777	39
1965.....	6,856	5,005	73.0	1,592	232	1975.....	4,891	2,953	60.4	1,829	34
1966.....	7,689	5,828	75.8	1,637	188	1976.....	5,314	3,336	62.8	1,864	26
1967.....	7,208	5,307	73.6	1,673	184	1977.....	5,983	3,440	57.5	2,412	22
1968.....	6,647	4,574	68.8	1,890	146	1978.....	6,509	3,623	55.7	2,729	34
1969.....	6,331	4,083	64.5	2,095	117	1979.....	7,446	4,062	54.5	3,250	38
						1980, est.....	8,350	4,166	50.0	4,023	34

¹ Includes agencies not shown separately. ² Excludes aircraft technology. ³ See footnote 2, table 1065.

Source: U.S. National Aeronautics and Space Administration, Aeronautics and Space Report of the President, annual. Data from U.S. Office of Management and Budget.

No. 1087. EMPLOYMENT ON NASA PROGRAMS: 1960 TO 1981

[In thousands of employees. As of June 30 except, beginning 1977, as of September 30. NASA = National Aeronautics and Space Administration]

YEAR	Total	NASA	Contractors ¹	YEAR	Total	NASA	Contractors ¹	YEAR	Total	NASA	Contractors ¹
1960.....	46.8	10.3	36.5	1967.....	306.9	33.7	273.2	1974.....	125.2	25.0	100.2
1961.....	74.6	17.1	57.5	1968.....	267.9	32.5	235.4	1975.....	127.7	24.3	103.4
1962.....	137.7	22.2	115.5	1969.....	218.3	31.7	186.6	1976.....	132.0	24.0	108.0
1963.....	246.3	27.9	218.4	1970.....	160.9	31.4	129.5	1977.....	124.1	23.6	100.5
1964.....	379.1	32.0	347.1	1971.....	143.6	29.5	114.1	1978.....	126.0	23.2	102.8
1965.....	409.9	33.2	376.7	1972.....	138.8	27.5	111.3	1979.....	(NA)	22.8	(NA)
1966.....	393.9	33.9	360.0	1973.....	134.9	26.9	108.0	1980, est.....	(NA)	22.6	(NA)
								1981, est.....	(NA)	22.7	(NA)

NA Not available. ¹ Employment by private firms with contracts to perform for NASA.

Source: Aerospace Industries Association of America, Inc., Washington, D.C., Aerospace Facts and Figures, 1980/81 (copyright).

NO. 1088. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION—OUTLAYS FOR RESEARCH AND DEVELOPMENT: 1965 TO 1980

[In millions of dollars, except percent. For years ending June 30 except, beginning 1977, ending Sept. 30. Performance includes research and development, and research and program management. Space science includes technology]

YEAR	Total outlays	Percent change	PERFORMANCE				FACILITIES			
			Total	Space flight	Space science, applications	Air transport and other	Total	Space flight	Space science, applications	Air transport and other
1965.....	5,093	122.1	4,562	3,138	1,126	298	531	401	78	52
1966.....	5,933	16.5	5,361	3,819	1,120	422	572	391	63	118
1967.....	5,426	-8.5	5,137	3,477	1,160	500	289	172	47	70
1968.....	4,726	-12.9	4,599	3,028	1,061	510	127	69	29	29
1969.....	4,252	-10.0	4,187	2,754	893	540	65	27	21	17
1970.....	3,753	-11.7	3,699	2,195	963	541	54	14	21	19
1971.....	3,382	-9.9	3,338	1,877	926	535	44	8	6	30
1972.....	3,423	1.2	3,373	1,727	1,111	535	50	13	7	30
1973.....	3,316	-3.1	3,271	1,532	1,220	519	45	5	11	29
1974.....	3,256	-1.8	3,181	1,448	1,156	577	75	25	12	38
1975.....	3,266	.3	3,181	1,500	1,076	606	85	35	9	42
1976.....	3,670	12.4	3,549	1,934	969	646	121	66	11	43
1977.....	3,945	7.5	3,840	2,195	1,002	643	105	56	4	45
1978.....	3,984	1.0	3,860	2,204	964	692	124	56	8	60
1979.....	4,196	5.3	4,063	2,175	1,144	744	133	41	9	83
1980, est.....	5,011	19.4	4,856	2,702	1,317	837	155	43	4	108

¹ Change from 1964.

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

NO. 1089. SPACE VEHICLE SYSTEMS—SALES AND BACKLOG ORDERS: 1965 TO 1979

[In millions of dollars. Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Excludes engines and propulsion units]

YEAR	NET SALES			BACKLOG ORDERS			YEAR	NET SALES			BACKLOG ORDERS		
	Total	Military	Non-military	Total	Military	Non-military		Total	Military	Non-military	Total	Military	Non-military
1965.....	2,449	602	1,847	2,203	503	1,700	1975.....	2,119	1,096	1,023	1,304	1,019	285
1970.....	1,956	1,025	931	1,184	786	398	1976.....	2,002	904	1,098	1,234	902	332
1971.....	1,725	860	865	916	603	313	1977.....	1,870	814	1,056	1,589	1,263	326
1972.....	1,666	905	751	959	646	313	1978.....	2,324	1,006	1,318	2,188	1,693	495
1973.....	1,562	902	660	1,177	923	254	1979.....	2,528	1,152	1,376	1,460	910	550
1974.....	1,751	944	807	1,492	1,131	361							

Source: Aerospace Industries Association of America, Inc., Washington, D.C., *Aerospace Facts and Figures, 1980/81* (copyright).

NO. 1090. SPACE LAUNCHINGS: 1957 TO 1979

[Criterion of success is attainment of Earth orbit or Earth escape by payload]

YEAR	UNITED STATES				Soviet Union successful launchings	YEAR	UNITED STATES				Soviet Union successful launchings
	Earth orbit		Earth escape				Earth orbit		Earth escape		
	Success	Failure	Success	Failure			Success	Failure	Success	Failure	
Total.....	941	129	79	15	1,707	1968.....	61	15	3	-	85
1957.....	-	1	-	-	2	1969.....	58	1	8	1	80
1958.....	5	8	-	4	-	1970.....	36	1	3	-	103
1959.....	9	9	1	2	3	1971.....	45	2	8	1	114
1960.....	16	12	1	2	3	1972.....	33	2	8	-	109
1961.....	35	12	-	2	8	1973.....	23	2	3	-	129
1962.....	55	12	4	1	26	1974.....	27	2	1	-	114
1963.....	62	11	-	-	20	1975.....	30	4	4	-	139
1964.....	69	8	4	-	39	1976.....	33	-	1	-	141
1965.....	93	7	4	1	52	1977.....	27	2	2	-	125
1966.....	94	12	7	1	52	1978.....	34	2	7	-	140
1967.....	78	4	10	-	75	1979.....	18	-	-	-	124

- Represents zero. ¹ Attained Earth orbit and included in Earth orbit success totals.

Source: Library of Congress, Science Policy Research Division, *United States and Soviet Progress in Space: Summary Data Through 1979 and A Forward Look*, January 1980.



Transportation— Land

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

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

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

Various censuses and surveys conducted by the U.S. Bureau of the Census also provide data. Results of the censuses of transportation are presented in *Commodity Transportation Survey*, *National Travel Survey*, and *Truck Inventory and Use Survey*. The *Annual Survey of Manufactures* and reports of the censuses of manufactures, wholesale and retail trade, and service industries contain statistics on the motor-vehicle and equipment industry and on retail, wholesale, and services aspects of this industry. Data on persons commuting to work were collected as part of the 1975 Annual Housing Survey and are contained in the 1975 report, *The Journey to Work*.

Data are also presented in many nongovernment publications. Among them are: The weekly and annual *Cars of Revenue Freight Loaded* and the annual *Yearbook of Railroad Facts*, both published by the Association of American Railroads, Washington, D.C.; *Bus Facts*, issued annually by the American Bus Association, Washington, D.C.; and the *Transit Fact Book*, containing electric railway and motorbus statistics, published annually by the American Public Transit Association, Washington, D.C. Useful annual handbooks in the field of motor-vehicle transport are *Motor Vehicle Facts and Figures*, issued by the Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich.; and *Accident Facts*, issued by the National Safety Council, Chicago, Ill.

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

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

Regulatory bodies.—The ICC, created by the U.S. Congress to regulate transportation in interstate commerce, has jurisdiction over railroads, trucking companies, bus lines, freight forwarders, water carriers, coal slurry pipelines, and transportation brokers. The Federal Energy Regulatory Commission is responsible for setting rates and charges for transportation and sale of natural gas and for establishing rates or charges for transportation of oil by pipelines.

Motor carriers.—For 1960-1973, class I for-hire motor carriers of freight were classified by the ICC as those with \$1 million or more of gross annual operating revenue; since 1974, the class I minimum has been \$3 million. For 1960-1968, class I motor carriers of passengers were classified by the ICC as those with \$200,000 or more of gross annual operating revenue; for 1969-1976, as those with revenues of \$1 million or more; and since 1977, as those with \$3 million or more.

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

For years prior to 1978, class I railroads were those with annual revenues of \$1 million or more for 1950-1955; \$3 million or more for 1956-1964; \$5 million or more for 1965-1975; and \$10 million or more for 1976-1977. Since 1978 the classification has been: Class I, those having more than \$50 million gross annual operating revenue; class II, from \$1 million to \$50 million; and class III, less than \$1 million.

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

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

NO. 1091. OPERATING REVENUES, BY TYPE OF TRANSPORT: 1950 TO 1978

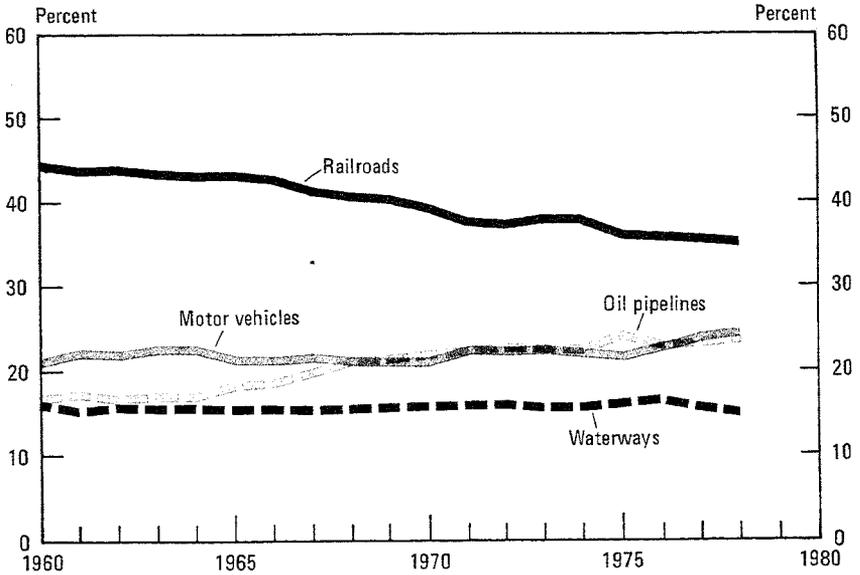
[Excludes Alaska and Hawaii, except as noted. Except for air carriers and beginning 1977, oil pipelines, data cover carriers regulated by U.S. Interstate Commerce Commission. See also *Historical Statistics, Colonial Times to 1970*, series Q 23-35]

TYPE OF TRANSPORT	1950	1955	1960	1965	1970	1975	1976	1977	1978
REVENUES (mil. dol.)									
Railroads ^{1,2} (class I, II)	9,924	10,590	9,955	10,738	12,511	17,400	19,630	21,300	22,600
Domestic certificated route air carriers ³	558	1,215	2,129	3,609	7,131	11,911	13,789	15,690	17,938
International certificated route air carriers ³	260	398	685	1,199	1,914	3,064	3,316	3,774	4,332
Charter air carriers ³	42	77	83	141	337	433	417	516	530
Motor carriers of property ^{2,4}	3,737	5,535	7,214	10,068	14,585	22,000	26,000	31,000	36,500
Motor carriers of passengers ^{2,4}	539	552	667	885	1,062	1,360	1,387	1,410	1,480
Oil pipelines, interstate ⁵	442	678	770	904	1,188	1,874	2,137	2,792	4,907
Waterlines ⁶	330	452	427	426	502	946	1,035	925	944
Electric railways	79	60	23	13	11	14	13	14	14
INDEX (1967 = 100)									
Railroads ^{1,2} (class I, II)	91	98	92	99	115	160	181	196	208
Domestic certificated route air carriers ³	11	25	44	74	146	244	282	321	368
International certificated route air carriers ³	15	22	39	68	108	173	187	213	246
Charter air carriers ³	16	30	32	54	130	167	161	199	203
Motor carriers of property ^{2,4}	33	49	64	89	129	195	230	274	323
Motor carriers of passengers ^{2,4}	57	58	71	94	112	144	147	149	157
Oil pipelines, interstate ⁵	44	68	77	91	119	188	215	281	493

¹ Includes Pullman (for 1950 to 1965), line-haul, and switching and terminal companies. ² Beginning 1960, includes Alaska and Hawaii. ³ Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Revenues for passenger/cargo operations. For certificated route air carriers, see also headnote, table 1160. Charter air carriers (see table 1162) cover domestic and international. ⁴ Class I, II, and III. ⁵ Beginning 1960, includes operations in Alaska. ⁶ Domestic (inland and coastal) traffic only.

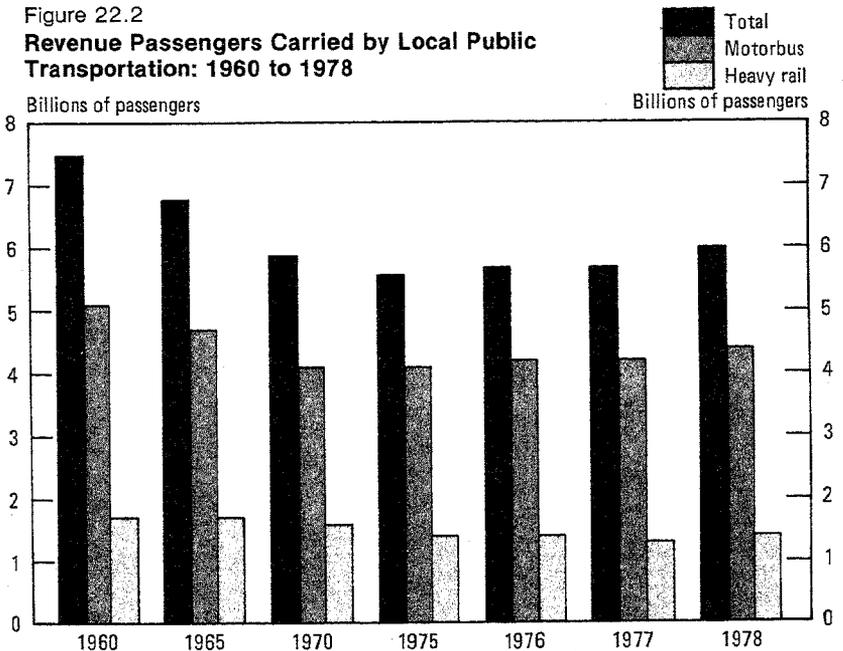
Source: Except as noted, U.S. Interstate Commerce Commission, *Annual Report; Statistics of Class I, II, and III Motor Carriers, 1939-1956* (Statement No. 589); *Transport Economics*, quarterly 1974-1979 (discontinued in 1979); and unpublished data.

Figure 22.1
Ton-Miles of Domestic Intercity Freight Traffic — Percent Distribution
by Type of Transportation: 1960 to 1978



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1094.

Figure 22.2
Revenue Passengers Carried by Local Public
Transportation: 1960 to 1978



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

NO. 1092. PASSENGER AND FREIGHT TRANSPORTATION OUTLAYS, BY TYPE OF TRANSPORT: 1960 TO 1978

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

TYPE OF TRANSPORT	1960	1965	1970	1971	1972	1973	1974	1975	1976	1977	1978
Total transportation outlays¹	104.0	141.1	194.7	216.8	224.5	270.8	291.3	311.3	359.4	407.1	457.9
Passenger, total.....	58.1	81.4	111.8	128.9	142.4	156.8	168.8	185.2	215.0	244.1	270.1
Private transportation.....	51.2	72.5	97.3	113.1	124.9	138.0	147.1	159.5	187.0	212.2	234.5
Automobiles ²	50.0	70.0	92.3	107.1	117.9	129.8	137.8	148.6	174.9	199.2	220.3
New and used cars.....	20.2	30.4	32.7	42.0	47.0	51.4	44.2	48.0	62.9	74.2	82.2
Tires, tubes, accessories.....	2.8	3.8	5.4	6.0	6.7	7.5	8.1	8.8	9.8	11.2	12.3
Gasoline and oil.....	14.4	19.6	29.3	31.2	33.2	37.1	48.5	52.7	57.2	62.3	67.9
Insurance less claims.....	2.3	2.8	4.3	5.6	6.2	6.0	5.8	4.4	6.2	8.7	10.1
Interest on debt.....	2.8	3.5	4.7	4.8	5.6	6.5	7.3	7.5	7.8	8.6	9.0
Registration and operator's permit fees.....	1.0	1.3	1.9	2.0	2.1	2.2	2.3	2.3	2.7	2.8	3.0
Repair, greasing, washing, parking, tolls ³	6.5	8.7	14.0	15.6	17.3	19.1	21.6	24.9	28.2	31.5	35.8
Small truck ⁴.....	.3	1.1	2.4	2.9	3.5	4.0	4.9	6.1	7.0	7.8	8.6
Air.....	.9	1.4	2.6	3.1	3.5	4.1	4.4	4.7	5.2	5.2	5.6
Aircraft.....	.2	.3	.4	.3	.6	.8	.8	1.0	1.2	1.5	1.7
Operating costs.....	.7	1.0	2.3	2.8	3.0	3.3	3.6	3.8	4.0	3.7	3.9
For-hire transportation.....	6.9	8.9	14.5	15.7	17.4	18.8	21.7	25.7	28.0	31.9	35.6
Local ⁵	2.8	3.2	4.6	4.9	5.2	5.5	6.1	9.1	9.1	10.2	11.4
Bus and transit ⁶	1.3	1.5	1.8	1.9	2.0	2.2	2.4	4.9	4.5	5.3	6.2
School bus.....	.5	.7	1.2	1.4	1.5	1.6	1.9	2.2	2.4	2.5	2.7
Taxi.....	.9	.9	1.4	1.5	1.5	1.5	1.6	1.8	2.0	2.2	2.2
Intercity ⁶	3.3	4.4	7.7	8.4	9.4	10.4	12.3	12.9	14.9	17.2	19.6
Air.....	2.1	3.3	6.6	7.3	8.2	9.1	10.8	11.2	13.0	14.9	17.1
Rail ⁷.....	.6	.5	.3	.3	.3	.4	.5	.6	.9	1.2	1.3
Bus.....	.6	.6	.8	.8	.8	.9	1.0	1.0	1.1	1.1	1.2
International.....	.9	1.3	2.2	2.4	2.6	2.9	3.3	3.7	4.0	4.5	4.7
Freight, total ⁸	46.8	61.1	83.8	93.4	103.9	117.5	124.5	126.0	145.8	167.2	192.6
Highway ⁹	31.5	43.8	62.5	70.9	80.2	90.5	93.7	95.3	110.7	129.3	147.4
Truck, intercity.....	18.0	23.6	33.6	37.5	40.0	44.6	48.8	47.4	56.2	67.4	79.6
ICC regulated.....	7.2	10.1	14.6	16.7	18.7	20.8	22.7	22.0	26.0	31.0	36.5
Non-ICC regulated.....	10.7	13.6	19.0	20.8	21.3	23.8	26.1	25.4	30.2	36.4	43.1
Truck, local ⁴	13.5	20.1	29.8	33.3	40.1	45.7	44.7	47.8	54.2	60.7	67.6
Rail.....	9.0	9.9	11.9	12.7	13.1	14.8	17.0	16.5	19.2	20.5	21.9
Water.....	3.3	3.8	5.1	5.2	5.6	6.8	8.0	7.9	8.9	10.3	12.4
Oil pipeline.....	.9	1.1	1.4	1.5	1.6	1.7	1.9	2.2	2.5	3.2	5.5

¹Total outlays adjusted to include Federal Government expenditures for public facilities (airways, airports, highways, ground transportation research and development programs, and Urban Mass Transportation Administration programs) and State government expenditures for highways not otherwise included in other items shown, less transport user charges. Estimated freight costs included in costs of new cars gasoline, oil, tires, and tubes excluded to prevent duplication. ²Includes business-owned vehicles. ³Includes storage and rental. ⁴Small trucks used predominantly for personal transportation included under "passenger". ⁵Includes items not shown separately. ⁶Includes Federal, State and local government operating subsidies and capital grants. ⁷Includes Federal operating subsidies and capital grants for Amtrak.

Source: Transportation Association of America, Washington, D.C., *Transportation Facts and Trends*, quarterly. (Copyright.)

NO. 1093. PERSONAL CONSUMPTION EXPENDITURES FOR TRANSPORTATION: 1960 TO 1978

[In billions of dollars, except percent. Represents market value of purchases of goods and services by individuals and nonprofit institutions]

TYPE OF PRODUCT OR SERVICE	1960	1965	1970	1973	1974	1975	1976	1977	1978
Total transportation expenditures	42.4	58.2	78.0	110.9	115.1	125.5	150.8	171.9	191.3
Percent of total personal consumption ¹	13.1	13.5	12.6	13.7	12.9	12.8	13.8	14.2	14.2
User-operated transportation.....	39.1	54.2	72.5	104.3	107.7	117.9	142.2	162.5	181.1
New autos.....	14.0	21.4	22.1	34.5	27.5	30.0	39.4	46.2	50.3
Net purchases of used autos.....	2.6	3.9	5.7	8.4	8.8	10.2	13.8	15.5	17.7
Other motor vehicles.....	.6	1.3	2.5	5.9	4.7	5.7	8.5	10.4	12.8
Tires, tubes, accessories, other parts.....	2.5	3.2	4.6	6.4	6.9	7.5	8.3	9.5	10.4
Repair, greasing, washing, parking ²	5.1	6.9	11.2	15.4	17.6	20.4	23.2	25.9	29.5
Gasoline and oil.....	12.0	14.7	22.0	27.8	36.4	39.5	42.9	46.7	50.9
Bridge, tunnel, ferry, road tolls.....	.3	.5	.6	.8	.8	.8	.8	.9	.9
Insurance premiums less claims paid.....	2.0	2.4	3.7	5.1	4.9	3.8	5.3	7.4	8.6
Purchased local transportation ³	2.0	2.1	2.5	2.6	2.8	3.0	3.3	3.5	3.7
Transit systems.....	1.3	1.3	1.6	1.6	1.7	1.8	1.9	2.1	2.2
Taxicab.....	.6	.6	.8	.8	.9	1.0	1.1	1.2	1.2
Purchased intercity transportation.....	1.3	1.9	3.0	3.9	4.6	4.6	5.3	6.0	6.5
Airline.....	.7	1.2	2.2	3.0	3.5	3.6	4.2	4.8	5.3
Bus.....	.3	.4	.5	.5	.6	.6	.6	.6	.7
Railway and other ⁴.....	.3	.3	.3	.4	.5	.4	.5	.5	.6

¹ See table 733. ²Includes rental and storage. ³Includes railway commutation. ⁴Railway excludes commutation; "other" consists of baggage charges, coastal and inland waterway fares, and travel agents' fees.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-74*, and *Survey of Current Business*, July issues.

NO. 1094. VOLUME OF DOMESTIC INTERCITY FREIGHT AND PASSENGER TRAFFIC, BY TYPE OF TRANSPORT: 1950 TO 1978

[Prior to 1960, excludes Alaska and Hawaii, except as noted. A ton-mile is the movement of 1 ton (2,000 pounds) of freight for the distance of 1 mile. A passenger mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1970*, series Q1-22]

TYPE OF TRANSPORT	1950	1955	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
	BILLIONS OF TON-MILES											
Total	1,094	1,298	1,330	1,651	1,936	2,071	2,232	2,212	2,066	2,202	2,307	2,436
Railroads ¹	628	655	595	721	771	783	858	852	759	800	834	868
Motor vehicles.....	173	223	285	359	412	470	505	495	454	510	555	602
Inland waterways ²	163	217	220	262	319	339	358	355	342	373	368	375
Oil pipelines.....	129	203	229	306	431	476	507	506	507	515	546	586
Domestic airways ^{3 4}.....	.3	.6	.8	1.9	3.3	3.7	3.9	3.9	3.7	3.9	4.2	4.6
PERCENT DISTRIBUTION												
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Railroads ¹	57.44	50.43	44.73	43.67	39.83	37.80	38.51	38.52	36.74	36.33	36.15	35.63
Motor vehicles.....	15.80	17.20	21.46	21.76	21.28	22.70	22.66	22.38	21.97	23.16	24.06	24.71
Inland waterways ²	14.93	16.68	16.56	15.89	16.46	16.35	16.08	16.05	16.55	16.94	15.95	15.39
Oil pipelines.....	11.81	15.66	17.19	18.56	22.26	22.98	22.75	22.87	24.54	23.38	23.67	24.06
Domestic airways ^{3 4}.....	.03	.04	.06	.12	.17	.18	.18	.18	.19	.18	.18	.19
BILLIONS OF PASSENGER-MILES												
Total	508	716	784	920	1,185	1,300	1,356	1,331	1,352	1,440	1,450	1,542
Private automobiles.....	438	637	706	818	1,026	1,129	1,174	1,143	1,164	1,236	1,234	1,298
Domestic airways ^{3 5}	10	23	34	58	119	133	143	146	148	165	176	204
Bus ⁶	26	25	19	24	25	26	26	28	26	25	26	25
Railroads ¹	32	29	22	18	11	9	9	10	10	10	10	11
Inland waterways ²	1.2	1.7	2.7	3.1	4.0	4.0	4.0	4.1	4.0	4.0	4.0	4.0
PERCENT DISTRIBUTION												
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Private automobiles.....	86.20	89.01	90.10	88.86	86.60	86.82	86.58	85.88	86.09	85.83	85.10	84.18
Domestic airways ^{3 5}	1.98	3.18	4.33	6.31	10.01	10.24	10.55	10.97	10.95	11.46	12.14	13.23
Bus ⁶	5.20	3.56	2.47	2.58	2.14	1.97	1.92	2.10	1.92	1.74	1.79	1.62
Railroads ¹	6.39	4.01	2.75	1.91	.92	.66	.67	.75	.74	.69	.69	.71
Inland waterways ².....	.23	.24	.34	.34	.34	.31	.29	.30	.30	.28	.28	.26

¹ Includes electric railways. Beginning 1970, freight traffic excludes mail and express. ² Includes Great Lakes. Freight traffic includes Alaska for all years and Hawaii beginning 1960. ³ Revenue service only for certificated route and charter carriers. ⁴ Includes express, mail, and excess baggage. ⁵ Includes private pleasure and business flying. ⁶ Excludes school bus.

Source: U.S. Interstate Commerce Commission, *Annual Report; Intercity Ton-Miles, 1939-1959* (Statement No. 6103); *Transport Economics*, quarterly (discontinued in 1979); and unpublished data.

NO. 1095. FEDERAL OUTLAYS FOR TRANSPORTATION, BY FUNCTION: 1965 TO 1980

(For years ending June 30 except, beginning 1977, ending Sept. 30, 1980 estimated)

FUNCTION	TOTAL OUTLAYS (mil. dol.)								PERCENT DISTRIBUTION			
	1965	1970	1975	1977	1978	1979	1980	1970	1975	1979	1980	
Total outlays ¹	5,746	7,006	10,388	14,636	15,444	17,459	19,631	100.0	100.0	100.0	100.0	
Ground transportation.....	4,105	4,678	6,501	10,037	10,355	12,064	13,571	66.8	62.6	69.1	69.1	
Highway construction ³	(NA)	(NA)	4,821	5,719	5,640	6,759	7,116	(NA)	46.4	38.7	36.2	
Highway safety.....	(NA)	(NA)	150	583	644	733	1,243	(NA)	1.4	4.2	6.3	
Mass transit.....	(NA)	(NA)	929	2,000	2,177	2,542	2,712	(NA)	8.9	14.6	13.8	
Railroads.....	(NA)	(NA)	555	1,676	1,829	1,962	2,321	(NA)	5.3	11.2	11.8	
Regulation.....	(NA)	(NA)	46	59	65	67	79	(NA)	.4	.4	.4	
Air transportation.....	944	1,422	2,408	2,816	3,277	3,392	3,779	20.3	23.2	19.4	19.2	
Airways and airports.....	(NA)	(NA)	2,029	2,369	2,778	2,850	3,124	(NA)	19.5	16.3	15.9	
Aeron. research and technology.....	(NA)	(NA)	316	344	398	443	532	(NA)	3.0	2.5	2.7	
Air carrier subsidies.....	(NA)	(NA)	64	80	77	72	94	(NA)	.6	.4	.5	
Regulation.....	(NA)	(NA)	(NA)	23	25	27	30	(NA)	(NA)	.2	.2	
Water transportation.....	730	913	1,459	1,749	1,854	1,977	2,250	13.0	14.0	11.3	11.5	
Marine safety and transportation.....	(NA)	(NA)	922	1,149	1,273	1,424	1,570	(NA)	8.9	8.2	8.0	
Ocean shipping.....	(NA)	(NA)	537	591	571	543	668	(NA)	5.2	3.1	3.4	
Regulation.....	(NA)	(NA)	(NA)	8	9	10	12	(NA)	(NA)	.1	.1	
Other.....	1	26	74	76	61	93	102	.4	.7	.5	.5	

NA Not available. ¹ Total reflects deductions for offsetting receipts. ² Includes \$100 million (.5 percent) for transportation energy initiatives, not shown separately. ³ Includes improvement.

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

No. 1096. 50 LARGEST TRANSPORTATION COMPANIES—REVENUES AND ASSETS, BY RANK OF OPERATING REVENUES: 1960 TO 1979

[In billions of dollars, except percent. Revenues include nontransportation activities; assets as of end of companies' fiscal years. Companies listed derive more than 50 percent of their operating revenues from the transport of passengers and/or freight (e.g., railroads, airlines, motor carriers, pipelines); excludes companies primarily engaged in freight forwarding, express shipping, or vehicle rental]

OPERATING REVENUE GROUP	REVENUES					ASSETS				
	1960	1970	1975	1978	1979	1960	1970	1975	1978	1979
50 largest, total	11.8	23.0	38.6	56.0	63.0	30.7	46.4	53.1	71.3	73.4
Lowest ten .....	.7	1.0	1.7	2.7	3.1	1.3	1.8	2.3	2.4	2.0
Second ten	1.1	1.4	3.0	4.6	5.0	1.9	1.7	3.0	6.1	5.1
Third ten	1.8	2.5	4.6	7.3	8.5	5.5	3.8	5.3	14.8	9.2
Fourth ten	2.7	5.6	10.5	13.8	15.4	7.6	12.7	18.1	18.1	21.4
Highest ten	5.5	12.6	18.8	27.6	31.0	14.4	26.4	24.5	29.9	35.8
Percent, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lowest ten	6.1	4.4	4.4	4.8	4.9	4.2	3.8	4.3	3.4	2.7
Second ten	9.4	5.9	7.8	8.2	8.0	6.2	3.6	5.6	8.5	6.9
Third ten	15.1	10.8	11.9	13.0	13.5	18.1	8.3	10.0	20.8	12.5
Fourth ten	23.0	24.1	27.2	24.6	24.5	24.7	27.4	34.1	25.4	29.1
Highest ten	46.3	54.8	48.7	49.3	49.1	46.8	55.9	46.1	41.9	48.8

Source: Time, Inc., New York, N.Y.; adopted from *The Fortune Directory*, July issues. (Copyright.)

No. 1097. EMPLOYMENT IN TRANSPORTATION, BY TYPE OF TRANSPORT: 1965 TO 1979

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

TYPE OF TRANSPORT	NUMBER (1,000)							PERCENT				
	1965	1970	1975	1976	1977	1978	1979	1965	1970	1975	1978	1979
Total	2,532	2,684	2,636	2,680	2,782	2,911	3,037	100.0	100.0	100.0	100.0	100.0
Trucking ¹	882	999	1,024	1,068	1,132	1,222	1,286	34.9	37.2	38.8	42.0	42.3
Public warehousing	82	84	84	81	88	90	91	3.2	3.1	3.2	3.1	3.0
Railroads	735	634	548	538	545	536	546	29.0	23.6	20.8	18.4	18.0
Class I railroads ²	640	566	498	494	502	490	503	25.3	21.1	18.9	16.8	16.5
Airlines ³	229	352	363	374	386	405	423	9.0	13.1	13.8	13.9	13.9
Local and interurban passengers	269	269	270	264	262	258	261	10.6	10.0	10.2	8.9	8.6
Waterlines ³	230	213	195	195	196	212	225	9.1	8.0	7.4	7.3	7.4
Pipelines ⁴	20	18	18	18	19	20	19	.8	.7	.7	.7	.6
Transportation services	85	115	134	142	156	169	186	3.4	4.3	5.1	5.8	6.1

¹ Includes terminals. ² See text, p. 636. ³ Covers establishments engaged in domestic and/or international service.

⁴ Oil and other commodities, except natural gas.

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

No. 1098. INTERCITY CARRIERS OF SMALL SHIPMENT TRAFFIC—REVENUES, BY TYPE OF CARRIER: 1965 TO 1978

[Covers shipments of less than 10,000 pounds by intercity carriers regulated by Interstate Commerce Commission]

TYPE OF CARRIER	TOTAL (mil. dol.)								PERCENT			
	1965	1970	1973	1974	1975	1976	1977	1978 ¹	1965	1970	1975	1978 ¹
Total revenues	5,229	7,408	10,195	11,359	11,034	13,049	13,837	15,151	100	100	100	100
Motor carriers, class I and II ³	3,100	4,193	5,799	6,569	6,030	7,300	8,407	9,403	59	57	55	62
Railroads, class I and II ⁴	53	37	26	26	18	17	22	23	1	(Z)	(Z)	(Z)
Bus express	61	102	115	122	131	152	154	173	1	1	1	1
Water and maritime carriers	14	11	11	7	8	16	9	5	(Z)	(Z)	(Z)	(Z)
Air freight	322	812	1,229	1,376	1,558	1,795	(NA)	(NA)	6	11	14	(Z)
United Parcel Service ⁵	93	420	832	922	1,175	1,228	2,329	2,776	2	6	11	18
Freight forwarder	459	594	962	1,111	1,158	1,653	1,894	1,857	9	8	10	12
Parcel post	686	929	954	954	957	888	1,022	914	13	13	9	6

NA Not available. X Not applicable. Z Less than .5 percent. ¹ Preliminary. ² Includes REA Express, which declared bankruptcy in 1975. ³ Less than truckload. ⁴ Less than carload. ⁵ Data are for intercity shipments only.

Source: U.S. Interstate Commerce Commission, *Transport Economics*, vol. V, No. 1, 1978, and unpublished data.

NO. 1099. TRANSPORTATION ACCIDENTS, AND RESULTING DEATHS AND INJURIES, BY TYPE OF TRANSPORT: 1970 TO 1979

[Data for waterborne carriers are for years ending June 30 except, beginning 1977, ending Sept. 30; all other data for calendar year. For motor vehicle data, see also tables 1110-1112; for railroad data, see also tables 1140 and 1152; for air carrier and general aviation data, see tables 1157 and 1160]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT							Hazardous materials ^a	
		Motor vehicle ¹ (1,000)	Rail-road ²	Air carrier ³	General aviation	Recreational boating ⁴	Gas pipelines ⁵	Liquid pipelines ⁶		Water-borne ⁷
Accidents:										
1970.....	16,021	16,000	8,095	55	4,712	3,803	1,304	347	2,582	(NA)
1975.....	16,524	16,500	8,041	45	4,237	3,308	1,425	257	3,305	10,779
1976.....	16,827	16,800	10,248	28	4,193	7,199	1,351	212	4,211	11,898
1977.....	17,627	17,600	10,362	26	4,286	6,815	1,698	237	3,574	15,954
1978.....	18,328	18,300	11,277	25	4,608	6,529	1,508	278	4,268	18,022
1979.....	^a 18,121	18,100	9,832	33	4,238	5,116	1,814	221	(NA)	17,522
Deaths:										
1970.....	56.5	52.6	785	146	1,310	1,418	38	4	178	(NA)
1975.....	48.2	44.5	575	124	1,345	1,466	23	7	190	27
1976.....	50.0	45.5	510	45	1,320	1,264	68	5	269	18
1977.....	52.1	47.9	534	655	1,436	1,312	37	3	216	3
1978.....	54.1	50.3	582	163	1,548	1,321	37	3	179	46
1979.....	^a 54.7	51.1	552	353	1,311	1,342	41	4	(NA)	18
Injuries:										
1970.....	2,025	2,000	21,327	274	1,894	780	347	21	105	(NA)
1975.....	1,859	1,800	54,306	194	1,929	2,136	819	17	74	655
1976.....	1,870	1,800	65,331	230	1,816	1,838	340	4	153	820
1977.....	1,972	1,900	67,867	218	1,921	1,779	443	15	136	750
1978.....	2,077	2,000	72,545	311	1,847	1,761	452	9	119	1,132
1979.....	(NA)	2,000	74,073	(NA)	1,764	2,340	(NA)	12	(NA)	942

NA Not available. ¹Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1110. Other data are from National Safety Council. ²Number of accidents covers only those accidents which result in damages to railroad property exceeding amounts specified by the U.S. Federal Railroad Administration. The reporting threshold was raised from \$750 to \$1,750 in 1975 and to \$2,300 in 1977. Deaths exclude fatalities in railroad-highway grade crossing accidents. ³Covers certificated route and charter air carriers, commercial operators of large aircraft (beginning 1975), and deregulated carriers (beginning 1979). ⁴Accidents are required to be reported to U.S. Coast Guard whenever they result in a death; a person's losing consciousness or receiving medical treatment or being disabled for more than 24 hours; damages exceeding \$100; or a person's disappearance. ⁵Accidents as reported on incident/accident reports filed during reporting year. Fatalities and injuries as reported in annual report. ⁶Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. ⁷Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding \$1,500; material damage affecting the sea-worthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. ⁸Accidents, deaths, and injuries involving hazardous materials cover all types of transport. ⁹Excludes waterborne.

Source: U.S. Transportation Systems Center, Cambridge, Mass., *Transportation Safety Information Report*, quarterly.

NO. 1100. RURAL AND MUNICIPAL HIGHWAY MILEAGE, BY GOVERNMENTAL CONTROL: 1950 TO 1978

[In thousands, except percent. As of Dec. 31. Prior to 1960, excludes Alaska and Hawaii. Municipal roads are those within incorporated places, densely populated New England towns, and certain of the more populous unincorporated areas. All other roads are classed as rural. For definition of surfaced roads, see footnote 1, table 1104. See also *Historical Statistics, Colonial Times to 1970*, series Q 50, 51, and 55]

MILEAGE AND CONTROL	1950	1955	1960	1965	1970	1973	1974	1975	1976	1977	1978
Total mileage.....	3,313	3,418	3,546	3,690	3,730	3,807	3,816	3,838	3,857	3,867	3,885
Rural mileage.....	2,990	3,045	3,116	3,183	3,169	3,176	3,178	3,199	3,209	3,180	3,190
Percent surfaced.....	55.2	63.8	69.5	72.3	76.1	76.7	77.2	77.6	78.2	78.6	79.4
Under State control.....	580	620	659	687	707	711	706	711	711	702	703
Under local control.....	2,336	2,393	2,345	2,346	2,275	2,249	2,248	2,261	2,264	2,235	2,255
Under Federal control.....	73	93	112	150	168	216	224	227	234	242	232
Municipal mileage.....	323	373	430	506	561	631	638	639	648	687	694
Under State control.....	36	42	50	65	74	82	84	84	87	86	87
Under local control.....	287	331	379	442	487	550	554	555	561	600	607
Federal-aid highway system:¹											
Primary.....	234	235	265	269	272	268	268	266	307	310	311
Interstate ²	(X)	(X)	10	21	32	35	36	37	38	39	39
Urban.....	(X)	(X)	(X)	(X)	(X)	(X)	17	37	65	124	131
Secondary.....	410	514	601	640	647	655	651	643	392	400	403

X Not applicable. ¹Beginning 1976, data by system not comparable with prior years due to changes in classification. ²Highway mileage open to traffic.

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

NO. 1101. HIGHWAY MILEAGE OF RURAL ROADS: 1960 TO 1978

(In thousands. As of Dec. 31. For definition of rural roads, see headnote, table 1100. For definition of surfaced roads, see footnote 1 table 1104. See also *Historical Statistics, Colonial Times to 1970*, series Q 51-54)

ITEM	TOTAL RURAL MILEAGE					SURFACED RURAL				
	1960	1965	1970	1975	1978	1960	1965	1970	1975	1978
Total	3,116	3,183	3,169	3,199	3,190	2,165	2,302	2,411	2,483	2,534
Primary State highways.....	403	414	408	412	402	399	410	405	409	400
Secondary roads under State control.....	241	249	273	268	271	211	226	253	251	255
County roads.....	1,742	1,740	1,733	1,739	1,706	1,128	1,203	1,265	1,310	1,318
Other roads under local control.....	603	607	542	522	548	393	408	417	421	442
National and State parks, forests, etc.....	127	173	213	258	262	34	55	71	92	118

NO. 1102. RECEIPTS AND DISBURSEMENTS FOR HIGHWAYS, BY TYPE: 1970 TO 1978

(In millions of dollars. Data compiled from reports of State and local authorities. For Federal highway trust fund receipts, disbursements, and balances, see table 440. State data include District of Columbia)

TYPE	1970			1975			1978		
	Total ¹	Federal	State	Total ¹	Federal	State	Total ¹	Federal	State
Total receipts	21,747	6,124	11,720	29,160	7,676	15,105	34,927	9,686	17,755
Current income.....	19,861	6,124	10,415	26,921	7,676	13,693	33,185	9,686	16,813
Imposts on highway users ²	15,311	5,295	9,688	18,578	5,699	12,387	22,352	7,006	14,769
Other taxes and fees.....	3,732	598	396	6,605	1,250	768	8,611	1,754	1,302
Investment income and other receipts.....	818	231	331	1,738	727	538	2,222	926	742
Bond issue proceeds ³	1,886	-	1,305	2,239	-	1,412	1,742	-	942
Intergovernmental payments ⁴	(x)	-4,750	+2,364	(x)	-6,595	+3,019	(x)	-7,423	+3,069
Funds drawn from (+) or placed in (-) reserves.....	-912	-943	+16	-461	-452	+66	-1,706	-1,439	-545
Total funds available.....	20,835	431	14,100	28,699	629	18,190	33,221	824	20,279
Total disbursements	20,835	431	14,100	28,699	629	18,190	33,221	824	20,279
Current disbursements.....	19,583	431	13,318	27,207	629	17,282	31,542	824	19,310
Capital outlay.....	11,575	262	9,327	14,398	327	11,011	14,567	452	11,005
Maint. and traffic services.....	4,720	46	1,967	7,286	89	2,987	9,862	114	4,095
Admin. and research.....	1,275	123	719	1,981	213	1,124	2,583	258	1,530
Law enforcement and safety.....	1,303	-	800	2,413	-	1,337	3,066	-	1,886
Interest on debt.....	710	-	505	1,129	-	823	1,364	-	994
Debt retirement.....	1,252	-	782	1,492	-	908	1,679	-	969

- Represents zero. X Not applicable. ¹ Includes other levels of government not shown separately.

² Excludes amounts later allocated for nonhighway purposes.

³ Par value. Excludes issue and redemption of short-term

notes or refunding bonds. Premiums and discounts on sale of bonds and accrued interest are included with investment income and other receipts. Redemption premiums and discounts are included with interest on debt. ⁴ Plus sign (+) indicates net receipt of funds from other levels of government; minus sign (-) indicates net disbursement of funds to other levels.

NO. 1103. PUBLIC HIGHWAY DEBT—STATE AND LOCAL GOVERNMENTS: 1960 TO 1980

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

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979 ¹	1980 ²
Total debt issued ³	1,206	1,070	1,886	1,657	2,239	2,224	2,230	1,742	1,623	1,850
State.....	680	586	1,305	946	1,412	1,462	1,183	942	773	900
County and local rural.....	190	169	174	230	222	198	339	200	225	275
Municipal.....	336	315	407	581	605	564	708	600	625	675
Total debt redeemed ⁴	616	855	1,252	1,445	1,492	1,567	1,848	1,679	1,712	1,744
State.....	300	459	762	887	908	920	960	969	982	984
County and local rural.....	96	123	152	163	166	172	178	185	190	200
Municipal.....	220	273	318	395	418	475	510	525	540	560
Total debt outstanding	13,166	15,316	19,107	23,016	23,801	24,455	25,037	25,100	25,011	25,117
State.....	9,384	10,905	13,903	16,918	17,422	17,964	18,187	18,160	17,951	17,867
County and local rural.....	1,280	1,363	1,685	1,775	1,822	1,846	2,002	2,022	2,057	2,132
Municipal.....	2,502	3,048	3,519	4,323	4,557	4,645	4,843	4,918	5,003	5,118

¹ Preliminary. ² Estimated. ³ Excludes refunding issues. ⁴ Excludes redemptions by refunding.

Source of tables 1101-1103: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

NO. 1104. MUNICIPAL AND RURAL HIGHWAY MILEAGE, 1970 TO 1978, AND FEDERAL AID HIGHWAY MILEAGE, 1978—STATES

[As of Dec. 31. For definition of municipal and rural roads, see headnote, table 1100. Compiled for latest available year from reports of State authorities and planning survey data. A State's total mileage may decrease because of abandonment of roads and elimination of curves, circuitous routes, and natural obstacles]

STATE	1970, total (1,000)	1975, total (1,000)	1978								
			Total (1,000)	Municipal (1,000)	Rural			Federal-aid highway system			
					Total (1,000)	Percent		Primary		Urban	Secondary
						Sur-faced ¹	Under local control	Total	Inter-state ²		
U.S.	3,730.1	3,838.1	3,885.5	694.7	3,190.8	80.2	70.7	310,605	39,412	132,828	400,501
Ala.....	78.9	86.5	87.0	19.3	67.7	94.9	70.8	7,829	770	2,298	11,203
Alaska.....	7.3	9.9	9.9	1.7	8.3	³ 59.8	² 21.7	3,673	-	114	2,668
Ariz.....	42.7	51.6	57.5	10.8	46.7	74.8	46.7	4,659	1,101	1,705	3,707
Ark.....	78.9	77.8	74.2	10.6	63.6	85.4	75.3	5,881	524	890	7,036
Calif.....	164.1	171.1	176.3	62.2	114.1	62.5	52.8	13,391	2,204	16,091	11,046
Colo.....	82.3	85.5	87.3	9.1	78.2	⁴ 65.8	87.6	5,240	866	2,206	3,470
Conn.....	18.4	18.9	¹ 19.1	¹ 13.6	¹ 5.5	⁴ 99.3	¹ 72.7	1,645	281	2,816	931
Del.....	4.9	5.2	³ 5.2	³ 1.0	⁴ 4.2	³ 99.8	³ 2.4	487	41	284	628
D.C.....	1.1	1.1	³ 1.1	³ 1.1	(x)	(x)	(x)	90	12	320	-
Fla.....	89.5	101.5	97.1	26.6	70.5	67.6	84.5	9,185	1,149	5,058	4,602
Ga.....	100.0	101.5	103.0	16.4	86.6	72.6	81.8	11,791	1,118	2,991	14,269
Hawaii.....	3.5	3.8	3.9	1.1	2.8	99.3	64.3	670	34	202	468
Idaho.....	56.0	57.5	64.0	3.6	60.4	49.2	41.4	3,237	594	492	4,151
Ill.....	129.9	131.5	133.2	30.7	102.6	94.4	86.7	13,065	1,670	6,328	12,766
Ind.....	91.0	91.2	90.9	16.3	74.5	99.2	86.7	6,168	1,115	4,786	8,717
Iowa.....	112.1	112.4	112.1	13.4	98.8	94.6	90.7	9,968	729	2,295	13,219
Kans.....	134.0	134.7	134.9	11.8	123.0	75.0	91.8	8,946	797	1,416	22,541
Ky.....	89.1	70.1	68.8	6.3	62.5	93.1	61.4	4,659	679	1,779	7,328
La.....	52.8	54.7	55.4	10.4	45.0	95.1	66.2	4,141	623	1,474	7,601
Maine.....	21.4	21.6	21.8	3.0	18.8	93.8	41.0	2,304	310	663	2,748
Md.....	26.3	25.9	27.0	4.4	22.5	99.8	74.2	2,787	334	1,929	2,046
Mass.....	29.1	32.8	33.6	27.2	6.4	97.4	87.5	2,755	420	5,489	2,208
Mich.....	114.7	118.8	119.4	20.2	99.2	48.7	89.1	8,547	1,111	5,450	17,291
Minn.....	127.7	128.4	127.9	19.2	108.7	90.9	88.3	10,241	817	1,969	16,246
Miss.....	66.8	67.5	68.5	7.8	60.7	97.7	83.2	6,737	652	1,512	11,784
Mo.....	115.3	117.0	117.6	18.2	99.3	94.8	69.3	8,049	1,094	2,159	18,097
Mont.....	78.3	78.2	77.9	2.7	75.2	61.7	78.7	6,688	1,042	328	4,709
Nebr.....	100.4	97.1	96.7	7.3	89.4	82.3	88.5	7,774	481	962	11,450
Nev.....	49.7	49.7	49.9	1.8	48.1	31.2	89.6	2,961	479	369	2,459
N.H.....	14.8	15.3	15.6	5.4	10.1	81.2	70.3	1,358	198	603	1,286
N.J.....	32.1	33.0	⁴ 33.1	⁴ 19.6	⁴ 13.5	⁴ 95.6	⁴ 88.1	2,000	311	5,204	1,933
N.Mex.....	67.3	70.6	72.0	5.5	66.5	98.3	71.4	5,215	960	672	3,302
N.Y.....	105.8	108.6	109.0	44.0	65.0	95.2	82.9	9,824	1,256	8,376	6,417
N.C.....	86.0	90.8	91.9	16.1	75.9	80.9	-	5,506	734	1,626	10,560
N.Dak.....	106.9	106.0	107.1	4.0	103.2	66.4	92.2	6,179	571	326	10,374
Ohio.....	108.9	110.6	111.2	24.5	86.7	98.4	80.0	8,101	1,482	7,442	11,807
Okla.....	107.9	109.4	109.7	16.2	93.5	78.1	87.5	6,319	803	2,160	8,175
Oreg.....	95.1	104.5	112.2	8.5	103.8	63.8	33.1	5,655	701	1,801	7,673
Pa.....	115.2	115.2	118.5	34.0	84.5	86.6	51.4	11,830	1,500	6,709	8,031
R.I.....	5.3	5.5	⁴ 5.8	⁴ 3.6	⁴ 2.2	⁴ 95.2	⁴ 72.7	528	75	831	161
S.C.....	59.7	60.9	61.6	7.4	54.2	69.6	36.9	6,542	697	965	8,927
S.Dak.....	84.2	82.3	82.5	3.2	79.3	78.1	86.8	6,548	626	380	10,923
Tenn.....	78.7	81.3	82.1	12.7	69.3	97.8	86.4	7,403	1,009	2,241	9,647
Tex.....	245.5	255.9	262.1	63.0	199.2	71.3	68.1	20,174	2,954	7,227	33,031
Utah.....	40.4	48.9	49.0	5.2	43.8	41.9	49.3	3,516	752	750	2,681
Vt.....	14.5	13.9	⁴ 14.0	⁴ 1.6	⁴ 12.4	⁴ 93.0	⁴ 77.4	1,467	310	220	1,982
Va.....	61.1	62.8	64.8	10.5	54.2	96.4	1.7	6,615	918	3,040	10,462
Wash.....	75.1	84.3	83.9	10.6	73.3	⁴ 80.2	55.7	6,005	653	4,049	7,187
W.Va.....	35.5	37.0	37.5	3.7	33.8	74.0	-	2,939	465	781	6,378
Wis.....	103.2	105.2	106.2	16.2	90.0	94.5	88.9	9,662	522	2,733	11,938
Wyo.....	40.6	32.6	34.5	1.5	33.0	57.0	71.8	3,851	868	317	2,235

- Represents zero. X Not applicable. ¹Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. ²Highway mileage open to traffic. ³1976 data. ⁴1977 data.

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

NO. 1105. DESIGNATED FEDERAL-AID PROJECTS—TOTAL, 1960 TO 1978, AND BY STATES AND PUERTO RICO, 1978

[For years ending June 30 except, beginning 1977, ending Sept. 30. Projects comprise those financed from the Federal-aid primary, secondary, urban, rural, TOPICS (urban traffic operations program to increase capacity and safety), and interstate funds. See text, pp. 635 and 636. Cost data represent cumulative costs for projects completed during year shown and for projects still under construction at end of year shown. See also *Historical Statistics, Colonial Times to 1970*, series Q 65-68]

YEAR AND STATE	COMPLETED DURING YEAR			UNDER CONSTRUCTION			STATE OR OTHER AREA	COMPLETED DURING YEAR			UNDER CONSTRUCTION		
	Miles	Cost		Miles	Cost			Miles	Cost		Miles	Cost	
		Total ¹ (mil. dol.)	Percent Federal		Total ¹ (mil. dol.)	Percent Federal			Total (mil. dol.)	Percent Federal		Total (mil. dol.)	Percent Federal
1960.....	28,830	3,652	68.6	25,538	7,080	73.2	Mass.....	75	190	80.0	96	543	82.0
1965.....	18,783	4,563	74.3	25,883	12,228	78.4	Mich.....	427	199	76.4	702	632	79.7
1970.....	10,935	4,355	75.0	20,831	14,547	77.4	Minn.....	375	111	79.3	533	469	82.1
1974.....	8,081	4,433	75.1	14,186	17,900	77.9	Miss.....	63	36	77.8	405	327	77.1
1975.....	7,161	4,218	76.1	15,952	20,104	79.3	Mo.....	75	100	75.0	431	510	78.2
1976.....	8,381	5,140	77.0	17,156	20,753	80.4	Mont.....	312	99	85.9	474	239	81.6
1977.....	9,358	5,818	78.5	19,411	21,742	80.7	Nebr.....	352	54	75.9	432	98	72.4
1978, total ¹	9,503	5,296	79.3	21,116	29,250	80.8	Nev.....	24	37	81.9	130	177	93.2
U.S.....	9,488	5,287	79.3	21,075	23,165	80.9	N.H.....	24	24	87.5	95	71	77.5
Ala.....	62	138	84.8	467	650	78.0	N.J.....	39	70	75.7	139	709	77.3
Alaska.....	184	43	95.3	336	200	95.0	N. Mex.....	40	30	83.3	191	226	87.6
Ariz.....	135	139	89.2	401	337	92.3	N. Y.....	228	275	72.4	510	1,207	79.5
Ark.....	74	42	78.6	176	165	77.3	N.C.....	121	142	83.8	419	614	77.0
Calif.....	522	118	82.2	2,207	1,832	85.6	N. Dak.....	423	46	76.1	913	120	75.8
Colo.....	176	79	83.5	115	299	86.0	Ohio.....	312	265	74.3	454	857	78.6
Conn.....	5	19	84.2	267	377	83.8	Okla.....	157	69	69.6	225	276	79.7
Del.....	11	20	85.0	21	58	75.9	Oreg.....	154	86	90.7	111	254	89.4
D.C.....	7	28	89.3	12	154	75.3	Pa.....	224	180	63.3	520	2,040	78.0
Fla.....	430	208	74.0	667	889	79.9	R.I.....	25	27	59.3	58	83	74.7
Ga.....	466	99	77.8	2,747	833	80.0	S.C.....	280	65	81.5	317	221	79.6
Hawaii.....	12	19	73.7	17	283	80.2	S. Dak.....	219	29	79.3	475	86	77.9
Idaho.....	172	100	87.0	137	80	87.5	Tenn.....	267	299	79.9	374	242	76.9
Ill.....	450	286	80.1	421	522	77.8	Tex.....	412	280	77.1	820	940	80.1
Ind.....	63	99	74.7	198	203	73.9	Utah.....	166	81	92.6	198	250	91.6
Iowa.....	492	91	73.6	533	247	78.9	Vt.....	123	35	88.6	128	41	78.0
Kans.....	193	86	75.8	488	293	79.9	Va.....	165	324	84.6	287	713	83.5
Ky.....	27	63	71.4	162	456	77.9	Wash.....	200	88	81.8	464	510	88.2
La.....	45	140	83.6	171	725	80.3	W. Va.....	20	107	85.0	81	643	86.0
Maine.....	64	22	81.8	156	105	81.9	Wis.....	325	67	74.6	901	301	75.7
Md.....	119	25	72.0	406	959	82.5	Wyo.....	78	28	85.7	145	79	88.6
							P. Rico.....	15	9	44.4	41	85	65.9

¹ Excludes highway planning and research work (1978, total: Completed, \$147 million total cost, \$100 million Federal funds; underway, \$323 million total cost, \$230 million Federal funds).

Source: U.S. Federal Highway Administration, *Federal Aid and Allied Highway Programs, annual, and Highway Statistics, annual.*

NO. 1106. FEDERAL-AID PAYMENTS TO STATE AND LOCAL GOVERNMENTS FOR HIGHWAY CONSTRUCTION—STATES AND PUERTO RICO: 1970 TO 1979

[In millions of dollars. For years ending June 30 except, beginning 1978, ending Sept. 30]

STATE	1970	1975	1978	1979	STATE	1970	1975	1978	1979	STATE OR OTHER AREA	1970	1975	1978	1979
Total.....	4,524	4,874	6,022	7,205	Ill.....	185	204	201	270	N.C.....	62	92	163	195
Highway trust fund.....	4,336	4,583	5,749	6,762	Ind.....	100	64	106	149	N. Dak.....	24	31	41	48
Other.....	188	291	273	444	Iowa.....	63	88	115	133	Ohio.....	243	208	199	259
U.S.....	4,520	4,860	6,004	7,179	Kans.....	50	68	71	99	Okla.....	56	57	70	81
Ala.....	82	95	156	192	Ky.....	96	98	100	194	Oreg.....	70	95	90	118
Alaska.....	40	80	109	78	La.....	110	113	166	125	Pa.....	238	267	183	119
Ariz.....	68	89	121	136	Maine.....	21	23	29	56	R.I.....	29	17	16	20
Ark.....	43	50	84	85	Md.....	66	122	124	162	S.C.....	35	47	69	99
Calif.....	503	350	360	451	Mass.....	94	72	125	124	S. Dak.....	39	36	39	45
Colo.....	57	78	125	127	Mich.....	160	174	184	193	Tenn.....	102	125	119	149
Conn.....	65	50	68	73	Minn.....	108	86	122	161	Tex.....	227	224	326	333
Del.....	10	13	21	26	Miss.....	57	58	53	73	Utah.....	71	54	55	67
D.C.....	32	13	19	11	Mo.....	106	122	142	203	Vt.....	29	25	26	24
Fla.....	69	166	246	263	Mont.....	62	45	85	84	Va.....	112	179	225	306
Ga.....	64	115	151	277	Nebr.....	38	58	53	56	Wash.....	93	113	155	202
Hawaii.....	33	43	40	56	Nev.....	35	26	64	67	W. Va.....	116	190	118	124
Idaho.....	37	42	59	50	N.H.....	21	26	33	37	Wis.....	42	47	127	155
					N.J.....	110	97	91	135	Wyo.....	38	33	47	45
					N. Mex.....	55	60	81	85	Undist.....	-	3	18	29
					N.Y.....	256	229	413	529	P. Rico.....	4	14	118	127

- Represents zero. ¹ Includes \$4 million in 1978 and \$2 million in 1979 for other U.S. outlying areas.

Source: U.S. Dept. of the Treasury, *Federal Aid to States, annual.*

No. 1107. DISBURSEMENTS OF STATE HIGHWAY FUNDS—TOTAL, 1975 TO 1978, AND BY PURPOSE, 1978, BY STATES

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

STATE	1975, total	1977, total	1978			STATE	1975, total	1977, total	1978		
			Total ¹	State highways					Total ¹	State highways	
				Capital outlays ²	Maintenance ³					Capital outlays ²	Maintenance ³
U.S.	21,131	21,440	23,880	10,016	4,038	Mo.....	448	442	527	282	118
Ala.....	364	426	489	263	49	Mont.....	123	168	155	86	18
Alaska.....	254	244	227	101	60	Nebr.....	210	206	227	87	30
Ariz.....	270	278	315	147	43	Nev.....	85	112	118	68	18
Ark.....	283	288	317	163	60	N.H.....	92	123	125	52	35
						N.J.....	510	476	561	131	127
Calif.....	1,497	1,543	1,616	404	212	N. Mex.....	142	147	254	98	104
Colo.....	239	294	318	138	53	N.Y.....	1,129	1,103	1,582	775	227
Conn.....	351	293	328	104	56	N.C.....	541	612	662	323	153
Del.....	90	124	124	55	16	N. Dak.....	97	111	120	56	17
D.C.....	77	90	83	-	-	Ohio.....	877	903	976	302	132
Fla.....	781	759	866	452	97	Okla.....	290	313	347	127	56
Ga.....	487	479	595	310	74	Oreg.....	318	290	325	96	54
Hawaii.....	105	109	105	57	13	Pa.....	1,485	1,358	1,247	294	399
						R.I.....	52	51	58	16	17
Idaho.....	119	153	144	57	26	S.C.....	255	293	277	144	63
Ill.....	1,189	1,048	1,130	448	135	S. Dak.....	98	109	119	47	27
Ind.....	529	466	528	156	109	Tenn.....	467	436	486	232	51
Iowa.....	409	415	469	195	51	Tex.....	984	892	1,112	707	207
Kans.....	262	278	334	142	57	Utah.....	125	143	146	74	23
Ky.....	515	558	670	357	106	Va.....	76	81	82	27	18
La.....	545	495	549	335	66	Wash.....	574	705	843	463	233
Maine.....	117	135	154	66	50	Wis.....	417	471	554	226	98
Md.....	443	466	465	109	54	W. Va.....	417	445	523	258	136
Mass.....	415	470	358	103	33	Wis.....	371	379	413	148	54
Mich.....	794	857	834	243	87	Wyo.....	116	107	130	83	19
Minn.....	358	441	532	263	67						
Miss.....	339	317	361	146	30						

- Represents zero. ¹Includes funds for administration and miscellaneous, highway law enforcement, and miscellaneous, bond interest, bond redemption, and for county and local roads and streets. ²Outlays for roads and bridges. ³Includes traffic services.

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

No. 1108. HIGHWAY CONSTRUCTION—CONTRACTS AWARDED: 1960 TO 1979

[In millions of dollars. Covers contracts awarded and force-account work authorized by State agencies for highways, including Federal-State, Federal-State-Local, and State-Local cooperative work, and a small amount by the Federal government for National Park and Forest roads, etc. Work on local roads and streets is included only when contracted or performed by the State or when Federal funds are involved]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Total	4,039	4,825	6,506	6,462	7,154	7,187	6,037	7,542	8,904	10,778
Federally aided contracts	3,174	3,921	4,915	4,598	5,257	5,967	5,030	6,169	6,861	8,667
Federal funds	2,292	3,001	3,657	3,379	4,222	4,824	4,004	4,968	5,504	7,122
Non-Federally aided contracts.....	865	904	1,592	1,864	1,897	1,220	1,007	1,373	2,043	2,111
Toll facilities.....	226	49	49	146	13	11	35	21	13	84

Source: U.S. Federal Highway Administration, *Monthly Highway Construction Contracts*.

NO. 1109. MOTOR-VEHICLE TRAVEL, BY TYPE OF VEHICLE, AND SPEED: 1960 TO 1978

[Travel in billions of vehicle-miles, except as indicated. Travel estimates based on automatic traffic recorder data. Urban travel includes all travel in municipalities and urbanized areas. All other travel is classed as rural. Speed trend data for 1960-1975 were collected by several State highway agencies, normally during summer months; beginning Oct. 1975 all States have monitored speeds at locations on several highway systems as part of 55 mile per hour Speed Limit Monitoring Program. Minus sign (-) denotes decrease. For definition of average annual percent change, see Guide to Tabular Presentation. See also *Historical Statistics, Colonial Times to 1970*, series Q 199-207]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
Total travel.....	719	888	1,121	1,268	1,309	1,286	1,330	1,412	1,477	1,548
Avg. annual percent change.....	3.6	4.3	4.8	6.4	3.2	-1.8	3.5	6.2	4.6	4.6
Passenger cars ²	588	712	901	1,004	1,037	1,013	1,051	1,098	1,141	1,194
Rural.....	303	339	406	436	444	427	441	462	475	501
Urban.....	285	378	495	568	592	586	610	637	666	694
Buses.....	4.4	4.8	5.0	5.1	5.1	5.1	5.1	5.1	5.8	5.9
Rural.....	2.3	2.6	2.8	3.0	2.9	3.0	3.0	3.2	3.2	3.2
Urban.....	2.1	2.2	2.2	2.1	2.1	2.1	2.2	2.6	2.7	2.9
Trucks and combinations.....	126	171	215	260	267	268	275	308	330	348
Rural.....	82	103	134	151	154	153	157	163	176	186
Urban.....	45	69	81	108	113	114	118	145	153	162
Average miles per vehicle (1,000):										
Passenger vehicles.....	9.5	9.3	9.6	10.0	9.8	9.2	9.4	9.5	9.6	9.8
Passenger cars ²	9.4	9.3	9.8	10.0	9.8	9.2	9.4	9.5	9.6	9.8
Buses.....	16.0	15.2	13.3	12.6	11.7	11.3	11.1	12.0	12.0	12.1
Trucks.....	10.6	11.6	11.5	12.2	11.5	10.9	10.6	11.1	11.1	11.0
Motor vehicle speed (1,000): ³										
Vehicles recorded.....	(NA)	(NA)	200	160	181	203	102	515	500	468
Avg. speed, all vehicles (miles per hr).....	54.8	60.6	63.8	64.9	65.0	57.6	57.6	58.2	58.8	58.8
Percent of vehicles exceeding—										
55 m.p.h.....	47	72	87	89	89	65	68	69	74	74
60 m.p.h.....	24	51	69	71	72	29	27	32	35	36
65 m.p.h.....	(NA)	(NA)	44	49	50	9	7	10	10	10

NA Not available. ¹ Change from 1955. ² Includes taxicabs and motorcycles. ³ Based on free flow speed of vehicles recorded on level, straight sections of rural interstate highways during off-peak hours. Beginning 1976, for year ending Sept. 30.

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

NO. 1110. MOTOR VEHICLE ACCIDENTS—NUMBER AND DEATHS: 1960 TO 1979

[1979 data preliminary. See also *Historical Statistics, Colonial Times to 1970*, series Q 208 and Q 224-232]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Motor-vehicle accidents ¹	Mil	10.4	13.2	16.0	16.6	15.6	16.8	17.6	18.3	(NA)	(NA)
Cars.....	Mil	16.0	20.3	23.5	23.3	20.6	22.5	23.1	23.9	24.6	(NA)
Trucks.....	Mil	2.0	2.6	3.2	3.7	3.4	3.8	4.1	4.7	5.5	(NA)
Motorcycles.....	1,000	100	235	305	378	376	372	402	460	480	(NA)
Motor vehicle deaths within 1 yr. ²	1,000	38.1	49.2	54.6	55.5	46.4	45.9	47.0	49.5	51.5	51.9
Noncollision accidents ³	1,000	11.9	14.9	15.4	15.6	12.8	12.7	13.0	13.7	13.6	14.1
Collision accidents:											
With other motor vehicles.....	1,000	14.8	20.8	23.2	23.6	19.7	19.5	20.1	21.2	22.9	23.9
With pedestrians.....	1,000	7.9	6.9	9.9	10.2	8.5	8.4	8.6	9.1	9.3	9.5
With fixed objects ³	1,000	1.7	2.2	3.6	3.8	3.1	3.1	3.2	3.4	3.5	3.3
Deaths within 30 days ⁴	1,000	36.4	47.1	52.6	54.1	45.2	44.5	45.5	47.9	50.3	51.1
Vehicle occupants.....	1,000	27.9	36.8	40.6	40.8	33.3	32.7	33.8	35.0	37.0	37.0
Pedestrians.....	1,000	7.2	8.0	8.9	8.9	7.5	7.5	7.4	7.7	7.8	8.1
Motorcyclists ⁵	1,000	.8	1.6	2.3	3.2	3.4	3.2	3.3	4.1	4.6	4.9
Bicyclists.....	1,000	.5	.7	.8	1.1	1.0	1.0	.9	.9	.9	.9
Traffic death rates: ⁴ ⁶											
Per 100,000 resident population.....	Rate	20.2	24.3	25.8	25.8	21.4	20.9	21.2	22.1	23.1	23.2
Per 100,000 registered vehicles.....	Rate	48.9	51.3	47.3	41.6	33.5	32.3	31.7	32.5	32.8	32.0
Per 100 million vehicle miles.....	Rate	5.1	5.3	4.7	4.1	3.5	3.4	3.3	3.3	3.3	3.3
Per 100,000 licensed drivers.....	Rate	41.7	47.8	47.2	44.5	36.0	34.3	34.0	34.7	35.7	35.7
Motor vehicle accidents ⁷	Mil	11.4	14.7	22.1	25.6	23.7	24.9	25.4	26.7	27.7	26.7
Injuries ⁷	1,000	3,078	3,982	4,983	5,192	4,634	4,978	5,269	5,575	5,798	5,681
Economic loss ⁷ ⁸	Bil. dol	10.2	14.2	23.5	30.4	30.4	36.1	40.9	46.5	52.6	56.4

NA Not available. ¹ Covers only accidents occurring on the road. ² Deaths that occur within one year of accident. Includes collision categories not shown separately. ³ Beginning 1970, not comparable with previous years due to classification change. ⁴ Within 30 days of accident. Source: U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System Annual Report*. ⁵ Includes motor scooters and motorized bicycles (mopeds). ⁶ Based on 30-day definition of traffic deaths. ⁷ Source: Insurance Information Institute, New York, N.Y., *Insurance Facts*. Estimates based on official reports from a representative cross-section of States. Includes all motor vehicle accidents on and off the road and all injuries regardless of length of disability. ⁸ Wage loss; legal, medical, hospital, and funeral expenses; insurance administrative costs; and property damage.

Source: Except as noted, National Safety Council, Chicago, Ill., *Accident Facts*, annual. (Copyright.)

NO. 1111. ESTIMATED LICENSED DRIVERS AND DRIVERS INVOLVED IN FATAL ACCIDENTS, BY AGE-GROUP OF DRIVER: 1979

ITEM	Unit	Total	Under 20 years old	20-24 years old	25-34 years old	35-44 years old	45-54 years old	55-64 years old	65 years old and over
Licensed drivers.....	1,000.....	143,092	12,019	19,173	34,629	24,040	20,892	17,743	14,596
Percent distribution.....	Percent.....	100.0	8.4	13.4	24.2	16.8	14.6	12.4	10.2
Drivers involved in fatal accidents.....	1,000.....	63.8	10.8	13.8	16.5	8.5	5.9	4.4	3.9
Percent distribution.....	Percent.....	100.0	16.9	21.6	25.9	13.3	9.3	6.9	6.1

Source: U.S. Federal Highway Administration, *Drivers Licenses*, annual, and U.S. National Highway Traffic Safety Administration, *Fatal Accident Reporting System Annual Report*.

NO. 1112. DEATHS FROM MOTOR-VEHICLE ACCIDENTS—BY STATES: 1970 TO 1978

[Data differ from table 1110 because data are based on date of death, not date of accident. Data reflect State where death occurred. Includes deaths of nonresidents of U.S. Deaths classified according to the Eighth Revision of the International Classification of Diseases, adapted for use in the United States. Data based on Vital Registration System, see Appendix III]

STATE	1970	1974	1975	1976	1977	1978	STATE	1970	1974	1975	1976	1977	1978
U.S.	54,845	46,629	46,032	47,268	49,740	52,653	Mo.....	1,479	1,066	1,105	1,239	1,235	1,271
Ala.....	1,297	1,118	1,087	1,139	1,225	1,295	Mont.....	340	301	294	307	321	278
Alaska.....	107	74	120	133	127	119	Nebr.....	435	392	385	400	359	357
Ariz.....	782	765	713	777	969	1,044	Nev.....	278	235	236	240	290	332
Ark.....	595	525	577	525	540	585	N.H.....	182	170	155	150	150	166
Calif.....	5,114	4,204	4,414	4,670	5,127	5,680	N.J.....	1,289	1,101	1,099	1,035	1,089	1,148
Colo.....	697	654	621	658	738	735	N. Mex.....	568	558	556	557	648	678
Conn.....	448	400	404	413	455	460	N. Y.....	3,117	2,483	2,277	2,233	2,351	2,549
Del.....	158	132	129	135	122	140	N.C.....	1,801	1,605	1,560	1,582	1,477	1,568
D.C.....	140	91	91	81	86	68	N. Dak.....	194	168	183	208	199	205
Fla.....	2,181	2,280	2,067	2,021	2,104	2,332	Ohio.....	2,488	1,786	1,652	1,848	1,795	2,021
Ga.....	1,825	1,598	1,420	1,301	1,484	1,548	Okl.....	787	742	748	858	887	948
Hawaii.....	163	138	153	157	164	214	Oreg.....	739	693	582	664	696	754
Ideho.....	320	326	291	290	341	331	Pa.....	2,349	2,157	2,102	2,061	2,035	2,119
Ill.....	2,267	1,700	1,816	2,027	2,151	2,172	R.I.....	143	120	140	136	155	131
Ind.....	1,587	1,253	1,139	1,273	1,268	1,312	S.C.....	1,070	895	837	834	862	919
Iowa.....	946	722	714	812	643	661	S. Dak.....	240	249	216	238	225	204
Kans.....	684	530	531	563	576	580	Tenn.....	1,525	1,383	1,280	1,280	1,351	1,387
Ky.....	1,081	812	885	900	979	908	Tex.....	3,570	3,127	3,472	3,240	3,638	3,976
La.....	1,194	855	993	1,007	1,110	1,185	Utah.....	354	263	285	282	377	403
Maine.....	288	225	235	234	216	246	Va.....	116	110	124	95	108	110
Md.....	809	756	686	682	699	752	Vt.....	1,251	1,095	1,069	1,062	1,182	1,109
Mass.....	918	978	895	827	790	918	Wash.....	902	808	804	862	981	1,052
Mich.....	2,172	1,863	1,811	1,955	1,982	2,083	W. Va.....	561	463	499	518	527	507
Minn.....	1,028	858	798	832	864	993	Wis.....	1,109	908	943	951	958	981
Miss.....	947	694	629	719	750	875	Wyo.....	210	200	210	257	254	249

Source: U.S. National Center for Health Statistics, *Vital Statistics of the United States*, annual, and unpublished data.

NO. 1113. AUTOMOBILE INSURANCE: 1960 TO 1979

[In millions of dollars, except as indicated. 1960 and 1965, direct premiums earned and direct losses incurred; 1970-1979, premiums earned basis. See also *Historical Statistics, Colonial Times to 1970*, series Q 163-174]

ITEM	1960	1965	1970	1975	1976	1977	1978		1979	
							Private passenger	Commercial	Private passenger	Commercial
Companies reporting.....	(NA)	(NA)	925	1,275	1,315	1,363	1,381		1,399	
Total insurance:										
Premiums earned.....	6,448	8,358	14,612	23,860	23,970	29,074	29,087	3,306	31,353	4,013
Losses paid ¹	3,645	5,221	11,198	19,657	18,541	20,264	20,426	2,329	23,204	2,926
Percent of premiums.....	56.5	62.5	76.6	82.4	77.4	69.7	70.2	70.4	74.0	72.9
Bodily injury liability: ²										
Premiums earned.....	4,060	5,515	9,559	15,150	15,087	18,130	17,888	2,109	19,054	2,490
Losses paid ¹	2,372	3,484	7,547	12,277	11,599	13,063	12,686	1,566	14,110	1,906
Percent of premiums.....	58.4	63.2	79.0	81.0	76.9	72.1	70.9	74.2	74.1	76.5
Physical damage: ³										
Premiums earned.....	2,388	2,843	5,053	8,710	8,883	10,944	11,199	1,197	12,299	1,523
Losses paid ¹	1,273	1,737	3,651	7,380	6,941	7,201	7,740	763	9,094	1,020
Percent of premiums.....	53.3	61.1	72.3	84.7	78.1	65.8	69.1	63.8	73.9	67.0

NA Not available. ¹ Beginning 1970, includes adjusting expenses. ² Includes property damage. ³ Covers auto fire, theft, collision, and comprehensive.

Source: 1960 and 1965, The Spectator, Philadelphia, Pa., *Insurance by States*; thereafter, the National Underwriter Co., Cincinnati, Ohio, *Argus F. C. & S. Chart*, annual (copyright).

NO. 1114. MOTOR VEHICLES—REGISTRATIONS AND FACTORY SALES: 1950 TO 1979

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

YEAR	REGISTRATIONS ¹ (mil.)				FACTORY SALES					AVERAGE ANNUAL PERCENT CHANGE	
	Total cars, trucks, buses	Pas-senger cars and taxis	Trucks and buses	Motor-cycle registrations ¹ (1,000)	Number (1,000)			Wholesale value ²		Registra-tions ⁴	Factory sales ⁴
					Total cars, trucks, buses	Pas-senger cars	Trucks and buses ²	Pas-senger cars (mil. dol.)	Trucks and buses ³ (mil. dol.)		
1950	49.2	40.4	8.8	454	8,003	6,666	1,337	8,468	1,708	⁵ 7.4	⁵ 21.0
1955	52.7	52.1	10.6	412	9,169	7,920	1,249	12,453	2,021	5.0	2.8
1960	73.9	61.7	12.2	574	7,869	6,675	1,194	12,164	2,361	3.3	-3.0
1965	90.4	75.3	15.1	1,382	11,057	9,306	1,752	18,380	3,794	4.1	7.0
1967	96.9	80.4	16.5	1,953	8,976	7,437	1,539	16,853	3,592	3.5	-9.9
1968	100.9	83.6	17.3	2,089	10,718	8,822	1,896	19,352	4,670	4.1	10.4
1969	105.1	86.9	18.2	2,316	10,147	8,224	1,923	18,751	4,937	4.2	-5.3
1970	108.4	89.2	19.2	2,824	8,239	6,547	1,692	14,630	4,820	3.2	-18.8
1971	113.0	92.7	20.3	3,444	10,638	8,585	2,053	21,410	5,964	4.2	29.1
1972	118.8	97.1	21.7	3,760	11,271	8,824	2,447	23,133	7,954	5.1	6.0
1973	125.7	102.0	23.7	4,371	12,637	9,658	2,980	26,240	9,544	5.8	12.1
1974	129.9	104.8	25.1	4,966	10,059	7,331	2,727	21,553	10,163	3.4	-20.4
1975	132.9	106.7	26.2	4,964	8,985	6,713	2,272	23,400	9,900	2.3	-10.7
1976	138.5	110.4	28.2	4,969	11,480	8,500	2,979	(NA)	(NA)	4.2	27.8
1977	142.4	112.3	30.1	4,879	12,842	9,201	3,441	(NA)	(NA)	2.8	10.1
1978	148.8	116.6	32.2	4,859	12,871	9,165	3,706	(NA)	(NA)	4.5	1.8
1979	⁶ 154.4	⁶ 120.5	⁶ 33.9	⁶ 4,984	11,456	8,419	3,037	(NA)	(NA)	3.8	-11.0

NA Not available. ¹Excludes Alaska and Hawaii prior to 1960. Includes publicly owned vehicles. Excludes military services' vehicles. ²Includes standard equipment. ³A substantial part of trucks and buses reported comprises chassis without body; hence, excludes value of bodies for these chassis. ⁴Excludes motorcycles. ⁵Change from 1945. ⁶Estimate.

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

NO. 1115. MOTOR VEHICLES—ESTABLISHMENTS, SALES, PAYROLL, AND EMPLOYMENT FOR SELECTED KINDS OF BUSINESS: 1972 AND 1977

KIND OF BUSINESS	ESTABLISHMENTS ¹ (1,000)		SALES OR RECEIPTS ² (mil. dol.)		ANNUAL PAYROLL ³ (mil. dol.)		PAID EMPLOYEES ⁴ (1,000)	
	1972	1977	1972	1977	1972	1977	1972	1977
RETAIL TRADE								
Automotive dealers	121.4	139.0	90,030	149,952	8,622	13,304	1,035.4	1,114.7
Motor vehicle dealers.....	64.2	67.8	77,833	128,828	7,099	10,654	805.1	832.7
Auto and home supply stores.....	37.5	47.0	7,543	12,861	1,103	1,928	167.7	205.5
Misc. automotive dealers.....	19.6	24.2	4,654	8,263	420	722	62.6	76.5
Gasoline service stations	226.5	176.5	33,655	56,468	2,974	3,830	747.7	672.7
WHOLESALE TRADE								
Motor vehicles and auto equipment	36.5	38.9	83,015	147,112	3,414	5,148	391.8	423.2
Automobiles and other motor vehicles.....	5.6	6.2	57,755	107,784	1,008	1,567	102.3	114.3
Automotive equipment.....	27.0	28.8	19,930	31,616	2,009	3,024	246.1	266.2
Tires and tubes.....	3.9	3.9	5,330	7,713	397	557	43.4	42.7
SERVICES								
Auto repairs, services, and garages	169.0	200.2	12,081	21,576	2,553	4,456	392.5	483.2
Automobile repair shops.....	127.2	154.2	7,045	12,770	1,699	3,090	237.9	316.3
Automobile parking.....	10.5	8.9	725	1,008	175	211	37.3	33.9
Car, truck rental and leasing; other services.....	31.3	37.1	4,311	7,798	679	1,155	117.3	133.0
MANUFACTURING⁵								
Motor vehicles and equipment	3.4	4.2	22,057	36,880	9,462	15,996	807.4	873.0
Motor vehicles.....	.2	.3	11,783	18,672	4,300	7,059	339.2	342.6
Motor vehicle parts and accessories.....	2.1	2.6	9,165	16,265	4,602	8,015	400.9	451.3
Truck and bus bodies.....	.8	.8	956	956	354	432	42.6	35.0
Motor homes.....	.3	.1	660	350	206	171	24.7	16.2
Truck trailers.....	.3	.4	449	637	206	319	24.7	27.9

¹As of Dec. 31; for wholesale trade and manufacturing, represents only establishments employing one or more workers at any time during year. ²For retail trade, 1972 data include and 1977 data exclude sales taxes and carrying charges. For manufacturing, data represent value added in manufacturing. ³Comprises salaries, wages, commissions, bonuses, vacation pay, and other remuneration. ⁴Pay period including Mar. 12, except quarterly average for manufacturing. ⁵1977 are preliminary.

Source: U.S. Bureau of the Census, *Census of Retail Trade: 1972*, vol. 1 and 1977, RC 77-A-52; *Census of Wholesale Trade, 1972*, vol. 1 and 1977 WC 77-A-52; *Census of Selected Service Industries: 1972*, vol. 1 and *Census of Service Industries: 1977* SC 77-A-52; and *Census of Manufacturers: 1972*, series MC 72(2) and 1977, series MC-77-1, 37A.

NO. 1116. MOTOR-VEHICLE REGISTRATIONS, 1960 TO 1979, AND DRIVERS LICENSES, 1978, BY STATES

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

STATE	AUTOMOBILES, TRUCKS, AND BUSES ¹								Motor- cycles (incl. offi- cial) ¹ est.	DRIVERS LICENSES, 1978			
	1960, total	1965, total	1970, total	1975, total	1978, total	1979, est.		Percent change ²		Total ³	Percent—		
						Total	Auto- mobiles (incl. cabs)	1960- 1970, total			1970- 1979, total	Male	Under 25 yr. old
U.S.....	73,058	90,358	108,418	132,949	148,778	154,412	120,485	46.8	42.4	4,984	140,844	53.7	21.9
Ala.....	1,282	1,663	1,966	2,493	2,776	2,863	2,105	53.4	45.6	70	2,160	53.2	22.3
Alaska.....	81	109	139	226	262	268	168	71.6	92.8	11	221	58.4	23.5
Ariz.....	624	825	1,093	1,459	1,665	1,776	1,261	75.2	62.5	72	1,613	55.4	23.2
Ark.....	708	914	1,043	1,283	1,459	1,502	999	47.3	44.0	31	1,367	53.5	21.6
Calif.....	7,799	9,989	11,901	13,891	15,577	15,973	12,343	52.6	34.2	662	15,020	52.3	21.3
Colo.....	924	1,158	1,442	1,925	2,534	2,694	2,021	56.1	86.8	124	1,996	52.3	23.9
Conn.....	1,107	1,415	1,733	1,949	2,181	2,229	2,051	56.5	28.6	78	2,061	49.5	20.5
Del.....	192	244	312	351	386	396	322	62.5	26.9	9	403	51.6	22.9
D.C.....	206	236	257	255	240	229	212	24.8	-10.9	4	349	55.0	16.4
Fla.....	2,367	3,037	4,120	5,395	6,916	7,191	5,939	74.1	74.5	153	6,868	54.1	19.9
Ga.....	1,512	1,990	2,584	3,211	3,855	3,789	2,975	70.9	46.6	107	3,214	52.6	22.7
Hawaii.....	231	310	405	462	534	548	460	75.3	35.3	6	534	55.8	21.3
Idaho.....	375	434	488	647	763	796	485	30.1	63.1	50	588	53.1	26.9
Ill.....	3,776	4,437	5,238	6,344	7,093	7,353	6,080	38.7	40.4	257	6,854	53.6	22.8
Ind.....	2,046	2,427	2,818	3,315	3,739	3,878	2,910	37.7	37.6	159	3,530	52.2	22.5
Iowa.....	1,325	1,549	1,790	2,099	2,327	2,425	1,786	35.1	35.5	84	2,021	53.0	23.3
Kans.....	1,163	1,369	1,548	1,805	1,935	1,978	1,377	33.1	27.8	84	1,778	52.1	23.2
Ky.....	1,198	1,500	1,763	2,245	2,544	2,648	1,834	47.2	50.2	62	2,038	54.8	23.5
La.....	1,177	1,442	1,742	2,188	2,565	2,678	1,899	48.0	53.7	76	2,259	53.7	26.2
Maine.....	374	424	510	648	708	726	544	36.4	42.4	40	683	53.0	20.6
Md.....	1,155	1,481	1,872	2,423	2,699	2,789	2,331	62.1	49.0	74	2,550	52.7	21.4
Mass.....	1,803	2,104	2,575	3,107	3,636	3,744	3,295	42.8	45.4	85	3,726	50.8	20.7
Mich.....	3,306	3,991	4,569	5,545	6,245	6,488	5,300	38.2	42.0	256	6,250	52.7	25.5
Minn.....	1,592	1,890	2,207	2,525	2,683	2,754	2,012	38.6	24.8	138	2,235	52.6	22.6
Miss.....	723	921	1,117	1,377	1,574	1,648	1,178	54.5	47.5	30	1,588	55.5	25.2
Mo.....	1,720	2,085	2,408	2,866	3,158	3,238	2,406	40.1	34.5	86	3,164	52.6	23.2
Mont.....	373	429	485	611	826	902	563	30.0	86.0	61	580	55.7	22.3
Nebr.....	734	849	974	1,165	1,222	1,242	858	32.7	27.5	51	1,061	52.3	24.6
Nev.....	175	266	355	464	590	631	465	102.9	77.7	22	527	53.5	22.6
N.H.....	256	331	390	485	650	682	583	52.3	74.9	47	613	52.9	21.5
N.J.....	2,401	2,980	3,586	4,155	4,555	4,762	4,284	49.4	32.8	90	4,497	50.9	20.0
N. Mex.....	426	525	637	827	989	1,048	661	49.5	64.5	46	803	51.3	28.2
N.Y.....	5,067	5,939	6,718	7,591	7,867	8,350	7,335	32.6	24.3	156	9,126	56.2	18.2
N.C.....	1,720	2,156	2,826	3,690	4,296	4,489	3,386	64.3	58.8	95	3,599	52.4	23.8
N. Dak.....	345	396	428	551	599	617	390	24.1	44.2	28	403	53.1	26.2
Ohio.....	4,087	4,935	5,974	7,179	7,912	8,141	6,441	46.2	36.3	236	8,179	60.4	19.7
Okla.....	1,184	1,438	1,713	2,113	2,436	2,542	1,715	44.7	48.4	119	1,874	51.2	23.8
Oreg.....	919	1,119	1,369	1,628	1,921	1,996	1,486	49.0	45.8	75	1,827	54.0	21.4
Pa.....	4,287	4,968	5,818	7,059	7,712	6,898	5,793	35.7	18.6	185	7,071	55.7	19.9
R.I.....	341	406	488	563	655	674	590	43.1	38.1	26	581	52.5	19.0
S.C.....	879	1,094	1,360	1,772	1,924	1,964	1,541	54.7	45.9	35	1,814	53.0	23.4
S. Dak.....	354	398	426	521	581	599	369	20.3	40.6	27	470	52.8	26.6
Tenn.....	1,307	1,655	2,050	2,727	2,911	3,021	2,401	56.8	47.4	81	2,694	52.7	19.7
Tex.....	4,457	5,610	6,693	8,396	10,152	10,681	7,720	50.2	59.6	218	8,569	52.7	22.9
Utah.....	417	525	664	845	962	1,004	684	59.2	51.2	56	773	51.9	26.1
Vt.....	152	175	229	287	361	377	305	50.7	64.6	20	328	52.7	21.0
Va.....	1,426	1,800	2,263	3,251	3,439	3,516	2,996	58.7	55.4	73	3,259	50.9	22.7
Wash.....	1,377	1,659	2,102	2,540	2,960	3,113	2,254	52.7	48.1	110	2,485	53.2	21.3
W. Va.....	601	696	801	966	1,172	1,208	863	33.3	50.8	48	1,423	52.7	21.9
Wis.....	1,600	1,839	2,182	2,591	2,828	2,898	2,284	36.4	32.8	152	2,899	52.9	23.6
Wyo.....	207	225	247	337	406	436	255	19.3	76.5	19	319	54.2	26.6

¹ Excludes vehicles owned by military services. ² Minus sign (-) denotes decrease. ³ Estimated from data reported by States for current and previous years; allowance has been made for deaths, emigration, or revocation by some States. Source: U.S. Federal Highway Administration, *Highway Statistics*, annual, and *Drivers Licenses*, annual.

No. 1117. MOTOR VEHICLES—SUMMARY STATISTICS: 1965 TO 1979

ITEM	1965	1970	1974	1975	1976	1977	1978	1979
SALES, EXPORTS, IMPORTS, AND SCRAPPAGE								
Passenger car factory sales (1,000).....	9,306	6,547	7,331	6,713	8,500	9,201	9,165	8,419
Passenger car (new), retail sales ¹ (1,000).....	9,332	8,405	8,867	8,640	10,110	11,185	11,312	10,671
Domestic ² (1,000).....	8,763	7,116	7,449	7,050	8,607	9,104	9,308	8,328
Subcompact ³	(NA)	1,338	786	700	632	953	1,191	1,671
Compact ³	(NA)		1,781	2,336	2,804	2,364	2,391	2,130
Standard ³	(NA)		3,062	1,956	2,394	2,769	2,647	2,134
Intermediate ³	(NA)	5,778	1,819	2,058	2,778	3,018	3,079	2,393
Imports ⁴ (1,000).....	569	1,285	1,413	1,587	1,498	2,076	2,000	2,330
Passenger cars (new), exported ^{1,5} (1,000).....	106	285	601	640	680	697	706	793
Passenger cars (new), imported ^{1,6} (1,000).....	559	2,013	2,573	2,075	2,537	2,791	3,025	3,006
Canada (1,000).....	29	693	818	734	826	850	833	677
Germany, Federal Republic of (1,000).....	377	675	620	370	350	424	416	496
Japan (1,000).....	26	381	792	696	1,129	1,342	1,563	1,617
Truck and bus factory sales (1,000).....	1,752	1,692	2,272	2,272	2,979	3,441	3,706	3,037
Truck and bus retail sales ⁷ (1,000).....	1,539	1,746	2,587	2,351	3,044	3,486	3,914	3,236
Light duty (up to 14,000 GVW ⁸) (1,000).....	(NA)	(NA)	2,184	2,076	2,763	3,145	3,547	2,861
Med. duty (14,001-26,000 GVW) ⁸ (1,000).....	(NA)	(NA)	224	169	162	172	164	152
Heavy duty (over 26,000 GVW ⁸) (1,000).....	101	126	179	106	119	169	203	223
Imports, new passenger cars ¹ (mil. dol.).....	640	3,719	7,544	7,483	9,399	11,077	14,072	14,852
Trucks and buses, new ¹ (mil. dol.).....	33	381	646	620	834	1,258	2,146	1,841
Exports ¹ (mil. dol.).....	2,198	3,871	8,604	10,658	12,046	12,544	14,548	16,590
Passenger cars (new) ⁹ (mil. dol.).....	393	822	2,303	3,228	3,228	3,568	3,629	4,642
Trucks and buses (new) ⁹ (mil. dol.).....	328	636	1,422	2,305	2,141	2,998	2,752	3,147
Parts and accessories ¹⁰ (mil. dol.).....	1,476	2,413	4,879	5,501	6,678	6,877	8,173	8,801
Vehicles retired from use ^{11,12} (1,000).....	6,440	8,298	8,241	6,576	7,926	9,902	9,333	11,228
Passenger cars (1,000).....	5,704	7,461	7,194	5,669	6,829	8,234	7,907	9,312
Trucks and buses (1,000).....	736	837	1,047	908	1,097	1,668	1,426	1,916
Average age of cars in use (years).....	5.90	5.55	5.72	5.99	6.16	6.23	6.32	6.41
Average age of trucks in use (years).....	7.98	7.33	6.97	6.94	6.97	6.93	6.86	6.89
Motorcycle registrations, new ^{12,13} (1,000).....	545	751	1,011	747	783	849	797	861
Motorcycle imports, total ¹⁴ (1,000).....	(NA)	1,091	1,543	948	659	860	935	887
Value ¹⁵ (mil. dol.).....	(NA)	308	911	713	467	588	797	873
Vehicle drivers licenses (mil.).....	99	112	125	130	134	138	141	143
Percent male.....	59.2	56.8	54.7	54.3	54.1	53.9	53.7	53.5
Percent under 25 years old.....	20.5	22.1	22.5	22.6	22.4	22.1	21.9	21.8
TIRES AND BATTERIES SHIPMENTS								
Tires, passenger car, total ¹⁶ (mil.).....	148.5	168.6	174.4	167.0	177.0	189.6	193.9	174.0
Replacement (mil.).....	94.9	123.5	129.5	122.5	122.9	129.3	135.2	121.9
Tires, truck and bus, total ¹⁶ (mil.).....	20.4	25.7	31.8	27.3	31.6	37.2	42.7	39.9
Replacement (mil.).....	12.8	16.7	21.0	19.8	22.3	25.9	30.0	28.9
Replacement automobile batteries ¹⁷ (mil.).....	29.5	37.9	43.8	39.3	49.2	54.6	56.4	53.7
SPECIAL MOTOR VEHICLE TAXES ¹⁸								
Federal excise (bil. dol.).....	5.7	6.8	5.8	5.6	6.0	6.5	7.0	(NA)
State motor vehicle carrier receipts (bil. dol.).....	2.5	3.8	5.0	5.1	6.1	6.4	6.9	187.3
State motor fuel, net (bil. dol.).....	4.5	6.5	8.1	8.4	8.9	9.3	9.7	199.8
MOTOR VEHICLE REGISTRATIONS								
All vehicles, ²⁰ world (mil.).....	178.0	246.5	315.9	328.1	341.7	362.6	380.0	(NA)
United States (mil.).....	90.4	108.4	129.9	132.9	138.5	143.8	148.8	(NA)
Other North and Central America (mil.).....	8.2	11.3	14.9	15.7	17.0	18.2	19.0	(NA)
South America (mil.).....	5.1	8.1	12.2	13.0	13.0	15.0	16.7	(NA)
Europe, non-communist area (mil.).....	50.1	74.3	95.8	96.6	103.0	110.6	111.0	(NA)
Europe, communist area (mil.).....	6.4	10.4	14.3	16.6	15.0	16.0	22.5	(NA)
Africa (mil.).....	3.4	4.5	6.2	6.6	6.9	7.3	7.6	(NA)
Asia, non-communist (mil.).....	9.5	22.9	34.4	36.2	39.1	42.7	45.3	(NA)
Asia, communist area (mil.).....	.2	.5	.7	.7	.7	.7	.7	(NA)
Oceania (mil.).....	4.7	6.0	7.4	7.8	8.0	8.3	8.5	(NA)

NA Not available. ¹Based on data from U.S. Dept. of Commerce. ²Includes domestic models produced in Canada. ³Source: Board of Governors of the Federal Reserve System, unpublished data. Beginning 1970, total auto sales data from *Ward's Automotive Reports*. Criteria by which each year's car models are grouped into the major size categories vary among those collecting data. Data shown here follow *Automotive News* classifications. Beginning 1978 cars produced in U.S. by foreign manufacturer are included in subcompact. ⁴Excludes domestic models produced in Canada. ⁵1965-1977, covers assembled vehicles only. Beginning 1978, includes chassis. ⁶Includes other countries, not shown separately. ⁷Excludes motorcoaches and imports from foreign manufacturers. Beginning 1974, includes imports made by U.S. manufacturers overseas. ⁸Gross vehicle weight (fully loaded vehicle). ⁹Covers assembled and unassembled vehicles. ¹⁰Includes rubber tires and tubes and used vehicles. ¹¹For years ending June 30. Represents vehicles failing to re-register. ¹²Source: R. L. Polk & Company, Detroit, Mich., *New Motorcycle Registrations by States*; vehicles retired from use published in source cited below. Reproduction prohibited without Polk permission. ¹³Excludes Oklahoma. ¹⁴Source: Motorcycle Industry Council, Inc., Newport Beach, Calif. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles. ¹⁵Dutiable value for customs purposes. ¹⁶Includes original equipment. Also includes exports, not shown separately. Source: The Rubber Manufacturers Association, Inc., Washington, D.C., *Rubber Industry Facts*, annual. ¹⁷Source: Battery Council International, Chicago, Ill. ¹⁸Special taxes on motor-vehicle users. Excludes income and property taxes on establishments engaged in the production, sale, and repairing of motor vehicles and their parts; and on truck operating companies. Source: U.S. Federal Highway Administration, *Highway Statistics*, annual, and *Estimates of State Highway-User Tax Receipts*, annual. ¹⁹Estimated. ²⁰Cars, trucks, and buses. Source: 1965-1975, U.S. Bureau of Domestic Business Development, *World Motor Vehicle Production and Registration*, annual.

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

No. 1118. AUTOMOBILE OUTPUT—PRODUCTION AND VALUE: 1965 TO 1979

ITEM	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, prel.
	New auto supply, total (mil. units)	9.9	8.6	11.3	12.3	9.6	9.0	10.8	12.1	12.0	11.3
Domestic output (mil. units).....	9.3	6.5	8.8	9.7	7.3	6.7	8.5	9.2	9.2	8.4
Sales of imports (mil. units).....	.6	2.0	2.5	2.6	2.2	2.3	2.3	2.9	2.8	2.9
Percent of total.....	6.0	23.7	21.8	21.4	23.4	25.6	21.5	24.0	23.6	25.6
VALUE IN CURRENT DOLLARS (bil.)										
Gross auto output.....	31.8	30.6	45.1	50.7	42.9	45.6	62.4	72.3	77.5	76.0
As percent of GNP ¹	4.6	3.1	3.9	3.9	3.0	3.0	3.7	3.8	3.6	3.2
Final sales.....	31.0	31.7	45.3	49.7	42.1	46.9	61.0	71.2	76.7	78.1
Personal consumption expenditures.....	25.3	27.8	39.4	42.9	36.3	40.2	53.2	61.7	68.0	69.2
New autos.....	21.4	22.1	32.1	34.5	27.5	30.0	39.4	46.2	50.3	51.3
Net purchases of used autos.....	3.9	5.7	7.3	8.4	8.8	10.2	13.8	15.5	17.7	17.9
Producers' durable equipment.....	5.1	4.9	7.6	8.5	7.9	7.8	9.7	12.5	14.2	13.3
New autos.....	6.6	7.5	10.3	11.9	11.6	12.7	15.6	19.1	22.1	22.5
Net purchases of used autos ²	-1.5	-2.6	-2.8	-3.3	-3.8	-4.9	-5.9	-6.6	-7.9	-9.2
Net exports.....	.3	-1.4	-2.3	-2.2	-2.7	-1.6	-2.6	-3.6	-6.1	-5.0
Exports.....	.9	2.0	3.0	3.8	4.6	5.5	6.4	7.0	7.6	9.9
Imports.....	.7	3.4	5.3	6.0	7.3	7.1	8.9	10.7	13.7	14.9
Govt. purchases of goods and services.....	4	.5	.6	.5	.6	.5	.6	.6	.6	.6
Change in business inventories ³.....	.8	-1.2	-1.1	1.0	.8	-1.4	1.4	1.1	.7	-2.1
Domestic output ⁴	28.8	24.7	37.5	42.9	35.3	37.1	50.7	59.5	63.6	64.0
Sales of imports ⁵	1.3	6.2	8.0	9.0	9.0	10.5	11.5	15.0	16.4	19.4
VALUE IN CONSTANT (1972) DOLLARS (bil.)										
Gross auto output.....	37.4	32.5	45.1	50.6	40.1	39.4	49.9	55.2	54.9	51.4
As percent of GNP ¹	4.0	3.0	3.9	3.9	3.3	3.3	3.9	4.1	3.9	3.6
Final sales.....	36.6	33.6	45.3	49.5	39.5	40.5	49.9	54.2	54.6	52.5
Personal consumption expenditures.....	30.2	29.7	39.4	42.1	33.2	33.3	40.6	44.4	45.4	43.3
New autos.....	23.5	22.9	32.1	34.6	26.1	26.1	32.3	35.9	36.3	34.4
Net purchases of used autos.....	6.7	6.9	7.3	7.5	7.2	7.1	8.3	8.5	9.1	8.9
Producers' durable equipment.....	5.7	5.0	7.6	8.7	7.6	7.3	8.9	10.8	11.2	9.9
New autos.....	7.3	7.8	10.3	11.9	11.0	11.1	12.8	14.8	15.9	15.1
Net purchases of used autos ²	-1.6	-2.8	-2.8	-3.2	-3.4	-3.7	-3.9	-4.0	-4.7	-5.1
Net exports.....	.2	-1.6	-2.3	-1.8	-1.8	-.5	-1.0	-1.5	-2.4	-1.0
Exports.....	1.1	2.1	3.0	3.8	4.3	4.7	5.2	5.4	5.5	6.6
Imports.....	.9	3.7	5.3	5.6	6.2	5.3	6.3	6.9	7.8	7.6
Govt. purchases of goods and services.....	.5	.5	.6	.5	.5	.5	.5	.5	.5	.4
Change in business inventories ³.....	.9	-1.1	-.1	1.0	.6	-1.1	1.0	1.0	.3	-1.1
Domestic output ⁴	31.8	25.6	37.5	42.9	33.3	32.3	41.5	46.3	46.0	42.9
Sales of imports ⁵	1.4	6.4	8.0	9.1	8.5	9.1	9.4	11.7	11.8	13.0

¹For definition of gross national product (GNP), see text, p. 435. ²Minus sign (-) denotes greater sales than purchases of used autos. ³New and used autos. Minus sign (-) denotes decline in business inventories. ⁴Consists of final sales and change in business inventories of new autos produced in the U.S. ⁵Consists of personal consumption expenditures, producers' durable equipment, and government purchases.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts for the United States, 1929-74*, and *Survey of Current Business*, July issues and April 1980.

No. 1119. CARS AND TRUCKS IN USE, BY AGE: 1965 TO 1979

[As of July 1. Excludes vehicles for which age was not known]

AGE	NUMBER (mil.)						PERCENT					
	1965	1970	1975	1977	1978	1979	1965	1970	1975	1977	1978	1979
Total cars	68.9	80.4	95.2	99.9	102.9	104.7	100.0	100.0	100.00	100.00	100.0	100.0
Under 3 years.....	21.6	24.4	25.8	24.2	27.3	28.2	31.3	30.3	27.1	24.2	26.5	26.9
3-5 years.....	18.0	24.9	27.0	30.0	27.3	25.2	26.1	31.0	28.3	30.0	26.5	24.1
6-8 years.....	13.6	18.4	22.0	22.3	23.3	25.0	19.7	22.9	23.1	22.3	22.6	23.9
9-11 years.....	9.9	7.7	13.9	14.2	14.6	14.9	14.3	9.6	14.6	14.2	14.2	14.3
12 years and over.....	5.9	4.9	6.6	9.2	10.5	11.3	8.6	6.1	6.9	9.2	10.2	10.8
Total trucks	13.1	17.7	24.8	28.2	30.5	32.6	100.0	100.0	100.0	100.0	100.0	100.0
Under 3 years.....	3.2	4.7	6.9	7.0	8.5	9.2	24.6	26.5	27.9	24.9	27.8	28.2
3-5 years.....	2.5	4.3	5.8	7.7	7.4	7.3	18.9	24.1	23.3	27.4	24.2	22.3
6-8 years.....	2.0	3.0	4.4	4.9	5.3	6.2	14.9	16.7	17.9	17.2	17.4	19.1
9-11 years.....	1.8	1.9	3.2	3.5	3.8	4.0	14.1	10.5	13.0	12.4	12.4	12.3
12 years and over.....	3.6	3.9	4.4	5.1	5.5	5.9	27.6	22.2	17.8	18.0	18.1	18.1

Source: R. L. Polk & Co., Detroit, Mich. In Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual. (Copyright; further reproduction prohibited without Polk permission.)

NO. 1120. AUTOMOBILES—FACTORY-INSTALLED EQUIPMENT: 1970 TO 1979

[Refers to model-year production. For certain items, such as air-conditioning, a significant number of units are installed on new vehicles after they leave the factory]

EQUIPMENT	UNITS INSTALLED (mil.)							PERCENT OF CARS PRODUCED						
	1970	1974	1975	1976	1977	1978	1979	1970	1974	1975	1976	1977	1978	1979
Transmission:														
Automatic.....	7.2	7.6	6.2	7.7	9.0	8.6	8.2	91.0	89.8	91.6	91.4	95.2	93.1	90.9
Manual.....	.7	.9	.6	.7	.5	.6	.8	8.9	10.2	8.4	8.6	4.8	6.6	9.0
V-8.....	6.7	5.7	4.9	5.8	7.2	6.1	5.6	84.2	67.9	71.4	68.6	76.0	65.8	61.7
6-cylinder engine.....	1.2	1.6	1.3	1.8	1.7	2.2	2.1	15.7	18.7	19.6	21.1	17.7	24.0	23.1
4-cylinder engine.....	(NA)	1.1	.6	.9	.6	.9	1.4	(NA)	13.3	9.0	10.3	6.3	10.2	15.2
Power brakes.....	4.4	5.6	5.2	6.8	8.5	8.1	7.7	56.0	66.2	75.8	80.6	90.0	87.9	85.5
Power steering.....	6.4	7.0	6.1	7.5	9.0	8.6	8.2	81.2	83.3	89.7	89.8	95.1	92.6	90.8
Power windows¹.....	1.3	1.6	1.6	2.0	2.8	2.8	2.7	16.7	19.0	24.1	24.3	29.3	30.5	29.5
Air-conditioning.....	4.8	5.6	4.9	6.3	7.7	7.5	7.3	60.9	67.0	73.1	75.5	81.8	80.7	81.0
Tinted glass².....	5.5	6.3	5.5	6.8	8.2	7.9	8.0	69.5	75.0	80.6	80.9	86.7	85.7	86.6

NA Not available. ¹ Includes station wagon power rear windows. ² Covers windshield and other glass.
 Source: Chilton Company, Radnor, Pa., *Annual Statistical Issue, Automotive Industries*. (Copyright.)

NO. 1121. CARS IN OPERATION WITH EMISSION CONTROLS: 1965 TO 1979

[As of July 1. Figures show cars with emission controls whether or not the controls are in operation]

EMISSION CONTROLS	CARS (millions)							PERCENT			
	1965	1971	1975	1976	1977	1978	1979	1971	1975	1978	1979
Total cars.....	68.9	83.1	95.2	97.8	99.9	103.0	104.7	100.0	100.0	100.0	100.0
Cars with one or more controls.....	22.9	70.3	91.2	94.5	97.2	100.7	103.0	84.6	95.8	97.8	98.4
Crankcase control ¹	22.9	35.8	21.4	17.7	13.9	11.0	8.9	43.1	22.5	10.7	8.5
Exhaust and crankcase controls ²	-	27.7	24.6	22.9	20.4	17.8	14.9	33.3	25.8	17.3	14.3
Fuel evaporation and above controls ³	-	6.8	18.5	17.9	17.2	16.3	14.8	8.2	19.4	15.8	14.2
Nitrogen oxide and above controls ⁴	-	-	22.0	21.8	21.4	21.0	19.9	-	23.1	20.4	19.0
Catalyst and above controls ⁵	-	-	4.7	14.2	24.2	34.6	44.4	-	4.9	33.6	42.4
No emission controls.....	46.0	12.8	4.0	3.3	2.7	2.3	1.7	15.4	4.2	2.2	1.6

- Represents zero. ¹ Installed nationwide, starting with 1965 models, to reduce emissions of hydrocarbons. ² Exhaust controls introduced nationwide on 1968 models to accelerate the reduction of hydrocarbon emissions and emissions of carbon monoxide. ³ Begun on 1971 models to eliminate losses from gasoline tanks and carburetors. ⁴ Available on some 1971 and 1972 models and all 1973 and later models to lower emissions of nitrogen oxides. ⁵ Catalyst or equivalent control systems introduced on cars in 1975 to meet tougher emission levels for hydrocarbons and carbon monoxide.

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual. Computed from R. L. Polk & Co. data.

NO. 1122. MOTOR VEHICLE SAFETY DEFECT RECALLS, BY DOMESTIC AND FOREIGN MANUFACTURERS: 1970 TO 1979

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

MANUFACTURER	Unit	1970	1973	1974	1975	1976	1977	1978	1979
		Motor vehicles:							
Total recall campaigns¹.....	Number.....	154	251	247	217	209	246	271	275
Domestic.....	Number.....	100	208	208	190	169	195	199	218
Foreign.....	Number.....	54	43	39	27	40	51	72	57
Total vehicles recalled.....	1,000.....	1,240	7,000	2,877	2,109	3,492	12,923	9,063	8,919
Domestic.....	1,000.....	738	6,667	2,345	1,829	3,019	10,693	7,921	6,997
Vehicles recalled by 4 leading auto manufacturers.....	1,000.....	563	6,477	2,194	1,602	2,854	10,331	7,670	6,989
Foreign.....	1,000.....	502	333	531	280	474	2,230	1,141	1,922
Motor vehicle tires:									
Recall campaigns ¹	Number.....	11	20	26	22	28	35	31	42
Tires recalled.....	1,000.....	160	132	1,094	72	464	471	14,686	235

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

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

NO. 1123. PERCENT OF OCCUPIED HOUSING UNITS WITH AUTOMOBILES AVAILABLE: 1970 TO 1977

[1970, as of April; beginning 1975, as of October–December of year shown. Data represent automobiles which are owned or regularly used by any member of the household and which are ordinarily kept at home. Includes leased automobiles, taxis, and company-owned automobiles kept at home. Based on Annual Housing Survey, see Appendix III. For composition of regions, see fig. 1 inside front cover]

CHARACTERISTIC	1970, UNITS WITH—			1975, UNITS WITH—			1977, UNITS WITH—		
	One car	Two cars	3 cars or more	One car	Two cars	3 cars or more	One car	Two cars	3 cars or more
U.S., total	47.7	29.3	5.5	48.1	28.3	7.0	47.5	28.8	7.8
Northeast	46.6	24.6	4.2	45.0	26.0	6.1	45.1	25.7	7.1
North Central	50.4	29.7	5.1	48.3	30.4	7.6	46.7	31.7	8.3
South	48.7	28.2	6.8	46.7	28.2	6.8	48.8	28.5	7.5
West	46.2	33.6	7.8	50.7	28.4	7.6	49.0	28.7	8.4
Metropolitan (SMSA) ¹	45.8	30.0	5.7	45.8	29.6	7.3	45.3	29.6	8.2
In central cities	45.4	22.1	4.1	45.3	22.9	4.9	45.2	22.6	5.7
Nonmetropolitan	52.1	27.9	5.1	53.2	25.5	6.4	52.1	27.0	7.0
Black	41.3	13.8	1.9	42.7	17.0	3.2	42.7	18.7	3.2
Spanish-origin ²	(NA)	(NA)	(NA)	46.6	21.4	4.5	45.9	21.9	5.0
Income: ³									
Under \$3,000	41.7	7.1	1.2	38.4	6.9	1.3	37.3	9.2	1.6
\$3,000–\$6,999	60.0	15.9	1.9	56.1	11.1	1.4	52.8	9.8	1.6
\$7,000–\$9,999	58.1	29.4	3.4	62.4	20.1	3.0	62.7	17.8	2.7
\$10,000–\$14,999	45.7	43.3	6.4	56.6	31.1	4.7	57.9	28.0	4.7
\$15,000–\$24,999	30.7	52.9	14.7	41.0	44.7	10.8	45.7	41.3	9.1
\$25,000 and over	22.1	53.3	21.1	25.3	47.4	22.0	27.3	48.5	22.5

NA Not available. ¹Refers to 243 standard metropolitan statistical areas (SMSA's) as defined in 1970 census publications. For definition of SMSA's, see text, Appendix II. ²Persons of Spanish origin may be of any race. ³Income of families and primary individuals in 12 months preceding date on interviews. For 1970, income in 1969.

Source: U.S. Bureau of the Census, *Census of Housing: 1970*, HC(2)-1; and *Current Housing Reports*, series H-150, Annual Housing Survey, part A, *General Housing Characteristics for the United States and Regions* and, part C, *Financial Characteristics of the Housing Inventory*.

NO. 1124. RECREATIONAL VEHICLES—NUMBER AND VALUE OF SHIPMENTS: 1965 TO 1979

TYPE	NUMBER OF SHIPMENTS (1,000)						RETAIL VALUE OF SHIPMENTS (mil. dol.)					
	1965	1970	1975	1977	1978	1979	1965	1970	1975	1977	1978	1979
Total	192.8	380.3	339.6	533.9	526.3	303.3	308	1,122	2,320	5,327	5,683	3,538
Motorized homes	4.7	30.3	96.6	280.2	293.6	168.2	34	318	1,251	3,876	4,329	2,682
Travel trailers	76.6	138.0	150.6	167.9	159.8	90.2	169	445	856	1,229	1,153	725
Camping trailers	67.2	116.1	48.1	53.9	48.2	31.1	30	175	101	123	116	83
Truck campers	44.3	95.9	44.3	31.9	24.7	13.8	75	183	112	99	65	48

Source: Motor Vehicle Manufacturers Association of the United States, Inc., Detroit, Mich., *Motor Vehicle Facts and Figures*, annual. Data from Recreation Vehicle Industry Association.

NO. 1125. DOMESTIC MOTOR FUEL CONSUMPTION, BY USE: 1960 TO 1978

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

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
Total consumption (bil. gal.)	57.9	71.1	92.3	105.1	110.5	106.3	109.0	115.7	119.6	125.1
Avg. annual percent change	4.0	4.2	5.4	6.7	6.2	–3.8	2.5	6.2	3.4	4.6
Passenger vehicles (bil. gal.)	42.0	51.2	66.7	74.3	78.9	75.1	77.4	79.8	81.7	84.8
Cars ² (bil. gal.)	41.2	50.3	65.8	73.5	78.0	74.2	76.5	78.8	80.7	83.8
Buses (incl. school) (bil. gal.)	0.8	.9	.9	.9	.8	.9	.9	1.0	1.0	1.0
Trucks ³ (bil. gal.)	15.8	19.9	25.6	30.7	31.6	31.2	31.6	35.9	38.0	40.3
Average gallons per vehicle	777	775	830	859	851	788	790	807	804	813
Cars ²	661	656	722	730	736	676	685	685	680	688
Buses (incl. school)	3,040	2,844	2,491	2,165	1,991	1,919	1,937	2,015	2,002	2,041
Trucks ³	1,330	1,347	1,365	1,446	1,361	1,268	1,227	1,292	1,284	1,270
Average mileage per gallon	12.42	12.49	12.14	12.07	11.85	12.09	12.20	12.34	12.34	12.38
Cars ²	14.28	14.15	13.58	13.67	13.29	13.65	13.74	13.93	14.15	14.26
Buses (incl. school)	5.26	5.35	5.34	5.80	5.86	5.90	5.75	5.98	5.98	5.95
Trucks ³	7.96	8.60	8.39	8.59	8.45	8.57	8.68	8.58	8.68	8.64

¹ Change from 1955. ² Includes taxicabs and motorcycles. ³ Includes combinations.

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

No. 1126. DOMESTIC MOTOR GASOLINE SUPPLY: 1973 TO 1980

YEAR	SUPPLY ¹ (1,000 bbls. per day)		Production ² (1,000 bbls. per day)	Net imports (1,000 bbls. per day)	Stocks ^{2,3} (mil. barrels)	YEAR AND MONTH	SUPPLY ¹ (1,000 bbls. per day)		Production ² (1,000 bbls. per day)	Net imports (1,000 bbls. per day)	Stocks ² (mil. barrels)
	Total	Un- leaded					Total	Un- leaded			
1973, avg.....	6,674	(NA)	6,527	130	209.4	1979, March.....	7,221	2,733	6,654	167	239.2
1974, avg.....	6,537	(NA)	6,358	202	218.3	June.....	7,167	2,787	6,987	260	229.3
1975, avg.....	6,675	(NA)	6,518	182	234.9	Sept.....	6,878	2,815	6,626	134	229.6
1976, avg.....	6,978	1,508	6,838	128	231.4	Dec.....	6,690	2,890	6,962	262	237.5
1977, avg.....	7,177	1,976	7,031	215	257.6						
1978, avg.....	7,412	2,521	7,167	189	237.9	1980, March.....	6,376	3,032	6,506	154	282.7
1979, avg.....	7,030	2,798	6,835	180	237.5	June ⁴	7,290	3,200	6,820	210	252.6

NA Not available. ¹Production plus net imports less net increase in primary stocks. ²Excludes production and stocks at natural gas processing plants. ³As of Dec. 31. ⁴Preliminary.

Source: U.S. Energy Information Administration, *Monthly Energy Review* and *Short-Term Energy Outlook*.

No. 1127. ESTIMATED COST OF OPERATING AN AUTOMOBILE: 1970 TO 1979

[1979 estimates based on a standard-size 4-door sedan, operated from the Baltimore, Md. area, costing \$6,303, with an assumed life-span of 10 years, 100,000 miles. Similar specifications used in other years shown]

ITEM	10-YEAR TOTAL COSTS (\$1,000)				CENTS PER MILE COST, 1979 (January)					
	1970, Jan.	1974, Jan.	1976, Jan.	1979, Jan.	10- year aver- age	1st year (14,500 miles)	3d year (11,500 miles)	5th year (9,900 miles)	7th year (9,500 miles)	10th year (5,700 miles)
Total	11.9	15.9	17.9	24.6	24.6	27.2	24.2	27.3	29.2	23.3
Costs excluding taxes.....	10.5	14.4	16.3	23.0	23.0	23.9	22.9	25.9	27.7	21.8
Depreciation.....	3.2	4.2	4.9	6.3	6.3	12.1	6.1	5.4	4.2	4.4
Repairs and maintenance ¹	1.5	2.9	3.7	4.8	4.8	1.3	5.4	8.0	11.7	2.0
Replacement tires ².....	.4	.4	.4	.6	.6	.3	.3	.8	.8	1.2
Accessories ³	(2)	.1	.1	.1	.1	.1	.1	.1	.1	.2
Gasoline ⁴	1.7	3.0	3.2	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Oil ⁴.....	.2	.2	.2	.1	.1	.1	.1	.1	.1	.2
Insurance ⁵	1.7	1.6	1.7	2.5	2.5	2.2	2.6	2.9	2.0	3.4
Garaging, parking, etc. ⁶	1.8	2.0	2.2	3.2	3.2	2.4	2.9	3.2	3.3	5.0
Taxes and fees ⁷	1.4	1.5	1.6	1.6	1.6	3.3	1.3	1.4	1.5	1.5

Z Less than \$50. ¹For 1979, includes lubrications, repacking wheel bearings, flushing cooling system, aiming headlamps; replacement of minor parts such as spark plugs, fan belts, radiator hoses, fuel filter, and pollution control equipment; minor repairs such as brake jobs, water pump, carburetor overhaul, and universal joints; and major repairs such as a complete "valve job." ²For 1979, covers 3 new regular tires and 4 new snow tires during life of car. ³For 1979, includes a set of vinyl floor mats, seat covers, and a pair of extra wheels. ⁴For 1979, gasoline use set at 16.0 miles per gallon; associated oil use at 1 quart oil every 2,500 miles driven; between 50,000 and 75,000 miles and 1 quart every 2,000 miles driven between 75,000 and 100,000 miles. ⁵For 1979, includes \$20,000/40,000 bodily injury, and \$10,000 property damage, \$2,500 personal injury protection, uninsured motorist coverage, and full comprehensive coverage for the 10-year period; \$100 deductible collision insurance was assumed for the first 5 years. ⁶For 1979, includes monthly charges of \$20 for garage rental or cost of owner's garaging facility, parking fee average of \$72 per year, and toll average of \$7.80 per year. ⁷For 1979, includes Federal excise taxes on tires of 10 cents per lb., lubricating oil of 6 cents per gallon, and gasoline of 4 cents per gallon; plus the Maryland tax on gasoline of 9 cents per gallon, titling tax of 5 percent of retail price, and registration fee of \$20.00 for 3,700 lb. or less shipping weight, or \$30.00 for vehicles over 3,700 lb. State sales tax of 5 percent included on certain items.

No. 1128. 10-YEAR COST OF OPERATING AN AUTOMOBILE, BY SIZE OF CAR: 1979

[For basis of estimates for components of cost, see footnotes, table 1127. Estimates based on vehicle operated in Baltimore, Md. area with an assumed life-span of 10 years, 100,000 miles]

ITEM	Total ¹	Costs, excl. taxes	Depreci- ation	Repairs, mainte- nance	Tires	Gasol- ine	Insur- ance	Park- ing	Taxes and fees
Total cost (\$1,000):									
Standard ²	24.6	23.0	6.3	4.8	.6	5.4	2.5	3.2	1.6
Compact ³	21.7	20.4	5.2	4.2	.5	4.8	2.3	3.2	1.3
Subcompact ⁴	18.5	17.3	3.8	3.4	.5	4.0	2.2	3.2	1.1
Passenger van ⁵	36.2	34.1	10.2	5.3	.6	7.2	7.2	3.2	2.1
Cents per mile cost:									
Standard ²	24.58	22.98	6.26	4.80	.58	5.44	2.54	3.20	1.60
Compact ³	21.72	20.39	5.18	4.16	.52	4.83	2.28	3.17	1.33
Subcompact ⁴	18.45	17.33	3.81	3.43	.51	3.96	2.21	3.17	1.12
Passenger van ⁵	36.19	34.09	10.21	5.28	.60	7.25	7.17	3.20	2.10

¹Includes accessories. ²Fully equipped 4-door sedan, price \$6,303. ³2-door sedan, price \$5,215. ⁴2-door sedan, price \$3,854. ⁵Passenger van, price \$10,248.

Source of tables 1127 and 1128: U.S. Federal Highway Administration, *Cost of Operating an Automobile*, periodic.

NO. 1129. GASOLINE FUEL—RETAIL PRICES, SELECTED COUNTRIES: 1973 TO 1979

[In U.S. cents per U.S. gallon. As of July. Price includes tax except as noted. For most countries, based on exchange rates in effect as of July 31 of year shown. For explanation of average annual percent change, see Guide to Tabular Presentation]

ITEM	1973	1974	1975	1976	1977	1978	1979	Average annual percent change, 1973-1979
United States: ¹ Regular	40	56	60	60	63	63	91	14.7
Premium	45	60	65	64	69	71	97	13.7
Tax	11	11	12	12	12	13	14	4.1
Unleaded	² 27	² 43	62	63	67	69	96	23.5
France, Paris: Regular	106	132	156	140	170	215	243	14.8
Premium	115	143	169	151	184	232	262	14.7
Tax	82	81	94	81	110	130	167	12.6
Italy, Rome: Regular	99	169	166	174	206	216	244	16.2
Premium	105	177	171	181	215	225	253	15.8
Tax	79	120	115	116	153	160	166	13.2
United Kingdom: Regular	78	104	127	104	118	114	218	18.7
Premium	81	108	131	105	121	119	221	18.2
Tax ³	48	45	41	44	43	47	70	6.5
Germany, F.R., Bonn: Regular	118	127	125	139	144	168	209	10.0
Premium	131	137	134	148	154	176	219	8.9
Tax ³	72	65	65	65	73	81	91	4.0
Canada, Ottawa: Regular	49	57	66	66	69	67	71	6.4
Premium	53	62	67	72	75	73	78	6.7
Tax	19	19	23	29	28	26	24	4.0
Mexico, Mexico City: Regular	24	42	64	65	46	47	47	11.9
Premium	36	61	91	92	66	67	67	10.9
Tax	(NA)	(NA)	31	31	22	22	22	-8.2
Japan, Tokyo: Regular	83	136	136	136	163	201	227	18.3
Premium	98	155	163	151	178	223	246	16.6
Tax	42	45	45	57	61	87	95	14.6

NA Not available. ¹ 1973-1976 prices for regular and premium at Washington, D.C.; all other data are national averages. ² Excludes taxes. ³ Excludes value-added tax.

Source: U.S. Energy Information Administration; Regular—*International Petroleum Annual*; Premium—*International Energy Annual*, August 1980; Unleaded—*Monthly Energy Review*.

NO. 1130. FEDERAL AND STATE GASOLINE TAX—STATES: 1970 TO 1979

[Cents per gallon. In effect Dec. 31. See also *Historical Statistics, Colonial Times to 1970*, series Q 233-234]

STATE	1970	1973 ¹	1975	1976	1977	1978	1979	STATE	1970	1973 ¹	1975	1976	1977	1978	1979
Total	11.0	11.5	11.7	11.7	11.8	11.8	12.0	Miss.....	8	9	9	9	³ 9	³ 9	³ 9
Federal	4.0	4.0	4.0	4.0	4.0	4.0	4.0	Mo.....	5	7	7	7	7	7	7
State avg. ²	7.0	7.5	7.7	7.7	7.8	7.8	8.0	Mont.....	7	7	7.8	7.8	8	8	10.5
Ala.....	7	7	7	7	³ 7	³ 7	³ 7	Nebr. ⁶	8.5	8.5	8.5	8.5	9.5	9.5	10.5
Alaska.....	8	8	8	8	8	8	8	Nev.....	6	6	6	6	³ 6	³ 6	³ 6
Ariz.....	7	7	8	8	8	8	8	N.H.....	7	9	9	9	10	10	11
Ark.....	7.5	8.5	8.5	8.5	8.5	8.5	9.5	N.J.....	7	8	8	8	8	8	8
Calif.....	7	7	7	7	7	7	7	N. Mex.....	7	7	7	7	7	7	7
Colo.....	7	7	7	7	7	7	7	N.Y.....	7	8	8	8	³ 8	³ 8	³ 8
Conn.....	8	10	10	11	11	11	11	N.C.....	9	9	9	9	9	9	9
Del.....	7	9	9	9	11	9	9	N. Dak.....	7	7	7	7	7	7	7
D.C.....	7	8	10	10	10	10	10	Ohio.....	7	7	7	7	7	7	7
Fla.....	7	8	8	8	³ 8	³ 8	³ 8	Okl.....	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Ga.....	6.5	7.5	7.5	7.5	7.5	7.5	7.5	Oreg.....	7	7	7	7	7	7	7
Hawaii.....	⁴ 5	5	8.5	8.5	³ 8.5	³ 8.5	³ 8.5	Pa.....	8	8	9	9	9	9	11
Idaho.....	7	8.5	8.5	9.5	9.5	9.5	9.5	R.I.....	8	8	10	10	10	10	10
Ill.....	7.5	7.5	7.5	7.5	³ 7.5	³ 7.5	³ 7.5	S.C.....	7	8	8	8	8	8	8
Ind.....	8	8	8	8	8	8	8	S. Dak.....	7	7	8	8	8	8	8
Iowa.....	7	7	7	7	7	8.5	10	Tenn.....	7	7	7	7	7	7	7
Kans. ⁵	7	7	7	8	8	8	8	Tex.....	5	5	5	5	5	5	5
Ky. ⁵	7	9	9	9	9	9	9	Utah.....	7	7	7	7	7	7	7
La.....	8	8	8	8	8	8	8	Vt.....	8	9	9	9	9	9	9
Maine.....	8	9	9	9	9	9	9	Va. ⁶	9	9	9	9	9	9	9
Md.....	7	9	9	9	9	9	9	Wash.....	9	9	9	9	9	9	9
Mass.....	6.5	7.5	8.5	8.5	8.5	8.5	8.5	W. Va.....	8.5	8.5	8.5	8.5	8.5	8.5	10.5
Mich.....	7	9	9	9	9	9	9	Wis.....	7	7	7	7	7	7	7
Minn.....	7	9	9	9	9	9	9	Wyo.....	7	7	7	8	8	8	8

¹ Taxes in 1974 same as for 1973, except U.S. total and State average up by .1 cent and Pa. up by 1 cent. ² Weighted average, based on net gallons taxed. ³ Some local governments levy motor-fuel taxes at rates that range from .25 to 5 cents per gallon. ⁴ 8 cents per gallon in Hawaii County; 5 cents elsewhere. ⁵ Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more. ⁶ Beginning 1973, gasoline with grain alcohol additive taxed at 3 cents per gallon less.

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

NO. 1131. PASSENGER TRANSIT INDUSTRY—SUMMARY: 1960 TO 1978

[Beginning 1970, includes Puerto Rico. Comprises all privately and publicly owned organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus lines, (b) light rail lines, (c) heavy rail lines, and (d) trolley coach lines. Based on financial and statistical reports received by American Public Transit Association from transit systems representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1970*, series Q 238-250]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978, prel.
Operating systems	Number	1,251	1,148	1,079	1,023	946	947	955	1,009	969
Motorbus systems ¹	Number	1,236	1,145	1,075	1,020	941	941	950	1,004	965
Publicly owned systems ¹	Number	54	78	144	185	308	333	375	455	463
Passenger vehicles owned	Number	65,292	61,717	61,350	59,590	59,889	62,226	63,787	63,287	64,013
Motorbuses	Number	49,600	49,600	49,700	48,286	48,700	50,811	52,382	51,968	52,866
Electric railway cars ^{2 3}	Number	11,866	10,664	10,600	10,510	10,471	10,712	10,720	10,674	10,554
Heavy rail	Number	9,010	9,115	9,338	9,387	9,403	9,608	9,714	9,639	9,567
Trolley coaches	Number	3,826	1,453	1,050	794	718	703	685	645	593
Operating revenue ⁴	Mil. dol.	1,407	1,444	1,707	1,798	1,940	2,002	2,161	2,280	2,381
Motorbus	Mil. dol.	956	1,036	1,236	1,263	1,377	1,438	1,486	1,584	1,671
Electric railway ^{3 5}	Mil. dol.	369	366	440	510	542	549	660	681	695
Heavy rail	Mil. dol.	282	310	384	461	506	517	631	653	665
Operating expenses	Mil. dol.	1,377	1,454	1,996	2,536	3,239	3,706	4,021	4,305	4,712
Operating income ⁵	Mil. dol.	31	-11	-288	-738	-1,300	-1,704	-1,860	-2,025	-2,331
Operating assistance	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	1,408	1,647	1,804	2,232
Federal	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	302	423	585	690
State	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	407	367	478	568
Local	Mil. dol.	(NA)	(NA)	(NA)	(NA)	(NA)	699	857	841	978
Vehicle-mi. operated ⁴	Mil.	2,143	2,008	1,883	1,635	1,907	1,990	2,026	2,021	2,028
Motorbus	Mil.	1,576	1,528	1,409	1,370	1,431	1,526	1,581	1,623	1,630
Electric railway ^{2 3}	Mil.	466	437	441	439	459	448	430	383	384
Heavy rail	Mil.	391	395	407	407	432	423	407	361	364
Passengers carried ⁴	Mil.	9,395	8,253	7,332	6,660	6,935	6,972	7,081	7,286	7,616
Motorbus ⁶	Mil.	6,425	5,814	5,034	4,642	4,976	5,084	5,247	4,949	5,142
Electric railway ^{2 6}	Mil.	2,313	2,134	2,116	1,921	1,876	1,810	1,759	2,267	2,404
Revenue passengers carried	Mil.	7,521	6,798	5,932	5,294	5,606	5,643	5,673	5,723	5,963
Motorbus	Mil.	5,089	4,730	4,058	3,653	3,998	4,095	4,168	4,246	4,406
Electric railway ^{2 3}	Mil.	2,005	1,882	1,746	1,567	1,549	1,493	1,450	1,425	1,506
Heavy rail	Mil.	1,670	1,678	1,574	1,424	1,435	1,366	1,353	1,335	1,415
Trolley coach	Mil.	447	186	128	74	60	56	54	51	51
Average fares:										
Motorbus	Cents	17.96	20.55	29.41	32.40	31.76	31.99	32.77	34.90	35.75
Light rail	Cents	22.09	23.82	27.03	26.96	27.88	29.89	29.88	30.24	33.40
Heavy rail	Cents	16.14	16.63	23.42	30.74	33.91	36.34	45.56	47.51	46.09
Trolley coach	Cents	18.12	21.63	23.84	32.06	28.91	27.50	27.83	28.16	28.12
Employees, number (avg.)	1,000	156	145	138	141	153	160	163	163	165
Payroll, employee	Mil. dol.	857	964	1,274	1,624	1,987	2,236	2,404	2,547	2,741
Avg. earnings per employee	Dollars	5,481	6,645	9,230	11,544	12,849	13,993	14,751	15,671	16,569

NA =Not available. ¹ Includes systems with combined services including motorbuses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. ² Includes light rail. ³ Beginning 1975, includes cable car and inclined plane. ⁴ Includes trolley coach, not shown separately. ⁵ Minus sign (-) denotes deficit. ⁶ Data for 1960-1976 not comparable with later years.

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

NO. 1132. FEDERAL GRANT APPROVALS FOR MASS TRANSPORTATION: 1965 TO 1979

[In millions of dollars. For years ending June 30 through 1976 except, beginning 1977, ending Sept. 30. Excludes direct Congressional authorizations to States or localities (major example is Washington, D.C.'s Metro System). Mass transportation is defined as transportation by bus, or rail or other conveyance, either publicly or privately owned which provides to the public general or special service (excluding school buses, charter and sightseeing service) on a regular and continuing basis]

TYPE OF GRANT	1965	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Total grant approvals	51	133	285	511	864	956	1,430	1,843	2,296	2,722	2,970
Capital grant approvals	51	133	285	511	864	956	1,287	1,479	1,724	2,037	2,102
Section 3 ¹	51	133	285	510	864	870	1,197	1,092	1,250	1,400	1,225
Section 5 ¹	(X)	(X)	(X)	(X)	(X)	(X)	9	26	39	50	256
Interstate and urban system ²	(X)	(X)	(X)	(X)	(X)	86	81	361	434	587	621
Operating grant approvals, Section 5 ¹	(X)	(X)	(X)	(X)	(X)	(X)	143	364	572	685	868

X Not applicable. ¹ Grants allowed under Urban Mass Transportation Act of 1964 as amended. Section 3 grants are discretionary grants awarded upon application by local authorities. Section 5 grants are formula grants awarded to cities meeting certain criteria. ² Grants under Federal Highway Act of 1973.

Source: American Public Transit Association, *Transit Fact Book*, annual. Data From U.S. Urban Mass Transportation Administration.

No. 1133. MEANS OF TRANSPORTATION TO WORK, BY RESIDENCE: 1975

[In thousands of workers 14 years old and over. Excludes workers living in group quarters. SMSA's refer to 243 standard metropolitan statistical areas as designated in 1970 census publications; for definitions, see text, Appendix II. Based on the Travel-to-Work Supplement to the 1975 Annual Housing Survey; see Appendix III]

MEANS OF TRANSPORTATION	Total workers	INSIDE SMSA'S					OUTSIDE SMSA'S		
		Total	Inside central cities	Outside central cities			Total	Urban	Rural
				Total	Urban	Rural			
Total	80,125	55,418	22,760	32,658	24,840	7,818	24,707	9,648	15,059
Drive alone.....	52,294	36,378	13,622	22,756	17,233	5,523	15,916	6,491	9,425
Private automobile.....	44,830	32,522	12,414	20,109	15,591	4,518	12,308	5,453	6,855
Percent of total.....	56.0	58.7	54.5	61.6	62.8	57.8	49.8	56.5	45.5
Truck.....	7,464	3,856	1,208	2,647	1,642	1,005	3,608	1,038	2,570
Carpool.....	15,575	10,120	3,935	6,185	4,567	1,617	5,455	1,954	3,501
Public transportation.....	4,825	4,625	3,188	1,437	1,358	78	201	125	75
Bus or streetcar.....	3,100	2,953	2,028	924	874	50	147	85	62
Subway or elevated train.....	1,179	1,177	1,037	141	135	6	2	-	2
Railroad.....	405	395	52	343	320	22	11	6	5
Taxicab.....	141	100	72	29	29	-	41	34	6
Other means.....	1,067	734	289	446	352	95	332	170	162
Walked only.....	3,778	2,462	1,356	1,125	924	201	1,296	673	623
Worked at home.....	2,585	1,079	370	709	406	304	1,506	235	1,272

Represents zero or rounds to zero.

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-23, No. 99, and unpublished data.

No. 1134. WORKERS WORKING IN AND LIVING IN SELECTED CITIES AND PERCENT COMMUTING: 1970

[Covers cities with 250,000 or more workers, 16 years old and over, working in them. For explanation of methodology, see Appendix III]

CITY	Workers living in city ¹ (1,000)	Workers working in city (1,000)	PERCENT COMMUTING		CITY	Workers living in city ¹ (1,000)	Workers working in city (1,000)	PERCENT COMMUTING	
			Out of city ²	Into city ³				Out of city ²	Into city ³
			New York, N.Y.....	2,677				3,100	5.7	18.6	Baltimore, Md.....	308	371	25.4	38.1
Chicago, Ill.....	1,157	1,337	16.8	28.1	St. Louis, Mo.....	200	348	21.7	54.8
Los Angeles, Calif.....	991	1,127	29.5	38.0	Atlanta, Ga.....	181	314	22.3	55.2
Philadelphia, Pa.....	618	761	12.7	29.1	San Diego, Calif.....	265	305	16.6	27.5
Detroit, Mich.....	464	535	32.9	41.8	Milwaukee, Wis.....	270	299	24.8	32.3
Houston, Tex.....	438	520	9.8	24.1	Indianapolis, Ind.....	275	289	20.1	23.9
Washington, D.C.....	266	505	19.1	57.5	Seattle, Wash.....	208	288	16.2	39.7
Dallas, Tex.....	331	437	13.4	34.3	Pittsburgh, Pa.....	168	280	20.0	52.3
San Francisco, Calif.....	282	420	10.3	39.8	Denver, Colo.....	197	279	16.8	41.3
Boston, Mass.....	226	402	23.1	56.7	Kansas City, Mo.....	184	266	21.9	45.9
Cleveland, Ohio.....	241	398	25.2	54.7	Minneapolis, Minn.....	175	260	27.5	51.0

¹Covers only workers with place of work reported. ²Percent of workers living in the city with place of work reported who commute to a place of work outside the city. ³Percent of workers working in the city who commute in from a residence outside the city.

Source: U.S. Bureau of the Census, *Census of Population: 1970*, vol. I, Part C, and Final Report, PC (2)-6D, *Journey to Work*.

No. 1135. INTERCITY BUS LINES—SUMMARY OF OPERATIONS: 1960 TO 1979

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979 ¹
Operating companies.....	Number.....	1,150	1,100	1,000	950	950	1,000	1,050	1,100	1,150
Routes.....	1,000.....	21.0	19.8	22.0	21.0	20.5	20.1	20.2	20.2	20.5
Miles of highway served (Dec. 31) ²	1,000.....	265	263	267	271	274	276	277	279	280
Employees (Dec. 31) ³	1,000.....	45	45	50	49	47	46	44	44	45
Total bus miles.....	Millions.....	1,092	1,157	1,209	1,195	1,126	1,118	1,102	1,081	1,132
Revenue passengers.....	Millions.....	366	378	401	396	351	340	332	338	360
Revenue passenger-miles.....	Billions.....	19.3	23.8	25.3	27.7	25.4	25.1	25.7	25.4	27.2
Operating revenue, all services.....	Mil. dol.....	556	701	901	1,152	1,172	1,232	1,303	1,388	1,627
Operating expenses.....	Mil. dol.....	495	600	812	1,070	1,103	1,180	1,248	1,334	1,539
Net operating revenue ⁴	Mil. dol.....	61	101	89	82	68	52	55	54	88

¹Estimated. ²Includes duplication between carriers. ³Operating companies only. ⁴Before income taxes.

Source: American Bus Association, Washington, D.C., *Bus Facts*, annual.

NO. 1136. CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS: 1960 TO 1978

[Carriers subject to ICC regulations. See text, p. 636, for class limits. See also *Historical Statistics, Colonial Times to 1970*, series Q 69-75]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978
Carriers reporting ¹	Number.....	143	156	71	81	77	78	42	43
Number of employees, average.....	1,000.....	35	35	34	36	31	32	27	26
Compensation of employees.....	Mil. dol.....	198	250	317	415	383	446	400	412
Operating revenue.....	Mil. dol.....	463	607	722	933	942	975	989	1,021
Passenger revenue ²	Mil. dol.....	382	467	524	662	651	645	655	671
Special bus revenue and other.....	Mil. dol.....	81	141	198	271	291	(NA)	314	345
Expenses.....	Mil. dol.....	405	514	639	859	880	937	924	983
Net operating revenue.....	Mil. dol.....	58	90	83	74	61	37	45	38
Ordinary income:									
Before income taxes.....	Mil. dol.....	55	90	88	93	83	49	58	57
After income taxes.....	Mil. dol.....	28	52	52	61	56	32	40	41
Passenger vehicles in service ³	1,000.....	12.7	13.3	13.3	13.8	9.7	(NA)	8.3	8.5
Owned end of year ³	1,000.....	10.9	11.3	10.2	9.9	9.6	(NA)	8.0	7.8
Intercity.....	1,000.....	11.1	10.1	9.2	8.6	8.7	(NA)	7.7	7.6
Vehicle-miles, passenger.....	Million.....	843	947	871	886	835	(NA)	754	728
Revenue passengers carried.....	Million.....	268	219	174	169	147	(NA)	122	118
Expense per vehicle-mile.....	Dollar.....	.48	.54	.73	.97	1.05	(NA)	1.23	1.35

NA Not available. ¹Excludes carriers predominantly in local or suburban service and carriers engaged in transportation of both property and passengers. ²Includes \$4 million from Government authorities for current operations.

³Regular route, intercity and local.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States, 1960-1970*, Part 7, and 1974-1978, Part 2, annual; except 1976, *Financial and Operating Statistics, Class I Motor Carriers of Passengers*, statement No. 750, semiannual. (Discontinued in 1979.)

NO. 1137. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY: 1960 TO 1976

[See headnote table 1136. See also *Historical Statistics, Colonial Times to 1970*, series Q 76-81]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976 ¹
Carriers reporting.....	Number.....	935	1,114	1,376	1,525	1,442	757	770	852
Number of employees, average.....	1,000.....	327	375	500	542	580	500	409	445
Compensation of employees.....	Mil. dol.....	2,103	2,948	4,914	6,866	7,411	6,693	6,991	7,564
Operating revenue.....	Mil. dol.....	4,763	7,131	11,137	14,994	16,600	16,751	16,164	18,360
Expenses.....	Mil. dol.....	4,645	6,760	10,763	14,156	15,787	15,953	15,451	17,236
Net operating revenue.....	Mil. dol.....	119	371	375	838	813	797	713	1,124
Ordinary income, before taxes ²	Mil. dol.....	81	329	275	763	691	744	(NA)	(NA)
Ordinary income, after taxes ²	Mil. dol.....	37	209	150	460	427	438	264	332
Owned revenue vehicles.....	1,000.....	279	355	483	530	555	533	(NA)	(NA)
Trucks.....	1,000.....	31	36	54	56	58	53	(NA)	(NA)
Truck tractors.....	1,000.....	88	105	135	148	154	146	(NA)	(NA)
Trailers (semi and full).....	1,000.....	161	214	294	327	343	334	(NA)	(NA)
Intercity vehicle-miles.....	Million.....	7,203	9,154	11,498	14,177	14,800	13,160	(NA)	(NA)
Intercity revenue freight carried.....	Mil. ton.....	276	419	552	652	698	539	(NA)	(NA)
Intercity revenue per intercity vehicle-mile.....	Dollar.....	.84	.74	.91	.99	1.05	1.14	(NA)	(NA)
Total expense per intercity vehicle-mile.....	Dollar.....	.85	.72	.94	1.00	1.06	1.21	(NA)	(NA)

NA Not available. ¹Preliminary. ²Income taxes.

NO. 1138. CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY, BY CARRIER: 1975 AND 1978

[See headnote, table 1136. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user.]

ITEM	Unit	COMMON CARRIER, GENERAL FREIGHT		COMMON CARRIER ¹		CONTRACT CARRIER ¹		CARRIERS OF HOUSEHOLD GOODS	
		1975	1978	1975	1978	1975	1978	1975	1978
Carriers reporting.....	Number.....	368	345	330	514	50	66	32	33
Number of employees, avg.....	1,000.....	379	545	94	119	10	14	4	11
Compensation of employees.....	Mil. dol.....	5,726	8,818	1,046	2,140	175	315	70	152
Operating revenues.....	Mil. dol.....	11,116	17,495	3,907	8,095	453	956	866	1,381
Intercity freight.....	Mil. dol.....	10,511	17,251	3,717	7,366	411	786	765	1,255
Operating expenses.....	Mil. dol.....	10,571	16,550	3,758	7,692	432	909	849	1,370
Ordinary income before taxes.....	Mil. dol.....	432	851	109	338	17	42	32	30
Net income.....	Mil. dol.....	225	554	65	234	9	29	18	16
Total power units, intercity service.....	1,000.....	78	192	69	105	8	11	18	26
Trucks, tractors owned in operation, avg.....	1,000.....	49	147	25	41	5	7	(2)	1
Intercity vehicle-miles.....	Million.....	6,246	7,789	4,776	7,651	454	769	688	866
Tons of intercity revenue freight carried.....	Million.....	191	254	264	466	21	28	3	5

Z Less than 500. ¹Other than general freight.

Source of tables 1137 and 1138: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 2, annual.

Trucks and Truck Miles

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NO. 1139. TRUCKS AND TRUCK-MILES, BY VEHICLE AND OPERATIONAL CHARACTERISTICS: 1972 AND 1977

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

ITEM	1972				1977			
	Trucks (1,000)		Truck-miles (bil.)		Trucks (1,000)		Truck-miles (bil.)	
	Total	Ex- cluding pick- ups, panels	Total	Ex- cluding pick- ups, panels	Total	Ex- cluding pick- ups, panels	Total	Ex- cluding pick- ups, panels
Total trucks	19,745	5,283	244.5	88.8	26,213	4,062	312.5	74.2
Major use:								
Agriculture.....	4,258	1,433	37.1	10.2	4,249	1,094	36.0	7.2
Forestry and lumbering.....	187	121	3.4	2.3	217	109	4.0	2.4
Mining and quarrying.....	77	45	1.4	1.0	139	72	2.7	1.4
Construction.....	1,693	739	23.2	9.8	1,765	601	25.7	8.1
Manufacturing.....	443	260	10.1	7.4	368	197	8.8	6.2
Wholesale trade.....	1,875	928	32.0	18.6	859	414	19.4	11.3
Retail trade.....	770	678	29.6	28.3	1,149	345	17.2	6.0
For hire.....	770	678	29.6	28.3	547	453	23.7	22.0
Personal transportation.....	8,122	191	79.5	1.4	14,261	35	143.4	.1
Utilities and services.....	1,995	708	23.8	7.5	2,122	536	26.1	5.7
All other.....	327	182	4.4	2.6	537	206	5.6	3.8
Body type:								
Pickup.....	14,464	(X)	155.7	(X)	17,632	(X)	182.9	(X)
Panel, multi-stop ¹					4,519	(X)	55.4	(X)
Platform and cattle rack.....	2,460	2,460	27.6	27.6	1,779	1,779	18.9	18.9
Vans ¹	1,134	1,134	35.1	35.1	887	887	32.7	32.7
Utility truck.....	370	370	4.1	4.1	201	201	2.2	2.2
Dump truck.....	468	468	6.5	6.5	452	452	6.4	6.4
Tank truck.....	316	316	8.0	8.0	272	272	7.3	7.3
All other.....	536	536	7.5	7.5	471	471	6.7	6.7
Type of fuel:								
Gasoline.....	17,342	4,195	186.9	44.9	25,174	3,094	267.0	29.8
Diesel and LPG.....	860	808	40.8	39.9	1,030	983	45.5	44.4
Not reported.....	1,544	281	16.8	4.1	9	5	-	-
Size-class:								
Light (10,000 lbs. or less GVW ²).....	14,598	1,084	154.5	10.2	22,395	680	238.4	5.5
Medium (10,001-19,500 lbs. GVW ²).....	2,822	1,942	29.3	18.8	1,583	1,153	16.2	10.9
Light-heavy (19,501-26,000 lbs. GVW ²).....	828	792	8.8	8.3	802	796	8.2	8.2
Heavy-heavy (26,001 lbs. or more GVW ²).....	1,500	1,468	52.0	51.5	1,433	1,433	49.7	49.7
Annual miles:								
Less than 5,000 miles.....	4,621	1,578	10.5	3.5	6,280	1,422	13.1	2.6
5,000-9,999 miles.....	5,540	1,159	37.3	7.8	6,298	735	43.5	4.9
10,000-19,999 miles.....	6,598	1,316	83.0	17.0	9,691	810	122.7	10.7
20,000-29,999 miles.....	1,647	453	36.7	10.3	2,408	358	54.1	8.2
30,000-49,999 miles.....	772	328	27.3	12.0	980	302	34.2	11.2
50,000 miles or more.....	570	450	49.7	38.2	557	435	44.9	36.6
Year model:								
1-2 years old.....	2,915	634	54.8	19.4	4,485	389	77.2	14.9
3-4 years old.....	3,722	866	62.9	24.0	4,583	636	71.8	19.2
Over 4 years old.....	13,110	3,784	126.9	45.5	17,145	3,037	163.5	40.1
Vehicle type:								
Single-unit trucks.....	18,836	4,392	202.2	46.8	25,380	3,229	271.9	33.6
2-axle.....	18,289	3,862	193.3	38.1	24,941	2,791	265.2	28.9
3-axle.....	548	529	8.9	8.7	439	438	6.7	6.7
Truck-tractor combinations.....	909	892	42.3	42.0	835	835	40.6	40.6
3-axle.....	125	123	3.0	3.0	68	68	1.4	1.4
4-axle.....	273	273	9.5	9.5	235	235	8.1	8.1
5-axle.....	417	417	26.3	26.3	433	433	26.7	26.7
All other.....	95	79	3.6	3.3	97	97	4.4	4.4
Range of operation:								
Local.....	16,057	4,037	163.2	40.1	22,240	2,800	228.0	29.3
Short-range (200 miles or less).....	1,717	710	41.3	23.3	2,189	552	48.8	20.5
Long-range (more than 200 miles).....	469	312	24.5	22.4	562	305	26.5	22.2
Not reported.....	1,504	225	15.5	3.0	1,222	405	9.2	2.2

- Represents zero. X Not applicable. ¹Vans similar to panel trucks are included in panel, multi-stop. ²Gross vehicle weight (empty-weight of the vehicle plus the maximum carried load).

Source: U.S. Bureau of the Census, *U.S. Census of Transportation: 1972, TC72-T52, and 1977 TC77-T-52.*

NO. 1140. RAILROADS—SUMMARY STATISTICS: 1950 TO 1978

[As of Dec. 31, or calendar year data, except as noted. Prior to 1960, excludes Alaska and Hawaii. Covers class I and II railroads, excluding switching and terminal companies, except as noted. Includes intercorporate duplications. See also *Historical Statistics, Colonial Times to 1970*, series Q 284-312, Q 330, Q 356-363, and Q 367-377]

ITEM	Unit	1950	1955	1960	1965	1970	1975	1976	1977	1978
Operating companies ¹	Number.....	471	441	407	372	351	340	314	320	59
Employees ²	1,000.....	1,237	1,071	793	655	577	502	505	510	480
Compensation.....	Mill. dol.....	4,645	5,045	4,957	4,887	5,646	7,674	8,618	9,356	9,734
Mileage:										
Road owned, first track ³	1,000.....	224	221	218	211	206	199	176	190	178
Track operated:										
Reporting railroads ⁴	1,000.....	396	391	382	371	360	340	295	321	322
First track ⁴	1,000.....	237	234	230	226	220	215	191	209	196
Other main tracks	1,000.....	40	39	35	31	29	21	15	21	26
Yardtrack, sidings	1,000.....	119	118	117	113	112	105	89	101	101
Operated by receivers ⁵	1,000.....	12	12	1	2	23	27	(NA)	(NA)	(NA)
Equipment:⁶										
Locomotives in service.....	1,000.....	43.0	33.5	31.2	30.1	29.1	30.2	29.6	29.7	27.0
Avg. tractive effort ⁷	1,000 lb.....	57.1	65.0	61.3	63.1	81.9	82.1	82.2	82.2	82.1
Cars in service:										
Passenger-train.....	1,000.....	37.4	32.1	25.7	20.0	11.4	6.7	5.6	5.7	2.4
Freight train ⁸	1,000.....	1,746	1,724	1,690	1,515	1,454	1,345	1,309	1,275	1,201
Average capacity ¹⁰	Tons.....	52.6	53.7	55.4	59.8	67.1	73.0	73.8	75.5	77.8
Capital and property investment:¹¹										
Road and equipment, book value ¹²	Mill. dol.....	30,174	33,035	35,513	35,489	37,918	40,196	36,577	38,342	38,702
Depreciation reserve ¹³	Mill. dol.....	6,629	7,314	8,532	9,342	9,930	10,650	9,472	9,984	10,377
Capitalization outstanding ¹⁴	Mill. dol.....	18,274	(NA)	16,134	14,857	14,339	13,473	13,976	14,781	16,343
Capital surplus and retained income.....	Mill. dol.....	7,037	(NA)	11,356	12,945	13,002	11,297	11,271	12,039	18,825
Stock paying dividends.....	Mill. dol.....	6,769	7,300	5,617	4,845	3,595	3,402	3,344	3,745	-
Dividends declared.....	Mill. dol.....	349	476	412	533	486	458	477	629	521
Interest accrued on funded debt.....	Mill. dol.....	367	374	387	403	554	716	714	688	774
Income and expenses:										
Operating revenues.....	Mill. dol.....	9,587	10,230	9,642	10,425	12,209	16,929	19,190	20,800	22,138
Operating expenses.....	Mill. dol.....	7,135	7,724	7,657	8,003	9,805	13,957	15,820	17,398	21,424
Tax accruals.....	Mill. dol.....	1,212	1,101	1,020	949	1,104	1,684	1,980	2,040	2,097
Net railway operating income.....	Mill. dol.....	1,055	(NA)	595	980	506	36	58	10 - 136	451
Net income ¹⁵	Mill. dol.....	855	959	473	866	1,126	1,712	10 - 145	10 - 158	10 - 284
Passenger service:										
Passengers carried.....	Mill.....	488	439	327	306	289	270	272	276	262
Passenger-miles.....	Mill.....	31,790	28,548	21,284	17,454	10,786	9,948	10,317	10,306	10,223
Commution ¹⁶	Mill.....	4,990	4,776	4,197	4,128	4,592	4,513	4,738	4,586	4,668
Coach ¹⁶	Mill.....	17,443	17,314	13,422	11,069	5,414	4,750	5,277	5,185	5,088
Parlor and sleeping car ¹⁰	Mill.....	9,338	6,441	3,643	2,191	765	502	570	524	467
Passenger revenue.....	Mill. dol.....	815	744	641	556	423	539	592	612	608
Revenue per passenger-mile.....	Cents.....	2.56	2.61	3.01	3.19	3.92	5.41	5.77	5.94	(NA)
Avg. journey per passenger.....	Miles.....	65.14	65.88	65.05	57.07	37.26	36.81	37.88	37.31	(NA)
Freight service:										
Freight revenue.....	Mill. dol.....	7,934	8,665	8,152	9,037	11,124	15,623	17,707	19,232	20,610
Revenue-tons originated.....	Mill.....	1,421	1,459	1,301	1,479	1,572	1,470	1,481	1,519	1,431
Tons carried one mile.....	Bil.....	592	627	575	706	771	759	799	834	868
Revenue ton-miles per mile of road.....	1,000.....	2,497	2,679	2,497	3,121	3,468	3,161	3,121	3,542	(NA)
Revenue per ton-mile.....	Cents.....	1.341	1.382	1.417	1.281	1.443	2.060	2.214	2.306	2.374
Haul per ton, U.S. as a system.....	Miles.....	416	430	442	477	490	516	540	549	606
Accidents:¹⁸										
Persons killed.....	Number.....	3,398	2,667	2,248	2,399	2,225	1,560	1,630	1,530	1,646
Persons injured.....	Number.....	33,255	27,832	19,377	25,780	21,327	54,306	65,331	67,867	72,545

- Represents zero. NA Not available. ¹Includes unofficial companies and, through 1960, circular companies; see text, p. 834. ²Average mid-month count. ³Includes lessors, proprietary, unofficial, and, through 1960, circular companies. ⁴Includes mileage in Canada. ⁵Includes track operated by trustees. ⁶Includes switching and terminal companies, except average tractive effort and average capacity. ⁷For 1950 and 1955, steam locomotives of class I railroads; beginning 1960, all locomotives of class I railroads. ⁸Represents horsepower. In thousands. ⁹Excludes caboose cars. ¹⁰Class I railroads only. ¹¹Includes lessors. ¹²Increase in investment over a period of years cannot be obtained accurately by subtraction of 1 year's investment from that of another owing to reorganization, sale or abandonment, reclassification, etc. Also includes proprietary companies. ¹³Includes amortization, applicable to proprietary companies. ¹⁴Comprises common stock, preferred stock, and funded debt unmaturing. ¹⁵Represents total retained earnings. ¹⁶Minus sign (-) denotes deficit. ¹⁷After extraordinary and prior period items. ¹⁸Total revised; revisions not available for detail. ¹⁹Includes highway grade crossing casualties. Beginning 1975 not comparable with previous years due to change in requirements for reporting injuries.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 1, annual, and, 1950-1965, *Accident Bulletin*, annual. Beginning 1970, accident data from U.S. Federal Railroad Administration, *Accident Bulletin*, annual.

NO. 1141. RAILROAD COMPANIES, BY CLASS: 1950 TO 1978

[Prior to 1960, excludes Alaska and Hawaii. See text, p. 636, for explanation of class limits]

CLASS OF COMPANY	1950	1955	1960	1965	1970	1974	1975	1976	1977	1978
Total	1,038	935	842	763	708	677	663	576	584	575
Class I line-haul operating.....	127	126	106	76	71	74	74	57	58	40
Lessors to class I.....	179	155	128	116	114	115	107	81	63	63
Class II line-haul operating.....	171	155	304	302	273	258	245	240	251	19
Lessors to class II.....	6	8	8	15	14	9	8	7	6	6
Switching and terminal ²	253	237	221	205	190	174	170	158	161	22
Proprietary.....	100	67	53	45	39	38	38	36	34	-
Unofficial.....	9	6	1	4	7	9	21	17	11	-

- Represents zero. ¹Includes class III railroads for 1950, 1955, and 1978, and circular railroads through 1960, not shown separately. ²Includes operating, lessor, proprietary, and unofficial companies, and, through 1960, circular.

Source: U.S. Interstate Commerce Commission, 1950, *Statistics of Railways in the United States*; thereafter, *Transport Statistics in the United States*, Part 1, annual.

NO. 1142. RAILROADS—MILES OF ROAD OWNED, BY DISTRICT: 1960 TO 1978

[In thousands. As of Dec. 31. Data are for actual length of line owned by line-haul companies in each State without duplication]

DISTRICT	1960	1970	1972	1973	1974	1975	1976	1977	1978
Total	217.6	205.8	202.8	201.1	200.4	199.1	175.8	190.4	178.3
Eastern.....	56.3	52.3	51.2	50.7	50.4	50.1	26.3	42.8	38.1
Southern.....	38.6	37.4	37.4	37.4	37.3	37.0	37.2	36.8	34.7
Western.....	122.1	116.1	114.1	113.0	112.7	112.0	111.7	110.2	105.5
Unassigned.....	.6	(z)	(z)	-	-	-	.8	.6	-

- Represents zero. Z Less than 50.

NO. 1143. RAILROADS—EQUIPMENT IN SERVICE, FUEL AND POWER CONSUMED, AND RAILS AND TIES LAID: 1960 TO 1978

[See text, p. 636, for definition of class I. See also *Historical Statistics, Colonial Times to 1970*, series Q 301-305 and 388-397]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	¹ 1977	¹ 1978
Locomotives	1,000	31.2	30.1	29.1	29.3	29.9	30.2	30.2	29.6	27.3	27.0
Steam.....	1,000.....	.4	.1	-	-	-	-	-	-	-	-
Electric.....	1,000.....	.5	.4	.3	.3	.2	.2	.2	.2	.1	.1
Diesel.....	1,000.....	30.2	29.6	28.8	29.0	29.4	29.7	29.7	29.1	27.1	26.9
New units installed ¹	Number.....	389	1,387	271	962	597	649	588	146	(NA)	(NA)
Freight cars ²	1,000	1,690	1,515	1,454	1,411	1,367	1,369	1,345	1,309	1,232	1,167
Box.....	1,000.....	700	593	590	567	558	554	531	503	466	376
Gondola and hopper.....	1,000.....	831	754	724	712	697	684	685	681	651	637
Other.....	1,000.....	159	168	140	132	132	132	129	125	115	154
Aggregate capacity ¹	Mil. tons.....	91.9	88.3	95.6	96.1	95.6	95.7	95.9	93.7	93.0	90.8
Average capacity ¹	Tons.....	55.4	59.8	67.1	69.6	70.5	71.4	73.0	73.8	75.5	77.8
New units installed ¹	1,000.....	54.0	62.9	37.3	21.5	26.9	28.1	31.2	23.5	(NA)	(NA)
Passenger-train cars	1,000	25.7	20.0	11.4	7.8	7.4	7.1	6.7	5.6	5.5	2.2
Coaches.....	1,000.....	10.3	8.1	6.5	5.5	5.3	5.1	4.9	4.1	(NA)	(NA)
Other.....	1,000.....	15.5	11.9	4.8	2.2	2.1	2.0	1.8	1.6	(NA)	(NA)
New units installed ¹	Number.....	251	666	33	4	-	-	-	325	(NA)	(NA)
Fuel and power consumed: ¹											
Diesel oil.....	Mil. gal.....	3,472	3,742	3,808	4,074	4,223	4,199	3,806	3,969	(NA)	(NA)
Electricity.....	Mil. kWh.....	1,641	1,509	1,341	1,384	1,230	1,590	1,553	1,415	(NA)	(NA)
Rails and ties laid: ^{1,3}											
Rails.....	1,000 sh. tons.....	1,066	1,167	1,174	1,400	1,435	1,591	1,244	(NA)	(NA)	(NA)
Crossties.....	Mil.....	16.4	17.0	19.6	22.0	19.9	20.9	20.5	(NA)	(NA)	(NA)
Switch, bridge ties.....	Mil. bd. ft.....	63.4	61.7	60.0	59.9	58.1	64.5	60.1	(NA)	(NA)	(NA)

- Represents zero. NA Not available. ¹Class I railroads. ²Excludes caboose cars. ³New and used rails and ties for replacement, additional tracks, new lines, extensions.

Source of tables 1142 and 1143: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 1, annual, and *Annual Report*.

NO. 1144. RAILROADS, CLASS I LINE-HAUL—REVENUES AND EXPENSES: 1960 TO 1979

[In millions of dollars. Beginning 1978, data not comparable with prior years due to change in accounting system used. Minus sign (-) denotes deficit. See text, p. 636, for definition of class I. See also *Historical Statistics, Colonial Times to 1970, series Q 364-366 and Q 378*]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Operating revenues.....	9,514	10,208	11,992	14,989	17,207	16,684	18,837	20,430	21,622	25,714
Amtrak.....	(x)	(x)	(x)	202	257	253	287	310	321	398
Freight.....	8,025	8,836	10,922	13,770	15,767	15,399	17,384	18,892	19,839	23,540
Passenger.....	640	553	420	442	538	536	592	609	603	703
Mail and express.....	431	388	183	91	103	(1)	(1)	(1)	(1)	(1)
Other.....	417	431	466	484	542	496	574	622	859	1,073
Operating expenses.....	7,565	7,850	9,660	11,899	13,952	13,792	15,578	17,132	21,453	25,056
Amtrak.....	(x)	(x)	(x)	327	463	531	651	735	863	994
Maintenance.....	2,952	3,011	3,778	4,640	5,278	5,429	6,429	7,301	9,575	10,093
Way and structures.....	1,192	1,236	1,613	2,041	2,365	2,433	3,034	3,466	4,047	4,672
Equipment.....	1,760	1,775	2,165	2,599	2,913	2,986	3,395	3,835	5,528	5,421
Transportation, rail line.....	3,833	4,020	4,873	6,061	6,979	6,987	7,500	8,071	8,580	10,460
Other.....	781	819	1,009	871	872	845	998	1,025	2,435	2,609
Tax accruals.....	999	916	1,089	1,371	1,823	1,640	1,921	1,977	(NA)	(NA)
Net revenue ²	584	962	486	698	514	21	21	-170	168	657
Net income ³	(NA)	(NA)	227	401	459	-207	-227	-111	310	897
Gross expenditures for capital improvements.....	919	1,631	1,351	1,436	1,804	1,987	2,026	2,478	3,008	3,577
Equipment.....	634	1,304	999	977	1,253	1,498	1,471	1,716	1,971	2,390
Roadway and structures.....	286	327	358	459	551	489	555	762	1,037	1,187

NA Not available. X Not applicable. ¹Mail and express is included with freight. ²Revenue from railway operation. For 1960-1977 represents net railway operating income. ³For 1970-1977 represents ordinary income.

NO. 1145. RAILROADS, CLASS I LINE-HAUL—SELECTED PASSENGER STATISTICS: 1960 TO 1979

[See text, p. 636, for definition of class I. See also *Historical Statistics, Colonial Times to 1970, series Q 313-315*]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Avg. miles of road operated.....	1,000.....	94	77	50	28	31	32	33	32	30	32
Passenger revenue.....	Bil. dol.....	640	553	420	442	538	536	592	606	608	708
Revenue per passenger-mile:											
Incl. commutation passengers.....	Cents.....	3.01	3.18	3.90	4.76	5.22	5.50	5.59	5.91	5.95	6.26
Excl. commutation passengers.....	Cents.....	3.03	3.14	4.02	5.19	5.85	6.31	6.30	6.64	6.92	6.99
Revenue passengers carried.....	Mil.....	326	299	284	254	274	259	268	275	281	301
Amtrak.....	Mil.....	(x)	(x)	(x)	17	18	18	19	19	19	21
Revenue passenger-miles.....	Bil.....	21.3	17.4	10.6	6.3	10.3	9.9	10.6	10.3	10.2	11.3
Amtrak.....	Bil.....	(x)	(x)	(x)	3.8	4.3	3.9	4.3	4.2	4.2	4.9
Average distance.....	Miles.....	65.2	58.2	37.9	36.6	37.7	36.8	39.6	37.5	36.3	37.5
Revenue passenger-miles per train-mile.....	Number.....	101	101	117	153	161	150	158	156	159	185
Revenue passenger-miles per car-mile.....	Number.....	19.3	19.5	25.8	34.2	35.3	35.2	36.7	36.5	36.4	(NA)
Passenger-train miles.....	Mil.....	209	172	92	61	64	66	67	66	64	60
Passenger-carrying car-miles.....	Mil.....	1,101	885	417	272	293	281	289	282	280	(NA)
Train-miles per train-hour.....	Miles.....	40.7	41.3	40.1	37.6	38.2	39.2	32.7	33.0	32.4	(NA)

NA Not available. X Not applicable.

NO. 1146. RAILROADS, CLASS I LINE-HAUL—SELECTED FREIGHT STATISTICS: 1960 TO 1979

[Excludes switching and terminal roads. Tons of 2,000 pounds. See text, p. 636, for definition of class I. See *Historical Statistics, Colonial Times to 1970, series Q 319, for train-miles per train-hour*]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Average miles of road operated.....	1,000.....	219	212	209	208	207	206	205	200	197	192	183
Freight revenue.....	Bil. dol.....	8.0	8.8	10.9	12.6	13.8	15.8	15.4	17.4	18.9	20.3	23.5
Per ton-mile.....	Cents.....	1.40	1.27	1.43	1.62	1.62	1.85	2.04	2.20	2.29	2.37	2.57
Per ton.....	Dol.....	3.51	3.48	4.18	4.94	5.10	5.91	6.32	7.42	8.00	9.17	9.55
Revenue freight:												
Tons originated.....	Mil.....	1,241	1,387	1,485	1,448	1,532	1,530	1,395	1,370	1,395	1,390	1,465
Tons carried.....	Mil.....	2,291	2,539	2,616	2,544	2,701	2,716	2,437	2,448	2,439	2,217	2,446
Net ton miles.....	Mil.....	572	698	777	786	863	851	764	804	839	856	908
Average distance.....	Miles.....	251	275	292	306	332	316	310	338	350	386	371
Train miles.....	Mil.....	405	421	427	451	469	469	402	425	428	433	440
Freight car miles, loaded ¹	Bil.....	17.9	17.9	17.3	17.1	18.0	17.6	15.1	15.8	16.3	15.9	15.8
Empty.....	Bil.....	10.9	11.4	12.6	13.2	13.2	13.1	12.5	12.7	12.4	11.1	11.5
Net ton-miles per train-mile ¹	Number.....	1,466	1,683	1,820	1,774	1,844	1,875	1,938	2,232	2,029	2,029	(NA)
Net ton-miles per loaded car-mile ¹	Number.....	33.9	39.7	44.9	46.7	48.7	50.1	51.7	59.9	53.2	55.1	(NA)
Train-miles per train-hour.....	Miles.....	19.5	20.1	20.1	20.0	19.8	19.9	20.0	20.1	19.6	19.3	(NA)

NA Not available. ¹Revenue and nonrevenue freight.

Source of tables 1144-1146: U.S. Interstate Commerce Commission, *Annual Report; Transport Statistics in the United States*, Part 1, annual; and related quarterly reports, *Financial and Operating Statistics, Class I Railroads*, Statement No. 100, semiannual; and unpublished data.

NO. 1147. RAILROADS—EMPLOYEES, HOURS, AND COMPENSATION: 1960 TO 1979

[Excludes switching and terminal roads. See also *Historical Statistics, Colonial Times to 1970*, series Q 398-399]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979
Class I line-haul railroads: ²										
Employees, average	1,000	780	640	566	533	494	496	501	472	505
Man-hours paid for	Mil.	1,841	1,565	1,379	1,064	977	985	988	925	950
Average hours per employee	Hours	2,358	2,445	2,436	1,996	1,978	1,986	1,972	1,960	1,881
Compensation of employees:										
Total	Mil. dol.	4,894	4,793	5,557	7,576	7,563	8,494	9,224	9,566	10,904
Average per hour	Dol.	2.66	3.06	4.04	7.12	7.74	8.62	9.34	10.34	11.48
Average per year	Dol.	6,270	7,490	9,841	14,214	15,310	17,125	18,411	20,267	21,592

¹ Preliminary. ² See text, p. 636, for class limits.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 1, annual, and Statement No. A-300, annual.

NO. 1148. RAILROADS, CLASS I—CARS OF REVENUE FREIGHT LOADED, 1960 TO 1979, AND BY COMMODITY GROUP, 1978 AND 1979

[In thousands. Figures are 52-week totals, 1978 and 1979 data include 12 class II railroads which were class I in 1977. See text, p. 636, for definition of class I. N.e.c.=Not elsewhere classified]

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1978	1979		1978	1979
1960	30,441	554	Coal	4,428	5,254	Crushed stone, gravel, sand	955	853
1965	29,248	1,077	Metallic ores	1,710	1,765	Nonmetallic minerals, n.e.c.	763	783
1970	27,160	1,450	Chemicals, allied products	1,439	1,488	Waste and scrap materials	712	713
1971	25,266	1,356	Grain	1,340	1,428	Lumber, wood prod. (exc. furniture), n.e.c.	649	597
1972	26,105	1,448	Motor vehicles and equip.	1,261	1,122	Forwarder and shipper association traffic	624	642
1973	27,338	1,631	Pulp, paper, allied products	1,094	1,097	Coke	375	360
1974	26,184	1,610	Primary forest products	1,086	1,055	Petroleum products	358	336
1975	23,217	1,308	Food and kindred products, n.e.c.	990	953	Farm products, exc. grain	244	223
1976	23,457	1,506	Metals and products	972	917	Less than carload	26	21
1977	23,173	1,689	Stone, clay, and glass prod.	962	944	All other carloads	2,400	2,341
1978	23,355	1,841						
1979	23,877	1,858						

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

NO. 1149. REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUP—CLASS I RAILROADS AND MOTOR CARRIERS OF PROPERTY: 1975 AND 1977

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

COMMODITY GROUP	RAILROADS						MOTOR CARRIERS					
	Carloads (1,000)		Tons (mil.)		Revenue ¹ (mil. dol.)		Truckloads (1,000)		Tons (mil.)		Revenue ¹ (mil. dol.)	
	1975	1977	1975	1977	1975	1977	1975	1977	1975	1977	1975	1977
Total ²	22,930	22,823	1,395.1	1,394.7	15,899	19,394	14,562	16,240	315.1	333.1	10,549	12,196
Coal	4,844	4,809	407.6	414.9	2,146	2,698	3	6	(2)	.1	1	1
Food and kindred products	2,154	2,022	100.2	98.7	1,822	2,041	1,473	1,605	25.7	28.4	812	1,034
Nonmetallic minerals ³	1,895	1,724	150.6	139.6	596	687	326	263	7.1	6.1	39	56
Farm products	1,873	1,570	134.4	121.9	1,472	1,484	257	355	5.0	16.0	124	251
Metallic ores	1,338	1,020	106.4	83.2	468	447	32	34	.6	.7	7	10
Transportation equipment	1,135	1,417	27.3	33.6	1,293	1,988	1,639	1,383	19.9	18.3	645	726
Lumber and wood prod. ⁴	1,615	1,737	88.6	99.3	1,066	1,416	171	278	3.5	5.5	64	109
Pulp, paper, allied products	1,015	1,077	40.6	44.9	977	1,212	520	589	8.4	9.3	220	316
Chemicals, allied products	1,313	1,420	91.4	104.3	1,681	2,212	1,811	2,038	34.3	37.2	764	993
Primary metal products	796	814	51.4	55.2	848	957	1,243	1,027	23.7	19.7	496	528
Petroleum and coal prod.	787	767	45.8	46.1	573	690	3,655	4,189	90.7	102.2	442	589
Rubber, misc. plastics prod.	180	153	3.1	3.3	132	151	319	340	4.0	4.3	207	237
Stone, clay, and glass prod.	906	924	56.8	59.9	651	822	845	1,011	18.3	21.8	205	272
Fabricated metal prod. ⁵	244	112	8.2	2.9	221	121	327	431	4.2	6.5	162	277
Machinery, exc. electrical	156	110	3.6	2.7	200	163	399	369	5.5	5.3	298	318
Electrical mchy., equip.	200	171	3.2	2.9	182	187	234	225	2.6	2.7	145	162
Waste and scrap materials	744	689	38.2	36.1	359	404	36	57	.6	1.1	14	20
Freight forwarder traffic	167	235	3.2	4.3	157	211	47	36	.5	.5	18	19

^Z Less than 50 thousand tons. ¹ Gross. ² Includes commodity groups and small packaged freight shipments, not shown separately. ³ Except fuels. ⁴ Except furniture. ⁵ Except ordnance, machinery, and transport.

Source: U.S. Interstate Commerce Commission, *Freight Commodity Statistics—Class I Railroads in the United States*, annual; and *Class I Motor Carriers, Property Operating in Intercity Service*, annual.

**No. 1150. PRICE INDEXES FOR TOTAL RAILROAD FREIGHT AND SELECTED COMMODITY GROUPS:
1970 TO 1979**

[1969=100. Reflects prices for shipping a fixed set of commodities under specified and unchanging conditions]

COMMODITY	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Total railroad freight	108.8	122.4	126.1	129.3	149.7	169.4	186.6	199.1	213.1	243.4
Annual percent change.....	8.8	12.5	3.0	2.5	15.8	13.2	10.2	6.7	7.0	14.2
Farm products.....	108.3	120.8	123.5	125.2	145.3	165.0	182.7	191.3	204.9	235.0
Metallic ores.....	108.9	123.5	128.1	133.0	155.0	178.4	197.8	211.1	227.3	264.5
Coal.....	108.6	123.9	128.8	132.5	154.8	177.5	199.6	211.6	228.2	266.8
Nonmetallic minerals.....	108.0	120.7	125.6	130.0	150.5	172.4	191.7	205.5	221.2	260.4
Food products.....	108.9	122.4	126.2	128.8	148.9	168.6	185.1	195.3	210.1	239.5
Wood or lumber products.....	108.4	119.0	123.3	127.4	147.4	163.6	177.9	191.7	205.7	233.8
Pulp, paper, and allied products.....	108.9	122.4	124.1	124.5	143.5	162.7	176.1	186.5	197.1	223.4
Chemical or allied products.....	108.6	121.8	124.8	127.6	147.9	168.5	183.8	197.1	206.5	236.1
Clay, concrete, glass, or stone prod.....	109.4	122.9	126.7	131.2	153.1	174.5	192.2	206.4	223.4	255.2
Primary metal products.....	109.5	124.3	128.5	132.1	153.3	174.8	191.6	205.0	217.9	246.6
Transportation equipment.....	109.4	123.7	127.3	131.9	153.5	173.5	190.2	204.3	217.6	246.1

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

**No. 1151. MAJOR CLASS I RAILROADS CONTROLLED BY CONGLOMERATE HOLDING COMPANIES:
1967 TO 1974**

ITEM	Operating rev- enues (mil. dol.)	Freight rev- enues (mil. dol.)	Ton miles (bil.)	ITEM	Operating rev- enues (mil. dol.)	Freight rev- enues (mil. dol.)	Ton miles (bil.)
1967: Class I railroads	10,366	9,130	719	1972: Class I railroads	13,586	12,572	778
Under direct conglomerate control.....	1,038	917	74	Under conglomerate control.....	7,827	7,384	461
Percent of total.....	10.0	10.0	10.2	Percent of total.....	57.6	58.7	59.2
				Directly controlled.....	6,825	6,407	396
1970: Class I railroads	11,985	10,916	763	1974: Class I railroads	17,207	15,767	851
Under direct conglomerate control.....	5,923	5,323	369	Under conglomerate control.....	8,645	8,286	465
Percent of total.....	49.4	48.8	48.4	Percent of total.....	50.2	52.6	54.7

 Source: 1967 to 1972, U.S. Congress, Senate Committee on Government Operations, *Disclosure of Corporate Ownership*, 1974; 1974, U.S. Interstate Commerce Commission, unpublished data.

No. 1152. RAILROAD ACCIDENTS—DEATHS AND INJURIES: 1960 TO 1978

 [Casualty data prior to 1975 cover only those cases where a person lost time from that person's job or other usual activity. Beginning 1975, covers cases with lost time, those requiring medical treatment beyond first aid, termination of employment, transfer to another job, loss of consciousness, and occupational illnesses. Prior to 1975, cases where death occurred more than 24 hours after the injury were classified as injuries; beginning 1975, they were classified as deaths. See also *Historical Statistics, Colonial Times to 1970*, series Q 385-387 and Q 400-401]

TYPE OF CASUALTY	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
Persons killed, total	2,248	2,399	2,225	1,945	1,916	1,908	1,560	1,630	1,530	1,646
In hwy. grade crossing accidents.....	1,364	1,534	1,440	1,260	1,185	1,220	978	1,114	944	1,021
Involving motor vehicles ¹	1,254	1,434	1,337	1,170	1,035	1,091	765	956	822	908
Passengers on trains.....	32	11	8	47	6	7	8	5	4	13
Railroad employees on duty.....	190	172	155	127	158	140	110	100	114	122
Trespassers and other.....	2,026	2,216	2,062	1,771	1,752	1,761	1,442	1,525	1,412	1,511
Persons injured	19,577	25,789	21,327	17,930	18,245	20,818	54,306	65,331	67,867	72,545
In hwy. grade crossing accidents.....	3,424	3,801	3,336	3,265	3,283	3,249	4,168	4,831	4,649	4,256
Involving motor vehicles ¹	3,277	3,663	3,205	3,177	3,158	3,110	3,568	4,307	4,455	4,087
Passengers on trains.....	1,463	1,189	489	680	503	574	1,307	998	503	1,252
Railroad employees on duty.....	13,245	18,644	15,743	12,456	13,098	15,620	47,318	57,889	61,028	65,071
Trespassers and other.....	4,869	5,956	5,095	4,794	4,653	4,624	5,681	6,444	6,336	6,222
Hwy. grade crossings ² (1,000).....	225	216	211	210	208	209	208	208	206	201
Specially protected ³ (1,000).....	42	44	47	48	49	49	47	48	46	48

¹ Excludes motorcycles. ² Class I railroads only. ³ Includes crossings with operated gates or watchmen, during at least part of the day; and those with audible or visible signals. Excludes those with fixed signs only

 Source: 1960 and 1965, U.S. Interstate Commerce Commission and, thereafter, U.S. Federal Railroad Administration, *Accident Bulletin*, annual, and *Rail-Highway Grade Crossing Accident Bulletin*, annual.

NO. 1153. PETROLEUM PIPELINE COMPANIES—SUMMARY: 1960 TO 1976

[Refers to pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission. See also *Historical Statistics, Colonial Times to 1970*, series Q 251-263]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976
Companies reporting	Number.....	87	89	101	99	100	103	104	111
Miles of line operated	1,000.....	152	161	176	174	171	173	173	174
Investment in carrier property	Mil. dol.....	3,300	4,178	5,786	6,759	7,016	8,065	10,745	13,704
Investments and special funds	Mil. dol.....	114	59	250	327	331	444	328	298
Capitalization	Mil. dol.....	1,439	1,635	2,518	3,183	3,168	4,094	6,041	8,153
Capital stock	Mil. dol.....	384	382	450	428	437	451	431	460
Long term debt	Mil. dol.....	1,056	1,253	2,068	2,755	2,731	3,643	5,610	7,693
Operating revenues	Mil. dol.....	770	904	1,188	1,338	1,446	1,587	1,874	2,137
Operating expenses 1	Mil. dol.....	418	515	672	780	844	943	1,038	1,155
Net income	Mil. dol.....	169	218	312	332	375	352	457	599
Oil transported:									
Total delivered out of system	Mil. bbl.....	4,783	5,864	8,147	8,889	9,415	9,333	9,341	9,757
To connecting carriers	Mil. bbl.....	1,639	1,757	2,320	2,552	2,785	2,748	2,817	2,976
Terminated	Mil. bbl.....	3,144	4,107	5,827	6,336	6,630	6,585	6,523	6,781
Trunk line movement:									
Crude oil	Mil. bbl.....	3,091	3,505	4,756	5,112	5,423	5,391	5,369	5,824
Products	Mil. bbl.....	1,124	1,872	2,864	3,358	3,633	3,589	3,645	3,813

¹ Includes pipeline taxes; excludes Federal income taxes.

Source: U.S. Interstate Commerce Commission, *Transport Statistics in the United States*, Part 6, annual.

NO. 1154. PETROLEUM PIPELINE COMPANIES—CHARACTERISTICS: 1972 TO 1979

[Covers pipeline companies operating in interstate commerce and subject to jurisdiction of Interstate Commerce Commission from 1972 to 1976, and Federal Energy Regulatory Commission beginning 1977]

ITEM	Unit	1972	1973	1974	1975	1976	1977	1978	1979
Miles of pipeline, total.....	1,000.....	172.1	170.1	169.0	170.7	169.9	154.5	161.6	169.0
Gathering lines	1,000.....	42.3	42.9	40.7	40.4	37.6	34.7	36.5	36.9
Trunk lines	1,000.....	129.8	127.2	128.3	130.3	132.3	119.8	125.1	132.0
Total deliveries.....	Mil. bbl.....	8,847	9,416	9,132	9,391	9,742	10,019	10,768	11,140
Crude oil	Mil. bbl.....	5,510	5,760	5,698	5,729	5,996	6,089	6,550	6,728
Products	Mil. bbl.....	3,337	3,656	3,434	3,662	3,746	3,930	4,218	4,412
Total trunk line traffic	Bil. bbl-miles	2,687	2,502	2,632	2,692	2,918	3,895	3,723	3,577
Crude oil	Bil. bbl-miles	1,520	1,262	1,456	1,551	1,639	2,267	2,031	1,946
Products	Bil. bbl-miles	1,167	1,240	1,176	1,341	1,279	1,627	1,691	1,631
Carrier property value	Mil. dol.....	6,749	7,000	8,039	10,740	13,684	16,736	17,654	18,990
Operating revenues	Mil. dol.....	1,338	1,438	1,579	1,669	2,132	2,819	4,990	5,781
Net income	Mil. dol.....	415	408	330	456	595	478	1,696	1,648

Source: Penn Well Publishing Co., Tulsa, Oklahoma, *Oil and Gas Journal*, August 11, 1980 issue and earlier issues. (Copyright.)

NO. 1155. INTERSTATE NATURAL GAS PIPELINE COMPANIES—SUMMARY: 1960 TO 1978

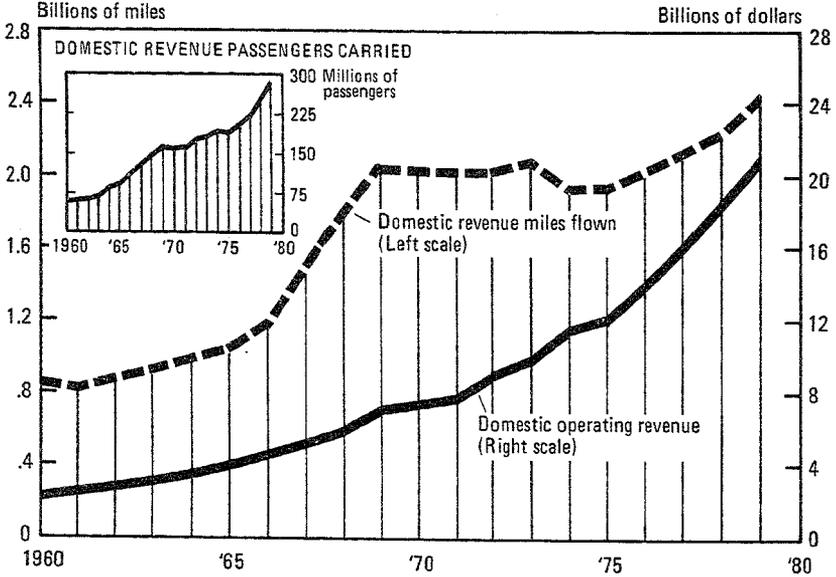
[Excludes companies whose operations are limited to production of natural gas and sales of gas at or near the point of production. Covers classes A and B interstate natural gas pipeline companies with annual gas operating revenues of \$1,000,000 or more]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978
Sales	Tril. cu. ft.....	11.8	14.7	19.9	18.8	17.9	16.5	16.2	15.7	16.2
Residential	Tril. cu. ft.....	.6	.6	.6	.6	.5	.5	.5	.6	.6
Commercial, industrial.....	Tril. cu. ft.....	2.4	2.5	2.9	2.5	2.3	1.9	1.8	1.9	1.9
For resale	Tril. cu. ft.....	8.7	11.6	16.3	15.6	15.1	14.0	13.8	13.2	13.7
Operating revenues.....	Mil. dol.....	4,571	5,584	7,955	9,870	11,637	14,278	17,317	22,289	25,966
From sales 1	Mil. dol.....	4,352	5,346	7,576	9,304	10,958	13,451	16,361	21,126	24,832
Residential	Mil. dol.....	537	488	622	699	713	756	910	1,116	1,520
Commercial, industrial.....	Mil. dol.....	731	793	1,025	1,208	1,417	1,646	2,115	2,842	3,319
For resale	Mil. dol.....	3,046	4,043	5,898	7,363	8,788	11,003	13,277	16,912	19,972
From transportation of gas to others.....	Mil. dol.....	100	113	168	293	319	387	474	559	619
Other	Mil. dol.....	119	126	191	272	359	440	482	604	515
Operation, maintenance expenses	Mil. dol.....	3,091	3,873	5,602	6,706	7,995	10,374	12,796	17,596	20,954
Production	Mil. dol.....	2,472	3,142	4,546	5,296	6,450	8,573	10,721	15,036	18,048
Storage	Mil. dol.....	21	39	63	97	113	140	159	205	243
Transmission	Mil. dol.....	306	379	534	718	788	912	1,065	1,300	1,519
Distribution	Mil. dol.....	75	65	92	120	118	122	134	178	193
Administrative, general, and other	Mil. dol.....	216	248	368	475	527	627	717	817	951
Pipeline mileage:										
Transmission lines	1,000.....	135.5	154.4	182.0	194.0	186.9	187.2	189.9	189.9	190.7
Field lines	1,000.....	42.5	47.7	51.6	55.0	55.2	57.1	58.6	60.2	63.0
Storage	1,000.....	2.9	3.1	3.5	4.0	3.6	4.2	4.3	4.2	4.3

¹ Includes other ultimate customers not shown separately.

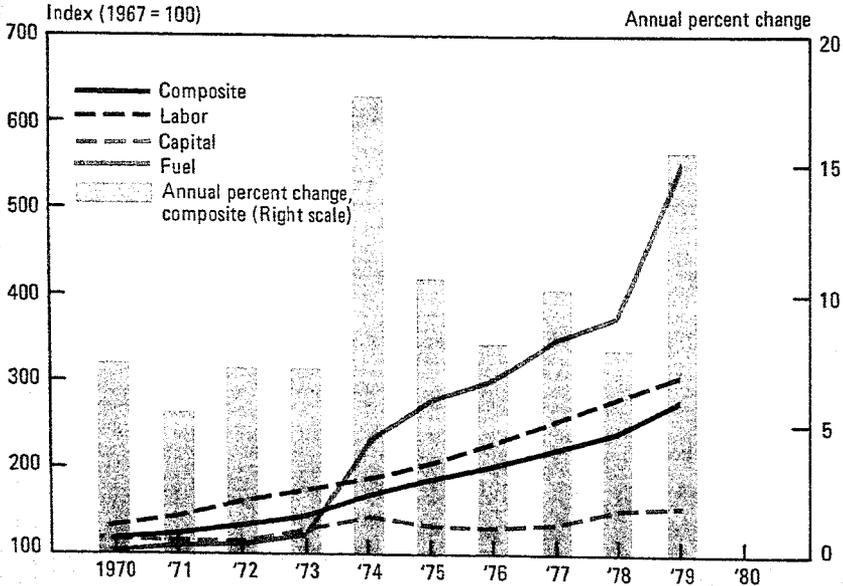
Source: 1960-1975, U.S. Federal Power Commission and, thereafter, U.S. Energy Information Administration, *Statistics of Interstate Natural Gas Pipeline Companies*, annual.

Figure 23.1
Domestic Scheduled Air Carriers — Revenues, Miles Flown, and Passengers Carried: 1960 to 1979



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1156 and 1160.

Figure 23.2
Airline Cost Indexes: 1970 to 1979



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1161.



Section 23

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 22.

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.

Air transportation data are also presented annually by the Air Transport Association of America, Washington, D.C. 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 are carried out by the FAA and the Civil Aeronautics Board (CAB). The CAB promotes and regulates the civil air transportation industry within the United States and between the United States and foreign countries. The Board grants licenses to provide air transportation service, approves or disapproves proposed rates and fares, and approves or disapproves proposed agreements and corporate relationships involving air carriers. The responsibility for investigation of aviation accidents resides with the National Transportation Safety Board.

The principal activities of the FAA include: 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 for the airways; development of general aviation; and promotion of air safety.

These agencies publish monthly and quarterly financial and traffic statistical 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.

Air carriers and service.—The CAB issues "certificates of public convenience and necessity" in two categories: *Certificated route air carriers* (often referred to as "scheduled airlines") and *supplemental (or charter) air carriers* (see headnote, table 1162). Certificated route air carriers are passenger/cargo and all-cargo carriers which are authorized to perform *scheduled service* over specified routes according to published flight schedules. Certificated route carriers are, however, allowed to perform some *nonscheduled service* (i.e., revenue flights outside of the regular schedule, such as charter flights, and all nonrevenue flights incident to such flights).

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 I.

NO. 1156. CERTIFICATED ROUTE PASSENGER/CARGO AIR CARRIERS—NUMBER, OPERATING REVENUES, AND EXPENSES: 1960 TO 1979

(In millions of dollars, except number of carriers. Minus sign (–) denotes loss. See also headnote, table 1160, and *Historical Statistics, Colonial Times to 1970*, series Q 591–603)

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
DOMESTIC										
Number of air carriers ²	42	40	35	30	29	30	30	30	32	49
Revenues	2,129	3,609	7,131	9,605	11,440	11,911	13,789	15,690	18,189	21,595
Passenger.....	1,860	3,142	6,246	8,379	9,758	10,113	11,855	13,489	15,508	18,666
Mail (including subsidy).....	113	158	205	258	259	247	292	355	336	416
Express and freight.....	103	220	461	615	673	696	830	961	1,328	1,455
Other.....	53	89	219	352	758	855	812	886	1,017	1,059
Expenses	2,091	3,165	7,128	9,117	10,649	11,781	13,213	15,036	17,171	21,472
Aircraft.....	1,043	1,811	3,970	4,838	5,662	6,347	7,123	8,175	9,054	11,798
Flying operations.....	601	855	2,098	2,606	3,297	3,869	4,401	5,229	5,669	7,976
Fuel costs.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	5,261
Direct maintenance flight equipment.....	258	640	1,127	1,397	1,500	1,595	1,802	1,986	2,155	2,453
Depreciation and amortization.....	184	316	745	835	865	883	920	960	1,230	1,369
Ground and indirect.....	1,048	1,354	3,157	4,279	4,987	5,434	6,090	6,861	8,117	9,674
Net operating income	38	443	3	487	799	130	576	654	1,018	123
INTERNATIONAL										
Number of air carriers ²	13	10	4	4	3	3	3	3	3	3
Revenues	685	1,199	1,914	2,527	2,922	3,064	3,316	3,774	4,702	5,575
Passenger.....	528	887	1,380	1,895	2,121	2,230	2,411	2,786	3,305	4,072
Mail (including subsidy).....	48	82	103	71	84	90	85	88	117	131
Express and freight.....	59	131	197	268	336	356	382	425	660	756
Other.....	51	99	234	293	381	388	438	475	620	616
Expenses	639	1,001	1,894	2,460	2,995	3,060	3,182	3,552	4,356	5,506
Aircraft.....	304	509	944	1,212	1,608	1,627	1,650	1,822	2,173	2,884
Flying operations.....	180	263	515	681	1,038	1,050	1,089	1,170	1,352	1,960
Fuel costs.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	1,456
Direct maintenance flight equipment.....	58	146	241	317	356	364	368	414	498	571
Depreciation and amortization.....	66	100	188	214	214	213	193	238	323	353
Ground and indirect.....	336	493	950	1,248	1,387	1,433	1,532	1,730	2,182	2,622
Net operating income	45	198	19	67	-73	4	134	222	347	69

NA Not available. ¹Preliminary. ²Each airline counted only in group in which greater portion of its operations prevailed.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Data from U.S. Civil Aeronautics Board.

NO. 1157. CIVIL FLYING—SUMMARY: 1960 TO 1979

[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	1960	1965	1970	1974	1975	1976	1977	1978	1979
Airports in operation ¹	Number	6,881	9,566	11,261	13,062	13,251	13,770	14,117	14,574	14,746
Heliports	Number	66	401	790	1,430	1,524	1,674	1,850	1,986	2,108
Public	Number	2,780	3,570	4,260	4,575	4,573	4,667	4,708	4,751	4,761
Private	Number	4,101	5,996	7,001	8,487	8,678	9,103	9,409	9,823	9,985
Lighted airports	Number	2,133	2,878	3,554	3,999	4,171	4,362	4,483	4,567	4,631
Airports with paved runways	Number	1,893	2,747	3,805	4,716	4,855	5,106	5,313	5,484	5,618
Miles of Federal airways	1,000	(NA)	(NA)	324.7	405.7	403.9	413.5	623.9	605.7	615.5
Airport Development Aid Program: ²										
Air carrier airports	Mil. dol.	73.3	44.3	39.4	258.4	287.8	355.2	434.3	465.0	506.6
General aviation airports	Mil. dol.	8.7	15.2	11.1	41.3	52.1	61.1	72.0	74.8	117.6
Total civil aircraft ³	1,000	111.6	142.1	154.5	189.0	196.9	205.9	215.3	236.8	251.5
Active aircraft	1,000	78.8	97.7	134.5	164.2	171.2	180.9	186.8	201.3	(NA)
Air carriers, total ⁴	1,000	2.2	2.9	2.8	2.7	2.5	2.5	2.5	2.6	3.6
General aviation aircraft ⁵	1,000	76.5	95.4	131.7	161.5	168.5	178.3	184.3	198.7	(NA)
Fixed-wing aircraft:										
Multi-engine	1,000	7.2	12.0	18.4	23.4	24.6	25.7	26.6	28.9	(NA)
Single-engine:										
4-place and over	1,000	34.8	49.8	64.6	78.9	82.6	88.2	88.2	101.5	(NA)
3-place and less	1,000	33.5	31.4	44.9	53.0	54.4	56.7	57.3	59.2	(NA)
Rotorcraft ⁶	1,000	.6	1.5	2.2	3.6	4.1	4.5	4.7	5.1	(NA)
Balloons, blimps, gliders, etc.	1,000	.4	.8	1.6	2.5	2.8	3.2	4.4	4.0	(NA)
Airman certificates held ⁷	1,000	518	684	1,023	1,048	1,052	1,079	1,133	1,161	1,192
Pilot ⁸	1,000	348	480	733	734	728	744	784	799	815
Held by women	Percent	2.9	3.7	4.0	5.0	5.2	5.6	6.0	6.2	6.4
Airline transport	1,000	18	22	34	41	43	45	50	56	64
Commercial	1,000	90	117	187	192	189	188	189	186	182
Private	1,000	139	196	304	306	306	309	327	338	343
Student	1,000	99	139	196	181	177	189	204	205	210
Nonpilot ⁹	1,000	170	204	290	314	324	335	349	362	377
Ground technicians ¹⁰	1,000	151	175	241	262	271	280	291	302	307
General aviation: ⁵										
Hours flown ¹¹	Mil.	13.1	16.7	26.0	31.4	32.0	33.9	35.8	39.4	(NA)
Miles flown ¹¹	Bil.	1.7	2.6	3.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Fuel consumed: ¹²										
Gasoline	Mil. gal.	(NA)	304	362	403	397	433	465	(NA)	(NA)
Jet fuel ¹³	Mil. gal.	(NA)	183	415	483	510	588	711	(NA)	(NA)
Domestic air cargo, revenue ton-miles flown ¹⁴	Mil.	724	1,661	2,581	3,221	3,020	3,161	3,406	3,824	3,814
Certificated route carriers:										
Scheduled service	Mil.	476	1,112	2,215	2,888	2,718	2,888	3,125	3,505	3,466
Nonscheduled service ¹⁵	Mil.	135	330	80	52	39	36	46	57	89
Supplemental carriers ¹⁶	Mil.	112	220	285	280	263	237	235	262	260
Aircraft accidents: ¹⁷										
General aviation ⁵	Number	4,793	5,196	4,712	4,425	4,237	4,193	4,266	4,494	4,238
Fatal	Number	429	538	641	729	675	695	702	793	658
Fatalities	Number	787	1,029	1,310	1,438	1,345	1,320	1,436	1,770	1,311
Air carrier ¹⁸	Number	90	83	55	47	45	28	26	24	33
Fatal	Number	17	9	8	9	3	4	5	6	6
Fatalities	Number	499	261	146	467	124	45	655	163	353
Hijacking incidents, worldwide	Number	-	5	83	26	25	18	29	31	27
U.S.-registered aircraft	Number	-	4	27	7	12	4	3	13	13
Successful ¹⁹	Number	-	1	18	3	4	1	-	2	6
Foreign-registered aircraft	Number	-	1	56	19	13	14	26	18	14
Successful ¹⁹	Number	-	-	37	5	3	6	16	8	8

- Represents zero. NA Not available. ¹Existing 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—public use and public services, public control; Private—(a) public use and public services, private control, and (b) no public services, private control, military control, or Federal government control. ²Federal funds only; fiscal year data. Includes U.S. outlying areas. Prior to July 1, 1970, data are for Federal-Aid Airport Program (FAAP). ³Includes gliders, dirigibles, balloons, and blimps. ⁴Registered, not necessarily in operation. Includes helicopters. ⁵See headnote, table 1158. ⁶Includes autogyros; excludes air carrier helicopters. ⁷For some categories, no medical examination is required; therefore, those data represent all certificates ever issued. ⁸Includes helicopter, glider, and lighter-than-air pilots, not shown separately. ⁹Includes control tower operators, flight navigators and engineers, and ground technicians. ¹⁰No medical examinations are required; therefore, data represent all certificates on record and include retired or otherwise inactive technicians. ¹¹Hours flown and miles flown for 1974-1976 are revised. Detail by type of flying is not available at this time. In 1977, the 35,792 hours flown comprised: 10,309 hours of business and executive flying; 6,641 hours of commercial flying (including air taxi, aerial application, transportation for hire, etc.); 6,529 hours of instructional flying; 8,453 hours of personal flying; and 3,860 hours of flying for other purposes. ¹²Source: 1965-1975, U.S. Department of the Interior; 1976 and 1977, U.S. Energy Information Administration, *Crude Petroleum, Petroleum Products, and Natural Gas Liquids* (Final Summary). ¹³Includes kerosene-type and naphtha-type jet fuels. ¹⁴Comprises express and freight ton-miles. ¹⁵Includes some military ton-miles and may include a small amount of international traffic. ¹⁶Civil and military. ¹⁷Beginning 1970, data not strictly comparable due to change of definition. ¹⁸Beginning 1975, includes commercial operators. ¹⁹Hijacker controls flight and reaches destination or objective.

Source: Except as noted, U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual, and unpublished data. Includes data from U.S. Civil Aeronautics Board.

NO. 1158. AIRPORTS AND FEDERAL AIRPORT DEVELOPMENT AID PROGRAM, 1979, AND GENERAL AVIATION AIRCRAFT, 1978—STATES AND OTHER AREAS

[As of Dec. 31. General aviation comprises all civil flying (including such commercial operations as commuter airlines, air taxis, agricultural application, powerline patrol, etc.), but excludes certificated route air carriers, supplemental operators, and large-aircraft commercial operators.]

STATE	AIRPORTS, 1979 ¹		AIRPORT DEVELOPMENT AID ² (mil. dol.)		General aviation aircraft, 1978	STATE OR OTHER AREA	AIRPORTS, 1979 ¹		AIRPORT DEVELOPMENT AID ² (mil. dol.)		General aviation aircraft, 1978
	Public	Private	Total funds, 1970-1979	1979 funds			Public	Private	Total funds, 1970-1979	1979 funds	
Total	4,761	9,985	3,368.4	624.2	3 196,778	Mo.....	115	259	55.6	22.0	3,949
Ala.....	99	57	43.9	6.6	2,631	Mont.....	117	60	38.5	5.5	2,214
Alaska.....	521	213	176.1	25.5	5,799	Nebr.....	93	226	46.1	7.8	2,661
Ariz.....	96	114	67.1	16.6	4,626	Nev.....	59	60	43.6	9.5	1,882
Ark.....	77	80	28.9	5.4	2,503	N.H.....	16	36	7.2	1.6	1,173
Calif.....	295	524	259.4	56.6	24,371	N.J.....	30	236	57.1	4.3	4,167
Colo.....	87	214	97.9	21.5	4,445	N. Mex.....	64	81	26.4	6.6	1,925
Conn.....	15	91	16.3	1.9	1,439	N.Y.....	74	408	156.6	33.3	6,272
Del.....	3	32	4.7	1.3	633	N.C.....	80	191	77.3	17.5	4,193
D.C.....	8	10	-	-	44	N. Dak.....	98	123	28.1	5.1	1,645
Fla.....	126	332	162.6	42.2	9,815	Ohio.....	129	457	70.5	11.7	7,143
Ga.....	122	161	118.3	16.4	3,540	Okla.....	131	161	55.5	9.2	3,359
Hawaii.....	18	36	88.6	12.1	4,755	Oreg.....	91	217	58.0	10.3	5,435
Idaho.....	127	67	24.2	4.3	2,123	Pa.....	80	604	122.4	18.1	5,867
Ill.....	96	795	128.6	12.6	7,269	R.I.....	8	12	6.8	3.0	330
Ind.....	72	253	76.2	17.8	4,198	S.C.....	63	64	27.7	6.2	1,611
Iowa.....	116	142	33.6	3.8	3,198	S. Dak.....	75	78	29.9	4.6	1,372
Kans.....	126	248	37.0	6.8	3,973	Tenn.....	77	78	63.5	8.5	3,113
Ky.....	57	55	45.2	8.1	1,812	Tex.....	305	1,027	237.3	33.3	15,231
La.....	74	217	81.1	15.6	3,744	Utah.....	58	42	38.6	5.1	1,544
Maine.....	48	112	17.6	2.9	1,200	Vt.....	20	41	5.7	1.3	519
Md.....	23	121	27.5	3.9	2,556	Va.....	80	196	49.6	11.7	3,239
Mass.....	32	105	41.4	8.0	2,854	Wash.....	120	245	68.1	12.7	6,286
Mich.....	134	279	112.1	16.8	7,192	W. Va.....	28	48	37.7	4.2	1,006
Minn.....	147	321	48.6	9.2	4,694	Wis.....	103	279	62.6	10.3	4,226
Miss.....	77	86	37.6	6.0	2,503	Wyo.....	42	55	29.3	6.1	1,026
						Other areas ³ ..	29	24	92.2	32.0	521

- Represents zero. ¹Includes military airports with joint civil and military use, heliports, seaplane bases, etc. ²Represents funds appropriated. Excludes contributions by State and local governments and by airport operators provided under various agreements. "Total" is cumulative since enactment of Airport Development Aid Program, July 1, 1970-Feb. 29, 1980. ³Detail will not add to total due to estimation procedures. ⁴Puerto Rico, American Samoa, Guam, Virgin Islands, Trust Territories of the Pacific Islands, and the No. Mariana Islands.

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual.

NO. 1159. CERTIFICATED ROUTE AIR CARRIERS—SERVICE AND TRAFFIC: 1960 TO 1979

[In millions, except as indicated]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979 ¹
Revenue ton-miles, all services	5,024	9,895	20,186	23,900	23,534	25,709	27,583	31,095	34,539
Revenue ton-miles, scheduled.....	4,729	8,985	18,166	22,425	22,166	24,121	25,909	29,679	33,385
Passenger ²	3,777	6,672	13,171	16,292	16,281	17,899	19,322	22,678	26,197
U.S. mail.....	241	483	1,470	1,151	1,097	1,114	1,147	1,168	1,206
Foreign mail.....	9	10	10	12	12	12	13	14	18
Express.....	59	90	107	81	29	22	41	56	56
Freight.....	643	1,730	3,408	4,890	4,766	5,074	5,385	5,763	5,908
Revenue ton-miles, charter ³	296	909	2,020	1,475	1,348	1,588	1,674	1,416	1,154
Available ton-miles, all services.....	9,384	19,661	44,298	48,942	49,289	51,709	54,789	56,669	62,546
Ton-mile load factor (percent).....	53.5	50.3	45.6	48.8	47.7	49.7	50.3	54.7	55.2
Scheduled services total:									
Revenue passengers enplaned, scheduled.....	62	103	170	207	205	223	240	275	317
Revenue passenger-miles (bil.).....	39	69	132	163	163	179	193	237	262
Available seat-miles (bil.).....	66	124	265	297	303	323	346	369	416
Passenger load factor (percent).....	59.3	55.2	49.7	54.9	53.7	55.4	55.9	61.5	63.0
Revenue passenger-miles per gallon of fuel (number).....	(NA)	(NA)	(NA)	19.5	19.5	20.7	21.2	23.8	25.0
Revenue plane-miles.....	998	1,354	2,418	2,258	2,241	2,320	2,419	2,520	2,768

NA Not available. ¹Preliminary. ²A passenger ton-mile represents 1 ton of passenger weight, including free and excess baggage, transported 1 mile. ³Passenger and cargo.

Source: Air Transport Association of America, Washington, D.C., *Air Transport Facts and Figures*, annual. Data from Civil Aeronautics Board.

NO. 1160. CERTIFICATED ROUTE AIR CARRIERS—SUMMARY: 1960 TO 1979

[As of Dec. 31 or for calendar years, except as noted. See text, p. 667. Operations between conterminous U.S. and Hawaii (through 1965), Puerto Rico, and outlying areas included with international. Intra-Alaska included with domestic carriers and Mainland Alaska with international, as follows: Number of operators and traffic data, fuel and financial data, and personnel data, 1960 and 1965. Beginning 1970, Alaska and Hawaii included in domestic. See also *Historical Statistics, Colonial Times to 1970*, Series Q 577-590 and Q 624-633]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Domestic operators ¹	39	40	33	30	29	30	30	30	33	46
International operators ¹	10	9	3	3	2	2	2	2	2	2
Total personnel employed (1,000).....	163	207	291	312	305	292	303	314	335	364
Route miles in operation ² (1,000).....	250	248	377	395	373	371	371	(NA)	(NA)	(NA)
Domestic (1,000).....	101	105	172	176	169	172	175	(NA)	(NA)	(NA)
International ³ (1,000).....	148	143	206	214	204	199	196	(NA)	(NA)	(NA)
Aircraft in operation ⁴	1,867	1,896	2,437	2,361	2,244	2,267	2,271	2,234	2,348	2,466
Fixed-wing.....	1,842	1,875	2,421	2,348	2,234	2,260	2,266	2,231	2,345	2,466
Turbojet.....	202	712	2,041	2,056	1,988	2,022	2,043	2,064	2,184	2,308
Two-engine.....	-	41	519	500	501	500	518	529	578	621
Three-engine.....	-	168	631	844	893	961	992	1,035	1,140	1,232
Four-engine.....	202	503	891	712	594	561	533	500	465	455
Turboprop.....	227	296	316	238	201	193	180	156	155	152
Piston.....	1,413	867	64	54	45	45	43	11	6	6
Helicopters.....	25	21	16	13	10	7	5	3	3	-
Average available seats: ⁵										
Domestic.....	65.5	89.2	110.4	123.8	127.7	130.4	134.1	136.9	140.0	140.0
International.....	89.9	129.1	154.9	201.9	213.7	224.8	230.0	236.7	244.1	259.2
Avg./hr. speed (miles per hr):										
Domestic.....	235	314	350	404	402	403	406	408	409	407
International.....	307	451	482	481	481	482	484	487	489	493
Fuel consumed (mil. gal.): ⁶										
Gasoline.....	1,189	519	14	11	7	6	6	(?)	(?)	(?)
Jet fuel:										
Domestic.....	988	3,368	7,783	8,236	7,416	7,558	7,911	8,339	8,621	9,322
International.....	344	1,282	2,302	2,435	2,130	1,949	1,921	1,957	1,913	2,309
Revenue-miles flown (all scheduled services) (mil.).....	998	1,354	2,418	2,448	2,258	2,241	2,320	2,419	2,520	2,787
Domestic (mil.).....	829	1,099	2,027	2,058	1,900	1,909	2,001	2,104	2,201	2,432
International (mil.).....	168	255	391	390	358	332	319	315	319	355
Revenue passengers enplaned (mil.).....	62	103	169	202	208	205	223	240	275	317
Domestic (mil.).....	56	92	153	183	190	189	206	222	254	293
International (mil.).....	6	11	16	19	18	16	17	18	21	24
Revenue passenger-miles flown (bil.):										
Domestic.....	30.6	51.9	104.1	126.3	129.7	131.7	145.3	156.6	187.8	208.6
International.....	8.3	16.8	27.6	35.6	33.2	31.1	33.7	36.6	49.1	53.1
Avg. passenger-mile rate (dollars):										
Domestic.....	.061	.061	.060	.068	.075	.077	.078	.084	.084	.086
International.....	.064	.053	.050	.053	.064	.072	.060	.071	.072	.088
Express and freight, ton-miles flow ⁷ (mil.).....	579	1,540	2,908	3,692	3,760	3,590	3,855	4,109	5,818	5,962
Domestic.....	387	943	1,966	2,454	2,421	2,331	2,474	2,641	3,505	3,465
International.....	192	597	942	1,238	1,339	1,259	1,381	1,468	2,313	2,497
Mail, ton-miles flown (mil.): ⁸										
Domestic.....	136	226	706	687	668	665	709	740	807	853
International.....	103	254	549	361	348	312	292	299	374	372
Accidents (sched. pass. serv.):										
Domestic, total.....	62	55	32	27	31	21	17	15	18	⁹ 13
Fatal.....	¹⁰ 10	6	1	4	3	2	1	2	4	⁹ 4
Fatalities ¹¹	363	223	1	138	168	122	1	75	16	⁹ 279
Passenger-fatalities per 100 million passenger miles flown ¹².....	.9	.4	-	.10	.115	.081	.001	.038	.007	.117
International, total.....	5	8	7	5	12	7	4	3	1	4
Fatal.....	2	1	1	2	4	-	1	-	-	1
Fatalities ¹¹	15	30	2	79	292	-	35	-	-	71
Passenger-fatalities per 100 million passenger miles flown.....	.1	.1	.007	.18	.513	-	.096	-	-	.105

- Represents zero. NA Not available. ¹Excludes all-cargo operators. ²Not compiled for Intra-Alaska, weighted average. Prior to 1970, refers to passenger/cargo carriers only; thereafter, includes all-cargo carriers. ³As of Dec. 31, based on fourth quarter. ⁴Excludes those used for crew training and general utility purposes, or held for disposal. Beginning 1973, includes aircraft operated by the scheduled all-cargo carriers. ⁵Passenger seat-miles divided by revenue-miles flown in passenger service. ⁶Includes air cargo. ⁷Included in "Jet fuel." ⁸Excludes freight flown by certificated all-cargo operators and irregular carriers. ⁹Preliminary. ¹⁰Includes mid-air collisions nonfatal to air carrier occupants (excluded in computation of fatal accidents). ¹¹Includes crew members. ¹²Excludes passenger deaths in dynamite accidents (29 in 1960).

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Includes data from U.S. Civil Aeronautics Board and U.S. National Transportation Safety Board.

No. 1161. AIRLINE COST INDEXES: 1968 TO 1980

(Covers U.S. trunk and local service carriers. Excludes cargo carriers, Hawaiian carriers, or Alaskan carriers)

ITEM	INDEX (1967 = 100)							PERCENT OF CASH OPERATING EXPENSES ²			
	1968	1970	1975	1977	1978	1979	1980 ¹	1968	1970	1975	1980 ¹
Composite	104.5	120.0	188.7	224.8	242.5	280.2	334.4	100.0	100.0	100.0	100.0
Labor.....	108.0	134.7	208.6	257.6	283.8	² 305.6	332.0	45.2	46.2	41.4	35.9
Capital ⁴	105.5	119.8	133.4	135.9	152.5	155.8	188.5	4.0	4.3	2.9	2.9
Fuel.....	98.0	105.8	279.8	349.0	376.9	555.8	863.1	13.8	12.7	19.1	31.0
Passenger food.....	104.0	114.1	140.6	148.0	149.0	159.9	181.4	4.1	3.9	3.5	3.1
Advertising and promotion.....	99.8	96.3	97.1	102.0	97.9	102.3	120.4	3.2	2.7	1.9	1.5
Landing fees.....	118.6	139.8	232.0	273.2	273.6	309.5	332.2	2.2	2.3	2.4	1.7
Craft maintenance.....	90.3	75.5	99.9	114.9	114.5	115.7	128.4	4.2	3.3	2.9	2.2
Passenger traffic commissions.....	100.4	124.6	231.2	287.0	300.7	346.4	445.9	2.7	3.0	3.9	5.2
All other.....	104.5	115.6	161.0	179.6	192.2	209.3	228.5	20.6	21.6	22.0	16.5

¹April-June. ²Total operating expenses plus interest on long term debt, less depreciation and amortization. ³Excludes carriers which experienced major strikes. ⁴Beginning 1978, includes imputed interest for capitalized leases.

Source: Air Transport Association of America, *Air Transport, 1980*, and unpublished data.

No. 1162. CHARTER (SUPPLEMENTAL) AIR CARRIERS—SUMMARY: 1960 TO 1979

[Previously known as the U.S. supplemental airlines, with certificated charter authority from the Civil Aeronautics Board, charter airlines, as a result of the 1978 Deregulation Act, have authority to engage in both charter and scheduled services. Includes international operations; see headnote, table 1160. Figures shown for military cover activities performed under charter or other contract with the Department of Defense]

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979
Total operators	Number.....	30	13	14	8	8	7	7	8	7
Revenue passenger-miles.....	Millions.....	2,208	2,489	10,289	10,865	8,746	8,199	9,983	9,999	8,956
Commercial.....	Millions.....	671	1,069	6,044	9,016	6,885	6,647	8,352	8,297	6,912
Military.....	Millions.....	1,537	1,420	4,245	1,849	1,861	1,552	1,631	1,702	2,044
Revenue cargo ton-miles.....	Millions.....	120	298	391	366	362	384	329	372	332
Commercial.....	Millions.....	5	49	77	100	115	159	136	163	184
Military.....	Millions.....	115	249	314	266	247	225	193	209	148
Operating revenues.....	Mil. dol.....	83.4	141.0	337.2	428.8	433.2	417.5	516.2	529.7	561.9
Operating expenses.....	Mil. dol.....	85.3	116.9	330.7	431.9	404.8	418.1	500.8	512.5	559.7

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual.

No. 1163. CHARTER PASSENGERS, BY FLAG OF AIR CARRIER AND BY AREA OF TRAVEL: 1970 TO 1979

[In thousands. Covers charter flights to, from, or within the U.S. 1970-1975 estimates derived by multiplying available seats by passenger load factors; thereafter, based on actual passengers]

ITEM	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Total passengers	3,862	5,276	5,725	6,640	6,235	5,745	7,390	9,038	8,309	6,500
U.S.: Route carriers ¹	1,355	2,149	2,684	3,179	3,040	2,835	4,109	4,597	3,871	2,854
Charter (supplemental) carriers ²	1,647	2,080	2,013	2,474	2,129	1,470	1,631	2,229	2,405	1,843
Foreign: Route carriers ¹	390	423	516	674	476	589	721	845	1,023	803
Charter (supplemental) carriers ²	470	624	512	313	591	851	929	1,367	1,010	1,000
Domestic travelers.....	1,397	1,880	2,168	2,575	2,348	1,969	2,859	3,524	3,102	2,159
International travelers ³	2,465	3,396	3,557	4,065	3,888	3,776	4,531	5,514	5,207	4,341
Transatlantic.....	1,816	2,425	2,495	2,786	2,366	2,321	2,716	3,539	2,821	1,908
Latin America ⁴	444	640	789	616	806	684	1,001	1,130	1,416	1,287

¹Covers charter service of scheduled airlines. See text, p. 667 for definition. ²Covers charter service of charter airlines. See headnote, table 1162. ³Includes other, not shown separately. ⁴Includes Caribbean.

Source: National Air Carrier Association, Washington, D.C., *Annual Report*.

NO. 1164. AEROSPACE—SALES, NEW ORDERS, AND BACKLOG: 1970 TO 1979

[Reported by aerospace and aircraft engine manufacturers. See *Historical Statistics, Colonial Times to 1970*, series Q 573]

ITEM	TOTAL (bil. dol.)					PERCENT U.S. GOVERNMENT				
	1970	1975	1977	1978	1979, prel.	1970	1975	1977	1978	1979, prel.
	Net sales.....	24.8	29.5	33.3	38.0	45.8	66.3	58.6	62.1	57.6	50.6
Complete aircraft and parts ¹	10.4	11.3	12.5	14.7	19.4	54.8	46.9	54.7	46.5	35.0
Aircraft engines and parts.....	3.1	3.4	3.9	4.6	5.1	61.5	47.0	51.7	40.9	40.8
Missiles and parts.....	5.4	6.3	5.8	(NA)	7.1	96.9	93.7	93.3	(NA)	91.5
Other products, services.....	5.9	8.5	11.2	*18.7	14.3	(x)	(x)	(x)	(x)	(x)
Net new orders.....	21.2	29.0	36.9	49.8	63.9	71.4	64.1	58.3	52.2	45.9
Backlog, Dec. 31.....	24.7	35.0	45.3	57.2	75.0	52.1	63.2	57.6	52.9	48.2

NA Not available. X Not applicable. ¹Except engines sold separately. ²Includes missiles and parts.Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MQ-37D.

NO. 1165. CIVIL AIRCRAFT SHIPMENTS: 1960 TO 1978

[Represents manufacturers' shipments of complete aircraft. Includes both domestic and export output]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
Total	8,181	12,646	8,190	10,523	14,748	15,117	15,196	16,446	17,605	17,397
Transports.....	238	221	311	230	295	263	314	238	180	225
General aviation.....	7,726	12,053	7,384	9,765	13,671	14,026	14,043	15,648	16,624	16,456
Single-engine:										
1- to 3-place.....	1,366	3,545	1,981	2,398	3,137	3,346	3,047	3,175	3,379	5,355
4-place and over.....	5,072	6,478	4,048	5,500	7,681	8,124	8,460	9,854	10,478	8,688
Multi-engine.....	1,288	2,030	1,352	1,867	2,853	2,556	2,536	2,619	2,767	2,413
Rotorcraft.....	217	372	496	528	782	828	839	560	801	716

Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation*, annual. Includes data from U.S. Bureau of the Census, *Current Industrial Report*.

NO. 1166. EMPLOYMENT, HOURS, AND EARNINGS IN AIRCRAFT INDUSTRIES: 1960 TO 1979

[Annual averages of monthly figures. Covers aircraft and parts industries as defined by the Standard Industrial Classification Manual]

ITEM	Unit	1960	1965	1970	1972	1975	1976	1977	1978	1979
Employment, total	1,000	674	619	690	501	514	485	482	526	605
Aircraft.....	1,000.....	371	330	388	272	275	262	270	289	337
Aircraft engines and parts.....	1,000.....	171	188	180	139	139	132	121	133	148
Other aircraft parts and equipment.....	1,000.....	132	101	122	91	100	91	90	104	120
Avg. weekly earnings: Aircraft.....	Dol.....	110	130	171	198	250	283	296	324	358
Aircraft engines and parts.....	Dol.....	112	133	166	193	250	281	292	325	361
Avg. hourly earnings: Aircraft.....	Dol.....	2.71	3.16	4.17	4.74	6.20	6.81	7.07	7.70	8.46
Aircraft engines and parts.....	Dol.....	2.73	3.17	4.10	4.70	6.03	6.86	7.05	7.80	8.53

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

NO. 1167. AIRBORNE IMPORTS AND EXPORTS—SHIPPING WEIGHT AND VALUE: 1970 TO 1978

[Weight in millions of pounds, value in millions of dollars. Includes trade of Puerto Rico]

CONTINENT	IMPORTS						EXPORTS					
	Weight			Value			Weight			Value		
	1970	1975	1978	1970	1975	1978	1970	1975	1977	1970	1975	1978
All carriers¹	620	1,063	1,506	3,417	8,917	17,923	897	1,420	2,218	6,086	14,554	26,668
North America.....	86	141	224	316	775	1,380	225	293	440	795	1,552	2,777
South America.....	43	118	152	98	412	749	96	196	338	412	1,225	2,116
Europe.....	354	413	599	2,069	4,266	7,731	429	592	849	3,459	7,432	12,825
Asia.....	131	377	507	859	3,026	6,783	108	246	449	1,056	3,445	6,771
Other.....	7	13	22	76	436	1,279	35	79	114	364	900	1,406
U.S. carriers¹	288	456	614	1,667	3,860	6,138	321	480	805	2,215	5,481	8,991
North America.....	39	51	98	140	329	578	92	110	203	367	711	1,435
South America.....	18	46	35	51	152	227	33	61	129	119	346	697
Europe.....	149	169	217	907	1,941	2,557	146	195	243	1,210	2,377	3,567
Asia.....	81	187	255	542	1,352	2,702	44	87	183	459	1,291	2,351
Other.....	2	4	8	28	86	74	7	20	40	59	246	467

¹Includes shipments of special category, not shown separately by continent.Source: U.S. Bureau of the Census, *United States Airborne Exports and General Imports*, FT 986, annual.

NO. 1168. EXPORTS OF U.S. AEROSPACE PRODUCTS: 1970 TO 1979

PRODUCT	NUMBER OF UNITS				VALUE (mil. dol.)			
	1970	1975	1978	1979	1970	1975	1978	1979
Total	(x)	(x)	(x)	(x)	3,191	7,456	6,807	8,040
Civilian:								
Complete aircraft.....	2,902	4,371	4,399	5,115	1,527	3,169	3,616	6,177
Transports.....	180	186	111	201	1,272	2,368	2,549	5,015
General aviation ¹	2,029	3,268	3,471	3,878	111	307	495	651
Helicopters.....	332	336	368	459	27	105	156	207
Other, incl. used.....	361	581	449	577	117	389	416	305
Engines.....	3,811	4,678	4,719	4,917	118	232	277	375
Turbines.....	649	876	988	996	99	187	231	323
Military:								
Complete aircraft.....	634	942	589	332	467	1,303	2,219	818
Transports.....	81	51	25	17	82	235	232	162
Helicopters.....	67	116	108	65	23	123	81	61
Fighters, bombers.....	217	469	286	133	331	902	1,707	494
Other ²	269	308	170	117	31	43	199	101
Engines.....	611	873	517	504	33	92	61	67
Civilian and military:								
Parts ³	(x)	(x)	(x)	(x)	1,027	2,610	273	279
Rockets, guided missiles.....	65,001	112,908	210,198	74,942	8	47	334	291
Missiles and rocket engines.....	39,615	7,400	16,081	1,731	11	3	27	31

X Not applicable. ¹Includes transports under 33,000 pounds. ²Includes trainers, general aviation, and used aircraft. ³Parts of engines, turbines, airframes, rockets, and missiles.

Source: U.S. Bureau of the Census, *United States Exports—Commodity by Country*, FT 410, annual.

NO. 1169. U.S. RECEIPTS AND PAYMENTS FOR INTERNATIONAL TRANSPORTATION: 1960 TO 1979

(In millions of dollars. Data are international transportation transactions recorded for balance of payment purposes (see table 1522). 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 (-) denotes excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals.)

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
Total receipts	1,782	2,446	3,669	5,440	6,801	6,879	7,976	8,530	9,908	11,949
Ocean transportation ²	1,337	1,731	2,256	3,162	4,045	4,065	4,804	5,080	5,850	6,828
Export freight earnings.....	428	519	804	815	1,171	1,183	1,373	1,237	1,432	1,729
Freight earnings on shipments between foreign countries.....	136	153	209	221	307	328	353	395	412	480
Port expenditures.....	746	1,041	1,406	2,059	2,485	2,481	3,067	3,413	3,963	4,557
Charter hire.....	8	9	37	67	82	73	11	35	43	62
Air transportation.....	358	591	1,240	2,041	2,491	2,515	2,837	3,190	3,683	4,677
Export freight earnings.....	55	91	187	276	360	390	390	427	497	572
Passenger fares.....	156	262	541	975	1,104	1,039	1,229	1,365	1,603	2,156
Port expenditures.....	147	238	512	790	1,027	1,086	1,218	1,398	1,582	1,949
Other transportation.....	87	124	173	237	265	299	335	360	376	444
Total payments	1,915	2,668	4,058	6,483	8,037	7,971	9,420	10,622	11,808	13,566
Ocean transportation.....	1,333	1,803	2,380	3,925	4,803	4,465	5,448	6,178	6,991	7,905
Import freight payments.....	780	1,083	1,444	2,778	3,365	3,047	3,963	4,622	5,325	6,014
Passenger fares.....	212	207	245	285	259	278	270	261	252	258
Port expenditures.....	167	281	316	469	735	755	871	943	1,041	1,203
Charter hire.....	174	232	375	393	444	385	344	352	373	430
Air transportation.....	504	775	1,581	2,420	3,083	3,346	3,761	4,206	4,572	5,367
Import freight payments.....	22	40	115	192	219	246	301	362	420	455
Passenger fares.....	301	510	970	1,505	1,836	1,985	2,298	2,487	2,644	2,842
Port expenditures.....	181	225	496	723	1,028	1,115	1,161	1,357	1,508	2,070
Other transportation.....	78	90	97	138	151	160	212	238	245	294
Receipts balance	-133	-222	-389	-1,043	-1,236	-1,092	-1,444	-1,992	-1,900	-1,617

¹Preliminary. ²Through 1965, includes small amount for passenger fares, not shown separately.

Source: U.S. Bureau of Economic Analysis, quarterly in *Survey of Current Business*.

NO. 1170. EXPORTS AND IMPORTS, BY METHOD OF TRANSPORT: 1960 TO 1979

[Export data include both domestic and foreign; import data for general imports only. For details, see source]

ITEM	Unit	EXPORTS						IMPORTS					
		1960	1965	1970	1975	1978	1979	1960	1965	1970	1975	1978	1979
All methods ¹	Bil. dol.....	20.6	27.5	43.2	107.6	143.7	181.8	14.7	21.4	40.0	96.9	172.0	206.3
Vessel.....	Bil. dol.....	13.1	16.9	24.6	63.4	79.4	99.6	11.1	14.9	24.8	63.5	115.5	140.2
Air.....	Bil. dol.....	(NA)	2.3	6.1	15.2	26.7	37.3	(NA)	1.3	3.4	8.9	17.9	22.0
Shipping weight:													
Vessel.....	Bil. lb.....	248.5	343.5	480.5	538.5	599.0	714.7	398.1	511.5	598.4	855.3	189.0	195.9
Air.....	Bil. lb.....	(NA)	.5	.9	1.4	2.2	2.2	(NA)	.2	.6	1.1	1.5	1.4

NA Not available. 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. 1171. WATERBORNE COMMERCE—CARGO TONNAGE: 1950 TO 1978

[In millions of short tons. Includes Puerto Rico and outlying areas. Import and export figures differ slightly from those shown in tables 1177 and 1178 due to minor differences in basic concepts which are explained in the source. See also *Historical Statistics, Colonial Times to 1970*, series Q 530-541]

CLASS	1950	1955	1960	1965	1970	1974	1975	1976	1977	1978
Net total.....	821	1,016	1,100	1,273	1,532	1,747	1,695	1,835	1,908	2,021
Domestic commerce¹.....	651	745	761	829	951	983	946	979	973	1,075
Coastwise, between ports.....	183	196	209	202	238	233	232	236	248	305
Great Lakes, between ports.....	170	185	155	154	157	146	129	132	109	143
Between—										
Seaports, Great Lakes ports, and inland waterway ports.....	107	113	104	103	81	88	78	84	63	90
Ports and river ports ²	192	252	292	371	474	515	507	527	532	538
Foreign commerce.....	169	271	339	444	581	764	749	856	935	946
Imports, through seaports.....	96	144	198	245	313	474	455	540	625	616
Imports, Great Lakes ports.....	6	9	13	25	26	23	21	31	33	27
Exports, through seaports.....	44	95	105	142	206	239	237	251	241	259
Exports, Great Lakes ports.....	24	23	23	32	36	28	35	35	36	44

¹ Includes traffic among ports of outlying areas. ² Represents traffic mainly utilizing inland waterways.

NO. 1172. FREIGHT CARRIED ON INLAND WATERWAYS, BY SYSTEM: 1950 TO 1978

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

SYSTEM	1950	1955	1960	1965	1970	1973	1974	1975	1976	1977	1978
Total.....	163.3	216.5	220.3	262.4	318.6	358.2	354.9	342.2	372.9	368.3	409.3
Atlantic coast waterways.....	6.5	27.0	28.6	27.8	28.6	34.2	35.4	31.8	32.1	30.4	30.5
Gulf coast waterways.....	1.2	13.9	16.9	21.8	28.6	32.3	33.5	30.8	34.3	37.6	37.1
Pacific coast waterways ¹	1.7	4.7	6.0	6.6	8.4	10.5	10.3	9.7	11.3	12.8	13.6
Mississippi River system ²	33.6	52.0	69.3	96.6	138.5	155.3	168.3	170.7	189.5	196.9	209.3
Great Lakes System ³	120.3	118.9	99.5	109.6	114.5	125.9	107.5	99.2	105.6	90.7	118.9

¹ Beginning 1960, 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 of tables 1171 and 1172: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

NO. 1173. FEDERAL EXPENDITURES FOR CIVIL FUNCTIONS OF THE CORPS OF ENGINEERS, UNITED STATES ARMY: 1950 TO 1979

[In millions of dollars. Through 1976, for years ending June 30; beginning 1977, years ending Sept. 30. Includes Puerto Rico and other U.S. outlying areas. Represents funds expended for maintenance and improvement of rivers and harbors, flood control, etc. See also *Historical Statistics, Colonial Times to 1970*, series Q 558]

YEAR	TOTAL	RIVERS AND HARBORS	YEAR	TOTAL	RIVERS AND HARBORS	YEAR	TOTAL	RIVERS AND HARBORS
1950.....	635	190	1972.....	1,535	1,522	1976.....	2,266	2,080
1955.....	512	456	1973.....	1,737	1,614	1977.....	2,560	2,244
1960.....	869	801	1974.....	1,936	1,859	1978.....	2,805	2,479
1965.....	1,211	1,093	1975.....	2,199	2,121	1979.....	3,012	2,638
1970.....	1,186	1,051						

Source: U.S. Corps of Engineers, *Performance Measurement Systems*, annual.

No. 1174. FREIGHT CARRIED ON MISSISSIPPI RIVER SYSTEM: 1950 TO 1978

[Net traffic. Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers]

ITEM	Unit	1950	1955	1960	1965	1970	1973	1974	1975	1976	1977	1978
Total	Mill. sh. tons	138	194	234	302	391	420	443	453	498	537	553
Inland.....	Mill. sh. tons.....	115	164	188	238	297	318	330	330	346	352	355
Coastwise.....	Mill. sh. tons.....	14	16	22	28	44	28	28	30	28	30	32
Foreign:												
Imports.....	Mill. sh. tons.....	4	6	11	13	17	27	37	46	67	96	99
Exports.....	Mill. sh. tons.....	5	8	13	23	34	47	47	48	60	60	67
Total	Bil. ton-miles	33.6	52.0	69.3	96.6	138.5	155.3	168.2	170.7	189.5	196.8	209.3
Inland.....	Bil. ton-miles.....	30.3	47.4	62.4	87.4	125.9	139.8	150.9	151.3	164.8	166.9	176.5
Coastwise.....	Bil. ton-miles.....	2.1	2.5	3.2	3.6	4.9	4.2	4.2	4.5	4.1	4.8	5.4
Foreign:												
Imports.....	Bil. ton-miles.....	.6	1.0	1.8	2.3	2.8	4.7	6.5	8.0	11.7	16.2	16.8
Exports.....	Bil. ton-miles.....	.6	1.1	1.9	3.3	4.9	6.6	6.6	6.9	8.8	8.8	10.1

¹ Total reflects adjustment not available by type of traffic.

No. 1175. U.S. FREIGHT CARRIED ON GREAT LAKES SYSTEM: 1950 TO 1978

[In billions of ton-miles]

ITEM	1950	1955	1960	1965	1970	1973	1974	1975	1976	1977	1978
Total	111.7	118.8	99.5	109.6	114.5	125.9	107.5	99.2	105.6	90.7	118.9
Domestic.....	100.1	104.9	80.6	76.7	80.1	84.5	79.7	69.2	71.3	53.0	76.8
Lakewise.....	89.6	104.1	79.7	75.9	79.4	83.8	78.9	68.5	70.7	52.4	76.3
Internal.....	.3	6	.7	.7	.6	.6	.6	.6	.5	.4	.4
Local ¹	2	2	.2	.1	.1	.2	.1	.1	.1	.1	.1
Foreign.....	11.6	13.9	18.9	32.9	34.3	41.4	27.8	29.9	34.3	37.7	42.1
Canadian.....	11.4	13.4	13.8	23.5	23.8	26.2	19.4	20.7	23.7	23.1	23.1
Overseas.....	.2	.5	5.1	9.4	10.5	15.2	8.4	9.3	10.7	14.7	19.0

¹ Includes coastwise traffic.

No. 1176. DOMESTIC AND FOREIGN WATERBORNE COMMERCE, BY TYPE OF COMMODITY: 1970 TO 1978

[In millions of short tons. Domestic trade includes all commercial movements between U.S. ports and on inland rivers, canals, and connecting channels of U.S., Puerto Rico, and Virgin Islands. See also headnote, table 1171]

COMMODITY	1970		1977		1978			
	Total	Do- mestic	Total	Do- mestic	Total	Do- mestic	Foreign	
							Im- ports	Ex- ports
Net total ¹	1,531.7	950.7	1,908.2	973.0	2,021.3	1,075.3	643.2	302.9
Petroleum products ¹	394.7	287.3	453.7	364.5	463.7	360.2	90.6	12.9
Gasoline.....	89.3	88.7	98.5	94.9	101.2	94.7	6.2	.2
Distillate fuel oil.....	78.8	76.3	97.5	90.0	87.6	83.8	3.7	.1
Residual fuel oil.....	170.5	78.8	202.5	134.0	201.3	136.0	64.5	.8
Crude petroleum.....	210.5	116.3	486.7	84.8	533.4	146.0	387.2	.1
Coal and lignite.....	225.4	154.1	212.0	156.3	185.9	143.8	1.9	40.3
Nonmetallic minerals ^{1,2}	166.6	132.6	159.0	115.0	174.9	129.9	23.3	21.7
Sand and gravel ³	78.4	73.9	63.3	59.0	76.2	71.5	3.5	1.3
Limestone.....	42.0	34.1	39.1	28.7	41.6	30.9	7.6	3.1
Phosphate rock.....	16.6	5.8	23.9	9.6	23.2	9.0	1.1	13.1
Iron ore and concentrates.....	129.3	75.2	92.3	50.0	119.9	80.9	34.4	4.7
Farm products ¹	90.4	28.5	158.1	49.4	188.9	54.0	5.3	129.6
Corn.....	27.2	11.7	67.8	23.6	80.8	25.9	(2)	54.9
Wheat.....	25.0	5.8	38.1	11.8	49.3	11.8	(2)	37.5
Soybeans.....	21.2	8.3	29.5	11.7	37.3	14.3	(2)	23.1
Chemicals and allied products.....	62.0	39.7	77.8	46.1	81.3	47.4	8.6	25.3
Food and kindred products.....	35.0	11.0	44.3	15.7	47.0	17.1	11.2	18.7
Lumber and wood products ⁴	49.9	27.3	52.6	23.2	53.0	23.9	6.3	22.9
Primary metal products.....	42.4	10.8	50.2	9.1	34.4	10.0	21.9	2.4
Waste and scrap.....	25.9	16.0	21.8	14.3	29.1	18.9	.5	9.6
Other.....	99.7	51.9	97.9	44.5	109.8	43.2	52.0	14.7

² Less than 50,000 tons.¹ Includes categories not shown separately.² Excludes fuels.³ Includes crushed rock.⁴ Excludes furniture.Source of tables 1174-1176: U.S. Corps of Engineers, *Waterborne Commerce of the United States*, annual.

**NO. 1177. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE, BY FLAG OF CARRIER
VESSEL: 1960 TO 1978**

[In millions of short tons, except percent. Excludes commodities classified for security reasons as "Special Category" and exports by Dept. of Defense (grant-aid shipments), and merchandise shipped in transit through the U.S. See Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q 524-529]

ITEM	DRY CARGO							TANKER CARGO						
	1960	1965	1970	1975	1976	1977	1978	1960	1965	1970	1975	1976	1977	1978
Total trade	202	274	358	387	405	406	439	120	153	181	311	386	481	454
Percent by U.S. flag.....	15.2	9.3	6.4	5.5	6.0	6.1	5.6	7.5	5.9	4.2	5.2	4.3	3.7	3.1
Imports, total.....	95	123	138	137	149	152	168	104	132	161	291	369	461	425
U.S. flag.....	13.8	10.4	9.9	10.0	11.2	12.3	12.1	5.8	5.2	5.5	13.1	13.1	15.2	13.3
Foreign flag.....	81	113	128	127	137	139	156	98	127	156	278	356	446	411
Exports, total.....	108	151	220	250	256	254	271	16	21	20	20	21	20	29
U.S. flag.....	17.0	15.2	12.9	11.4	13.1	12.3	12.3	3.2	3.8	2.0	3.1	3.7	2.7	1.0
Foreign flag.....	91	135	207	238	243	242	259	13	17	18	16	18	18	28

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *U.S. Waterborne Exports and General Imports*, FT 985, annual; and unpublished data.

NO. 1178. WATERBORNE IMPORTS AND EXPORTS—CARGO TONNAGE AND VALUE, BY COASTAL DISTRICT: 1960 TO 1979

[Includes commodities classified for security reasons as "Special Category" 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.)						
	1960	1965	1970	1975	1977	1978	1979	1960	1965	1970	1975	1977	1978	1979
Imports:														
Atlantic.....	135	164	219	232	243	229	220	7.8	9.7	15.0	34.7	47.0	54.4	62.1
Gulf.....	27	37	47	134	259	280	296	1.3	1.8	2.9	14.3	28.0	31.1	43.8
Pacific.....	23	27	31	64	91	67	62	1.6	2.4	5.5	15.2	27.4	30.4	36.6
Great Lakes.....	13	25	26	22	33	27	25	.5	1.0	1.3	1.7	3.3	2.9	2.9
Exports:														
Atlantic.....	45	55	79	80	67	62	91	7.0	8.4	11.9	28.7	29.7	33.8	42.1
Gulf.....	37	59	78	106	122	136	149	3.7	5.0	6.9	21.4	22.6	26.6	33.4
Pacific.....	19	26	48	49	50	59	70	1.8	2.4	4.1	10.0	11.7	14.5	19.5
Great Lakes.....	23	32	36	35	36	44	49	.7	1.2	1.4	2.8	3.1	4.2	4.6

Source: U.S. Bureau of the Census, through 1965, *Foreign Commerce and Navigation of the United States*; thereafter, *U.S. Waterborne Exports and General Imports*, FT 985, annual.

NO. 1179. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE, BY FLAG OF CARRIER VESSEL: 1961 TO 1979

[In millions of net tons, except percent. 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.	Per- cent 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	
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	26	215	
1977.....	55,750	440	34	7.8	406	407	31	376	318	26	292	
1978.....	51,800	457	37	8.1	420	423	34	389	329	29	300	
1979.....	53,288	499	45	9.0	454	462	42	420	343	33	310	
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	
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	
1977.....	54,566	430	34	8.0	395	397	31	366	178	22	156	
1978.....	50,993	447	34	7.7	413	412	31	381	191	22	169	
1979.....	52,642	497	48	9.7	449	459	44	415	223	28	195	

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. 1180. VESSELS ENTERED AND CLEARED IN FOREIGN TRADE—NET REGISTERED TONNAGE,
BY CUSTOMS DISTRICTS: 1965 TO 1979**

[In millions of net tons. Excludes domestic trade. Virgin Islands included in South Atlantic Coast and beginning 1970, Puerto Rico in South Atlantic Coast, Hawaii in South Pacific Coast, Alaska in North Pacific Coast]

CUSTOMS DISTRICT	VESSELS ENTERED						VESSELS CLEARED					
	1965	1970	1975	1977	1978	1979	1965	1970	1975	1977	1978	1979
North Atlantic Coast.....	88.6	102.1	114.2	113.7	112.8	118.2	89.7	99.9	116.6	113.2	112.4	119.9
With cargo.....	76.5	85.4	92.3	94.9	97.3	95.2	37.8	43.7	50.6	44.1	41.8	50.7
South Atlantic Coast.....	23.1	36.1	48.0	57.3	62.1	65.6	22.9	31.3	45.0	56.2	58.3	62.2
With cargo.....	18.4	27.1	33.8	40.2	41.9	45.6	10.9	11.9	14.3	17.6	19.2	21.6
Gulf Coast.....	37.6	36.1	89.1	145.7	181.5	182.1	36.3	42.8	96.1	139.0	155.1	179.0
With cargo.....	18.5	23.0	60.8	115.0	128.5	141.7	29.0	36.8	54.2	62.9	71.2	78.3
South Pacific Coast.....	21.5	27.5	38.4	49.0	44.0	47.6	21.8	27.7	41.2	47.2	43.6	44.7
With cargo.....	17.7	21.8	32.4	42.8	36.9	36.5	16.1	20.9	24.0	25.3	27.7	30.2
North Pacific Coast.....	13.0	24.9	36.8	41.5	41.9	47.8	12.8	24.3	33.8	40.9	42.6	53.6
With cargo.....	7.9	13.6	21.1	24.9	23.8	24.4	9.8	19.0	24.5	26.2	30.7	42.1
Great Lakes.....	25.3	27.5	28.8	32.9	34.3	36.3	25.2	27.2	29.4	33.3	34.5	36.9
With cargo.....	14.5	15.2	14.0	20.5	17.6	17.1	18.6	20.2	21.2	21.6	24.5	26.6

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

NO. 1181. TRAFFIC THROUGH THE PANAMA CANAL: 1960 TO 1979

[Through 1976, for years ending June 30; beginning 1977, ending Sept. 30. See also *Historical Statistics, Colonial Times to 1970*, series Q 553-555]

YEAR	ALL TRAFFIC		COMMERCIAL OCEAN TRAFFIC ¹				Nationality of vessel	COMMERCIAL OCEAN TRAFFIC, ¹ 1979			
	Transits (1,000)	Cargo (mil. lg. tons)	Transits (1,000)	Net tons (mil.)	Tolls (mil. dol.)	Cargo (mil. lg. tons)		Transits	Net tons (mil.)	Tolls (mil. dol.)	Cargo (mil. lg. tons)
1960.....	12.1	60.4	10.8	58.3	50.9	59.3	U.S.....	1,633	28.2	33.8	24.8
1965.....	12.9	78.9	11.8	74.7	65.4	78.6	Great Britain.....	967	12.3	15.5	10.8
1970.....	15.5	118.9	13.7	108.1	94.7	114.3	Greece.....	1,338	17.0	21.1	21.6
1974.....	15.3	149.7	14.0	135.7	119.4	147.9	Japan.....	1,074	15.4	19.2	10.2
1975.....	14.7	140.6	13.6	135.1	141.9	140.1	Liberia.....	1,864	30.2	37.8	33.5
1976.....	13.2	117.4	12.2	127.8	134.2	117.2	Norway.....	401	7.4	9.4	6.7
1977.....	13.1	123.2	11.9	133.4	163.8	123.0	Panama.....	1,145	11.2	13.8	9.3
1978.....	13.8	142.8	12.7	157.0	194.8	142.5	U.S.S.R.....	587	3.3	4.1	2.2
1979.....	14.4	154.5	12.9	167.5	208.4	154.1	All others.....	3,926	42.3	53.7	35.0

¹ Ooceangoing toll-paying vessels and foreign vessels of 300 net tons and over (Canal measurement) for vessels rated on net tonnage, or 500 tons displacement and over for vessels rated on displacement tonnage.

Source: Panama Canal Commission, Balboa Heights, Panama, *Annual Report*.

NO. 1182. U.S. MERCHANT MARINE DOCUMENTED VESSELS: 1950 TO 1979

[Tons in thousands, vessels of 5 net tons or more. As of Jan. 1. Includes Puerto Rico, Guam, and Virgin Islands. Includes barges and non-self-propelled dredges. See also *Historical Statistics, Colonial Times to 1970*, series Q 417-418]

YEAR	Number	Gross tons									
1950.....	36,083	31,215	1968.....	49,545	27,842	1972.....	52,355	27,057	1976.....	63,754	31,893
1955.....	39,242	29,958	1969.....	49,991	28,591	1973.....	54,436	27,406	1977.....	65,971	33,152
1960.....	43,088	28,581	1970.....	49,993	28,613	1974.....	57,928	29,375	1978.....	68,826	35,094
1965.....	45,579	26,516	1971.....	50,750	27,400	1975.....	60,940	30,399	1979.....	72,341	37,023

Source: 1950-1965, U.S. Bureau of Customs; thereafter, U.S. Coast Guard; unpublished data.

NO. 1183. DOMESTIC MERCHANT VESSELS COMPLETED BY U.S. SHIPYARDS: 1960 TO 1979

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

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Merchant vessels.....	Number.....	26	13	13	13	24	20	15	16	17	14	15
Gross tons.....	1,000.....	410	173	342	357	734	697	452	615	884	912	1,149
Cargo.....	Number.....	15	11	6	7	18	11	3	4	2	2	4
Gross tons.....	1,000.....	134	121	120	151	419	314	65	57	25	27	53
Tankers.....	Number.....	11	2	7	6	6	9	12	12	15	12	11
Gross tons.....	1,000.....	276	52	222	208	315	383	387	558	859	885	1,096

Source: 1960, American Bureau of Shipping, New York, N.Y., annually in *The Bulletin*; thereafter, U.S. Maritime Administration, *New Ship Construction*, annual.

NO. 1184. UNITED STATES FLAG MERCHANT VESSELS, STEAM AND MOTOR: 1965 TO 1979

[Deadweight tonnage in thousands. As of June 30 except, beginning 1977, as of Sept. 30. 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					
	1965	1970	1975	1977	1978	1979	1965	1970	1975	1977	1978	1979
Number of vessels	2,076	1,479	612	566	552	566	349	301	279	275	289	305
Active:												
Foreign trade.....	458	354	228	240	204	204	54	32	39	41	62	72
Domestic trade ²	93	70	49	44	46	40	124	175	156	170	175	168
Coastwise.....	13	10	17	8	6	8	105	132	136	117	118	114
Noncontiguous.....	58	43	29	36	40	31	14	35	12	38	41	40
Special service.....	29	146	34	41	43	45	21	42	26	28	24	23
Inactive:												
Temporarily.....	118	41	38	12	47	36	82	22	31	24	16	22
Reserve fleet.....	1,378	868	263	229	212	241	68	30	27	12	12	20
Tons carried	21,119	15,445	8,175	7,850	7,807	7,844	7,636	7,835	9,433	11,618	13,446	15,153
Active:												
Foreign trade.....	5,402	4,699	3,901	4,336	3,829	3,886	1,475	1,076	2,303	2,481	4,655	6,223
Domestic trade ²	1,061	850	832	646	685	597	2,892	4,518	4,855	6,796	7,036	7,032
Coastwise.....	142	116	354	137	111	120	2,525	3,483	4,299	3,794	3,428	3,353
Noncontiguous.....	627	482	424	509	574	468	242	870	339	2,601	3,091	3,239
Special service.....	375	1,741	459	500	530	565	618	1,189	755	783	914	645
Inactive:												
Temporarily.....	1,369	472	541	174	733	499	1,735	691	1,173	1,394	677	952
Reserve fleet.....	12,914	7,684	2,442	2,194	2,030	2,297	916	361	347	164	164	301

¹Includes combination passenger and cargo vessels, not shown separately. ²Includes 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. 1185. SHIPBUILDING IN PRIVATE SHIPYARDS—SUMMARY: 1970 TO 1979

[Steel self-propelled vessels of 1,000 tons or over. See also *Historical Statistics, Colonial Times to 1970*, series Q 449-458]

TYPE OF VESSEL AND STATUS OF CONSTRUCTION	NUMBER						TONS (1,000)					
	1970	1975	1976	1977	1978	1979	1970	1975	1976	1977	1978	1979
Commercial (gross tons):												
Under construction ¹	49	96	79	72	60	70	1,388	5,064	4,674	4,238	3,467	2,635
Contracted for.....	13	14	16	13	30	21	580	599	339	266	394	487
Launched.....	11	18	25	19	22	20	322	759	1,142	988	1,170	720
Delivered.....	13	19	22	25	19	21	370	469	755	1,036	1,027	1,298
Cancelled.....	(NA)	12	1	-	1	1	(NA)	545	21	-	199	8
Naval (light displacement tons):												
Under construction ¹	108	63	76	88	91	102	621	663	690	712	652	677
Contracted for.....	6	16	20	15	25	13	132	106	91	89	119	61
Launched.....	23	8	9	12	19	25	117	110	48	91	127	142
Delivered.....	32	3	8	12	14	16	166	79	70	148	95	108

- Represents zero. NA Not available. ¹As of Jan. 1.

Source: Shipbuilders Council of America, Washington, D.C., *Annual Report*, and unpublished data.

NO. 1186. VESSELS REPAIRED OR CONVERTED IN PRIVATE SHIPYARDS: 1960 TO 1979

[Covers both shipbuilding and ship repair yards. See also *Historical Statistics, Colonial Times to 1970*, series Q 467-472]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
All vessels: Volume.....	Mil. dol.....	396	718	790	916	1,246	1,242	1,359	1,497	² 1,671	² 1,670
Commercial ships ³	Mil. dol.....	274	383	431	523	713	688	715	756	² 780	² 800
Naval ships.....	Mil. dol.....	122	335	359	393	533	554	644	741	² 891	² 870
Over 1,000 gross tons:											
Yards reporting.....	Number.....	93	93	75	72	65	72	70	70	65	(NA)
Commercial vessels.....	1,000.....	12.8	12.7	12.4	8.6	8.5	7.9	8.0	8.2	8.2	(NA)

NA Not available. ¹Preliminary. ²Estimated. ³Includes Military Sealift Command work.

Source: Shipbuilders Council of America, Washington, D.C., *Annual Report*, and unpublished data.

NO. 1187. EMPLOYEES IN GOVERNMENT AND PRIVATE SHIPYARDS: 1960 TO 1979

[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]

YEAR	Total	Private yards ¹	Navy yards	YEAR			YEAR	Total	Private yards ¹	Navy yards	
				YEAR	Total	Private yards ¹					YEAR	Total	Private yards^{1}	Navy yards
1960.....	208	112	96	1972.....	216	146	70	1976.....	233	168	65
1965.....	213	129	84	1973.....	214	149	65	1977.....	242	174	68
1970.....	216	134	83	1974.....	225	161	64	1978.....	240	169	71
1971.....	210	135	76	1975.....	217	154	65	1979.....	233	162	71

¹ Includes all full- and part-time employees.

Source: U.S. Bureau of Labor Statistics, unpublished data. (Current data for private yards published monthly in *Employment and Earnings*.)

NO. 1188. EMPLOYMENT ON U.S. FLAG MERCHANT VESSELS, 1960 TO 1979, AND BASIC MONTHLY (JANUARY) WAGE SCALE FOR ABLEBODIED SEAMEN, 1970 TO 1980

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

YEAR	Em- p- ment ¹	YEAR	Em- p- ment ¹	YEAR	East coast wage rate ²	West coast wage rate ²	YEAR	East coast wage rate ²	West coast wage rate ²
1965.....	² 39.1	1977.....	20.9	1974.....	583	856	1978.....	804	1,172
1970.....	37.6	1978.....	19.9	1975.....	612	900	1979.....	865	1,287
1975.....	20.5	1979.....	19.7	1976.....	686	1,001	1980.....	967	1,414

¹ As of June 30, except beginning 1977, 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 Decrease due to seafaring strike. ³ 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, 1960-1965, *Seafaring Wage Rates*; thereafter, unpublished data.

NO. 1189. MERCHANT VESSELS—SHIPS AND TONNAGE LOST, BY TYPE OF SHIP: 1976 TO 1978

TYPE OF SHIP	SHIPS LOST				GROSS TONNAGE LOST (1,000)			
	1976	1977	1978		1976	1977	1978	
			Total	Percent of total			Total	Percent of total
	Total¹	345	336	473	100.0	1,156	1,073	1,711	100.0
Tankers.....	32	19	29	5.9	558	373	703	41.1
Ore/bulk carriers.....	8	8	13	2.7	123	82	186	10.9
General cargo.....	185	194	286	60.5	361	412	756	44.2
Passenger ²	6	2	2	.4	48	10	3	.2
Fishing.....	82	82	99	20.9	25	26	27	1.6

¹ Includes types not shown separately. ² Includes cargo-passenger ships.

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

NO. 1190. WORLDWIDE TANKER CASUALTIES, 1973 TO 1980, AND BY FLAG, 1978

[Covers tankers, ore/oil carriers, and bulk/oil vessels of 6,000 deadweight tons and over; excludes liquid gas carriers. 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	1973	1975	1977	1979	1980 ¹	FLAG OF REGISTRY (1978)	Vessels (Jan. 1, 1978)	Casualties, 1978
Partial and total.....	1,273	906	834	772	338	Total, 66 nations	4,137	685
Total.....	12	22	20	26	11	American.....	302	76
Personnel loss: Deaths.....	70	90	113	306	71	British.....	334	87
Injuries.....	159	14	102	135	9	Greek.....	350	96
						Japanese.....	264	12
Oil spills:						Liberian.....	968	157
Number.....	36	45	49	65	15	Norwegian.....	281	18
Amount (1,000 tons).....	84.5	186.0	213.1	723.5	124.0	Russian.....	216	8
						Other nations.....	1,422	201

¹ Jan.-June. ² Includes actual and constructive (cost to repair damage exceeds value of vessel) total losses.

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

NO. 1191. MERCHANT VESSELS—WORLD AND UNITED STATES: 1960 TO 1979

[Vessels of 100 gross tons and over. 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.: OWNED	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1960	2,005	8,382	34,056	129,339	49	379	3,845	24,781
1965	2,202	11,763	39,628	159,979	116	218	3,224	21,478
1970	2,814	20,980	50,472	227,138	156	375	2,822	18,423
1975	2,730	34,202	61,501	341,780	127	476	3,801	14,491
1976	2,723	33,922	63,611	371,612	143	815	4,035	14,810
1977	2,796	27,532	67,945	393,678	129	1,012	4,740	15,300
1978	2,618	18,194	69,020	406,002	151	1,033	4,746	16,188
1979	2,466	14,289	71,129	413,021	182	1,352	5,088	17,542

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

NO. 1192. MERCHANT FLEETS OF THE WORLD: 1970 TO 1978

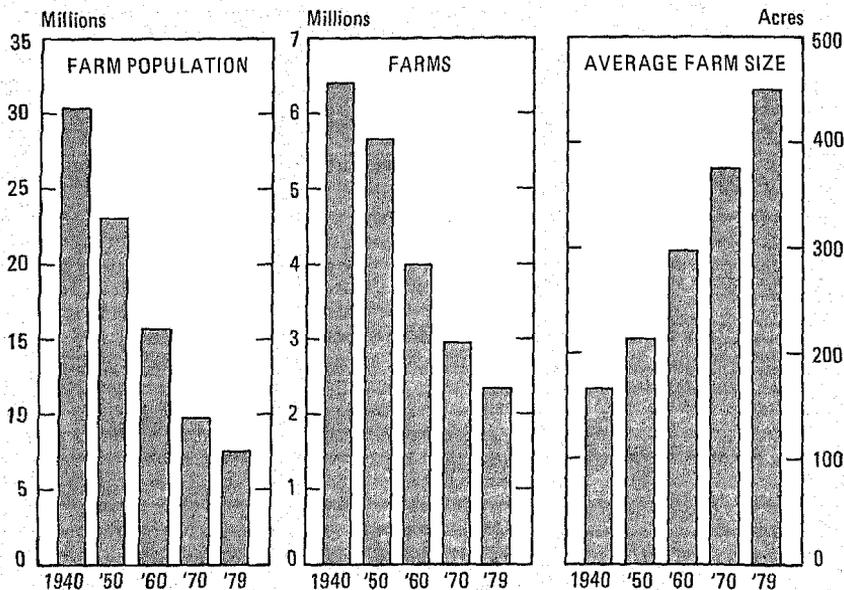
[Vessels of 1,000 gross tons and over. As of Dec. 31. Specified countries have 100 or more ships]

YEAR AND COUNTRY OF REGISTRY, 1977	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.)
1970, world total	19,980	13	895	21	11,899	13	2,954	8	4,232	11
United States	1,579	22	171	25	1,076	23	38	25	294	19
Foreign	18,401	12	724	20	10,823	13	2,916	8	3,938	10
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
1977, world total	24,098	12	655	22	13,176	13	4,932	9	5,333	11
United States	840	22	62	31	484	22	18	26	276	19
Foreign	23,256	12	593	21	12,692	13	4,914	9	5,057	10
1978, world total	24,641	12	555	23	14,000	13	4,821	9	5,265	11
United States	879	22	74	32	481	23	22	21	302	19
Privately-owned	584	17	6	18	278	16	22	21	278	18
Government-owned	295	33	68	33	203	32	-	-	24	34
Foreign	23,762	12	481	22	13,519	13	4,799	9	4,963	11
Argentina	188	18	2	21	104	16	26	16	56	23
Brazil	285	12	6	30	178	12	39	8	62	12
British Colonies	175	11	2	16	89	13	57	8	27	12
Bulgaria	112	11	4	12	56	12	33	10	19	12
China: Mainland	559	15	12	25	398	16	71	11	78	14
Taiwan	149	12	7	25	95	12	34	11	13	10
Cyprus	483	22	8	30	421	22	28	20	26	18
Denmark	340	6	9	14	217	6	40	4	74	7
Finland	181	10	5	16	99	10	37	7	40	11
France	383	8	5	10	199	7	50	7	129	9
German Dem. Rep.	155	12	3	25	124	11	19	15	9	15
Germany, Fed. Rep. of	592	7	2	18	441	7	68	6	81	7
Greece	2,693	15	58	27	1,507	17	762	11	366	16
India	364	11	9	17	221	13	101	8	33	7
Indonesia	219	18	25	22	161	18	11	10	22	16
Italy	609	16	27	24	203	17	153	13	226	15
Japan	1,781	7	6	11	761	8	540	6	474	6
Korea, Rep. of	301	11	-	-	183	12	72	8	46	12
Liberia	2,439	9	14	23	607	9	934	8	884	9
Netherlands	443	8	3	15	339	8	37	8	64	11
Norway	884	8	30	16	254	9	287	7	313	7
Panama	2,170	14	39	26	1,545	15	334	11	252	13
Philippines	178	17	17	17	116	18	14	7	31	19
Poland	310	10	6	10	214	12	76	8	14	4
Romania	163	6	2	21	112	7	41	4	8	7
Singapore	634	14	16	24	426	15	76	9	116	11
Soviet Union	2,501	12	66	20	1,814	12	145	11	476	12
Spain	495	10	14	28	283	9	67	6	131	10
Sweden	265	7	2	7	133	8	54	6	76	6
Turkey	154	13	11	30	95	12	20	9	28	10
United Kingdom	1,228	9	12	12	568	9	278	7	370	9
Yugoslavia	245	14	8	14	175	15	49	8	13	14
All others	2,084	15	51	21	1,381	16	246	12	406	12

- Represents zero. ¹ Includes bulk/oil, ore/oil, and ore/bulk/oil carriers.

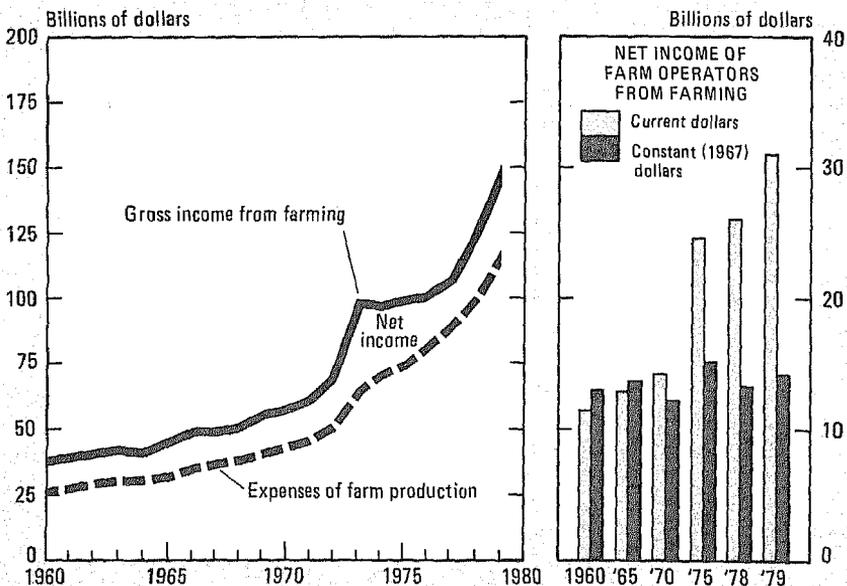
Source: U.S. Maritime Administration, *A Statistical Analysis of the World's Merchant Fleets*, annual.

Figure 24.1
Changes in Farming: 1940 to 1979



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1193 and 1195.

Figure 24.2
Farm Income and Expenses: 1960 to 1979



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

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Section 24

Agriculture

This section presents statistics on farms and farm population; land use, irrigation, and conservation; 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 of these data are the reports issued by the U.S. Bureau of the Census and by the Economics, Statistics, and Cooperatives Service (ESCS) 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 roughly every 5 years from 1925 to 1978. The 1978 Census of Agriculture is the most recent census for which reports are presently available. Censuses of irrigation organizations and drainage augment the census of agriculture every 10 years. The ESCS issues several annual reports, including *Agricultural Statistics*, *Crop Production*, *Crop Values*, *Balance Sheet of the Farming Sector*, *Changes in Farm Production and Efficiency*, and *Farm Income Statistics*. *Situation* reports issued periodically by the ESCS present current data on a variety of crops. Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade of the United States*, published by the ESCS, 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*. In addition, the ESCS provides agricultural employment estimates and wage rates in the monthly *Farm Labor* and the annual *The Hired Farm Working Force*. Also reported are days employed, earnings from farm and nonfarm work, personal characteristics of hired farm workers, and other pertinent information.

Agricultural statistics have been issued by the Department of Agriculture for over 100 years. The 44 field offices of the ESCS collect data on crops, livestock products, agricultural prices, farm employment, and other related subjects mainly through sample surveys. Information is obtained on some 150 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 Crop Reporting Board of ESCS which reviews the estimates and issues reports containing State and national data.

Farms and farmland.—Over time, the Bureau of the Census has used varying definitions of a farm. Data shown from the census of agriculture reflect the changes in definition since figures are presented for "farms" as defined during the years indicated. For the Census of Agriculture for 1974 and 1978, a farm was defined to include all land on which agricultural operations were conducted under the day-to-day control of an individual management and from which \$1,000 or more of agricultural products were, or potentially could be, sold during the census year. Control may have been exercised through ownership or management, or through a lease, rental, or cropping arrangement. Volume I census reports for 1974 and 1978 provide a detailed explanation of the new definition along with measures of the effect of the change for each State and county. The effect of the change in definition must be considered when comparing coverage estimates for all farms in the 1974 and 1978 censuses with those in previous censuses (see table 1195). 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. In the 1950 and 1954 censuses, places of 3 or more acres were counted as farms if the annual value of agricultural products, exclusive of homegarden products,

amounted to \$150 or more; places of less than 3 acres were counted as farms only if the annual sales amounted to \$150 or more. For definitions used in earlier censuses, see *U.S. Census of Agriculture: 1974*, vol. II, Part I, General Information.

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.

In general, data for 1978 and earlier censuses are comparable only for farms with total value of sales of \$2,500 or more. However, even for those farms, the difference in the timing of the censuses and a change in data collection procedures from personal interview to mail enumeration, beginning with the 1969 census, affect comparability.

Currently included as farms are such diverse enterprises as nurseries, greenhouses, sod farms, mushroom operations, cranberry bogs, feedlots, fish farms, and hatcheries; excluded are business enterprises exclusively engaged in forest production and in production of fish, oysters, fowl, etc., from the ocean, game preserves, parks, and the like, when not grown in captivity. In the case of landowners who had one or more tenants, or renters, the land operated by each was counted as a separate farm.

Farmland refers to all land under the control of a farm operator and considered as part of his farm, including land not actually under cultivation or not used for pasture or grazing. Rent-free land was included as part of the farm only if the operator had sole use of it. Land used for pasture or grazing on a per head basis that was neither owned nor leased by the farm operator is not included except for grazing lands controlled by grazing associations leased on a per acre basis.

Estimates based on the coverage evaluation survey for the 1974 census indicate about 95 percent of the farms with a value of products sold of \$2,500 or more were included in the census. Approximately 74 percent of the farms with value of sales less than \$2,500 were included. The estimates for total farms indicate about 89 percent of all farms and 97 percent of the value of farm products sold were included in the census. The 1969 census was estimated to have included 97 percent of the farms with a value of products sold of \$2,500 or more and 97 percent of the value of products sold from this group of farms.

Farm population.—Farm population consists of all persons living on farms in rural areas. Data prior to 1960 are based on self-identification by respondents as to whether they live on a farm, and are not based on any criterion for the definition of a farm. Farm population data shown for 1960 to 1979 are based on the definition of a farm used for the 1969 Census of Agriculture. Farm population data for 1978 and 1979 based on the 1974 census farm definition are also shown and so indicated.

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. In addition to collecting information on irrigation from individual farms in the census of agriculture, the Bureau of the Census 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.—Cash income comprises cash receipts from farm marketings and Federal payments made directly to farmers for farm related activities. Farm marketings represent agricultural products sold by farmers multiplied by prices received per unit of production at the local market. Gross farm income includes cash income, value of farm products consumed in farm homes, rental value of farm homes, etc.

Information on prices received for farm products is generally obtained by the ESCS Crop Reporting Board from surveys of firms (such as grain elevators, packers, and processors) purchasing agricultural commodities direct from producers. In some cases, the price information is obtained directly from the producers. Season average prices received by farmers 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.

Crops.—Estimates of crop acreage and production by the ESCS are based on current sample survey data obtained from individual reporters and objective yield counts which are supplemented by State assessors' enumerations of agricultural information, 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.

Price supports.—Under law, farm incomes are 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. At the end of the loan period, the farmer may choose to either repay the loan with interest and retain the commodity, or forfeit the commodity as payment for 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. Volume II of *U.S. Census of Agriculture: 1974* gives a complete history of the enumeration of livestock and analyzes comparability from census to census. Comparability of livestock inventories over time is seriously affected by changes in date of enumeration.

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 I.

NO. 1193. FARM POPULATION AND EMPLOYMENT: 1930 TO 1979

[In thousands, except percent. Prior to 1959, excludes Alaska and 1960, Hawaii. Minus sign (—) denotes decrease. For definition of farm population, see text, p. 684. See also *Historical Statistics, Colonial Times to 1970*, series C 76-78 and K 1-3 and K 174]

YEAR	FARM POPULATION ¹		NET AVERAGE ANNUAL CHANGE ³		Farm employment ⁵	YEAR	FARM POPULATION ¹		NET AVERAGE ANNUAL CHANGE ³		Farm employment ⁵
	Total	Per cent of total population ²	Births and deaths	Migra-tion ⁴			Total	Per cent of total population ²	Births and deaths	Migra-tion ⁴	
1930.....	30,529	24.9	461	-593	12,497	1969					
1935.....	32,161	25.3	384	-58	12,733	DEFINITION—Con.					
1940.....	30,547	23.2	386	-708	10,979	1967.....	10,875	5.5	73	-793	4,903
1945.....	24,420	17.5	377	-1,602	10,000	1968.....	10,454	5.3	60	-481	4,749
1950.....	23,048	15.3	403	-677	9,926	1969.....	10,307	5.1	51	-198	4,596
1955.....	19,078	11.6	321	-1,115	8,381	1970.....	9,712	4.8	47	-642	4,523
1956.....	18,712	11.2	261	-627	7,852	1971.....	9,425	4.6	43	-330	4,436
1957.....	17,656	10.4	239	-1,295	7,600	1972.....	9,610	4.6	29	156	4,373
1958.....	17,128	9.9	220	-748	7,503	1973.....	9,472	4.5	26	-164	4,337
1959.....	16,592	9.4	203	-740	7,342	1974.....	9,264	4.4	25	-233	4,389
1969 DEFINITION						1975.....	8,864	4.2	25	-425	4,342
1960.....	15,635	8.7	184	-1,142	7,057	1976.....	8,253	3.8	24	-635	4,374
1961.....	14,803	8.1	168	-1,000	6,919	1977.....	7,806	3.6	27	-474	4,155
1962.....	14,313	7.7	156	-646	6,700	1978.....	8,005	3.7	27	172	3,957
1963.....	13,367	7.1	140	-1,086	6,518	1979.....	7,553	3.4	(NA)	(NA)	3,774
1964.....	12,954	6.8	121	-553	6,110	1974 DEFINITION					
1965.....	12,363	6.4	112	-703	5,610	1978.....	6,501	3.0	(NA)	(NA)	3,957
1966.....	11,595	5.9	90	-858	5,214	1979.....	6,241	2.8	(NA)	(NA)	3,774

NA Not available. ¹ April 1, except beginning 1960, April-centered annual averages. ² Includes Armed Forces abroad. ³ Change from preceding year shown. For 1930, change from 1925. ⁴ Beginning 1940, includes inductions and enlistments into Armed Forces, and persons returning from Armed Forces. For all years, includes persons who did not move but who were in and out of the farm population because agricultural operations began or ceased, respectively, on the place where they were living. ⁵ Includes farm operators and family members doing farm work without wages. See headnote and footnote 1, table 1240.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Population, Estimates for 1910-70; Farm Population Estimates*, annual; and *Farm Labor*, quarterly.

No. 1194. FARM POPULATION, BY CHARACTERISTICS: 1960 TO 1979

[1960, as of April; 1970 and 1979, April-centered annual averages. For definition of farm population, see text, p. 684]

CHARACTERISTIC	FARM POPULATION (1,000)						PERCENT DISTRIBUTION			
	1969 definition			1974 definition, 1979			1969 definition			1974 definition
	1960	1970	1979	Total	Male	Female	1960	1970	1979	1979
Total.....	15,869	9,712	7,553	6,241	3,240	3,002	100.0	100.0	100.0	100.0
White.....	13,092	8,775	7,111	5,891	3,053	2,838	83.6	90.4	94.1	94.4
Black and other races.....	2,577	938	443	350	186	164	16.4	9.7	5.9	5.6
Under 14 years of age.....	4,995	2,490	1,512	1,258	637	621	31.9	25.6	20.0	20.2
14 years of age and over.....	10,674	7,222	6,042	4,984	2,602	2,381	68.1	74.4	80.0	79.9
14-19 years.....	1,868	1,316	1,000	828	429	399	11.9	13.6	13.2	13.3
20-24 years.....	763	502	529	459	263	196	4.9	5.2	7.0	7.4
25-34 years.....	1,461	770	777	627	333	294	9.5	7.9	10.3	10.0
35-44 years.....	1,803	1,061	877	724	358	370	11.5	10.9	11.6	11.6
45-64 years.....	3,453	2,452	1,927	1,618	845	774	22.0	25.2	25.5	25.9
65 years and over.....	1,326	1,122	932	727	378	349	8.5	11.6	12.3	11.6
In labor force ¹	6,266	4,293	3,781	3,180	2,124	1,056	58.7	59.4	62.6	63.8
Employed, agriculture.....	4,025	2,333	1,761	1,661	1,331	300	37.7	32.3	29.1	33.3
Percent of total.....	64.2	54.3	46.6	52.2	62.7	31.3	(x)	(x)	(x)	(x)
Self-employed.....	2,405	1,411	1,104	1,040	944	96	22.7	19.5	18.3	20.9
Wage and salary workers.....	782	395	364	341	282	58	7.3	5.5	6.0	6.8
Unpaid family workers.....	838	526	294	280	105	175	7.9	7.3	4.9	5.6
Employed, nonagriculture.....	2,064	1,878	1,934	1,453	763	690	19.3	26.0	32.0	29.2
Self-employed.....	(NA)	159	192	146	101	44	(NA)	2.2	3.2	2.9
Wage and salary workers.....	(NA)	1,698	1,720	1,292	660	632	(NA)	23.5	28.5	25.9
Unpaid family workers.....	(NA)	21	21	15	1	13	(NA)	.3	.3	.3
Unemployed.....	177	82	86	66	30	36	1.7	1.1	1.4	1.3
Not in labor force ¹	4,408	2,929	2,261	1,804	479	1,326	41.3	40.6	37.4	36.2

NA Not available. X Not applicable. ¹ 14 years old and over.Source: U.S. Bureau of the Census, *Current Population Reports*, series P-27, Nos. 42 and 53.

No. 1195. FARMS—NUMBER AND ACREAGE: 1930 TO 1980

[Estimated. Prior to 1959 excludes Alaska and Hawaii. For definition of farms and farmland, see text, pp. 683 and 684. 1930-1954, farms and farmlands as defined in census year shown; beginning 1959 based on census year definition shown. 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 (-) denotes decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7]

YEAR	FARMS			YEAR	FARMS		
	Number (1,000)	Annual change ¹ (1,000)	Total (mil. acres)		Number (1,000)	Annual change ¹ (1,000)	Total (mil. acres)
1930.....	6,546	15	987	1969 DEFINITION—Con.			
1935.....	6,814	54	1,055	1970.....	2,949	-51	1,102
1940.....	6,350	-93	1,061	1971.....	2,902	-47	1,097
1945.....	5,967	-77	1,142	1972.....	2,860	-42	1,092
1950.....	5,648	-64	1,202	1973.....	2,823	-37	1,088
1954.....	4,798	-213	1,206				
1969 DEFINITION				1974.....	2,795	-28	1,084
1959.....	4,105	-139	1,183	1975.....	2,767	-28	1,081
1960.....	3,963	-142	1,176	1976.....	2,738	-29	1,078
1961.....	3,825	-138	1,168	1977.....	2,706	-32	1,075
1962.....	3,692	-133	1,159	1978.....	2,672	-34	1,072
1963.....	3,572	-120	1,152	1974 DEFINITION			
1964.....	3,457	-115	1,146	1975.....	2,491	(x)	1,063
1965.....	3,356	-101	1,140	1976.....	2,454	-37	1,059
1966.....	3,257	-99	1,132	1977.....	2,409	-45	1,055
1967.....	3,162	-95	1,123	1978.....	2,370	-39	1,052
1968.....	3,071	-91	1,115	1979.....	2,333	-37	1,049
1969.....	3,000	-71	1,108	1980, pref.....	2,309	-24	1,047

X Not applicable. ¹ Average annual change from preceding year shown. For 1930, change from 1925.Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Number of Farms, 1910-1959; Land in Farms 1950-1959*, by States (Statistical Bulletin No. 316); *Number of Farms and Land in Farms, 1959-70* (Statistical Bulletin No. 507); *Farms and Land in Farms, 1969-75* (Statistical Bulletin No. 594); and *Farm Numbers*, annual supplements.

NO. 1196. FARM POPULATION BY CHARACTERISTICS OF FARM: 1970 AND 1979

[In thousands. As of June. Excludes Alaska and Hawaii. For definition of farm population, see text, p. 684]

FARM CHARACTERISTIC	1970 ¹ (1969 definition)					1979 (1974 definition)				
	Total ²	White	Black	North and West	South	Total ²	White	Black	North and West	South
Total	10,017	9,307	663	5,932	4,086	7,199	6,873	291	4,566	2,633
Farm operator's household.....	9,145	8,685	428	5,590	3,555	6,747	6,548	167	4,364	2,383
Other dwelling units.....	873	622	236	342	531	453	325	124	202	251
Full owner.....	5,991	5,638	325	3,421	2,570	3,581	3,436	125	2,227	1,354
Part owner.....	2,971	2,769	193	1,905	1,066	2,964	2,809	144	1,882	1,082
Tenant or manager.....	1,056	900	145	606	450	655	628	22	458	197
Value of products sold: ³										
\$50-\$2,499.....	3,586	3,244	329	1,561	2,026	1,095	1,022	64	510	585
\$2,500-\$4,999.....	1,227	1,147	78	629	598	1,674	1,595	72	847	827
\$5,000-\$9,999.....	1,193	1,123	62	743	450					
\$10,000-\$19,999.....	1,518	1,461	47	1,160	358	891	865	23	550	340
\$20,000-\$39,999.....	1,290	1,233	51	1,027	263	1,005	963	35	702	302
\$40,000-\$99,999.....	1,203	1,098	96	812	392	1,373	1,352	18	1,090	283
\$100,000 and over.....						1,162	1,077	80	867	295
Type of farm: ⁴ Cash grain.....	1,784	1,716	65	1,416	388	1,885	1,800	81	1,457	428
Tobacco.....	713	563	146	29	684	462	406	48	22	439
Cotton.....	260	187	70	42	218	143	96	47	17	127
Livestock.....	3,951	3,796	142	2,276	1,674	2,797	2,700	87	1,577	1,220
Dairy.....	1,159	1,148	(⁵)	1,007	152	898	894	(⁵)	788	111
Other.....	1,241	1,160	65	835	405	1,015	978	28	706	309

¹ Data by type of farm for 1973. ² Includes other races not shown separately. ³ Based on gross income received from sale of crops, livestock, poultry, and other agricultural products. Includes all government payments received. ⁴ Classification based on product having largest percentage of total sales. ⁵ Included in other.
 Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Population Trends and Farm Characteristics* (Rural Development Research Report No. 3), 1978, and unpublished data.

NO. 1197. CHARACTERISTICS OF FARM AND NONFARM FAMILIES: 1970 TO 1979

CHARACTERISTIC	1970 (Mar.)			1975 (Mar.)			1979 (Mar.)		
	Total	Farm	Nonfarm	Total	Farm	Nonfarm	Total	Farm	Nonfarm
Total families (1,000)	51,237	2,457	48,781	55,712	2,398	53,314	57,804	2,051	55,753
Persons per family.....	3.62	3.77	3.61	3.42	3.62	3.41	3.31	3.45	3.30
Mean number of own children.....	2.33	2.61	2.32	2.09	2.33	2.08	1.93	2.11	1.92
With own children under 18 (1,000).....	28,665	1,169	27,496	30,057	1,170	28,887	30,371	959	29,412
Percent with:									
1 or 2 children.....	63.6	57.2	63.9	69.9	61.3	70.2	75.4	69.2	75.6
3 or 4 children.....	28.5	29.3	28.5	24.9	30.3	24.7	21.9	26.6	21.8
5 or more children.....	7.8	13.5	7.6	5.2	8.5	5.1	2.7	4.0	2.7
Percent distribution:									
Husband-wife.....	86.7	90.5	86.5	84.3	92.5	83.9	82.5	92.3	82.1
Male head, no wife present.....	2.4	4.2	2.3	2.7	3.1	2.7	2.9	2.8	2.9
Female head, no husband present.....	10.9	5.3	11.2	13.0	4.3	13.4	14.6	4.8	15.0
2-person families.....	34.5	37.0	34.3	37.4	35.4	37.5	38.9	39.4	38.9
3 to 5 person families.....	52.7	46.4	53.1	52.8	51.5	52.9	53.8	50.7	53.9
6-or-more person family.....	12.9	16.6	12.6	9.8	13.1	9.6	7.3	9.8	7.2

Source: U.S. Bureau of the Census, *Current Population Reports*, series P-20, Nos. 218, 291, and 352.

NO. 1198. MONEY INCOME OF FARM AND NONFARM FAMILIES, BY RACE: 1970 TO 1978

[Based on Current Population Survey, see headnote, table 744 and Appendix III]

ITEM	All families, Mar. 1979 (1,000)	MEDIAN FAMILY INCOME ¹ (CONSTANT 1978 DOLLARS)			PERCENT FAMILIES WITH 1978 INCOME OF--				
		1970	1975	1978	Under \$5,000	\$5,000-\$9,999	\$10,000-\$14,999	\$15,000-\$19,999	\$20,000 or more
All families	57,804	16,578	16,630	17,640	8.2	15.8	16.6	16.9	42.4
Farm.....	2,051	11,380	13,146	15,284	12.5	18.1	18.2	16.0	35.3
Nonfarm.....	55,753	16,811	16,763	17,732	7.9	15.7	16.6	16.9	42.7
White	50,910	17,198	17,295	18,368	6.6	14.9	16.5	17.2	44.7
Farm.....	1,959	11,788	13,621	15,562	11.5	17.8	18.0	16.5	36.3
Nonfarm.....	48,951	17,453	17,444	18,471	6.3	14.7	16.5	17.4	45.1
Black	5,906	10,550	10,642	10,879	22.4	23.8	17.7	13.9	22.3
Farm.....	78	5,086	5,990	6,813	37.1	25.7	19.2	7.7	10.3
Nonfarm.....	5,827	10,743	10,753	10,940	22.3	23.8	17.7	13.9	22.5

¹ 1970 not strictly comparable with later years due to revised procedures. For definition of median, see p. xviii.
 Source: U.S. Bureau of the Census, *Current Population Reports*, series P-60, No. 123.

NO. 1199. FARM POPULATION, BY REGIONS, DIVISIONS, AND STATES: 1940 TO 1970

As of April 1, except beginning 1960, April-centered annual averages. For definition of farm population, see text, p. 684. See also *Historical Statistics, Colonial Times to 1970*, series K 17-81]

REGION AND STATE	FARM POPULATION (1,000)				PERCENT DECREASE		REGION AND STATE	FARM POPULATION (1,000)				PERCENT DECREASE	
	1940	1950	1960	1970	1950-1960	1960-1970		1940	1950	1960	1970	1950-1960	1960-1970
U.S.	30,547	23,048	15,635	9,712	32.2	37.9	S.A.—Con.						
Region 1							Md.	246	183	132	79	27.9	40.5
No. East	2,411	1,791	1,119	699	37.5	37.5	Va.	986	732	467	238	36.2	49.0
No. Cent.	9,349	7,433	5,836	4,305	21.5	26.2	W. Va.	533	411	155	78	62.3	50.1
South	16,400	11,896	7,160	3,754	39.8	47.6	N.C.	1,659	1,377	950	463	31.0	51.3
West	2,367	1,929	1,520	954	21.2	37.2	S.C.	917	701	433	144	38.2	66.6
							Ga.	1,366	962	515	228	46.5	57.8
							Fla.	305	233	157	113	32.6	28.0
N.E.	623	403	232	128	42.4	44.7	E.S.C.	5,283	4,048	2,494	1,329	38.4	46.7
Maine	178	122	81	30	50.0	50.2	Ky.	1,261	974	618	452	36.6	26.8
N.H.	71	47	22	11	53.2	48.9	Tenn.	1,276	1,016	677	384	33.4	43.3
Vt.	107	81	56	32	30.9	43.2	Ala.	1,343	960	519	216	45.9	58.4
Mass.	147	80	50	28	37.5	45.0	Miss.	1,403	1,097	660	277	38.0	59.3
R.I.	17	10	6	4	40.0	37.4							
Conn.	105	63	36	23	42.9	36.0	W.S.C.	5,057	3,215	1,828	1,069	43.1	41.6
M.A.	1,788	1,388	887	571	36.1	35.7	Ark.	1,113	802	415	228	48.3	45.0
N.Y.	730	578	387	239	33.0	38.4	La.	854	567	313	160	44.8	48.8
N.J.	143	105	71	47	32.4	33.7	Okla.	930	553	294	209	46.8	28.9
Pa.	915	705	428	284	39.3	33.6	Tex.	2,160	1,292	806	471	37.6	41.6
E.N.C.	4,638	3,703	2,821	2,053	23.8	27.2	Mt.	1,118	859	678	446	21.1	34.2
Ohio	1,089	853	561	415	31.9	28.7	Mont.	176	136	115	90	15.4	21.7
Ind.	816	667	539	416	19.2	22.9	Idaho	203	165	148	102	10.3	31.4
Ill.	979	763	621	473	18.6	23.9	Wyo.	73	57	47	33	17.5	29.4
Mich.	871	695	486	305	30.1	37.1	Colo.	253	198	143	94	27.8	34.5
Wis.	883	725	594	445	18.1	25.1	N. Mex.	178	132	72	45	45.5	37.5
W.N.C.	4,711	3,729	3,015	2,252	19.1	25.3	Ariz.	114	77	74	34	3.9	54.2
Minn.	915	740	624	482	15.7	22.7	Utah	105	81	65	36	19.8	41.1
Iowa	931	783	703	544	10.2	22.7	Neu.	16	13	13	9	-	25.8
Mo.	1,125	863	595	395	31.1	33.6	Pac.	1,270	1,070	842	508	21.3	39.7
N. Dak.	328	254	207	154	18.5	25.6	Wash.	340	274	199	133	27.4	33.4
S. Dak.	307	254	217	172	14.6	21.0	Oreg.	259	228	165	119	27.6	28.2
Nebr.	498	391	329	253	15.9	23.0	Calif.	870	568	463	249	18.5	46.2
Kans.	607	444	340	252	23.4	25.8	Alaska.	(NA)	(NA)	3	2	(NA)	50.2
S.A.	6,060	4,633	2,838	1,357	38.7	52.2	Hawaii	(NA)	(NA)	12	6	(NA)	47.3
Del.	46	34	27	15	20.6	45.3							

- Represents zero. NA Not available. ¹ For composition of regions, see fig. 1, inside front cover. Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Population Estimates, 1910-70* (Statistical Bulletin No. 523).

NO. 1200. FARMS—NUMBER, ACREAGE, AND VALUE, BY TYPE OF ORGANIZATION: 1969 TO 1978

[Covers farms with sales of \$2,500 and over. 1978 preliminary. In 1978 total land in farms was 928 million acres; total value of land and buildings was \$598,956 million; and total value of farm products sold was \$107,477 million]

TYPE OF ORGANIZATION	NUMBER OF FARMS (1,000)			LAND IN FARMS (mil. acres)		VALUE OF LAND AND BUILDINGS (mil. dol.)		VALUE OF FARM PRODUCTS SOLD (mil. dol.)	
	1969	1974	1978	1969	1974	1969	1974	1969	1974
Total	1,734	1,695	1,866	918	906	179,448	308,890	44,476	80,593
Individual or family	1,481	1,518	1,598	665	678	134,892	241,236	30,179	54,511
Partnership	222	145	210	163	124	31,077	41,307	7,748	11,232
Corporation	22	29	52	81	97	11,824	24,556	6,295	14,426
Other	10	4	6	8	6	1,655	1,791	254	424
PERCENT DISTRIBUTION									
Individual or family	85.4	89.5	85.6	72.4	74.9	75.2	78.1	67.8	67.6
Partnership	12.8	8.6	11.3	17.8	13.7	17.3	13.4	17.4	13.9
Corporation	1.3	1.7	2.8	8.8	10.7	6.6	8.0	14.1	17.9
Other.....	.6	.2	.3	.9	.7	.9	.6	.6	.5

Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. 1, and unpublished data.

No. 1201. FARM OPERATORS—TENURE AND CHARACTERISTICS: 1974 AND 1978

[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 \$2,500 AND OVER		CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF \$2,500 AND OVER	
	1974 ¹	1978 ²	1974 ¹	1978 ²		1974 ¹	1978 ²	1974 ¹	1978 ²
Total operators	2,314	2,480	1,695	1,866	Principal occupation:				
White.....	2,220	(NA)	1,632	(NA)	Farming.....	1,427	1,327	1,236	1,191
Black and other.....	59	(NA)	31	(NA)	Other.....	852	1,153	427	676
Under 25 years old.....	52	(NA)	41	(NA)	Place of residence: ³				
25-34 years old.....	240	(NA)	176	(NA)	On farm operated.....	1,502	1,786	1,125	1,339
35-44 years old.....	400	(NA)	291	(NA)	On another farm.....	94		69	
45-54 years old.....	577	(NA)	433	(NA)	In rural area, not on a farm.....	67	442	45	340
55-64 years old.....	589	(NA)	442	(NA)	In urban area.....	210		146	
65 years old and over.....	421	(NA)	280	(NA)	Days worked off farm: ³				
Average age (years).....	51.7	50.1	51.4	49.8	None.....	830	(NA)	691	(NA)
Full owner.....	1,424	1,453	904	964	Less than 100.....	197	264	147	222
Part owner.....	628	714	566	640	100-199 days.....	157	1,101	102	691
Tenant.....	262	313	225	263	200 days or more.....	658		347	

NA Not available. ¹ Except for tenure, data apply only to individual or family operations and partnerships.
² Preliminary. ³ Excludes not reported.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. I, and unpublished data.

No. 1202. CHARACTERISTICS OF CORPORATE FARMS, BY TYPE: 1974

ITEM	Unit	All corporations ¹	Family ² corporation	Independent ³ corporation	Parent ⁴ corporation	PRIVATELY HELD OWNERSHIP			Publicly owned and other
						1-5 shareholders	6-10 shareholders	11 or more shareholders	
Farms.....	Number.....	28,442	21,758	5,115	1,569	21,672	4,005	1,013	947
	Percent.....	100.0	76.5	18.0	5.5	76.2	14.1	3.6	3.3
Land in farms.....	Mil. acres.....	96.1	70.7	10.6	14.8	56.1	18.4	11.7	5.7
Average per farm.....	Acres.....	3,380	3,250	2,087	9,460	2,589	4,596	11,527	6,080
Value of—									
Land and buildings.....	Bil. dol.....	24.6	16.3	4.4	4.0	15.2	3.7	2.4	2.5
Average per farm.....	\$1,000.....	866	747	855	2,551	701	936	2,348	2,602
Farm products sold.....	Bil. dol.....	14.6	7.3	3.5	3.8	7.8	2.2	1.5	2.7
Average per farm.....	\$1,000.....	515	337	691	2,405	360	557	1,526	2,885

¹ For type of ownership, includes shareholders not reported, not shown separately. ² Fifty-one percent or more of stock owned by persons related by blood or marriage. ³ Not a family corporation, not owned or controlled by another corporation, and not owning or controlling any other corporations. ⁴ Corporations which own or control one or more other corporations.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. IV, part 5.

No. 1203. AGRICULTURAL SERVICES—SUMMARY: 1974 AND 1978

SIC code ¹	TYPE OF SERVICE	ESTABLISHMENTS		GROSS RECEIPTS (mil. dol.)		PAID EMPLOYEES (1,000)		PAYROLL (mil. dol.)	
		1974	1978 ²	1974	1978 ²	1974	1978 ²	1974	1978 ²
07	Agricultural services	61,347	93,120	3,555	7,251	501	994	1,206	2,550
071	Soil preparation services.....	730	1,478	41	85	3	9	11	31
072	Crop services.....	5,140	9,850	720	1,676	109	199	197	498
074	Veterinary services.....	10,452	15,551	868	1,549	52	88	258	510
0741	Cattle, hogs, sheep, goats, and poultry.....	3,081	4,021	206	331	10	15	47	84
0742	Dogs, cats, horses, bees, fish, rabbits, other fur-bearing animals, birds (except poultry), and other pets.....	7,371	11,530	662	1,218	42	73	211	426
075	Animal services, except veterinary.....	10,502	16,890	298	634	29	57	88	178
076	Farm labor and management services.....	905	2,769	286	667	161	361	166	386
078	Landscape and horticultural services.....	33,618	46,584	1,342	2,640	146	280	487	947

¹ Standard Industrial Classification Code. ² Preliminary.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. III and unpublished data.

NO. 1204. FARMS—NUMBER, ACREAGE, AND VALUE, BY TENURE OF OPERATOR: 1940 TO 1978

[Number of farms in thousands; land in farms in millions of acres, except as indicated. Minority race figures for number of farms for 1959, and figures for age value of farms, land, and buildings, 1950 through 1964, based on sample. 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 109-153]

ITEM AND YEAR	All farms	Full owner	Part owner	Man-ager	Tenant	PERCENT OF ALL FARMS		
						Full owner	Part owner	Tenant
Number of farms:								
United States: 1940	6,102	3,085	616	37	2,365	50.6	10.1	38.8
1950	5,988	3,092	926	24	1,447	57.4	15.3	26.9
1959	3,711	2,119	811	21	760	57.1	21.9	20.5
1964	3,158	1,818	782	18	540	57.6	24.8	17.1
1969	2,730	1,705	672	(1)	353	62.5	24.6	12.9
1974	2,314	1,424	628	(1)	262	61.5	27.2	11.3
1978, prel.	2,430	1,453	714	(1)	313	58.6	28.8	12.6
South, all races: 1940	3,007	1,328	217	14	1,449	44.2	7.2	48.2
1950	2,652	1,411	326	10	905	53.2	12.3	34.1
1959	1,646	942	314	9	381	57.2	19.1	23.1
1964	1,373	809	304	7	254	58.9	22.1	18.5
1969	1,161	780	245	(1)	136	67.2	21.1	11.7
1974	930	623	214	(1)	93	67.0	23.0	10.0
1978, prel.	1,018	633	264	(1)	119	62.3	26.0	11.7
South, minority races: 1940	680	142	31	(2)	507	20.9	4.6	74.6
1950	559	141	52	(2)	366	25.2	9.3	65.5
1959	268	90	38	(2)	138	33.8	14.3	51.9
1964	185	71	31	(2)	82	38.4	16.8	44.3
1969	90	56	16	(1)	18	62.2	17.8	20.0
1974	47	32	10	(1)	6	66.9	20.6	12.5
Land in farms, U.S.²: 1940								
1950	1,065	382	301	69	313	35.9	28.3	29.4
1959	1,161	419	423	107	212	36.1	36.4	16.3
1964	1,124	349	498	110	167	31.0	44.3	14.9
1969	1,110	319	533	113	145	28.7	48.0	13.1
1974	1,063	375	550	(1)	138	35.2	51.8	13.0
1978, prel.	1,017	359	535	(1)	122	35.4	52.6	12.0
Average value of land and buildings³:								
United States: 1940	\$5,532	\$4,959	\$9,936	\$42,208	\$4,566	(x)	(x)	(x)
1950	14,005	10,719	25,137	153,043	12,926	(x)	(x)	(x)
1959 ⁴	34,763	22,478	56,660	244,714	36,159	(x)	(x)	(x)
1964	50,646	30,297	83,251	(1)	52,998	(x)	(x)	(x)
1969	75,725	47,578	137,606	(1)	94,007	(x)	(x)	(x)
1974	147,838	90,736	263,539	(1)	180,776	(x)	(x)	(x)

X. Not applicable. Z. Less than 500. ¹Data included under other tenure categories. ²1978 total land in farms, 1,031 million acres. ³1978 average value of land and buildings for all farms, \$263,080. ⁴Excludes Hawaii. Source: U.S. Bureau of the Census, *Census of Agriculture: 1959, 1964, and 1969*, vol. II; 1974, vol. I, and unpublished data.

NO. 1205. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY TYPE OF FARM: 1969 AND 1974

[Covers farms with sales of \$2,500 or more. Farm was classified in a particular group if its sales for that product group amounted to 50 percent or more of the total value of farm products sold. The Standard Industrial Classification (SIC) code for each farm type is shown in parentheses]

ITEM AND YEAR	Total	Cash grain¹ (011)	Cot-ton (0131)	To-bac-co (0132)	Live-stock² (021)	Dairy (024)	Poul-try, eggs (025)	Fruit and nut (017)	Vege-table (016)	All other
1969										
Number of farms (1,000)	1,734	369	41	90	648	261	58	54	20	194
Land in farms (mil. acres)	917.9	186.0	18.9	11.5	536.1	64.9	7.5	7.8	4.6	80.5
Products sold, value (mil. dol.)	44,476	6,631	814	941	17,783	6,580	3,936	1,882	1,175	4,933
Percent distribution:										
Number of farms	100.0	21.3	2.3	5.2	37.4	15.1	3.3	3.1	1.1	11.2
Land in farms	100.0	20.2	2.1	1.3	58.4	7.1	.8	.8	.5	8.8
Products sold, value	100.0	14.9	1.8	2.1	40.0	14.8	8.9	3.8	2.6	11.1
1974										
Number of farms (1,000)	1,695	580	31	95	494	196	43	51	20	185
Land in farms (mil. acres)	905.6	281.1	17.8	12.3	442.4	54.1	5.5	7.6	4.7	80.1
Products sold, value (mil. dol.)	80,593	23,673	1,850	1,652	22,125	9,592	6,352	2,858	2,144	10,347
Percent distribution:										
Number of farms	100.0	34.2	1.8	5.6	29.1	11.6	2.5	3.0	1.2	10.9
Land in farms	100.0	31.0	2.0	1.4	48.9	6.0	.6	.8	.5	8.8
Products sold, value	100.0	29.4	2.3	2.0	27.4	11.9	7.9	3.5	2.7	12.8

¹Includes wheat, rice, corn for grain, soybeans, and other cash grains not elsewhere classified. ²Excludes dairy, poultry, and animal specialty farms.

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

NO. 1206. FARMS—NUMBER, 1950 TO 1978, AND ACREAGE, 1969 AND 1974, BY SIZE OF FARM

[1978 preliminary. 1978 total land in farms 1,031 million acres; 1978 total cropland harvested, 462 million acres. See also *Historical Statistics, Colonial Times to 1970*, series K 162-173]

SIZE OF FARM	FARMS						LAND IN FARMS (mil. acres)		CROPLAND HARVESTED (mil. acres)		
	Number (1,000)					Percent distribution		1969	1974	1969	1974
	1950	1959	1969	1974	1978	1974	1978				
Total	5,388	3,711	2,730	2,314	2,480	100.0	100.0	1,062.9	1,017.0	273.0	303.0
Under 10 acres.....	489	244	162	128	216	5.5	8.7	6	5	.2	.2
10-49 acres.....	1,480	813	473	380	476	18.4	19.2	13.3	10.8	4.3	4.3
50-99 acres.....	1,048	658	460	385	414	15.6	32.8	33.6	28.1	10.4	10.5
100-179 acres.....	1,103	773	542	443	414	13.2	32.8	74.0	60.5	26.5	25.1
180-259 acres.....	487	414	307	253	596	10.9	24.0	66.4	54.8	26.6	25.1
260-499 acres.....	478	472	419	363	414	15.7	24.0	149.3	129.8	65.0	65.9
500-999 acres.....	182	200	216	207	215	9.0	8.7	147.8	142.3	60.2	70.1
1,000-1,999 acres.....	121	79	91	93	99	4.0	4.1	123.6	125.7	40.9	51.7
2,000 acres and over.....		57	60	62	64	2.7	2.6	454.3	464.7	39.0	50.1

Source: U.S. Bureau of the Census, *Census of Agriculture: 1969*, vol. II, and 1974, vol. I, and unpublished data.

NO. 1207. FARMS—NUMBER, ACREAGE, AND VALUE OF SALES, BY SIZE OF SALES: 1964 TO 1974

[1964 is based on reports for a sample of farms]

ECONOMIC CLASS OF FARM (value of farm products sold)	Farms ¹ (1,000)	ACREAGE		VALUE OF SALES		PERCENT DISTRIBUTION		
		Total (mil.)	Average per farm	Total (mil. dol.)	Average per farm (\$1,000)	Farms	Acre- age, total	Value of sales, total
1964: Farms with sales of—								
\$2,500 or more.....	1,817	923	508	34,004	18.7	100.0	100.0	100.0
\$2,500-\$4,999.....	444	92	206	1,611	3.6	24.4	9.9	4.7
\$5,000-\$9,999.....	505	158	313	3,653	7.2	27.8	17.1	10.8
\$10,000-\$19,999.....	467	217	465	6,614	14.2	25.7	23.5	19.5
\$20,000-\$39,999.....	260	186	715	7,114	27.4	14.3	20.2	20.9
\$40,000-\$99,999.....	110	149	1,352	6,474	58.9	6.1	16.2	19.0
\$100,000 and over.....	31	121	3,854	8,538	275.4	1.7	13.1	25.1
Less than \$2,500.....	1,338	138	103	1,143	.9	100.0	100.0	100.0
\$50-\$2,499.....	348	42	122	364	1.0	26.0	30.9	31.9
Part-time.....	639	58	91	495	.8	47.8	42.4	43.3
Part-retirement ²	351	37	105	284	.8	26.2	26.7	24.8
Abnormal farms ³	2	50	22,777	146	67.0	100.0	100.0	100.0
1969: Farms with sales of—								
\$2,500 or more.....	1,734	918	530	44,476	25.6	100.0	100.0	100.0
\$2,500-\$4,999.....	395	76	192	1,346	3.4	22.8	8.3	3.0
\$5,000-\$9,999.....	390	107	274	2,814	7.2	22.5	11.6	6.3
\$10,000-\$19,999.....	395	171	433	5,693	14.4	22.8	18.6	12.8
\$20,000-\$39,999.....	331	207	626	9,267	28.0	19.1	22.6	20.8
\$40,000-\$99,999.....	170	185	1,092	10,073	59.3	9.8	20.2	22.6
\$100,000 and over.....	52	172	3,304	15,282	293.8	3.0	18.7	34.5
Less than \$2,500.....	994	90	90	935	.9	100.0	100.0	100.0
\$50-\$2,499.....	193	19	96	188	1.0	19.4	20.6	20.1
Part-time.....	575	49	86	532	.9	57.8	54.9	56.9
Part-retirement ²	227	22	97	215	.9	22.8	24.5	23.0
Abnormal farms ³	2	55	26,174	153	72.3	100.0	100.0	100.0
1974: Farms with sales of—								
\$2,500 or more.....	1,695	906	534	80,593	47.5	100.0	100.0	100.0
\$2,500-\$4,999.....	290	53	184	982	3.4	17.1	5.9	1.2
\$5,000-\$9,999.....	296	66	222	2,138	7.2	17.5	7.2	2.7
\$10,000-\$19,999.....	310	102	390	4,460	14.4	18.3	11.3	5.5
\$20,000-\$39,999.....	322	161	499	9,247	28.7	19.0	17.8	11.5
\$40,000-\$99,999.....	324	247	761	20,072	62.0	19.1	27.2	24.9
\$100,000 and over.....	153	277	1,814	43,694	285.6	9.0	30.6	54.2
Less than \$2,500.....	617	56	91	697	1.1	100.0	100.0	100.0
Occupation—Farming ³	192	20	104	232	1.2	31.0	35.3	33.3
Occupation—Other than farming ³	425	36	86	465	1.1	69.0	64.7	66.6
Abnormal farms ²	2	55	24,605	236	118.0	100.0	100.0	100.0

¹ For preliminary 1978 data, see table 1210. ² Includes institutional farms, experimental and research farms, Indian reservations, etc. ³ Occupation determined by 50 percent or more of work time on farm or other occupation during 1974.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1964 and 1969*, vol. II; 1974, vol. I.

NO. 1208. FARMS—NUMBER, ACREAGE, AND VALUE, BY STATES: 1964 TO 1978

[For composition of regions, see fig. 1, inside front cover. 1978 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series K 17-18]

REGION AND STATE	NUMBER OF FARMS (1,000)			ALL LAND IN FARMS (mil. acres)			AVERAGE ACREAGE PER FARM			TOTAL VALUE ¹ (mil. dol.)		
	1964	1974	1978	1964	1974	1978	1964	1974	1978	1964	1974	1978
U.S.	3,158	2,314	2,480	1,110.2	1,017.0	1,030.9	352	440	416	159,932	342,099	652,753
No. East.....	202	128	149	32.0	23.4	24.9	158	183	167	6,901	15,460	25,778
No. Central.....	1,277	1,017	1,027	383.1	362.9	300	357	356	64,182	150,978	310,319	
South.....	1,373	930	1,016	346.2	305.7	313.2	252	329	308	52,068	110,362	195,426
West.....	306	239	287	348.9	325.1	326.7	1,142	1,360	1,138	36,781	65,299	121,233
N.E.	42	23	30	7.7	4.8	5.2	185	206	171	1,459	2,915	4,884
Maine.....	13	6	8	2.6	1.5	1.8	201	237	197	257	519	887
N.H.....	5	2	3	.9	.5	.5	194	210	164	118	286	503
Vt.....	9	6	7	2.5	1.7	1.8	273	282	240	275	770	1,188
Mass.....	8	4	6	.9	.6	.7	113	134	115	349	576	1,003
R.I.....	1	1	1	.1	.1	.1	94	102	88	51	92	183
Conn.....	6	3	5	.7	.4	.5	119	129	109	409	671	1,120
M.A.	161	104	119	24.2	18.6	19.7	151	178	165	5,442	12,545	20,893
N.Y.....	67	44	49	12.3	9.4	9.9	185	215	201	2,181	4,800	6,712
N.J.....	11	7	10	1.2	1.0	1.1	109	130	107	782	1,737	2,933
Pa.....	83	53	60	10.8	8.2	8.7	130	154	146	2,479	6,008	11,248
E.N.C.	574	445	452	99.5	90.0	92.4	173	202	204	27,909	61,406	133,973
Ohio.....	120	92	96	17.6	15.7	16.1	146	170	168	5,221	11,056	24,129
Ind.....	108	88	88	17.9	16.8	17.0	166	191	193	5,582	12,078	27,222
Ill.....	133	111	110	30.0	29.1	29.7	226	262	271	10,744	24,628	55,934
Mich.....	94	64	68	13.6	10.8	11.4	145	169	168	3,182	5,989	11,174
Wis.....	119	89	90	20.4	17.6	18.1	172	197	201	3,180	7,656	15,514
W.N.C.	704	573	575	283.6	272.9	273.7	403	477	476	36,272	89,572	176,345
Minn.....	131	93	103	30.8	27.6	28.7	235	280	279	5,125	11,855	26,185
Iowa.....	154	126	126	33.8	33.0	33.6	210	262	266	9,181	23,794	52,347
Mo.....	147	116	122	32.7	29.8	30.8	222	258	253	4,928	11,811	22,557
N. Dak.....	49	43	41	42.7	42.4	42.0	875	992	1,020	2,654	6,268	14,826
S. Dak.....	50	43	40	45.6	46.0	44.6	917	1,074	1,124	2,914	6,656	11,570
Nebr.....	80	69	66	47.8	46.2	46.3	596	683	702	5,232	13,017	24,631
Kans.....	92	79	77	50.3	47.9	47.7	544	605	619	6,138	14,211	24,229
S.A.	468	296	326	77.0	60.9	62.1	164	206	191	16,157	34,987	61,229
Del.....	4	3	4	.7	.6	.7	163	185	186	235	612	972
Md.....	21	15	19	3.2	2.6	2.7	153	174	145	1,349	2,791	5,180
Va.....	80	53	57	12.0	9.7	9.9	149	184	175	2,215	5,396	9,937
W. Va.....	35	17	21	5.3	3.5	3.9	153	207	188	478	1,050	2,325
N.C.....	148	91	89	14.4	11.2	11.4	97	123	127	3,622	6,634	12,121
S.C.....	56	29	33	8.1	6.2	6.3	144	211	169	1,403	2,887	4,892
Ga.....	83	55	59	17.9	13.9	13.8	215	253	235	2,431	6,576	10,821
Fla.....	41	32	44	15.4	13.2	13.4	380	407	304	4,423	9,041	15,581
E.S.C.	468	306	319	64.5	53.7	53.6	138	175	168	10,251	22,006	41,285
Ky.....	133	102	110	16.3	14.4	15.0	122	141	137	2,958	6,158	13,098
Tenn.....	133	94	97	15.3	13.1	13.1	114	140	135	2,737	6,177	11,307
Ala.....	93	57	58	15.2	11.9	11.6	165	209	201	1,902	4,310	7,390
Miss.....	109	54	54	17.8	14.3	13.9	163	267	256	2,655	5,421	9,480
W.S.C.	436	328	372	204.8	191.0	197.5	489	582	531	25,660	53,369	92,909
Ark.....	80	51	59	16.6	14.6	15.6	207	287	265	2,935	6,135	11,361
La.....	62	33	39	10.4	9.1	9.6	167	275	247	2,413	4,679	9,683
Okl.....	89	70	80	36.1	33.1	34.4	407	475	432	4,366	9,932	17,763
Tex.....	205	174	194	141.7	134.2	137.9	691	771	709	15,945	32,563	53,502
Mt.	134	112	128	268.0	253.0	254.6	1,998	2,262	1,991	13,650	32,028	58,566
Mont.....	27	23	25	65.8	62.2	62.3	2,437	2,665	2,541	2,791	6,952	12,269
Idaho.....	30	24	27	15.3	14.3	14.9	516	603	561	2,022	4,833	8,783
Wyo.....	9	8	9	37.1	34.3	33.7	4,100	4,274	3,968	1,043	2,751	4,932
Colo.....	30	26	30	38.3	35.9	35.7	1,284	1,408	1,202	2,687	6,734	11,599
N. Mex.....	14	11	14	47.6	47.0	48.5	3,354	4,170	3,392	1,663	3,649	6,910
Ariz.....	6	6	8	40.6	37.9	38.6	6,262	6,539	5,030	2,141	4,197	7,833
Utah.....	16	12	14	12.9	10.6	10.6	817	871	763	910	1,998	4,238
Nev.....	2	2	3	10.5	10.8	10.4	4,862	5,209	3,820	393	915	2,002
Pac.	171	127	159	80.9	72.0	72.1	472	567	453	23,131	33,271	62,869
Wash.....	46	29	38	19.1	16.7	17.0	416	567	451	2,931	5,828	11,956
Oreg.....	40	27	35	20.5	18.2	18.4	516	682	528	2,349	4,552	9,303
Calif.....	81	68	82	37.0	33.4	33.3	458	483	407	17,352	21,793	39,486
Alaska.....	(2)	(2)	(2)	2.0	1.6	1.3	5,129	5,612	3,359	18	69	140
Hawaii.....	5	3	4	2.4	2.1	2.0	484	702	459	481	1,029	1,784

Z Less than 500. ¹ Value of land and buildings. For 1964, based on reports for a sample of farms.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1964*, vol. II; 1974, vol. I; and unpublished data.

NO. 1209. FARMS—NUMBER AND ACREAGE, BY STATES: 1975 AND 1980

[1980 data preliminary. Based on 1974 census definition of farms and farmland; see text, p. 663. 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	
	1975	1980	1975	1980	1975	1980		1975	1980	1975	1980	1975	1980
U.S.	2,491	2,309	1,063	1,047	427	453	Mo.	127	117	32	32	255	276
Ala.	61	54	14	13	226	243	Mont.	23	22	62	62	2,701	2,884
Alaska	(2)	(2)	1	2	5,759	5,484	Nebr.	67	63	48	48	715	759
Ariz.	6	6	41	40	6,817	7,088	Nev.	2	2	9	9	4,495	4,495
Ark.	60	57	17	17	283	295	N.H.	3	3	1	1	212	181
Calif.	68	60	34	32	504	538	N.J.	8	8	1	1	130	129
Colo.	28	26	39	38	1,406	1,478	N. Mex.	11	11	47	47	4,159	4,207
Conn.	4	4	(z)	(z)	129	118	N.Y.	49	44	11	10	218	223
Del.	4	3	1	1	185	207	N.C.	105	98	13	12	119	126
Fla.	35	35	14	14	403	394	N. Dak.	42	40	42	42	993	1,042
Ga.	58	54	15	16	259	296	Ohio	101	96	17	16	165	169
Hawaii	4	4	2	2	654	573	Okl.	75	71	36	35	473	486
Idaho	24	24	16	16	649	660	Oreg.	30	31	19	19	628	610
Ill.	114	105	29	29	270	272	Pa.	67	61	10	9	143	148
Ind.	94	88	17	17	181	192	R.I.	1	1	(2)	(2)	102	88
Iowa	130	119	34	34	262	286	S.C.	36	35	7	7	189	186
Kans.	78	72	49	48	624	669	S. Dak.	44	41	45	45	1,045	1,109
Ky.	107	94	15	14	137	152	Tenn.	102	92	14	14	137	148
La.	37	35	11	10	288	286	Tex.	175	159	140	138	800	870
Maine	7	8	2	2	237	205	Utah	12	12	13	13	1,036	1,050
Md.	16	16	3	3	174	170	Vt.	6	6	2	2	281	276
Mass.	5	5	1	1	131	125	Va.	63	60	10	10	183	182
Mich.	70	63	12	11	164	167	Wash.	33	34	16	16	495	481
Minn.	104	104	30	30	291	291	W. Va.	20	20	4	4	213	214
Miss.	68	48	16	15	228	322	Wis.	101	94	19	19	191	198
							Wyo.	8	7	35	35	4,513	4,875

Z Less than 500 farms or 500,000 acres. ¹ Farmland totals about 70,000 acres (excl. U.S. Government leased grazing land).

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Numbers*, annual.

NO. 1210. FARMS—NUMBER, BY VALUE OF PRODUCTS SOLD, BY STATES: 1978

[Preliminary]

STATE	With sales less than \$2,500	WITH SALES OF—				STATE	With sales less than \$2,500	WITH SALES OF—					
		\$2,500-\$9,999	\$10,000-\$39,999	\$40,000-\$99,999	\$100,000 or more			\$2,500-\$9,999	\$10,000-\$39,999	\$40,000-\$99,999	\$100,000 or more		
U.S.	611,923	663,284	616,744	364,345	223,570	S.A.—Con.							
N.E.	11,313	6,536	5,015	4,370	2,923	W. Va.	11,016	6,835	1,902	510	356		
Maine	3,200	1,650	1,362	1,050	915	N.C.	24,580	25,544	21,618	10,723	7,012		
N.H.	1,508	860	416	318	202	S.C.	14,471	9,141	5,446	2,347	2,045		
Vt.	2,443	1,210	1,206	1,676	769	Ga.	19,776	15,181	10,544	6,533	6,648		
Mass.	2,004	1,571	1,389	697	494	Fla.	15,956	11,694	8,531	3,752	4,232		
R.I.	357	211	159	85	53	E.S.C.	106,725	115,235	63,124	19,741	13,725		
Conn.	1,801	1,034	733	544	490	Ky.	26,569	43,835	29,721	7,239	2,638		
M.A.	33,181	29,807	24,999	21,465	9,776	Tenn.	33,385	39,125	17,080	4,608	2,594		
N.Y.	14,228	10,675	9,842	10,070	4,508	Ala.	22,875	17,256	8,800	4,491	4,118		
N.J.	3,190	2,644	2,078	1,089	931	Miss.	23,896	15,109	7,523	3,403	4,375		
Pa.	15,763	16,488	13,079	10,306	4,337	W.S.C.	115,163	120,194	74,888	34,146	27,361		
E.N.C.	86,162	110,535	128,444	84,042	43,030	Ark.	18,119	17,976	9,301	6,284	7,108		
Ohio	21,980	28,206	26,114	13,051	6,470	La.	16,290	9,850	5,690	3,549	3,394		
Ind.	16,777	23,712	25,420	14,028	8,521	Okl.	20,749	26,977	20,459	7,615	3,730		
Ill.	13,361	20,084	32,737	26,304	17,264	Tex.	60,005	65,391	39,238	16,698	13,129		
Mich.	20,391	19,826	15,782	7,845	4,314	Mt.	30,005	29,136	33,270	20,374	15,096		
Wis.	13,633	18,707	28,391	22,814	6,461	Mont.	3,488	4,648	7,307	5,702	2,756		
W.N.C.	67,073	119,707	193,042	131,665	63,619	Idaho	5,581	5,895	7,206	4,562	3,262		
Minn.	15,231	19,544	33,338	24,908	9,963	Wyo.	1,449	1,704	2,531	1,660	1,156		
N.Y.	8,675	19,283	39,449	37,562	22,430	Colo.	7,032	6,703	7,804	4,526	3,622		
Md.	23,978	39,581	35,756	15,631	6,880	N. Mex.	5,028	3,728	2,783	1,398	1,353		
N. Dak.	2,258	6,226	18,386	10,858	3,444	Ariz.	2,601	1,575	1,225	704	1,571		
S. Dak.	2,740	6,634	15,903	10,758	3,632	Utah	4,008	4,148	3,234	1,465	988		
Nebr.	4,484	10,078	22,919	18,177	10,333	Nev.	820	735	580	357	388		
Kans.	9,707	19,381	27,291	13,771	6,937	Pac.	52,920	37,451	29,602	17,542	21,696		
S.A.	109,381	94,593	64,360	31,000	26,344	Wash.	13,041	8,544	6,350	4,988	4,855		
Del.	440	769	826	629	951	Oreg.	13,804	9,198	5,782	3,165	2,926		
Md.	4,873	5,464	3,927	2,467	2,254	Calif.	24,519	18,218	16,459	9,054	13,613		
Va.	18,289	19,965	11,566	4,039	2,846	Alaska	156	124	63	18	22		
						Hawaii	1,400	1,367	948	317	280		

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

NO. 1211. FARMS—NUMBER, BY TYPE, BY STATES: 1974

[Covers farms with sales of \$2,500 or more. A farm was coded in a particular group if its sales for that product group amounted to 50 percent or more of the total value of farm products sold. The Standard Industrial Classification (SIC) for each product group is shown in parentheses. For composition of regions, see fig. 1, inside front cover]

REGION AND STATE	Total	Cash grain (011)	Col- ton (0131)	To- bacco (0132)	Other field crops ¹	Vege- table (016)	Fruit and nut (017)	Live- stock ² (021)	Dairy (024)	Poul- try and eggs (025)	All other ³
U.S.	1,695,047	580,254	30,725	95,493	81,415	19,548	51,270	493,816	196,057	42,690	103,779
Percent	100.0	34.2	1.8	5.6	4.8	1.2	3.0	29.1	11.6	2.5	6.1
Northeast	91,943	9,912	-	363	7,121	3,673	4,753	11,613	40,694	3,786	10,028
North Central	857,929	411,126	522	3,205	20,383	5,256	4,775	250,456	116,548	6,731	38,927
South	563,977	123,246	26,887	91,925	31,471	5,807	11,192	175,812	27,391	29,966	40,280
West	181,198	35,970	3,316	-	22,440	4,812	30,550	55,935	11,424	2,207	14,544
N.E.	16,606	85	-	130	2,671	813	1,084	1,295	7,047	1,351	2,130
Maine	4,553	50	-	-	1,539	103	288	282	1,217	663	401
N.H.	1,458	3	-	-	179	66	63	182	626	112	247
Vt.	4,531	9	-	-	421	31	78	292	3,378	52	267
Mass.	3,185	13	-	37	256	378	485	283	914	187	632
R.I.	419	2	-	-	58	56	27	38	118	33	87
Conn.	2,460	8	-	93	218	179	133	235	794	304	496
M.A.	75,337	9,827	-	233	4,450	2,860	3,669	10,318	33,647	2,435	7,898
N.Y.	32,198	2,920	-	-	2,325	1,209	2,318	2,883	17,247	581	2,715
N.J.	5,506	1,113	-	-	302	1,061	393	434	739	277	1,187
Pa.	37,633	5,794	-	233	1,823	590	958	7,001	15,661	1,577	3,996
E.N.C.	360,427	177,533	-	2,980	7,764	4,517	4,381	69,790	72,838	3,761	16,863
Ohio	70,283	38,348	-	1,457	1,228	620	631	13,621	8,877	1,152	4,349
Ind.	70,842	43,821	-	1,007	657	372	207	16,891	4,098	1,112	2,777
Ill.	97,703	67,516	-	-	485	367	190	21,761	4,382	506	2,476
Mich.	46,647	20,091	-	-	2,578	1,275	2,875	7,279	8,530	525	3,494
Wis.	74,852	7,757	-	516	2,816	1,883	478	10,218	46,951	466	3,767
W.N.C.	497,592	233,593	522	225	12,619	739	394	180,666	43,710	2,970	22,064
Minn.	85,905	36,036	-	2	3,507	455	97	16,997	22,966	931	4,914
Iowa	117,075	55,342	-	-	678	74	76	49,509	6,616	645	4,135
Mo.	82,385	28,574	522	221	2,125	106	172	41,597	5,249	894	2,625
N. Dak.	40,661	28,797	-	-	1,800	5	2	6,135	1,425	57	2,440
S. Dak.	39,818	12,380	-	-	1,288	6	1	20,126	2,959	135	2,921
Nebr.	62,570	30,039	-	-	1,995	30	8	25,891	2,121	131	2,355
Kans.	69,088	42,425	-	2	1,226	61	38	20,411	2,374	177	2,374
S.A.	189,119	35,953	1,656	51,223	11,774	2,853	9,069	37,617	9,203	13,943	15,828
Del.	2,988	1,414	-	-	50	70	10	114	167	1,004	159
Md.	11,586	3,358	-	1,742	217	265	107	1,428	2,071	1,405	993
Va.	31,697	4,396	-	8,689	1,846	255	485	9,897	2,632	983	2,514
W.Va.	6,099	255	-	208	433	33	184	3,473	782	297	424
N.C.	62,473	11,366	264	32,057	2,882	529	590	6,261	1,773	3,637	3,114
S.C.	17,513	5,835	561	4,880	523	246	325	2,968	415	542	1,218
Ga.	35,836	7,466	802	3,015	4,741	337	416	8,849	926	5,194	4,080
Fla.	20,927	1,853	29	632	1,082	1,118	6,952	4,627	437	881	3,316
E.S.C.	171,245	30,980	9,410	40,681	7,528	1,173	381	48,146	11,424	7,711	13,811
Ky.	67,628	9,525	1	31,459	2,268	108	75	13,592	5,217	236	5,147
Tenn.	48,292	9,577	1,716	9,183	1,937	354	85	16,522	4,152	946	3,920
Ala.	29,269	5,958	2,432	39	2,620	480	173	9,436	718	4,712	2,701
Miss.	26,056	5,920	5,261	-	703	231	48	8,596	1,337	1,917	2,043
W.S.C.	203,613	56,313	15,821	21	12,169	1,781	1,742	90,049	6,764	8,312	10,641
Ark.	31,270	10,606	2,319	1	701	291	173	9,492	1,076	5,498	1,113
La.	18,542	6,707	2,000	20	1,887	278	138	4,539	1,442	461	1,070
Okla.	47,793	16,175	1,107	-	2,746	133	75	22,733	1,479	470	2,875
Tex.	106,008	22,825	10,395	-	6,835	1,079	1,356	53,285	2,767	1,883	5,583
Mt.	90,069	24,587	1,293	-	13,166	819	1,477	37,439	5,297	405	5,586
Mont.	20,177	8,804	-	-	1,607	12	76	8,511	304	32	831
Idaho	19,530	5,426	-	-	4,112	173	162	5,458	2,470	44	1,665
Wyo.	6,885	975	-	-	1,022	4	-	4,393	194	9	288
Colo.	21,055	7,117	-	-	2,922	202	331	8,277	740	90	1,376
N. Mex.	7,736	757	523	-	1,119	183	93	4,555	153	17	336
Ariz.	4,321	305	763	-	491	110	480	1,634	155	22	361
Utah	8,745	1,153	-	-	1,405	129	311	3,710	1,212	189	637
Nev.	1,620	50	7	-	488	7	4	901	69	2	92
Pac.	91,129	11,383	2,023	-	9,274	3,993	29,073	18,496	6,127	1,602	8,958
Wash.	21,056	5,294	-	-	2,538	636	4,319	4,038	1,896	248	1,885
Oreg.	17,017	3,050	-	-	2,447	747	1,992	5,414	1,134	217	2,016
Calif.	50,763	3,020	2,023	-	3,833	2,047	22,286	8,635	3,046	1,282	4,591
Alaska	201	7	-	-	77	4	-	34	20	6	53
Hawaii	2,092	12	-	-	379	357	476	375	31	49	413

- Represents zero. ¹Includes farms with sugar crops, Irish potatoes, hay, peanuts, and other field crops. ²Excludes dairy, poultry, and animal specialty farms. ³Includes SIC codes 018, 0191, 027, 0291, and other not classified.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. 1.

NO. 1212. LAND UTILIZATION, BY TYPE: 1940 TO 1974

[In millions of acres, except percent. For 1940 and 1950, excludes Alaska and Hawaii. See *Historical Statistics, Colonial Times to 1970*, series J 50-65, for similar data]

TYPE	LAND					PERCENT				
	1940	1950	1959	1969	1974	1940	1950	1959	1969	1974
Total land area.....	1,904	1,904	2,271	2,264	2,264	100.0	100.0	100.0	100.0	100.0
Cropland used for crops ¹	368	377	359	333	361	19.3	19.8	15.8	14.7	16.0
Idle cropland.....	31	32	33	51	21	1.6	1.7	1.5	2.3	.9
Cropland used only for pasture.....	68	69	66	86	83	3.6	3.6	2.9	3.9	3.7
Grassland pasture ²	650	631	633	604	598	34.1	33.1	27.9	26.7	26.4
Forest land ³	608	601	728	723	718	31.9	31.6	32.1	31.9	31.7
Special uses ⁴	179	194	148	174	182	9.4	10.2	6.5	7.7	8.0
Other land.....			304	291	301			13.4	12.9	13.3

¹ Cropland harvested, crop failure, and cultivated summer fallow. ² Grassland and other nonforest pasture and range. ³ Excludes reserve forest land in parks and other special uses of land. Includes forest grazing land. ⁴ Includes urban and transportation areas, Federal and State areas used primarily for recreation and wildlife purposes, military areas, farmsteads, farm roads and lanes, and miscellaneous other uses.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual.

NO. 1213. IRRIGATION OF AGRICULTURAL LAND—SUMMARY: 1950 TO 1978

[1978 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series J 85-91]

ITEM	Unit	17 WESTERN STATES AND LOUISIANA ¹					ALL STATES		
		1950	1959	1969	1974	1978	1969	1974	1978
Approximate land area.....	Mil. acres.....	1,191	1,189	1,187	1,187	1,187	2,264	2,264	2,264
Farms, total.....	1,000.....	1,430	1,044	850	745	819	2,730	2,314	2,480
Irrigated.....	1,000.....	269	267	210	197	239	257	237	303
Percent irrigated of total farms.....	Percent.....	20.2	25.6	24.7	26.4	29.2	9.4	10.2	12.2
Land in farms, total.....	Mil. acres.....	689	715	700	680	686	1,063	1,017	1,031
In irrigated farms.....	Mil. acres.....	168	213	218	211	(NA)	238	229	(NA)
Land irrigated, total.....	Mil. acres.....	25	31	35	37	44	39	41	51
Percent irrigated of total farms.....	Percent.....	3.6	4.3	5.0	5.4	6.4	3.7	4.0	4.9

NA Not available. ¹ Excludes Alaska and Hawaii.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1950, 1959, 1969, and 1974, Irrigation of Agricultural Lands*; and unpublished data.

NO. 1214. FEDERAL IRRIGATION PROJECTS: 1950 TO 1978

YEAR	ENTIRE AREA			FULL IRRIGATION SERVICE ¹			SUPPLEMENTAL AND TEMPORARY IRRIGATION SERVICE ²		
	Irrigable acreage (1,000)	Irrigated acreage (1,000)	Gross crop value (mil. dol.)	Irrigable acreage (1,000)	Irrigated acreage (1,000)	Gross crop value (mil. dol.)	Irrigable acreage (1,000)	Irrigated acreage (1,000)	Gross crop value (mil. dol.)
1950.....	6,025	5,077	578	3,305	2,716	311	2,720	2,361	267
1955.....	7,368	6,262	828	3,826	3,163	429	3,542	3,099	399
1960.....	8,171	6,900	1,158	4,326	3,488	581	3,845	3,412	577
1965.....	9,612	8,012	1,557	4,540	3,731	675	5,072	4,281	882
1970.....	10,198	8,570	1,882	4,844	4,037	847	5,354	4,533	1,035
1972.....	10,694	8,920	2,471	4,906	4,065	1,085	5,788	4,855	1,386
1973.....	10,884	9,202	3,902	4,906	4,160	1,593	5,978	5,042	2,309
1974.....	11,037	9,418	4,655	4,926	4,216	1,943	6,111	5,202	2,712
1975.....	10,930	9,309	4,419	4,925	4,213	1,858	6,005	5,096	2,561
1976.....	11,061	9,463	4,336	4,957	4,249	1,846	6,104	5,214	2,490
1977.....	11,234	9,132	4,395	4,974	4,206	1,771	6,260	4,926	2,624
1978.....	11,409	9,576	4,993	5,012	4,222	2,036	6,397	5,354	2,957

¹ Applies to irrigable land receiving its sole irrigation supply through Water and Power Resources Service-constructed facilities and to previously irrigated land in non-Federal projects where a substantial part of the facilities was constructed, rehabilitated, or replaced by the Service. ² Applies to irrigable land receiving irrigation water through Service projects in addition to supply from non-project sources and to land for which water is delivered under temporary arrangements.

Source: U.S. Water and Power Resources Service, *Water and Land Resource Accomplishments*, annual.

No. 1215. FARM REAL ESTATE—SUMMARY: 1960 TO 1980

[Through 1975, value data as of Mar. 1; beginning 1976, as of Feb. 1. Excludes Alaska and Hawaii. 1960-1974, value data based on 1969 census definition of farms and farmland; beginning 1975, based on 1974 census definition, see text, p. 683]

ITEM	UNIT	1960	1965	1970	1974	1975	1976	1977	1978	1979	1980
Total value.....	Bil. dol.	136.8	167.0	215.0	326.6	359.1	406.3	471.3	511.9	583.8	667.6
Land.....	Bil. dol.	104.5	132.6	175.5	269.8	297.2	336.8	390.7	424.8	485.5	556.8
Buildings.....	Bil. dol.	32.3	34.4	39.5	56.8	61.9	69.5	80.6	87.1	98.3	110.8
Avg. value per acre ¹	Dol.	117	147	196	302	339	385	448	488	559	640
Index.....	1967=100	68	86	117	187	213	242	283	309	351	401
Avg. value, operating unit.....	\$1,000.	34.6	49.9	73.0	117.0	144.4	165.8	195.9	216.4	250.7	289.6
Farm real estate sales ²	1,000.	(NA)	¹ 113.6	89.0	115.5	88.9	76.0	74.5	70.6	69.2	68.3
Acres sold.....	Mil.	(NA)	² 26.5	22.0	39.0	24.7	21.0	20.6	22.5	22.8	21.1
Value.....	Bil. dol.	(NA)	³ 5.3	5.4	13.2	10.6	11.0	13.4	12.9	14.1	16.5

NA Not available. ¹Land and buildings. ²Voluntary and estate sales of 10 acres or more. ³1966 data.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Real Estate Market Developments*, annual.

No. 1216. FARM REAL ESTATE—VALUE OF LAND AND BUILDINGS, BY STATES: 1970 TO 1980

[See headnote, table 1215, 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 (1967=100)			
	1970	1975	1979	1980	1970	1975	1979	1980	1970	1975	1979	1980
	U.S.....	215,042	359,130	583,757	667,570	\$196	\$339	\$559	\$640	117	213	351	401
Ala.....	2,960	5,023	6,798	8,371	200	364	515	639	121	233	328	407
Ariz.....	2,891	4,540	5,427	6,060	70	111	134	150	127	211	272	305
Ark.....	4,576	7,123	11,609	13,927	260	419	691	829	129	191	316	379
Calif.....	17,531	22,398	30,293	36,273	479	653	936	1,123	110	133	191	229
Colo.....	3,771	7,294	12,616	14,628	95	188	332	388	105	209	369	432
Conn.....	543	1,747	1,971	1,049	921	1,525	1,215	1,233	134	257	1365	1394
Del.....	357	646	1,070	1,251	499	971	1,726	2,016	116	242	430	503
Fla.....	5,254	9,658	12,834	15,139	355	685	930	1,097	121	228	303	358
Ga.....	4,072	7,110	9,561	10,912	234	474	609	682	138	298	386	432
Idaho.....	2,744	5,255	7,519	8,572	177	339	485	553	120	243	349	399
Ill.....	14,455	24,449	51,258	55,169	490	846	1,786	1,929	107	209	441	476
Ind.....	7,105	12,240	25,316	29,119	406	720	1,498	1,723	104	200	415	477
Iowa.....	13,485	24,518	49,572	58,004	392	719	1,458	1,706	114	234	475	556
Kans.....	7,934	14,415	21,063	24,004	159	296	437	498	107	211	310	353
Ky.....	4,124	6,277	11,405	12,570	253	427	792	879	116	203	374	415
La.....	3,788	5,376	7,859	10,037	321	512	763	984	116	191	286	369
Maine.....	308	1,549	1,795	1,859	161	134	1485	1,524	128	257	1365	1394
Md.....	1,971	3,026	5,037	6,252	640	1,060	1,799	2,249	138	248	420	525
Mass.....	424	1,644	1,888	1,959	565	1,961	1,366	1,475	126	257	1365	1394
Mich.....	4,140	6,960	10,123	11,434	326	553	955	1,089	113	164	319	364
Minn.....	6,983	12,999	25,876	30,542	226	429	854	1,008	118	244	483	570
Miss.....	4,046	5,874	7,644	9,121	234	379	520	629	125	204	279	338
Mo.....	7,437	12,830	21,770	26,357	224	396	674	816	124	214	364	440
Mont.....	3,852	6,989	11,532	13,516	60	112	186	218	124	237	394	461
Nebr.....	7,407	13,508	22,466	25,621	154	282	470	536	115	215	360	410
Nev.....	477	764	935	1,043	53	85	104	116	155	299	1272	1305
N.H.....	160	1,310	1,465	1,502	239	564	802	866	149	257	1365	1394
N.J.....	1,158	1,807	2,200	2,376	1,092	1,807	2,222	2,400	144	340	418	451
N. Mex.....	2,008	3,666	4,670	5,230	42	78	100	112	120	197	272	305
N.Y.....	3,058	5,457	6,420	6,674	273	510	642	681	123	275	347	368
N.C.....	5,062	7,375	10,074	10,886	333	590	819	885	113	216	299	323
N. Dak.....	3,939	8,130	12,757	14,675	94	195	306	352	120	265	413	475
Ohio.....	7,022	11,790	24,711	27,751	399	708	1,516	1,713	115	208	448	506
Okl.....	6,418	10,721	15,470	18,009	173	302	442	522	115	212	312	368
Oreg.....	3,015	4,712	6,154	5,952	150	250	330	320	137	228	302	293
Pa.....	3,805	7,046	11,205	12,330	373	734	1,245	1,370	145	315	537	591
R.I.....	56	194	134	145	734	1,500	1,133	1,204	132	257	1365	1394
S.C.....	216	3,176	3,783	4,089	261	467	582	629	124	273	341	369
S. Dak.....	3,822	6,590	11,681	13,271	84	145	257	292	112	214	380	432
Tenn.....	4,127	6,538	9,165	10,105	268	467	689	743	123	236	338	375
Tex.....	21,134	34,020	49,100	56,882	148	243	354	411	119	193	282	327
Utah.....	1,214	2,416	3,392	3,742	92	188	265	297	137	232	272	305
Vt.....	450	1,818	1,143	1,235	224	462	657	710	155	257	1365	1394
Va.....	3,260	5,747	8,381	9,137	286	558	864	942	121	250	386	421
Wash.....	3,718	5,635	9,435	9,902	224	350	586	615	124	178	297	312
W. Va.....	694	1,278	1,973	2,169	136	300	472	519	137	317	498	548
Wis.....	4,663	8,376	15,091	17,261	232	434	807	928	124	240	446	513
Wyo.....	1,456	2,816	4,177	4,458	41	80	119	127	116	218	322	345

¹Dollar value based on average rate of change for region. Index based on weighted average. ²Indexes based on percentage change in Georgia and Alabama. Dollar value based on the resulting index.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Real Estate Market Developments*, annual.

NO. 1217. BALANCE SHEET OF THE FARMING SECTOR: 1960 TO 1980

[In billions of dollars, except percent. As of January 1. See also *Historical Statistics, Colonial Times to 1970*, series K 204-219, for data before revisions]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980, prel.
Assets	210.28	243.8	314.9	351.8	394.8	478.5	506.2	569.8	644.3	697.6	804.2	921.4
Annual percent increase ¹	4.5	3.0	5.8	5.7	12.2	21.2	5.8	12.6	13.1	8.3	16.1	14.6
Physical assets:												
Real estate.....	137.2	167.5	215.8	239.6	267.3	327.7	360.4	407.7	473.0	513.7	586.1	670.4
Non-real estate:												
Livestock ²	15.3	14.5	23.5	27.3	34.1	42.4	24.5	29.5	29.0	31.9	51.3	61.2
Machinery, motor vehicles.....	22.7	24.8	32.3	36.6	39.3	44.2	55.7	65.0	71.9	77.1	84.0	96.5
Crops stored ³	7.7	9.2	10.9	11.8	14.5	22.1	23.3	21.3	22.0	24.9	28.4	34.3
Household furnishings, equipment.....	9.2	8.4	9.6	10.8	11.9	12.3	12.6	13.0	13.8	15.6	18.0	20.5
Financial assets:												
Deposits and currency.....	9.2	9.6	11.9	13.2	14.0	14.9	14.0	15.6	16.0	15.2	15.5	15.9
United States savings bonds.....	4.7	4.2	3.7	3.7	4.0	4.1	3.8	4.4	4.4	3.9	4.2	4.0
Investments in cooperatives.....	4.2	5.6	7.2	8.8	9.7	10.8	11.9	13.3	14.2	15.3	16.7	18.6
Claims	210.2	243.8	314.9	351.8	394.8	478.5	506.2	569.8	644.3	697.6	804.2	921.4
Liabilities	24.8	36.8	53.0	59.1	65.3	74.1	81.8	90.8	102.7	119.3	136.1	157.3
Real estate debt.....	12.0	18.9	29.2	32.2	35.7	41.3	46.3	51.1	56.6	63.7	70.8	82.1
Non-real estate debt to—												
Commodity Credit Corp. ⁴	1.2	1.6	2.7	2.3	1.8	.7	.3	.3	1.0	4.5	5.3	4.5
Other reporting agencies ⁵	6.6	10.0	15.8	19.6	22.0	26.2	29.2	33.1	37.8	42.6	49.6	59.0
Nonreporting creditors ⁶	4.9	6.3	5.3	5.0	5.8	5.9	6.0	6.3	7.3	8.4	10.4	11.7
Proprietors' equities.....	185.4	207.0	261.9	292.7	327.5	404.4	424.4	479.0	541.6	578.3	668.1	764.1

¹ Average change from prior year shown; for 1960, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation. ² Beginning 1965, excludes horses and mules. ³ Includes all crops held on farms and crops held off farms by farmers as security for CCC loans. The latter totaled \$1,021 million on Jan. 1, 1980. ⁴ Nonrecourse CCC loans secured by crops owned by farmers are included as assets in this balance sheet. ⁵ Loans of all operating banks, production credit associations, and Farmers Home Administration, and discounts of Federal intermediate credit banks for agricultural credit corporations and livestock loan companies. ⁶ Loans and credits extended by dealers, merchants, finance companies, individuals, and others. Estimates based on fragmentary data.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperative Service, *Balance Sheet of the Farming Sector*, annual through 1979; beginning 1980, *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979*, August 1980.

NO. 1218. GROSS FARM PRODUCT—SUMMARY: 1960 TO 1979

[In billions of dollars. For definition of gross product and current and constant dollars, see text, pp. 435-437. Minus sign (—) denotes decrease. See *Historical Statistics, Colonial Times to 1970*, series K 220-239, for single-year figures prior to minor revisions issued in 1976]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
CURRENT DOLLARS											
Total value of farm output¹	38.2	44.1	54.9	67.0	96.3	97.8	99.5	101.1	106.7	122.9	144.6
Farm marketings cash receipts ²	34.4	39.4	50.4	64.4	87.2	92.7	88.1	94.5	95.5	111.1	131.2
Farm products consumed ³	1.2	.8	.8	.8	1.1	1.3	1.3	1.3	1.3	1.4	1.7
Change in farm inventories.....	.3	1.0	.1	.6	3.2	-1.8	3.5	-2.0	1.2	1.1	1.7
Gross rental value of farm homes.....	2.1	2.5	3.0	3.5	3.9	4.7	5.4	6.0	7.2	7.7	(4)
Less: Intermediate products consumed.....	17.7	21.8	28.5	34.5	45.5	49.0	49.6	54.2	57.0	62.8	73.7
Plus: Other items.....	-.2	-.3	-.5	-.5	-.8	-.9	-.7	-.5	-.5	-.7	-.8
Equals: Gross farm product	20.2	22.0	25.9	32.0	50.1	48.0	49.2	46.4	49.2	59.5	70.2
Less: Capital consumption allowances ⁵	4.1	4.8	6.4	7.4	8.4	9.9	11.9	13.0	14.3	15.7	17.0
Indirect business taxes.....	1.3	1.5	2.0	2.1	2.1	2.3	2.5	2.7	3.0	3.2	3.2
Plus: Govt. payments to farm landlords.....	.5	2.1	3.3	3.5	2.3	.5	.7	.6	1.6	2.7	1.6
Equals: Income	15.5	17.9	20.8	26.0	41.8	36.2	35.6	31.3	33.5	43.3	51.6
CONSTANT (1972) DOLLARS											
Total value of farm output¹	52.2	57.1	63.0	67.0	68.5	65.4	65.9	66.6	70.1	71.0	72.4
Farm marketings cash receipts ²	45.7	50.4	57.5	61.4	61.3	60.6	59.7	63.5	65.4	66.0	66.9
Farm products consumed ³	1.7	1.1	.9	.8	.9	1.0	1.0	1.0	.9	.8	1.4
Change in farm inventories.....	.3	1.1	.4	.6	2.3	-.3	1.2	-1.9	-1.1	.3	.9
Gross rental value of farm homes.....	4.1	3.9	3.7	3.5	3.3	3.3	3.2	3.1	2.9	2.8	(4)
Less: Intermediate products consumed.....	22.3	26.7	31.3	34.5	35.8	32.6	31.7	33.9	35.4	36.5	37.2
Plus: Other items.....	-.3	-.4	-.6	-.5	-.4	-.6	-.5	-.4	-.4	-.4	-.4
Equals: Gross farm product	29.5	30.1	31.1	32.0	32.3	32.2	33.7	32.4	34.4	34.2	34.8

¹ Includes other farm income not shown separately. ² Includes CCC loans. ³ In households where raised. ⁴ Gross rental value of farm homes and other farm income included in farm products consumed. ⁵ With capital consumption adjustments.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, 1929-74*, *Survey of Current Business*, July issues, and unpublished data.

NO. 1219. PRODUCTION ASSETS USED IN AGRICULTURE: 1960 TO 1980

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979	1980, prel.
Total ¹	Bil. dol.	162.8	193.1	256.3	286.7	322.6	394.5	392.4	444.7	510.3	553.1	627.1	717.8
Average—													
Per farm ²	\$1,000	39.7	57.6	86.9	100.2	114.3	141.1	157.5	181.2	211.8	233.4	268.8	310.9
Per farm worker	\$1,000	22.2	31.6	55.8	64.4	73.5	90.7	90.1	101.3	122.5	139.3	165.9	199.0

¹ Includes farm real estate less value of operators' dwellings; livestock; machinery; motor vehicles (25 percent of the value of automobiles and 74 percent of the value of trucks); one-half of the Jan. 1 inventory value of feed crops (excluding those under CCC loan), hay and forage stored on farms; and working capital needed to meet farm production expenses. ² 1960-1974 based on 1969 census farm definition; beginning 1975, based on 1974 census farm definition. See text, p. 683.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Balance Sheet of the Farming Sector*, annual through 1979; beginning 1980, *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979*, August 1980.

NO. 1220. FARM DEBT OUTSTANDING, BY TYPE OF LENDER: 1960 TO 1980

[In billions of dollars, except percent. As of Jan. 1. See also *Historical Statistics, Colonial Times to 1970*, series K 361-367 and K 376-380]

LENDER	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979	1980 ¹
Farm debt, total	24.8	36.8	53.0	65.3	74.1	81.8	90.8	102.6	119.3	136.1	157.3
Annual percent change ²	7.1	8.2	7.6	7.2	13.5	10.4	11.0	13.0	16.2	14.1	15.6
Farm debt/asset ratio (percent)	11.8	15.1	16.8	16.5	15.5	16.2	16.0	16.0	17.1	16.9	17.1
Real estate debt	12.1	18.9	29.2	35.8	41.3	46.3	51.1	56.6	63.3	70.8	82.1
Federal land banks	2.3	3.7	6.7	9.1	10.9	13.4	16.0	18.5	21.4	24.6	29.6
Life insurance companies	2.6	4.3	5.7	5.6	6.0	6.3	6.7	7.4	8.8	10.5	12.2
Commercial and savings banks	1.5	2.4	3.5	4.8	5.5	6.0	6.3	6.8	7.8	8.6	8.6
Farmers Home Administration ³	.7	1.3	2.3	2.8	3.0	3.2	3.4	3.7	4.0	4.1	6.6
Individuals and others ⁴	4.8	7.2	11.0	13.4	15.9	17.4	18.7	20.3	21.7	23.1	25.1
Non-real estate debt	12.7	17.9	23.8	29.6	32.9	35.5	39.8	46.1	55.6	65.2	75.2
Commercial and savings banks	4.9	7.0	10.3	14.3	17.2	18.2	20.2	23.3	25.7	28.3	31.0
Production credit associations ⁵	1.4	2.4	4.7	6.9	8.2	9.9	11.1	12.6	13.8	15.5	19.0
Farmers Home Administration	.4	.6	.8	.8	.9	1.0	1.8	1.9	3.1	3.1	9.0
Individuals and others ⁶	4.9	6.3	5.3	5.8	5.9	6.1	6.4	7.3	8.4	10.4	11.7
Commodity Credit Corporation	1.2	1.5	2.7	1.8	.8	.3	.4	1.0	4.5	5.2	4.5

¹ Preliminary. ² Annual change from prior year shown; for 1960, change from 1955. For explanation of average annual percent change, see Guide to Tabular Presentation. ³ Includes direct and insured farm ownership, farm housing, soil and water and recreation loans secured by farm real estate. ⁴ Includes seller and other individual financing of farm real estate and unclassified credit sources. 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, Economics, Statistics, and Cooperatives Service, *Balance Sheet of the Farming Sector*, annual through 1979; beginning 1980, *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979*, August 1980.

NO. 1221. CASH SOURCES AND USES OF FUNDS FOR THE FARM SECTOR: 1965 TO 1979

[In billions of dollars. Excludes funds from sale of real estate to nonfarm sector. Gross farm operating expenses have been deducted from gross farm income]

SOURCE AND USE	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, prel.
Total funds	33.0	39.9	53.6	74.9	73.1	69.0	74.5	76.5	88.9	97.1
Sources:										
Net cash farm and nonfarm income	28.9	37.6	46.9	65.0	65.0	60.0	63.3	63.4	71.4	76.8
Net flow of real estate loans	2.3	1.1	3.5	5.6	5.0	4.8	5.5	7.1	8.6	10.8
Net flow of other loans ¹	1.8	1.2	3.2	4.3	3.1	4.2	5.7	6.0	8.9	9.5
Uses:										
Personal consumption ²	21.7	26.6	33.5	50.0	49.9	44.9	46.2	46.8	54.0	59.5
Purchased capital	11.3	13.3	20.1	24.9	23.2	24.1	28.3	29.7	34.9	37.6
Purchases of real estate ³	4.3	4.5	9.0	11.7	9.5	9.7	11.9	11.5	12.5	12.8
Purchases of machinery and motor vehicles	4.1	4.9	5.7	7.6	8.2	8.7	10.0	10.5	12.0	12.3
Capital improvement to real estate assets	1.9	2.4	2.4	3.1	4.4	4.7	5.0	5.7	6.2	6.5
Other capital purchases ⁴	1.0	1.5	3.0	2.5	1.1	1.0	1.4	2.0	4.2	5.8

¹ Excludes CCC loans. ² Includes other cash uses. ³ Covers purchases from discontinuing proprietors. ⁴ Includes net additions to household furnishings, commercial bank deposits and currency, and purchases of breeding livestock.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Finance Outlook*, annual.

NO. 1222. FARM INCOME AND EXPENSES: 1960 TO 1979

[In millions of dollars, except as indicated. Minus sign (-) denotes decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 192, K 259-260, K 264-285, and K 326]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Gross income from farming	38,894	46,549	58,575	98,911	98,340	100,338	101,812	108,122	126,872	149,577
Markets, cash receipts.....	34,248	39,365	50,539	87,068	92,449	88,209	94,780	95,762	112,520	131,459
Crops.....	15,259	17,479	20,976	41,132	51,090	45,150	48,668	48,338	53,482	62,820
Livestock.....	18,989	21,886	29,563	45,936	41,359	43,059	46,112	47,425	59,038	68,639
Government payments.....	702	2,463	3,717	2,607	531	807	734	1,819	3,030	1,375
Value of home consumption.....	1,205	811	751	1,104	1,295	1,269	1,334	1,301	1,378	1,447
Rental value of dwellings.....	2,098	2,481	3,019	3,913	4,667	5,420	5,973	7,074	7,845	9,104
Other farm income.....	244	387	543	813	989	1,233	1,357	1,561	1,702	2,124
Value of change in inventories.....	397	1,042	6	3,406	-1,611	3,400	-2,366	605	397	4,068
Expenses of farm production	27,376	33,650	44,424	65,562	72,210	75,863	83,130	90,293	100,791	118,618
Operating expenses ¹	16,696	20,100	26,823	40,325	44,371	45,566	50,601	54,775	61,918	74,586
Feed purchased.....	4,552	5,674	8,028	13,224	14,513	12,647	14,370	14,054	14,329	17,004
Livestock purchased.....	2,506	2,912	4,324	8,065	5,131	4,950	5,871	7,033	10,113	12,684
Seed purchased ²	519	720	927	1,617	2,082	2,293	2,537	2,904	3,054	3,400
Fertilizer and lime.....	1,344	1,994	2,390	3,354	5,808	6,383	6,141	6,142	6,193	6,692
Repairs and maintenance ³	3,982	3,943	4,539	5,229	6,659	7,806	9,096	10,121	11,267	13,665
Miscellaneous ⁴	3,793	4,857	6,615	8,836	10,178	11,487	12,586	14,521	16,961	21,140
Depreciation ⁵	4,377	5,111	6,760	6,945	10,563	12,586	13,813	15,342	16,795	18,954
Taxes on farm property.....	1,529	1,874	2,596	2,888	3,096	3,333	3,607	3,940	4,019	4,259
Interest, farm mortgage debt.....	628	1,075	1,764	2,495	3,044	3,421	3,852	4,365	5,120	6,260
Wages paid hired farm labor.....	3,062	3,604	4,349	5,232	6,036	6,357	7,037	7,813	8,067	9,239
Net rent to nonoperator landlords.....	1,124	1,886	2,132	5,679	5,100	4,600	4,220	4,058	4,852	5,320
Net income of farm operators from farming	11,518	12,899	14,151	33,349	26,130	24,475	18,682	17,829	26,081	30,959
In constant (1967) dollars.....	12,985	13,650	12,168	25,056	17,691	15,183	10,957	9,823	13,347	14,234
Avg. income per farm ⁶ (dol.).....	2,907	3,843	4,799	11,813	9,349	8,845	6,824	7,401	11,005	13,270

¹ Excluding hired labor. ² Includes bulbs, plants, and trees. ³ Includes expenditures for repairs and maintenance of farm buildings, petroleum fuel and oil, other motor-vehicle operations, and repairs on other machinery. ⁴ Includes interest on non-real estate debt, pesticides, ginning, electricity and telephones (business share), livestock marketing changes, containers, milk hauling, irrigation, grazing, binding materials, tolls for sirup, horses and mules, harness and saddlery, miscellaneous hardware (incl. blacksmithing), veterinary services and medicines, net insurance premiums (crop, fire, wind, and hail), machine hire and custom work, miscellaneous livestock and poultry, small hand tools, dairy supplies, nursery and greenhouse, apiary, and other miscellaneous. ⁵ Includes other consumption of farm capital. ⁶ 1960-1976 based on 1969 census farm definition; beginning 1977 based on 1974 census definition. See text, p. 683.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Income Statistics*, annual through 1979, and *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979*, October 1980.

NO. 1223. PERSONAL INCOME OF THE FARM POPULATION: 1965 TO 1979

[In millions of dollars, except as indicated. See *Historical Statistics, Colonial Times to 1970*, series K 256-258 and K 261-263, for data prior to revisions]

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979
Net income of farm operators ¹	12,899	14,151	33,349	26,130	24,475	18,682	17,829	26,081	30,959
Less: Net income of nonresident operators.....	1,961	2,179	5,002	3,867	3,671	2,896	2,853	4,303	5,108
Plus: Wages, salaries, and other labor income of workers ²	1,261	1,422	1,537	1,776	1,760	1,703	2,274	2,858	3,855
Less: Contributions of operators and workers to social insurance ²	231	389	654	686	676	706	772	866	975
Equals: Personal income of farm population from farm sources	11,968	13,005	29,230	23,353	21,888	16,783	16,478	23,770	28,731
Plus: Personal income of farm population from nonfarm sources.....	10,627	14,473	19,690	21,798	22,660	23,500	20,986	24,772	26,595
Equals: Personal income of farm population	22,595	27,478	48,920	45,151	44,548	40,283	37,464	48,542	55,326
Per capita personal income:									
From all sources (dol.).....	1,828	2,829	5,165	4,874	5,026	4,881	6,048	7,467	8,865
From farm sources (dol.).....	968	1,339	3,086	2,521	2,469	3,034	2,660	3,656	4,604
From nonfarm sources (dol.).....	860	1,490	2,079	2,353	2,556	2,847	3,388	3,810	4,261
Per capita disposable personal income:									
Of farm population (dol.).....	1,692	2,520	4,700	4,355	4,520	4,316	5,262	6,422	7,535
Of nonfarm population (dol.).....	2,480	3,389	4,266	4,660	5,113	5,553	6,040	6,676	7,358
Percent farm of nonfarm.....	68.2	74.1	110.2	93.5	88.4	77.7	87.1	96.2	102.4

¹ Income from farming; includes government payments. ² Farm residents only.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979*, October 1980.

NO. 1224. FARMS, FARM INCOME, AND EXPENSES, BY VALUE OF SALES: 1975 TO 1979

[See table 1222 for components of income and expenses]

FARMS WITH VALUE OF SALES OF—	Number of farms ¹ (1,000)	Gross income ² (bil. dol.)	Cash receipts ³ (bil. dol.)	Production expenses (bil. dol.)	Net income ² (bil. dol.)	PERCENT DISTRIBUTION				
						Number of farms ¹	Gross income ²	Cash receipts ³	Production expenses	Net income ²
1975: Less than \$2,500.....	1,005	3.3	1.1	2.0	1.3	36.3	3.4	1.2	2.6	6.4
\$2,500-\$4,999.....	329	2.1	1.4	1.6	.5	11.9	2.2	1.6	2.2	2.3
\$5,000-\$9,999.....	323	3.5	2.8	2.6	.9	11.7	3.6	3.1	3.5	4.2
\$10,000-\$19,999.....	328	6.3	5.6	4.6	1.7	11.9	6.5	6.2	6.1	8.1
\$20,000-\$39,999.....	324	11.7	10.9	8.4	3.3	11.7	12.1	12.1	11.0	15.7
\$40,000-\$99,999.....	316	23.7	22.8	17.4	1.3	11.4	24.5	25.2	23.0	29.7
\$100,000-\$199,999.....	94	15.0	14.7	11.5	3.5	3.4	15.5	16.3	15.2	16.8
\$200,000 or more.....	48	31.3	31.0	27.7	3.6	1.7	32.2	34.3	36.5	16.8
1977: Less than \$2,500.....	666	3.0	1.0	2.1	.9	27.6	2.8	1.0	2.3	5.6
\$2,500-\$4,999.....	307	2.3	1.4	1.9	.4	12.7	2.1	1.4	2.1	2.5
\$5,000-\$9,999.....	305	3.7	2.7	2.9	.6	12.7	3.4	2.7	3.2	4.4
\$10,000-\$19,999.....	313	6.4	5.5	5.0	1.4	13.0	6.0	5.5	5.5	8.4
\$20,000-\$39,999.....	320	12.2	11.1	9.2	3.0	13.3	11.3	11.2	10.2	17.3
\$40,000-\$99,999.....	341	26.4	25.0	20.6	5.8	14.2	24.6	25.2	22.9	33.6
\$100,000-\$199,999.....	104	17.0	16.4	13.8	3.1	4.3	15.8	16.5	15.3	16.0
\$200,000 or more.....	53	36.5	36.1	34.8	1.8	2.2	34.0	36.5	38.5	10.2
1978: Less than \$2,500.....	609	3.0	1.0	1.9	1.1	25.7	2.4	.8	1.9	4.1
\$2,500-\$4,999.....	275	2.2	1.3	1.7	.5	11.6	1.7	1.1	1.6	2.0
\$5,000-\$9,999.....	281	3.5	2.6	2.6	.9	11.9	2.8	2.2	2.6	3.6
\$10,000-\$19,999.....	294	6.2	5.2	4.5	1.7	12.4	4.9	4.4	4.5	6.7
\$20,000-\$39,999.....	323	12.6	11.4	8.9	3.7	13.6	10.0	9.7	8.8	14.5
\$40,000-\$99,999.....	398	31.4	29.6	23.0	8.4	16.8	24.8	25.2	22.8	32.7
\$100,000-\$199,999.....	126	20.8	20.0	16.0	4.8	5.3	16.4	17.1	15.9	18.6
\$200,000 or more.....	64	46.8	46.2	42.2	4.6	2.7	37.0	39.5	41.9	17.8
1979: Less than \$2,500.....	555	2.9	.8	1.9	1.0	23.8	2.0	.6	1.6	3.8
\$2,500-\$4,999.....	242	2.0	1.1	1.6	.4	10.4	1.4	.8	1.3	1.6
\$5,000-\$9,999.....	250	3.2	2.2	2.4	.8	10.7	2.2	1.6	2.1	2.8
\$10,000-\$19,999.....	274	5.8	4.8	4.3	1.5	11.7	4.0	3.5	3.6	5.5
\$20,000-\$39,999.....	327	12.6	11.2	9.2	3.4	14.0	8.7	8.3	7.8	12.7
\$40,000-\$99,999.....	459	35.8	33.4	26.9	9.0	19.7	24.6	24.8	22.6	33.4
\$100,000-\$199,999.....	150	24.6	23.6	19.2	5.4	6.4	16.9	17.5	16.2	20.0
\$200,000 or more.....	76	58.5	57.9	53.1	5.4	3.3	40.2	42.9	44.8	20.2

¹ 1975 based on 1969 census definition; beginning 1977 based on 1974 census definition. See text, pp. 683 and 684.
² Data are before inventory adjustment. ³ Includes government payments and other farm income.

NO. 1225. GOVERNMENT PAYMENTS TO FARMS BY PROGRAM, AND BY VALUE OF FARM SALES: 1960 TO 1979

[See also *Historical Statistics, Colonial Times to 1970*, series K 326-329]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Total¹	Mil. dol.....	702	2,463	3,717	2,607	531	807	734	1,819	3,030	1,375
Feed grain.....	Mil. dol.....	-	1,391	1,504	1,142	101	279	196	187	1,172	494
Wheat.....	Mil. dol.....	-	525	871	474	70	77	135	887	963	114
Cotton.....	Mil. dol.....	-	70	919	718	42	138	108	89	127	185
Conservation.....	Mil. dol.....	223	224	208	72	192	181	195	197	194	179
Soil Bank.....	Mil. dol.....	370	160	2	-	-	-	-	-	-	-
Sugar Act.....	Mil. dol.....	59	75	88	82	78	61	-	65	-	-
Wool.....	Mil. dol.....	51	18	49	65	(z)	-	-	-	-	-
Payments to farms with sales of:											
Less than \$2,500.....	Mil. dol.....	100	288	276	150	34	37	25	54	78	30
\$2,500-\$4,999.....	Mil. dol.....	81	208	257	130	35	44	32	76	106	40
\$5,000-\$9,999.....	Mil. dol.....	144	396	408	190	42	60	48	119	167	63
\$10,000-\$19,999.....	Mil. dol.....	159	627	684	326	65	94	75	184	267	105
\$20,000-\$39,999.....	Mil. dol.....	111	487	842	464	93	175	168	416	646	275
\$40,000-\$99,999.....	Mil. dol.....	77	310	722	664	128	233	245	815	1,109	534
\$100,000 to \$199,999.....	Mil. dol.....	30	147	269	323	56	89	92	228	423	212
\$200,000 and over.....	Mil. dol.....	177	734	1,280	924	190	292	268	755	1,278	589
Avg. payment per farm²	Dol.....										
Farms with sales of—											
Less than \$2,500.....	Dol.....	54	194	235	145	34	37	26	81	128	54
\$2,500-\$4,999.....	Dol.....	131	451	608	381	107	134	102	248	385	185
\$5,000-\$9,999.....	Dol.....	218	780	1,015	569	130	186	154	390	594	252
\$10,000-\$19,999.....	Dol.....	320	1,351	1,754	964	198	284	235	588	908	383
\$20,000-\$39,999.....	Dol.....	489	1,739	2,583	1,410	284	537	520	1,300	2,000	841
\$40,000-\$99,999.....	Dol.....	856	2,480	4,056	2,135	387	737	725	1,804	2,786	1,163
\$100,000 to \$199,999.....	Dol.....	177	734	1,280	924	190	292	268	755	1,278	589
\$200,000 and over.....	Dol.....	1,304	4,083	14,389	7,826	1,560	1,562	942	2,396	3,656	1,413

- Represents zero. Z Less than \$500,000. ¹ Data by type of program include cropland adjustment beginning 1970, and miscellaneous programs beginning 1973, not shown separately. ² 1960-1976 based on 1969 census definition; beginning 1977 based on 1974 census definition.

Source of tables 1224 and 1225: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Income Statistics*, annual through 1979, and *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979*, October 1980.

NO. 1226. INCOME PER FARM, BY VALUE OF SALES: 1975 TO 1979

[In thousands of dollars. Net income data are before inventory adjustment. See also footnote 1, table 1224]

VALUE OF SALES	1975			1977			1978			1979		
	Total	Off-farm	Net	Total	Off-farm	Net	Total	Off-farm	Net	Total	Off-farm	Net
Total, all farms.....	17.5	9.9	7.6	17.7	10.5	7.2	23.0	12.2	10.8	26.2	14.7	11.5
Less than \$2,500.....	14.2	12.9	1.3	15.2	13.8	1.4	18.2	16.4	1.8	22.3	20.5	1.8
\$2,500-\$4,999.....	13.7	12.2	1.5	15.1	13.7	1.4	18.2	16.3	1.9	22.0	20.3	1.7
\$5,000-\$9,999.....	12.9	10.2	2.7	14.1	11.6	2.5	16.9	13.7	3.2	20.0	17.0	3.0
\$10,000 to \$19,999.....	13.1	7.9	5.2	13.6	9.0	4.6	16.4	10.6	5.8	18.6	13.2	5.4
\$20,000 to \$39,999.....	16.1	5.8	10.3	16.0	6.7	9.3	19.4	7.9	11.5	20.3	9.8	10.5
\$40,000 to \$99,999.....	24.8	5.0	19.8	22.9	5.9	17.0	28.0	6.9	21.1	28.2	8.7	19.5
\$100,000 or more.....	57.9	8.1	49.8	40.3	9.4	30.9	59.9	10.8	49.1	61.2	13.4	47.8

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Income Statistics*, annual through 1979, and *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979* October, 1980.

NO. 1227. INDEXES OF PRICES RECEIVED AND PAID BY FARMERS: 1960 TO 1979

[1967 = 100, except as noted. See also *Historical Statistics, Colonial Times to 1978*, series K 344-353]

ITEM	1960	1965	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979 ¹
Prices received, all products.....	95	98	110	113	125	179	192	185	186	183	210	241
Crops.....	99	103	100	108	114	175	224	201	197	192	203	223
Livestock and products.....	92	94	118	118	136	183	165	172	177	175	217	257
Prices paid, total.....	88	94	112	118	125	144	164	180	192	202	219	250
Living, CPI ²	90	95	116	121	125	133	148	161	171	182	194	215
Production.....	92	96	108	113	121	146	166	182	193	200	217	248
Interest payable per acre.....	45	79	134	142	156	184	223	262	299	339	400	501
Taxes payable per acre.....	69	87	129	136	142	145	154	166	176	195	210	226
Wage rates ³	74	86	128	134	142	155	178	192	210	226	242	265
Parity ratio (1910-14 = 100) ⁴	80	76	72	69	74	91	86	76	71	66	70	71

¹ Preliminary. ² U.S. Bureau of Labor Statistics Consumer Price Index, see text, pp. 475 and 476. ³ Straight average of seasonally adjusted quarterly indexes. ⁴ Ratio of prices received by farmers to prices paid, including interest, taxes, and wage rates.

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

NO. 1228. COMMODITY CREDIT CORPORATION—SUMMARY: 1960 TO 1979

[In millions of dollars. Through 1976, as of or for years ending June 30; beginning 1977, as of or for years ending Sept. 30. The Commodity Credit Corporation (CCC) is a wholly government-owned corporation established by Congress in 1933. 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	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Loans made.....	1,507	2,144	2,388	2,801	1,580	1,256	852	1,131	3,621	6,385	4,576
Loans outstanding ¹	1,347	2,534	2,952	2,474	1,418	720	335	637	3,245	5,030	5,210
Wheat.....	163	136	576	436	77	10	4	24	1,814	1,318	816
Corn.....	646	616	632	856	451	115	39	61	239	1,280	1,301
Cotton.....	9	775	170	23	26	34	143	24	13	153	80
Tobacco.....	417	826	845	672	481	250	119	353	652	751	903
Storage facilities, equipment ²	45	40	164	197	274	271	199	157	236	799	1,324
Cost of acquisitions ^{1,3,4}	4,020	2,005	1,518	947	576	402	835	657	997	911	1,007
Wheat.....	371	169	217	81	56	130	4	14	72	135	40
Corn.....	361	140	49	89	43	6	2	5	2	31	195
Cotton.....	2,507	952	304	2	(z)	(z)	(z)	(z)	(z)	(z)	(z)
Dairy products.....	223	325	253	365	160	55	480	115	721	445	247
Wheat flour and products.....	79	124	109	106	140	177	123	80	89	112	149
Vegetable oil products.....	-	16	28	90	58	67	44	(z)	24	50	117
Commodities owned ^{1,3}	6,021	3,892	1,858	1,080	479	114	416	659	985	1,029	1,162
Wheat.....	2,452	1,297	405	488	194	26	2	(z)	23	119	118
Corn.....	1,700	595	293	172	99	11	(z)	1	(z)	27	209
Cotton.....	880	1,123	225	5	1	-	(z)	-	(z)	(z)	(z)
Dairy products.....	107	137	134	131	65	25	290	259	703	751	570
Sorghum.....	731	648	173	45	14	2	(z)	(z)	(z)	28	92
Sales and donations, cost ³	3,234	2,458	902	1,065	1,190	766	530	457	640	895	901
Other expenses ³	529	393	289	189	131	34	34	35	49	62	100

- Represents zero. Z Less than \$500,000. ¹ Includes amounts for commodities not shown separately. ² Loans for purchase, construction, erection or installation of storage and drying equipment. ³ Data comparable for 1960-1970; price support commodities only. Thereafter, includes Commodity Export and Special Activities programs. ⁴ Value of commodities purchased and acquired as collateral from loans.

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

NO. 1229. FARM INCOME—CASH RECEIPTS FROM FARM MARKETINGS: 1965 TO 1979

[See headnote, table 1230. See also *Historical Statistics, Colonial Times to 1970*, series K 286-302]

ITEM	TOTAL MARKET SALES (mil. dol.)							PERCENT				
	1965	1970	1975	1976	1977	1978	1979	1965	1970	1975	1978	1979
Farm marketings	39,365	50,539	88,209	94,780	95,654	112,520	131,459	100.0	100.0	100.0	100.0	100.0
All crops.....	17,479	20,976	45,150	48,668	48,222	53,482	62,820	44.4	41.5	51.2	47.5	47.8
Percent of total.....	44.4	41.5	51.2	51.3	50.4	47.5	47.8	(x)	(x)	(x)	(x)	(x)
Cotton lint, seed.....	2,330	1,254	2,311	3,477	3,470	3,467	4,004	5.9	2.5	2.6	3.1	3.0
Tobacco.....	1,186	1,388	2,155	2,310	2,331	2,606	2,271	3.0	2.7	2.4	2.3	1.7
Food grains.....	2,042	2,542	7,760	6,896	6,041	5,891	8,618	5.2	5.0	8.8	5.2	6.6
Oilbearing crops.....	2,173	3,590	7,273	9,406	9,537	13,238	14,585	5.5	7.1	8.2	11.8	11.1
Feed crops.....	3,893	5,109	12,150	13,075	11,885	11,278	14,411	9.4	10.1	13.8	10.0	11.0
Vegetables ¹	2,618	2,814	5,350	5,242	5,659	6,031	6,526	6.7	5.6	6.1	5.4	5.0
Fruits, tree nuts ¹	1,650	2,070	3,525	3,648	4,341	5,532	6,440	4.2	4.1	4.0	4.9	4.9
Other ²	1,787	2,209	4,826	4,616	4,958	5,436	5,965	4.5	4.4	5.2	4.8	4.5
All livestock and products.....	21,886	29,563	43,059	46,112	47,432	59,038	68,639	55.6	58.5	48.8	52.5	52.2
Percent of total.....	55.6	58.5	48.8	48.7	49.6	52.5	52.2	(x)	(x)	(x)	(x)	(x)
Hogs.....	3,607	4,508	7,883	7,261	7,230	8,823	8,853	9.2	8.9	8.9	7.8	6.7
Cattle and calves.....	8,942	13,633	17,524	19,302	20,222	28,205	34,849	22.7	27.0	19.9	25.1	26.5
Sheep and lambs.....	329	334	385	392	391	463	484	.8	.7	.4	.4	.4
Wool.....	95	57	54	73	77	76	89	.2	1.1	1.1	1.1	1.1
Dairy products.....	5,038	6,525	9,922	11,428	11,752	12,690	14,750	12.8	12.9	11.2	11.3	11.2
Eggs.....	1,785	2,110	2,814	3,196	2,918	2,953	3,314	4.5	4.2	3.2	2.6	2.5
Broilers and farm chickens.....	1,304	1,564	3,063	3,068	3,239	3,851	4,181	3.3	3.1	3.5	3.4	3.2
Turkeys, other poultry ³	494	576	934	969	1,069	1,325	1,401	1.3	1.1	1.1	1.2	1.1
Other ⁴	292	256	480	493	534	651	718	.7	.5	.5	.6	.5

X Not applicable. ¹Melons included with vegetables. ²Sugar crops, greenhouse and nursery products, forest products, legume and grass seeds, hops, mint, broom-corn, popcorn, hemp fiber and seed, and flax fiber. ³Ducks, geese, guineas, pigeons, quail, pheasants, and turkey hatching eggs. ⁴Mohair, honey, beeswax, bees, goats, rabbits, and fur animals.

Source: U.S. Dept. of Agriculture, Economics, Statistics and Cooperatives Service, *Farm Income Statistics*, annual through 1979, and *Economic Indicators of the Farm Sector: Income and Asset Statistics*, 1979, October 1980.

NO. 1230. FARM MARKETINGS, BY PRICE SUPPORT STATUS: 1965 TO 1979

[Farm marketing represent gross receipts from commercial market sales as well as net Commodity Credit Corporation loans. See text, p. 685 for explanation of price support and table 122b. See also *Historical Statistics, Colonial Times to 1970*, series K 303-325]

CROP AND STATUS	TOTAL MARKET SALES (mil. dol.)							PERCENT				
	1965	1970	1975	1976	1977	1978	1979	1965	1970	1975	1978	1979
Total	39,365	50,539	88,209	94,780	95,654	112,520	131,459	100.0	100.0	100.0	100.0	100.0
Under price support	16,677	20,567	42,321	46,640	45,033	48,860	59,296	42.4	40.9	48.0	43.4	44.3
Mandatory support.....	14,382	17,072	35,082	37,303	35,591	36,282	44,127	36.5	33.8	39.9	32.3	33.5
Basic commodities.....	7,717	8,625	21,131	22,418	20,834	20,435	25,835	19.6	17.1	24.0	18.2	19.6
Cotton (lint).....	2,065	1,037	2,006	3,095	3,112	3,026	3,548	5.2	2.1	2.3	2.7	2.7
Wheat.....	1,637	2,067	6,695	5,838	5,062	4,738	7,340	4.2	4.1	7.6	4.2	5.6
Corn.....	2,180	3,326	8,500	9,416	8,598	8,100	10,604	5.5	6.6	9.6	7.2	8.1
Tobacco.....	1,186	1,388	2,155	2,310	2,331	2,606	2,271	3.0	2.7	2.4	2.3	1.7
Rice.....	377	447	1,031	1,030	951	1,113	1,239	1.0	.9	1.2	1.0	.9
Peanuts.....	272	360	744	729	780	852	833	.7	.7	.8	.8	.6
Nonbasic ¹	6,665	8,447	13,951	14,885	14,757	15,647	18,292	16.9	16.7	15.8	14.1	13.9
Dairy products.....	5,038	6,525	9,923	11,428	11,752	12,690	14,750	12.8	12.9	11.3	11.3	11.2
Oats.....	195	230	342	338	313	282	276	.5	.4	.4	.3	.2
Barley.....	305	298	618	652	543	595	652	.8	.6	.7	.5	.5
Sorghum grain.....	496	641	1,298	1,161	1,003	928	1,210	1.3	1.3	1.5	.8	.9
Sugar beets.....	250	393	821	617	518	624	597	.6	.8	.9	.6	.5
Other ²	381	360	949	689	628	728	807	1.0	.7	1.1	.6	.6
Nonmandatory ³	2,295	3,595	7,239	9,337	9,442	12,578	14,169	5.8	7.1	8.2	11.1	10.8
Soybeans.....	1,812	3,164	6,432	8,617	8,700	11,781	13,238	4.6	6.3	7.3	10.4	10.1
Cottonseed.....	265	217	305	381	358	440	457	.7	.4	.3	.4	.3
Flaxseed.....	87	66	97	60	57	58	73	.2	.1	.1	.1	.1
Dry beans.....	131	148	405	279	327	299	401	.3	.3	.5	.2	.3
Not under price support	22,688	29,972	45,888	48,140	50,621	63,660	73,163	57.6	59.1	52.0	56.6	55.7

¹Under legislation in effect in 1969. ²Includes wool, mohair, honey, tung nuts (1965-1970), rye, and sugarcane. ³Marketing not estimated for naval stores, and castor beans.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Income Statistics*, annual through 1979, and *Economic Indicators of the Farm Sector: Income and Asset Statistics*, 1979, October 1980.

NO. 1231. FARM INCOME—FARM MARKETINGS, 1975 TO 1979, AND PRINCIPAL COMMODITIES IN ORDER OF MARKETING RECEIPTS, 1979, BY STATES

[In millions of dollars. Cattle include calves; sheep include lambs; and greenhouse includes nursery. See table 1222]

STATE	1975	1977	1978	1979, <i>prel.</i>			State rank for total farm marketings and principal commodities in order of marketing receipts, 1979	
				Farm marketings				
				Total	Crops	Live-stock and products		
U.S.	88,209	95,654	112,520	131,459	62,820	66,639	1,375.2	Cattle, dairy products, soybeans, hogs.
N.E.	1,105	1,238	1,315	1,419	441	978	8.3	
Maine.....	366	418	411	442	139	303	5.5	39—Eggs, potatoes, broilers, dairy prod.
N.H.....	73	79	88	93	26	67	.6	48—Dairy prod., eggs, greenhouse, apples.
Vt.....	226	266	304	342	23	319	1.2	43—Dairy prod., forest prod., cattle, eggs.
Mass.....	201	224	247	256	138	118	.6	44—Dairy prod., greenhouse, cranberries, eggs.
R.I.....	27	27	30	32	19	13	—	49—Greenhouse, dairy prod., potatoes, eggs.
Conn.....	212	224	235	254	96	158	.4	45—Dairy prod., eggs, greenhouse, tobacco.
M.A.	3,490	3,961	4,453	5,171	1,718	3,453	15.8	
N.Y.....	1,563	1,718	1,911	2,192	637	1,555	9.0	23—Dairy prod., cattle, apples, greenhouse.
N.J.....	326	349	379	403	288	115	.8	41—Dairy prod., greenhouse, soybeans, tomatoes.
Pa.....	1,601	1,894	2,163	2,576	793	1,783	6.0	18—Dairy prod., cattle, corn, eggs.
E.N.C.	14,993	16,994	18,715	21,157	11,125	10,032	106.5	
Ohio.....	2,552	2,877	3,021	3,476	2,083	1,393	10.6	12—Soybeans, corn, dairy prod., cattle.
Ill.....	2,940	3,376	3,444	3,969	2,372	1,597	18.6	10—Corn, soybeans, hogs, cattle.
Ind.....	5,193	5,723	6,539	6,960	4,592	2,368	33.2	4—Corn, soybeans, hogs, cattle.
Mich.....	1,648	1,880	2,054	2,485	1,338	1,147	15.6	19—Dairy prod., cattle, corn, soybeans.
Wis.....	2,660	3,138	3,657	4,267	740	3,527	28.5	9—Dairy prod., cattle, corn, hogs.
W.N.C.	23,734	25,018	30,016	35,884	14,979	20,905	528.6	
Minn.....	3,810	4,268	4,984	5,554	2,607	2,947	68.4	7—Dairy prod., soybeans, cattle, corn.
Iowa.....	6,487	6,886	8,530	9,465	3,874	5,591	69.2	3—Cattle, hogs, soybeans, corn.
Mo.....	2,636	2,912	3,489	4,345	1,787	2,558	31.3	8—Cattle, soybeans, hogs, dairy prod.
N. Dak.....	1,831	1,599	2,039	2,330	1,641	689	46.5	21—Wheat, cattle, sunflower, barley.
S. Dak.....	1,798	1,529	2,080	2,287	594	1,693	54.7	22—Cattle, hogs, dairy prod., wheat.
Nebr.....	3,859	3,966	4,664	6,017	2,121	3,896	132.7	5—Cattle, corn, hogs, soybeans.
Kans.....	3,313	3,858	4,230	5,886	2,355	3,531	125.8	6—Cattle, wheat, sorghum grain, hogs.
S.A.	10,149	10,318	12,578	14,128	7,950	6,178	49.0	
Del.....	268	260	321	358	121	237	.4	42—Broilers, soybeans, corn, dairy prod.
Md.....	675	657	769	879	313	566	2.1	36—Broilers, dairy prod., corn, soybeans.
Va.....	989	1,009	1,241	1,348	557	791	6.0	33—Dairy prod., cattle, tobacco, broilers.
W. Va.....	138	147	190	232	63	169	2.0	46—Cattle, dairy prod., apples, turkeys.
N.C.....	2,638	2,624	3,198	3,397	1,973	1,424	8.3	13—Tobacco, broilers, hogs, soybeans.
S.C.....	807	794	950	1,059	685	374	6.5	35—Soybeans, tobacco, cattle, eggs.
Ga.....	2,143	2,196	2,636	2,962	1,340	1,622	17.9	17—Broilers, peanuts, soybeans, eggs.
Fla.....	2,491	2,631	3,273	3,893	2,898	995	5.8	11—Oranges, cattle, greenhouse, dairy prod.
E.S.C.	5,216	6,343	7,762	7,972	3,928	4,044	40.1	
Ky.....	1,441	1,730	2,212	2,055	1,141	914	6.7	25—Tobacco, cattle, soybeans, dairy prod.
Tenn.....	1,117	1,361	1,587	1,779	824	955	8.4	28—Soybeans, cattle, dairy prod., hogs.
Ala.....	1,339	1,542	1,909	2,054	771	1,283	12.1	26—Broilers, cattle, soybeans, eggs.
Miss.....	1,319	1,690	2,054	2,084	1,192	892	12.9	24—Soybeans, cotton lint, cattle, broilers.
W.S.C.	10,958	12,171	14,363	18,001	7,717	10,284	401.6	
Ark.....	2,137	2,409	2,944	3,162	1,600	1,562	32.6	16—Soybeans, broilers, rice, cattle.
La.....	1,115	1,237	1,452	1,638	1,111	527	20.2	30—Soybeans, cattle, rice, cotton lint.
Okla.....	1,870	1,865	2,333	3,230	1,127	2,103	41.7	14—Cattle, wheat, cotton lint, dairy prod.
Tex.....	5,836	6,660	7,634	9,971	3,879	6,092	307.1	2—Cattle, cotton lint, wheat, dairy prod.
MT.	6,812	7,124	9,019	10,742	3,659	7,083	137.7	
Mont.....	1,009	965	1,228	1,371	571	800	34.0	32—Cattle, wheat, barley, dairy prod.
Idaho.....	1,269	1,163	1,486	1,860	956	904	21.1	27—Cattle, wheat, potatoes, dairy prod.
Wyo.....	374	455	537	774	97	677	8.3	37—Cattle, dairy prod., sheep, sugar beets.
Colo.....	1,919	2,069	2,633	3,181	717	2,464	37.3	15—Cattle, wheat, corn, dairy prod.
N. Mex.....	726	791	965	1,121	240	881	21.4	34—Cattle, dairy prod., hay, cotton.
Ariz.....	1,048	1,165	1,548	1,766	912	854	9.1	29—Cattle, cotton lint, dairy prod., lettuce.
Utah.....	330	369	453	462	115	347	5.2	38—Cattle, dairy prod., hay, turkeys.
Nev.....	137	147	169	207	51	156	1.3	47—Cattle, dairy prod., hay, potatoes.
Pac.	11,752	12,487	14,299	16,985	11,303	5,682	87.6	
Wash.....	1,828	1,757	2,181	2,402	1,623	779	16.7	20—Wheat, cattle, dairy prod., ap., ns.
Oreg.....	1,039	1,052	1,255	1,562	926	636	8.5	31—Cattle, wheat, dairy prod., greenhouse.
Calif.....	6,497	9,341	10,470	12,590	8,405	4,185	61.3	1—Cattle, dairy prod., grapes, cotton lint.
Alaska.....	10	12	12	12	8	4	.3	50—Greenhouse, dairy prod., potatoes, hay.
Hawaii.....	378	325	381	419	341	78	.8	40—Sugarcane, pineapples, cattle, dairy prod.

- Represents zero.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Income Statistics*, July bulletin and State supplement.

NO. 1232. FARMERS' MARKETING AND FARM-SUPPLY COOPERATIVES—SUMMARY: 1950 TO 1977

[For fiscal years of cooperatives ending between July 1 of preceding year and June 30 of year shown with limited exceptions. 1950 excludes Alaska and Hawaii. Memberships and businesses are estimated. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Data are for marketing season during which farm products are moved into channels of trade. Marketing seasons overlap. See also *Historical Statistics, Colonial Times to 1970*, series K 195-203]

ITEM	1950	1960	1965	1970	1972	1973	1974	1975	1976	1977 ¹
Cooperatives listed.....	10,035	9,345	8,583	7,790	7,797	7,854	7,755	7,645	7,533	6,736
Marketing ²	6,922	6,048	5,498	5,015	5,016	5,053	4,977	4,916	4,804	4,143
Farm supply.....	3,113	3,297	3,085	2,775	2,781	2,801	2,778	2,729	2,731	2,593
Membership³ (1,000).....	6,584	7,273	7,082	6,355	6,147	6,128	6,106	6,123	5,906	5,758
Marketing ² (1,000).....	4,075	3,673	3,831	3,133	3,156	3,140	3,133	3,151	2,850	2,692
Farm supply (1,000).....	2,509	3,600	3,251	3,222	2,991	2,988	2,973	2,972	3,056	3,066
Businesses⁴ (mil. dol.).....	8,726	12,036	14,742	19,080	21,665	25,991	35,366	41,342	40,104	43,584
Marketing ² (mil. dol.).....	7,083	9,628	11,832	15,207	16,925	20,076	27,602	32,682	30,692	33,027
Farm supply (mil. dol.).....	1,643	2,408	2,910	3,873	4,740	5,915	7,764	8,660	9,412	10,557
	COOPERATIVES HANDLING			BUSINESSES ⁴ (mil. dol.)						
SELECTED PRODUCT OR SERVICE	1965	1970	1977 ¹	1965	1970	1975	1976	1977 ¹		
Product marketed:										
Grain, soybeans.....	2,596	2,539	2,452	2,465	3,006	12,744	10,634	11,852		
Dairy products.....	1,346	971	558	3,770	5,126	8,376	8,480	9,136		
Fruits and vegetables.....	592	499	424	1,232	1,776	2,730	2,861	2,850		
Livestock and livestock products.....	479	546	479	1,433	2,154	2,614	2,784	3,154		
Sugar products.....	67	66	62	530	634	2,065	1,337	1,161		
Cotton and cotton products.....	581	554	500	830	434	935	960	1,293		
Supplies purchased:										
Feed.....	4,363	4,214	3,821	1,035	1,279	2,587	2,496	2,835		
Fertilizer.....	4,409	4,294	3,909	507	657	1,913	2,284	2,427		
Petroleum products.....	2,773	2,774	3,025	643	864	1,875	2,098	2,514		
Sprays and dusts.....	3,329	3,721	3,689	82	165	502	628	694		
Seed.....	3,962	4,007	3,677	121	142	337	358	374		

¹ Preliminary. Excludes data for 688 cooperatives which were primarily inactive. ² Includes cooperatives whose major activity is providing services related to marketing and farm-supply activities. ³ Excludes nonvoting patrons. ⁴ Value of commodities sold or purchased for patrons and charges for rendering other services in marketing or purchasing. Represents net volume after eliminating intercooperative business.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Statistics of Farmer Cooperatives*, annual.

NO. 1233. FOOD MANUFACTURING INDUSTRY—SUMMARY: 1970 TO 1979

[Covers manufacturers of food and kindred products (Standard Industrial Classification Code 20); based on various editions of the Standard Industrial Classification Manual, see text, p. 392.]

ITEM	Unit	1970	1972	1973	1974	1975	1976	1977	1978	1979
Total employees ¹	1,000.....	1,786	1,745	1,715	1,707	1,658	1,689	1,711	1,721	1,716
Production workers.....	1,000.....	1,207	1,192	1,167	1,164	1,120	1,145	1,161	1,171	1,176
Average hourly earnings, prod. workers.....	Dol.....	3.16	3.60	3.85	4.19	4.61	4.98	5.37	5.80	6.27
Salaries and Wages.....	Bil. dol.....	11.7	12.9	13.7	14.8	15.9	17.3	18.5	(NA)	(NA)
Supplemental labor cost ²	Bil. dol.....	(NA)	1.8	(NA)	(NA)	2.6	3.0	(NA)	(NA)	(NA)
Value added by manufacturer ³	Bil. dol.....	32.3	35.6	39.7	44.9	48.1	52.8	56.2	(NA)	(NA)
Cost of materials.....	Bil. dol.....	66.5	79.8	97.4	118.3	123.8	128.6	136.8	(NA)	(NA)
Value of shipments ⁴	Bil. dol.....	98.5	115.1	135.6	162.1	172.2	180.9	193.0	(NA)	(NA)
Total assets.....	Bil. dol.....	23.8	26.7	28.4	30.1	33.0	35.1	(NA)	(NA)	(NA)
Capital expenditures, new ⁵	Bil. dol.....	2.1	2.4	2.4	3.0	3.4	3.8	4.1	(NA)	(NA)
Funds for research and development ⁶	Mil. dol.....	230	259	269	298	335	353	395	428	(NA)
Corporate profits before taxes ⁷	Bil. dol.....	4.8	5.5	6.8	7.9	8.8	9.7	9.2	10.2	11.5
Corporate profits after taxes ⁷	Bil. dol.....	2.6	3.0	3.8	4.6	5.2	5.8	5.6	6.2	7.3
Ratio of profits to stockholders' equity.....	Percent.....	10.8	11.1	12.8	13.8	14.4	14.9	13.3	13.8	14.7
Profits per dollar of sales.....	Cents.....	2.5	2.5	2.6	2.9	3.2	3.5	3.1	3.2	3.3

NA Not available. ¹ See headnote, table 692. Source: U.S. Bureau of Labor Statistics, *Employment and Earnings*, monthly. ² Employers' expenses for legally required labor supplements (e.g., Social Security) and for voluntary programs (e.g., pension funds). ³ See footnote 6, table 1434. ⁴ See footnote 7, table 1434. ⁵ Includes expenditures for plants in operation and plants under construction but not yet in operation. ⁶ Source: U.S. National Science Foundation, *Research and Development in Industry*, annual. ⁷ Data are not necessarily comparable from year to year due to change in accounting procedures, industry classifications, sampling procedures, etc.; for detail, see source. Source: U.S. Federal Trade Commission, *Quarterly Financial Report for Manufacturing, Mining and Trade Corporations*.

Source: Except as noted, U.S. Bureau of the Census, *Census of Manufactures, 1972, General Summary*, MC72(1)-1; and *Annual Survey of Manufactures*.

NO. 1234. U.S. TOTAL FOOD AND ALCOHOL BEVERAGE EXPENDITURES, BY TYPE OF USE AND TYPE OF SELLER: 1960 TO 1978

[Covers all food and alcohol purchased by civilians and military, including business and institutions. Based on sales of food by different types of seller. Data are primarily based on current sales figures. From the *Monthly Retail Trade Report* and *Monthly Selected Services Receipts* of the U.S. Bureau of the Census; for further detail, see source]

TYPE OF USE AND SELLER	EXPENDITURES (bil. dol)								PERCENT		
	1960	1965	1970	1974	1975	1976	1977	1978 ¹	1960	1970	1978 ¹
Total food expenditures.....	72.6	86.2	116.8	166.5	183.4	201.4	217.9	238.4	100.0	100.0	100.0
Food for off-premise use.....	53.5	60.6	78.4	111.2	121.1	132.2	141.1	154.6	73.7	67.1	64.9
Sales, total.....	49.7	57.0	73.8	104.5	114.0	124.5	132.9	146.0	68.5	63.2	61.2
Food stores ²	42.1	49.1	65.3	94.8	104.1	114.4	122.5	135.1	57.9	56.0	56.7
Other stores ³	2.2	2.3	2.4	3.0	3.1	3.4	3.7	4.0	3.1	2.0	1.7
Farmers, manufacturers, wholesalers.....	1.6	1.6	1.8	2.2	2.3	2.4	2.5	2.7	2.2	1.6	1.1
Commissary stores, exchanges.....	6	10	1.4	2.1	2.2	2.2	2.2	2.4	8	1.2	1.0
Home delivered ⁴	3.3	3.0	2.9	2.4	2.3	2.1	2.0	1.8	4.5	2.5	1.8
Home production, donations.....	3.8	3.7	4.6	6.7	7.2	7.6	8.2	8.6	5.2	3.9	3.6
Meals and snacks.....	19.0	25.4	38.3	55.3	62.2	69.2	76.8	83.7	26.2	32.8	35.1
Eating and drinking places ⁵	10.5	14.4	22.5	33.1	38.1	42.9	48.5	53.0	14.5	19.2	22.2
Schools and colleges ⁶	2.0	3.0	4.4	6.3	7.1	7.8	8.2	8.7	2.8	3.8	3.6
Retail stores, direct selling ⁷	1.7	2.2	3.3	4.7	4.9	5.3	5.6	6.0	2.4	2.8	2.5
Hotels and motels ⁸	1.0	1.4	1.9	2.8	3.1	3.6	3.9	4.6	1.4	1.6	1.9
Recreational places ⁸	4	5	7	1.0	1.1	1.2	1.2	1.2	6	6	5
Other.....	3.3	3.9	5.6	7.4	8.1	8.6	9.4	10.3	4.6	4.8	4.3
Total alcoholic beverage sales.....	12.9	15.6	21.7	29.3	31.9	34.7	37.2	40.2	100.0	100.0	100.0
Off premise use.....	7.2	9.0	12.8	17.4	18.7	20.4	21.5	23.2	55.9	59.0	57.7
Liquor stores.....	4.1	5.2	7.6	10.0	10.7	11.2	11.7	12.4	32.1	35.0	30.9
Food stores.....	2.4	2.9	4.2	6.1	6.5	7.6	8.1	8.9	18.4	19.2	22.2
Other.....	7	8	1.1	1.4	1.5	1.6	1.7	1.8	5.4	4.9	4.6
On-premise use.....	5.7	6.6	8.9	11.9	13.2	14.4	15.7	17.0	44.1	41.0	42.3
Eating and drinking places ⁵	5.0	5.7	7.6	10.3	11.3	12.3	13.5	14.4	39.1	34.9	35.9
Hotels and motels ⁸	4	5	8	1.1	1.2	1.4	1.5	1.8	2.9	3.5	4.5
Other.....	3	4	6	6	6	7	7	7	2.1	2.6	1.8

¹ Preliminary. ² Excludes sales to restaurants and institutions. ³ Includes eating and drinking establishments and trailer parks. ⁴ Includes mail order. ⁵ Includes tips. ⁶ Includes school food subsidies. ⁷ Includes vending machine operators. ⁸ Motion picture theaters, sports arenas, camps, golf and country clubs, etc.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *U.S. Food Expenditures* (Agricultural Economic Report No. 431) 1979.

NO. 1235. FARM FOOD PRICES—DISTRIBUTION OF RETAIL PRICE ACCORDING TO FARM VALUE AND MARKETING FUNCTION: 1977 TO 1979

[In cents per retail unit indicated. The farm value is the payment to farmers for the quantity of farm products equivalent to the unit sold at retail minus imputed value of byproducts. Because of losses from processing, waste, and spoilage, the farm value represents larger quantities than the retail unit]

FOOD ITEM	Unit	1977		1978		1979						
		Farm value	Retail price	Farm value	Retail price	Farm value	As-sembly and pro-curement	Pro-cessing	Inter-city trans-portion	Wholesale-ing	Retail-ing ¹	Retail price
Beef, choice.....	Lb.....	83.3	148.4	109.6	181.9	137.9	2.9	6.6	3.1	13.4	62.4	226.3
Pork.....	Lb.....	63.6	125.4	74.4	143.6	64.1	2.5	30.9	2.9	8.5	35.2	144.1
Broilers.....	Lb.....	33.0	60.1	37.2	66.5	35.0	1.3	9.6	1.6	4.2	16.3	68.0
Eggs, grade A ²	Doz.....	53.8	82.3	49.7	78.5	52.0	1.1	11.6	1.8	3.8	13.7	84.0
Milk, sold in stores.....	1/2 gal.....	45.1	83.9	47.0	88.7	52.5	3.4	15.1	(*)	14.2	13.7	98.9
Butter.....	Lb.....	85.8	133.1	97.2	145.2	114.9	3.7	14.1	2.9	6.7	22.0	164.3
Bread, white.....	Lb.....	4.5	35.4	5.4	37.8	6.4			35.9			42.3
Potatoes, fall.....	10 lb.....	44.3	165.1	41.4	173.1	40.3	(*)	19.7	26.0	10.5	70.8	167.3
Oranges, Calif.....	Doz.....	36.2	140.3	50.2	188.4	67.6	2.3	20.8	22.6	18.3	108.6	240.2
Lettuce, Calif.....	Head.....	5.1	46.0	15.0	57.0	7.4	5	9.9	14.6	3.8	27.3	63.5
Orange juice, frozen.....	6 oz.....	10.7	34.0	19.1	42.7	20.5	6	8.3	2.0	5.4	9.4	46.2
Tomatoes, Calif. ³	303 can.....	3.9	37.3	4.8	37.6	5.1	.8	19.6	4.3	3.7	10.4	43.9

¹ In store costs only. Headquarters and warehousing expenses are included in wholesaling. ² Or AA large. ³ Included in wholesaling. ⁴ Included in farm value. ⁵ Whole tomatoes. ⁶ Based on selected Eastern cities only; therefore not comparable with prior years.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Developments in Marketing Spreads for Food Products in 1979*, AER No. 449, March 1980.

**NO. 1236. CIVILIAN CONSUMER EXPENDITURES FOR FARM FOODS—FARM VALUE AND
MARKETING BILL: 1960 TO 1979**

(In billions of dollars, except percent. Excludes imported and nonfarm foods, such as seafood and coffee, 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	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, prel.
Consumer expenditures, total.....	66.9	81.1	108.7	120.3	136.7	152.3	166.4	180.9	189.3	212.4	238.8
At-home expenditures ¹	50.0	60.5	76.4	84.0	97.0	107.8	114.8	124.6	128.6	146.4	166.3
Farm value.....	18.7	22.6	28.4	31.9	41.7	45.2	43.1	46.9	46.6	55.8	62.9
Marketing bill ²	31.3	37.9	48.0	52.1	55.3	62.6	71.7	77.7	82.0	90.6	103.4
Percent of at-home expenditures.....	62.6	62.6	62.8	62.0	57.0	58.1	62.5	62.4	63.8	61.9	62.2
Away-from-home expenditures.....	16.9	20.6	32.3	36.3	39.7	44.5	51.6	56.3	60.7	66.0	72.5
Farm value.....	3.7	4.5	6.3	7.4	9.3	10.6	11.8	10.6	10.7	12.5	13.9
Marketing bill ²	13.2	16.1	26.0	28.9	30.4	33.9	39.8	45.7	50.0	53.5	58.6
Percent of away-from-home expenditures.....	78.1	78.2	80.5	79.6	76.6	76.2	77.1	81.2	82.4	81.1	80.8
Farm value, total.....	22.3	27.1	34.8	39.3	51.0	55.7	54.9	57.8	57.3	68.3	76.8
Marketing bill, total ²	44.6	54.0	73.9	81.0	85.7	96.5	111.5	123.3	132.0	144.1	162.0
Percent of total consumer expenditures.....	66.7	66.6	68.0	67.3	62.7	63.4	67.0	68.2	69.7	67.8	67.8
Labor cost ³	19.7	23.3	32.2	37.2	40.2	44.4	48.8	53.9	59.4	66.7	74.0
Packaging materials.....	5.4	6.2	9.1	10.2	10.9	12.1	13.4	15.0	16.2	17.7	19.8
Rail and truck transport ⁴	4.1	4.2	5.2	6.1	6.0	7.2	8.3	9.5	10.0	10.9	12.3
Corporate profits before taxes.....	2.1	3.0	3.6	4.0	5.3	6.1	7.5	7.6	8.0	9.1	10.2
Other ⁵	13.3	17.3	23.8	23.5	23.3	26.7	33.5	37.3	38.4	39.7	45.7
Processing.....	15.1	16.8	22.1	23.1	25.3	27.2	30.5	34.2	34.8	37.6	(NA)
Wholesaling.....	5.5	6.6	9.6	11.0	12.6	14.4	16.0	17.6	19.5	21.9	(NA)
Transportation.....	4.1	4.3	5.2	6.1	6.0	7.2	8.3	9.5	10.0	10.9	(NA)
Retailing.....	19.9	26.3	36.9	39.6	41.8	46.7	54.5	62.0	67.8	73.7	(NA)
SELECTED FOOD COMMODITY GROUPS											
Beef: Total expenditures.....	10.0	13.0	19.6	24.4	27.2	27.8	28.3	33.5	33.4	39.4	⁶ 73.9
Farm value.....	5.0	6.2	9.3	11.8	14.2	12.9	12.6	13.8	14.0	18.9	⁶ 31.6
Percent of total.....	50.0	47.7	47.4	48.5	52.0	46.5	44.7	41.3	41.8	48.1	⁶ 42.8
Marketing bill ²	5.0	6.8	10.3	12.6	13.1	14.9	15.6	19.6	19.5	20.4	⁶ 42.3
Pork: Total expenditures.....	7.2	8.0	12.3	12.6	14.3	16.1	16.6	18.5	19.9	21.7	(NA)
Farm value.....	2.7	3.5	4.2	4.6	6.3	6.2	7.2	7.0	6.6	8.0	(NA)
Percent of total.....	37.5	43.8	34.1	36.8	43.9	38.2	43.3	37.8	33.4	36.7	(NA)
Marketing bill ²	4.5	4.5	8.1	7.9	8.0	10.0	9.4	11.5	13.3	13.8	(NA)
Poultry and eggs:											
Total expenditures.....	5.2	6.2	9.0	8.9	12.1	11.7	12.5	13.7	14.1	15.2	17.3
Farm value.....	2.9	3.1	3.9	3.8	6.4	5.7	6.3	6.5	6.5	7.3	7.9
Percent of total.....	55.9	49.5	43.8	42.3	52.3	49.0	49.9	47.5	45.9	48.0	45.7
Marketing bill ²	2.3	3.1	5.0	5.1	5.8	6.0	6.3	7.2	7.6	7.9	9.4
Fluid milk and cream:											
Total expenditures.....	7.1	7.4	8.8	9.3	9.8	11.0	11.1	12.2	12.4	12.7	⁷ 33.3
Farm value.....	2.8	3.0	3.8	3.9	4.4	5.0	5.2	5.8	5.4	5.6	⁷ 14.4
Percent of total.....	39.4	40.5	43.2	41.7	44.3	45.9	47.2	47.2	44.0	45.9	⁷ 43.2
Marketing bill ²	4.3	4.4	5.0	5.4	5.5	5.9	5.9	6.4	6.9	6.9	⁷ 18.9
Other dairy products:											
Total expenditures.....	5.0	5.6	7.6	8.3	9.2	10.5	11.9	13.8	14.7	16.6	(NA)
Farm value.....	1.9	2.1	3.0	3.2	3.7	4.2	4.6	5.3	5.5	6.3	(NA)
Percent of total.....	38.0	37.5	39.5	37.8	40.8	40.1	38.9	38.7	37.2	38.0	(NA)
Marketing bill ²	3.1	3.5	4.7	5.2	5.4	6.3	7.3	8.4	9.2	10.3	(NA)
Fresh fruits, vegetables:											
Total expenditures.....	7.5	8.7	10.8	11.6	14.1	14.9	16.0	16.9	18.6	22.6	⁸ 51.2
Farm value.....	2.3	2.7	3.0	3.6	4.5	4.2	4.9	5.0	4.9	5.9	⁸ 10.4
Percent of total.....	30.7	31.0	27.8	30.7	31.6	28.6	30.4	29.5	26.5	26.1	⁸ 20.3
Marketing bill ²	5.2	6.0	7.8	8.0	9.7	10.6	11.2	11.9	13.7	16.7	⁸ 40.8
Processed fruits, vegetables:											
Total expenditures.....	7.3	9.1	11.4	12.7	14.0	17.0	19.1	21.1	22.4	24.7	(NA)
Farm value.....	1.2	1.8	2.0	2.2	2.8	3.9	3.4	3.7	3.6	4.3	(NA)
Percent of total.....	16.4	19.8	17.5	17.1	19.8	23.1	17.7	17.7	16.2	17.3	(NA)
Marketing bill ²	6.0	7.3	9.4	10.5	11.2	13.1	15.7	17.3	18.7	20.4	(NA)
Bakery, grain mill products:											
Total expenditures.....	9.9	11.2	13.3	15.1	17.0	20.3	23.8	24.5	25.5	28.3	31.8
Farm value.....	1.4	1.9	1.9	2.3	3.6	4.8	4.1	3.6	3.1	3.8	4.6
Percent of total.....	14.5	16.7	14.5	15.5	21.2	23.6	17.4	14.6	12.3	13.2	14.5
Marketing bill ²	8.0	9.4	11.4	12.8	13.4	15.5	19.6	20.9	22.4	24.6	27.2

NA Not available. ¹Food primarily purchased from retail food stores for use at home. ²The difference between total civilian expenditures for domestic farm-originated food products and the farm value or payment farmers received for the equivalent farm products. ³Includes imputed earnings of proprietors, partners, and family workers not receiving stated remuneration; and supplements to wages and salaries such as pensions and health insurance premiums. ⁴Excludes local hauling. ⁵Represents advertising, rents, depreciation, fuel, electric power, interest on borrowed capital, taxes other than income, and other costs. ⁶Figures are for all meat. ⁷Covers all dairy products. ⁸Covers all fruits and vegetables.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Developments in Marketing Spreads for Food Products in 1979*, AER No. 449, March 1980; *Agricultural Outlook*, periodic; and *Agricultural Statistics*, annual.

NO. 1237. FARM MACHINERY AND EQUIPMENT: 1960 TO 1979

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

ITEM	Unit	1960	1965	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Value of farm implements and machinery ¹	Bil. dol.....	22.7	24.8	32.3	34.4	36.6	39.3	44.2	55.7	65.0	71.9	77.1	84.0
Number on farms, Jan. 1:													
Tractors ²	1,000.....	4,688	4,787	4,619	4,584	4,549	4,518	4,493	4,469	4,434	4,402	4,370	4,350
Horsepower.....	Mil.....	153	176	203	206	209	212	219	222	228	232	238	243
Motortrucks.....	1,000.....	2,834	3,030	2,984	2,994	3,003	3,013	3,023	3,032	3,043	3,044	3,045	3,045
Grain combines.....	1,000.....	1,042	910	790	760	725	701	698	524	527	535	538	540
Corn pickers ³	1,000.....	792	690	635	630	625	621	618	615	610	605	602	600
Pickup balers.....	1,000.....	680	751	708	700	692	684	674	667	641	615	610	605
Field forage harvesters.....	1,000.....	291	316	304	300	298	292	295	255	263	270	272	272
Farmers' expenditures:													
Motor vehicles ⁴	Mil. dol.....	1,344	1,940	2,030	2,137	2,464	3,066	3,405	3,883	4,604	4,927	5,580	6,300
Machinery, equipment.....	Mil. dol.....	1,458	2,239	2,868	2,736	3,231	4,581	4,790	4,820	5,393	5,535	6,408	7,200
Retail sales: ⁵													
Tractors, total ⁶	1,000.....	(NA)	162.5	135.5	134.0	160.7	187.0	173.8	161.1	153.2	130.9	139.6	139.0
2-wheel drive.....	1,000.....	(NA)	162.5	135.5	131.5	156.8	190.8	185.5	150.5	142.7	123.2	130.9	127.5
4-wheel drive.....	1,000.....	(NA)	(NA)	(NA)	2.5	3.9	6.2	8.3	10.6	10.5	7.7	8.7	11.5
Combines.....	1,000.....	(NA)	37.6	26.7	27.2	27.9	35.1	31.6	33.1	32.5	28.8	31.5	32.3
Corn heads.....	1,000.....	(NA)	22.9	18.5	20.8	21.1	26.7	25.1	25.4	25.4	20.7	21.2	22.4
Field forage harvesters.....	1,000.....	(NA)	(NA)	15.0	14.8	15.2	17.7	16.1	13.1	13.3	13.2	11.5	12.5

NA Not available. ¹ Farm inventory valuations at beginning of year. Includes family automobiles. ² Excludes garden tractors. ³ Includes picker-shellers. ⁴ For farm business use. ⁵ Source: Farm and Industrial Equipment Institute, Chicago, Illinois, unpublished data. ⁶ Beginning 1977, covers tractors over 40 hp. only.

Source: Except as noted, U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Balance Sheet of the Farming Sector*, and *Farm Income Statistics*, both annual through 1979, and *Economic Indicators of the Farm Sector: Income and Asset Statistics, 1979*, October 1980. Also in *Agricultural Statistics*, annual.

NO. 1238. AGRICULTURAL CHEMICALS USED ON FARMS: 1969 AND 1974

[Farms with sales of \$2,500 or more]

TYPE OF CHEMICAL	1969			1974		
	Farms reporting (1,000)	Acres treated (1,000)	Cost (mil. dol.)	Farms reporting (1,000)	Acres treated (1,000)	Cost (mil. dol.)
Total	¹ 1,467	(x)	² 2,988	¹ 1,363	(x)	² 6,769
Commercial fertilizer.....	1,289	155,550	2,107	1,279	184,643	5,028
Lime.....	262	10,099	93	145	8,240	104
Chemicals for—						
Defoliation or growth control of crops.....	69	5,781	23	37	5,174	34
Insect control in livestock and poultry.....	352	(x)	26	132	(x)	19
Sprays, dusts, etc. for—						
Insects on hay and other crops.....	453	42,062	306	418	56,642	596
Nematodes in crops.....	34	3,267	17	27	1,754	29
Crop diseases.....	46	4,088	55	37	4,183	84
Weeds or grass in crops.....	645	84,914	346	549	110,793	784
Weeds or brush in pasture.....	78	4,967	10	44	4,003	13

X Not applicable. ¹ If more than 1 subentry was applicable, the farm was tabulated in each. ² Includes categories not shown separately.

Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. I.

NO. 1239. COMMERCIAL FERTILIZERS CONSUMED: 1960 TO 1979

[For years ending June 30. Includes Puerto Rico. Percent nutrient content excludes secondary and micronutrients. See *Historical Statistics, Colonial Times to 1970*, series K 193, for related but not comparable data]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979
All fertilizers (mil. tons).....	24.9	31.8	39.6	47.1	42.5	49.2	51.6	47.5	51.1
Percent:									
Nitrogen.....	11.7	15.3	19.5	20.4	21.2	22.2	21.7	21.8	21.7
Phosphoric oxide.....	10.9	11.6	11.9	11.3	11.1	11.2	11.5	11.2	11.3
Potash.....	9.2	9.4	10.5	11.3	11.0	11.1	11.9	12.1	12.7
Mixed fertilizers (mil. tons).....	15.7	18.6	21.0	24.1	20.6	23.0	24.0	22.1	23.6
Percent:									
Nitrogen.....	6.5	7.8	9.3	10.1	10.2	10.5	10.6	10.7	10.8
Phosphoric oxide.....	13.0	15.2	17.7	17.7	18.0	19.3	19.9	19.6	19.9
Potash.....	12.1	12.4	12.7	12.7	12.5	12.5	12.8	12.8	12.9
Primary nutrient materials (mil. tons).....	7.9	11.8	17.3	20.9	20.0	23.9	25.0	23.5	25.3
Secondary and micronutrients (mil. tons).....	1.4	1.5	1.3	2.1	1.9	2.3	2.5	1.9	2.1

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual; and *Commercial Fertilizers, Consumption in the United States*, annual.

No. 1240. FARM EMPLOYMENT AND INDEX OF WAGE RATES: 1960 TO 1979

[Excludes Alaska and Hawaii, except beginning 1978 includes Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series K 174-181]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
		1967=100										
Employment ¹	1,000.....	7,057	5,610	4,523	4,373	4,337	4,389	4,342	4,374	4,155	3,957	3,774
Family ²	1,000.....	5,172	4,128	3,348	3,228	3,169	3,075	3,026	2,997	2,859	2,699	2,501
Hired ³	1,000.....	1,885	1,482	1,175	1,146	1,168	1,314	1,317	1,377	1,296	1,266	1,273
Farm wage rates index.....	1967=100	74	86	129	143	157	176	190	208	225	241	265

¹ 1960-1973, averages of monthly estimates of employed during last full calendar week ending at least one day before end of month; beginning 1974, annual quarterly averages. ² 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. ³ 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: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Farm Labor*, quarterly.

No. 1241. HIRED FARMWORKERS—CHARACTERISTICS AND EARNINGS: 1970 TO 1979

[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, p. 1 and Appendix III. For composition of regions, see fig. 1, inside front cover. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	WORKERS (1,000)					MEDIAN EARNINGS PER DAY				
	1970	1975	1976	1977	1979	1970	1975	1976	1977	1979
All workers	2,488	2,638	2,767	2,730	2,652	\$9.30	\$14.80	\$15.85	\$17.58	\$20.99
White ¹	1,940	1,907	2,059	1,974	1,976	9.70	14.75	15.60	16.93	20.24
Hispanic.....	(NA)	285	310	294	320	(NA)	17.10	20.00	20.00	27.13
Black and other ¹	547	446	397	462	355	8.00	13.90	14.55	18.30	22.85
Male.....	1,889	2,036	2,086	2,092	2,075	9.75	15.45	16.50	18.37	21.88
Female.....	599	602	681	638	576	7.65	12.35	14.15	16.11	19.95
Region:										
Northeast.....	241	227	223	214	188	9.95	14.00	14.50	15.23	16.63
North Central.....	590	674	748	730	785	9.20	14.45	15.10	16.65	20.01
South.....	1,093	1,074	1,150	1,150	1,071	8.35	14.10	14.95	16.96	20.33
West.....	564	664	645	636	607	11.75	18.00	20.00	20.00	25.27
14-19 years.....	1,062	1,149	1,178	1,081	988	8.10	11.90	13.30	14.04	18.10
Migratory.....	93	70	82	60	72	8.35	15.50	14.90	13.63	20.30
Nonmigratory.....	968	1,079	1,096	1,020	916	8.10	11.70	13.15	14.06	17.80
20 years and over.....	1,426	1,489	1,589	1,650	1,664	10.15	16.45	18.30	20.00	24.00
Migratory.....	103	118	131	130	145	13.10	20.00	20.00	20.00	25.50
Nonmigratory.....	1,323	1,371	1,458	1,519	1,519	10.00	16.30	17.95	20.00	23.70
Hired farmwork:										
Under 25 days.....	1,093	1,180	1,145	1,056	898	8.25	13.00	14.05	15.75	19.92
25-74 days.....	623	556	652	667	672	9.30	15.00	15.40	16.41	21.24
75-149 days.....	293	319	347	322	323	11.20	16.15	18.05	19.46	22.57
150-249 days.....	172	228	290	295	335	11.05	15.75	19.80	20.00	24.74
250-299 days.....	105	134	155	170	167	10.90	20.00	20.00	20.00	25.20
300 days and over.....	201	221	179	221	256	9.95	16.90	20.00	19.98	23.60

NA Not available. ¹ Beginning 1975, excludes persons of Hispanic origin. 1970 data not comparable with later years.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *The Hired Farm Working Force*, annual.

No. 1242. SELECTED INDEXES OF FARM INPUTS: 1950 TO 1979

[1967=100. Inputs based on physical quantities of resources used in production. See also *Historical Statistics, Colonial Times to 1970*, series K 486-495 for data before revisions]

INPUT	1950	1955	1960	1965	1970	1974	1975	1976	1977	1978	1979, prel.
Total	104	105	101	98	100	100	100	102	105	105	108
Farm labor.....	217	185	145	110	89	78	76	73	70	67	66
Farm real estate ¹	105	105	100	99	101	95	96	97	99	97	96
Mechanical power and machinery.....	84	97	97	94	100	109	113	117	120	125	129
Agricultural chemicals ²	29	39	49	75	115	140	127	145	154	160	162
Feed, seed, and livestock purchases ³	63	72	84	93	104	107	101	110	112	115	120
Taxes and interest.....	82	88	94	100	100	101	101	101	100	98	96
Miscellaneous.....	87	94	105	109	109	110	104	113	128	133	146

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

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Changes in Farm Production and Efficiency*, annual. Also in U.S. Council of Economic Advisors, *Economic Report of the President*, 1980.

**NO. 1243. FARM PRODUCTIVITY—LABOR-HOURS AND INDEXES OF FARM OUTPUT PER HOUR:
1950 TO 1979**

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series K 407-413, K 430-444, and W 67-81]

ITEM	1950	1955	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978, prel.	1979, prel.
Hours of labor required on farms¹													
(bil.).....	15.1	12.8	9.8	7.3	5.9	5.4	5.3	5.2	5.0	4.8	4.7	4.4	4.3
All productive livestock (bil.)..	5.5	4.9	3.8	3.0	2.3	2.1	2.0	1.8	1.7	1.6	1.5	1.4	1.3
All crops ² (bil.).....	6.9	6.0	4.6	3.4	2.8	2.6	2.7	2.7	2.6	2.6	2.5	2.4	2.4
Farm maintenance ³ (bil.).....	2.7	1.9	1.4	.9	.8	.7	.6	.7	.7	.6	.7	.6	.6
INDEX, (1967 = 100)													
Farm output per hour⁴													
All livestock and products.....	34	44	65	89	115	136	130	136	152	162	173	182	198
Meat animals.....	37	46	62	86	121	137	144	156	160	178	189	204	224
Milk cows.....	54	61	70	89	117	130	137	147	150	164	172	186	202
Poultry.....	35	42	60	87	125	148	153	168	178	202	223	242	272
All crops.....	21	32	55	87	119	142	151	166	175	200	215	241	265
Feed grains.....	36	45	66	90	111	135	138	128	142	146	157	166	182
Hay and forage.....	22	30	57	91	109	153	153	131	156	164	177	199	220
Food grains.....	40	46	61	85	105	120	125	124	133	128	141	155	165
Vegetables.....	40	51	95	101	121	124	131	115	130	127	129	136	149
Fruits and nuts.....	52	65	82	96	110	116	116	116	116	123	124	129	131
Sugar crops.....	69	78	79	95	109	109	118	129	125	129	126	129	131
Cotton.....	38	53	78	88	116	127	122	118	134	139	141	145	147
Tobacco.....	26	39	57	102	136	187	224	208	255	302	434	439	606
Oil crops.....	57	65	74	82	129	149	147	158	157	184	165	179	161
Cropland used for crops ⁵	52	69	94	104	127	144	148	134	156	150	175	170	187
Crop production per acre.....	111	111	104	99	98	98	103	106	108	109	111	108	111
	69	74	89	100	104	115	116	104	112	111	116	121	130

¹ Represents labor used on crops, livestock, and farm maintenance. ² Beginning 1965, excludes work on farm gardens. ³ Beginning 1965, excludes work on horses and mules. ⁴ Index of farm output (production) divided by index of hours of labor used. ⁵ Harvested acreages plus acreages of crop failure and summer fallow.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Changes in Farm Production and Efficiency*, annual. Also in *Agricultural Statistics*, annual.

NO. 1244. FARM OUTPUT INDEXES AND ACREAGE OF PRINCIPAL CROPS: 1960 TO 1979

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series K 414-429]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, prel.
INDEX, 1967 = 100											
Farm output ¹	91	98	101	110	112	106	114	117	121	121	129
Per unit of total input.....	90	100	102	110	111	106	115	115	117	117	125
Gross production:											
Livestock and products ²	87	95	105	107	105	106	101	105	106	106	107
Meat animals.....	85	92	108	109	108	110	102	105	105	104	103
Dairy products.....	100	104	99	102	98	99	98	103	105	104	106
Poultry and eggs.....	76	90	105	109	106	106	103	110	112	118	126
Crops ³	93	99	100	113	119	110	121	121	130	131	144
Feed grains.....	87	89	89	112	115	93	114	120	126	135	145
Hay and forage.....	90	99	100	104	109	104	108	102	107	115	117
Food grains.....	87	88	91	102	114	120	142	141	132	123	143
Vegetables.....	89	96	98	99	100	102	101	102	108	107	120
Fruits and nuts.....	94	100	110	106	126	128	137	136	136	133	143
Sugar crops.....	74	100	114	127	112	104	130	128	116	116	110
Cotton.....	196	205	139	187	175	158	112	142	191	146	200
Tobacco.....	99	94	97	88	88	101	110	108	98	103	79
Oil Crops.....	68	95	117	131	155	127	153	132	175	183	219
ACREAGE, PRINCIPAL CROPS (millions of acres)											
Planted or grown.....	324	297	293	295	319	326	332	336	344	335	346
Harvested.....	316	288	283	283	301	316	324	326	332	325	337

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

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Changes in Farm Production and Efficiency*, annual. Also in *Agricultural Statistics*, annual.

**NO. 1245. FARM LABOR—ANNUAL AVERAGE LABOR-HOURS PER UNIT OF PRODUCTION,
SELECTED CROPS AND LIVESTOCK: 1950-1954 TO 1975-1978**

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series K 445-485]

CROP, LIVESTOCK, AND ITEM	1950-1954	1955-1959	1960-1964	1965-1969	1970-1974	1975-1978 ¹
Corn for grain: Hours per acre ²	13.3	9.9	7.0	5.8	4.3	3.6
Yield per acre (bu.).....	39.4	46.7	62.2	78.5	84.0	91.5
Hours per 100 bushel.....	34	20	11	7	5	4
Wheat: Hours per acre ²	4.6	3.8	3.0	2.9	2.9	2.8
Yield per acre (bu.).....	17.3	22.3	25.2	27.5	31.0	30.7
Hours per 100 bushel.....	27	17	12	11	9	9
Hay: Hours per acre ²	6.3	6.0	5.0	3.8	3.7	3.5
Yield per acre (sh. tons).....	1.43	1.61	1.77	1.97	2.12	2.16
Hours per sh. ton.....	4.4	3.7	2.8	1.9	1.8	1.6
Potatoes: Hours per acre ²	63.1	53.1	48.0	45.1	41.6	37.9
Yield per acre (cwt).....	151	178	195	213	234	261
Hours per sh. ton.....	8	6	5	4	4	3
Cotton: Hours per acre ²	6.6	6.6	4.7	3.0	1.8	9
Yield per acre (lb.).....	28.6	42.8	47.5	48.4	47.0	46.7
Hours per bale.....	107	74	47	30	18	9
Tobacco: Hours per acre ³	46.4	47.5	49.3	42.7	29.8	25.7
Yield per acre (1,000 lb.).....	1.3	1.5	1.9	2.0	2.0	2.0
Hours per 100 lb.....	36	31	26	22	14	13
Milk cows: Hours per cow.....	121	109	93	78	62	46
Hours per cwt of milk.....	2.2	1.7	1.2	.9	.6	.4
Milk per cow (cwt).....	54	63	75	88	101	109
Cattle, exc. milk cows: Hours per cwt of beef produced ⁴	3.6	3.2	2.6	2.1	1.7	1.4
Hogs: Hours per cwt produced ⁴	2.7	2.4	1.9	1.4	1.0	.6
Chickens: Hours per 100 layers.....	232	175	126	97	78	59
Hours per 100 eggs produced.....	1.3	.9	.6	.4	.3	.2
Rate of lay ⁵	181	200	212	219	225	235
Chickens (farm raised): Hours per 100 birds.....	27	23	17	14	13	12
Hours per cwt produced ⁴	7.3	6.7	4.7	3.7	3.3	3.0
Chickens (broilers): Hours per 100 birds.....	8	4	3	2	1	1
Hours per cwt produced ⁴	2.4	1.3	.8	.5	.3	.2
Turkeys: Hours per cwt produced ⁴	6.8	4.4	2.4	1.3	.8	.5

¹ Preliminary. ² Labor-hours per acre harvested, including preharvest work on acreages abandoned, grazed, and turned under. ³ Per acre planted and harvested. ⁴ Liveweight production. ⁵ Laying flocks and eggs. ⁶ 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, Economics, Statistics, and Cooperatives Service. In *Agricultural Statistics*, annual.

NO. 1246. SELECTED FARM PRODUCTS—U.S. AND WORLD PRODUCTION AND EXPORTS: 1976 TO 1978

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

ITEM	Wheat, grain only (mil.)	Corn for grain (mil.)	Soybeans (mil.)	Rice rough ¹ (mil.)	Oats (mil.)	Barley (mil.)	Lard (1,000)	Tallow and greases (1,000)	Tobacco unmanufactured (1,000)	Edible vegetable oils ² (mil.)	Cotton ¹ (1,000 bales) ³
1976:											
Production: U.S.....	⁴ 58	⁵ 159	⁶ 35.1	5.2	⁷ 8	⁸ 8	473	2,762	⁹ 971	7.1	10,581
World.....	⁴ 415	⁵ 341	⁶ 61.2	350	⁷ 49	⁸ 175	3,582	5,038	⁹ 5,660	30.9	57,421
Percent U.S.....	14.0	46.6	57.4	1.5	16.3	4.6	13.2	54.8	17.2	23.0	18.4
Exports: U.S.....	¹⁰ 25.8	¹¹ 42.5	¹² 16.2	¹³ 10.1	¹⁴ 2.3	¹⁵ 1.1	1.4	32	¹⁶ 1,076	¹⁷ 2.66	¹⁸ 4.5
World.....	¹⁰ 70.2	¹¹ 60.6	¹² 19.2	¹³ 10.4	¹⁴ 1.4	¹⁵ 13.8	334	1,738	¹⁶ 1,332	¹⁷ 11.9	17,584
Percent U.S.....	36.8	70.1	78.6	22.1	7.1	10.1	24.6	61.9	20.9	37.8	27.2
1977:											
Production: U.S.....	⁴ 55	⁵ 163	⁶ 48.0	4.5	⁷ 11	⁸ 9	464	3,085	⁹ 869	9.8	14,400
World.....	⁴ 383	⁵ 362	⁶ 74.3	370	⁷ 52	⁸ 164	3,557	5,815	⁹ 5,508	35.4	64,144
Percent U.S.....	14.5	45.1	64.6	1.2	21.0	5.5	13.0	53.1	15.8	27.7	22.4
Exports: U.S.....	¹⁰ 30.6	¹¹ 49.5	¹² 19.1	¹³ 3.3	¹⁴ 2	¹⁵ 4.2	63	1,319	¹⁶ 1,290	¹⁷ 4.5	5,500
World.....	¹⁰ 75.6	¹¹ 62.5	¹² 22.3	¹³ 15.8	¹⁴ 1.3	¹⁵ 15.4	864	2,243	¹⁶ 1,289	¹⁷ 12.0	19,186
Percent U.S.....	40.5	79.2	85.7	37.1	15.4	7.8	12.5	58.8	22.5	37.5	28.7
1978:											
Production: U.S.....	⁴ 49	⁵ 180	⁶ 50.2	6.0	⁷ 9	⁸ 10	413	3,125	⁹ 1,920	10.3	10,800
World.....	⁴ 439	⁵ 383	⁶ 80.1	385	⁷ 51	⁸ 184	3,626	5,949	⁹ 5,608	37.7	69,753
Percent U.S.....	11.2	47.0	62.7	1.6	17.1	5.3	11.4	52.5	16.4	27.3	18.1
Exports: U.S.....	¹⁰ 32.5	¹¹ 54.2	¹² 20.5	¹³ 3.5	¹⁴ 2	¹⁵ 6	54	1,228	¹⁶ 1,318	¹⁷ 5.8	6,200
World.....	¹⁰ 83.1	¹¹ 70.6	¹² 25.0	¹³ 11.8	¹⁴ 1.5	¹⁵ 15.7	581	2,216	¹⁶ 1,428	¹⁷ 13.4	19,555
Percent U.S.....	39.1	76.8	76.8	29.7	13.3	3.8	9.3	55.4	22.3	43.3	31.7

¹ Year beginning Aug. 1. ² Includes palm oils. ³ Bales of 480 lb., net weight. ⁴ Year beginning June 1. ⁵ Year beginning Oct. 1. ⁶ Year beginning Sept. 1. ⁷ Farm sales weight basis. ⁸ Year beginning July 1. ⁹ Includes wheat flour in grain equivalent. ¹⁰ Calendar year 1977. ¹¹ Includes milled rice. ¹² Redried weight bases. ¹³ Includes oil equivalent of exported oilseeds. ¹⁴ Exports from producing countries. ¹⁵ Calendar year 1978. ¹⁶ Calendar year 1979.

Source: U.S. Foreign Agricultural Service, *Foreign Agriculture Circular*, periodic.

No. 1247. AGRICULTURAL EXPORTS AND IMPORTS—VALUE: 1960 TO 1979

[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]

ITEM	1960-1964, avg.	1965-1969, avg.	1970-1974, avg.	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Exports, domestic products	5.4	6.3	12.8	4.8	6.2	7.3	17.7	22.0	21.9	23.0	23.7	29.4	34.7
Percent of all exports.....	24	20	20	24	23	17	23	23	21	20	20	20	19
Imports for consumption.....	3.9	4.6	7.3	3.8	4.1	5.8	8.4	10.2	9.3	11.0	13.5	14.8	16.7
Percent of all imports.....	24	16	12	25	19	15	12	10	10	9	9	9	8

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives 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. 1248. AGRICULTURAL EXPORTS—VALUE BY PRINCIPAL COMMODITIES AND SELECTED COUNTRIES OF DESTINATION: 1970 TO 1979

[See headnote, table 1247. Data by country of destination not adjusted for transshipments]

COMMODITY AND COUNTRY	VALUE (mil. dol.)									PERCENT		
	1970	1973	1974	1975	1976	1977	1978	1979	1970	1975	1979	
Total agricultural exports ¹	7,255	17,647	21,945	21,859	22,978	23,636	29,407	34,745	100.0	100.0	100.0	
Grains and preparations ²	2,582	8,481	10,311	11,619	10,875	8,713	11,580	14,403	35.6	53.2	41.5	
Feed grains and products.....	1,093	3,577	4,698	5,283	6,024	4,907	5,903	7,793	15.1	24.2	22.4	
Corn.....	818	2,824	3,751	4,422	5,194	4,099	5,257	6,974	11.3	20.2	20.1	
Wheat and products.....	1,136	4,200	4,634	5,353	4,086	2,932	4,602	5,586	15.7	24.5	16.1	
Rice.....	313	539	852	858	629	730	932	854	4.3	3.9	2.5	
Oilseeds and products ²	1,931	4,308	5,709	4,452	5,070	6,615	8,175	8,896	26.6	20.4	25.6	
Soybeans.....	1,228	2,762	3,537	2,865	3,315	4,393	5,208	5,701	16.9	13.1	16.4	
Soybean oil cake and meal.....	344	933	944	639	864	920	1,242	1,416	4.7	2.9	4.1	
Vegetable oils and waxes.....	285	356	893	635	586	834	970	1,155	4.1	2.9	3.3	
Soybean oil.....	194	151	522	269	240	443	569	769	2.7	1.2	2.2	
Animals and animal products ²	965	1,584	1,776	1,686	2,380	2,667	3,033	3,765	11.9	7.7	10.8	
Hides and skins, incl. furskins.....	187	473	462	407	693	786	917	1,332	2.6	1.9	3.8	
Cattle hides.....	130	339	297	260	471	525	625	887	1.8	1.2	2.6	
Meats and meat products.....	132	374	302	432	617	610	743	853	1.8	2.0	2.5	
Fats, oils, and greases.....	246	333	585	360	443	592	599	740	3.4	1.6	2.1	
Poultry and poultry products.....	82	116	135	157	263	312	341	409	1.1	0.7	1.2	
Cotton, excluding linters.....	372	929	1,335	991	1,049	1,529	1,740	2,198	5.1	4.5	6.3	
Tobacco, unmanufactured.....	517	681	832	852	922	1,094	1,358	1,184	7.1	3.9	3.4	
Fruits and preparations.....	334	535	596	699	770	835	1,014	1,127	4.6	3.2	3.2	
Fresh fruits.....	164	284	326	404	434	458	566	646	2.3	1.8	1.9	
Feeds and fodders.....	138	272	272	312	449	616	609	838	1.9	1.4	2.4	
Vegetables and preparations.....	219	373	473	505	674	631	703	764	3.0	2.3	2.2	
Nuts and preparations.....	69	121	156	169	198	240	324	584	1.0	0.8	1.7	
Other.....	226	363	485	574	592	699	870	996	3.1	2.6	2.9	
Asia ¹	2,716	6,508	8,356	7,620	7,575	8,042	10,284	12,100	37.4	34.9	34.8	
Japan.....	1,214	2,997	3,478	3,082	3,563	3,857	4,435	5,255	16.7	14.1	15.1	
Korea, Rep. of.....	224	635	743	830	830	919	1,148	1,441	3.1	3.8	4.1	
China:												
Mainland.....	(2)	575	653	80	(2)	64	573	990	(2)	4	2.8	
Taiwan.....	134	406	430	565	474	612	824	1,074	1.8	2.6	3.1	
Western Europe ¹	2,527	5,581	6,995	7,142	7,878	8,358	9,160	9,933	34.8	32.7	28.6	
European Economic Community ³	2,105	4,510	4,597	5,563	6,421	6,620	7,177	7,665	29.0	25.4	22.1	
Netherlands.....	526	1,227	1,600	1,722	1,885	2,124	2,346	2,619	7.3	7.9	7.5	
Germany, Fed. Rep. of.....	529	1,180	1,587	1,564	1,826	1,656	1,497	1,404	7.3	7.2	4.0	
United Kingdom.....	411	616	654	588	698	874	1,023	1,057	5.7	2.7	3.0	
Italy.....	210	673	763	798	877	807	995	1,005	2.9	3.7	2.9	
Spain.....	143	459	707	776	615	634	822	930	2.0	3.6	2.7	
Latin America	687	1,423	2,168	1,898	1,544	1,784	2,078	3,084	9.5	8.7	8.9	
Mexico.....	155	362	863	586	370	664	903	1,024	2.1	2.7	2.9	
Soviet Union.....	16	920	300	1,133	1,487	1,037	1,687	2,855	0.2	5.2	8.2	
Eastern Europe.....	169	576	625	616	925	603	1,087	1,907	2.3	2.8	5.5	
Canada.....	826	1,033	1,261	1,304	1,484	1,534	1,635	1,850	11.4	6.0	4.7	
Africa.....	259	582	1,132	1,156	1,178	1,362	1,567	1,592	3.6	5.3	4.6	

Z Less than \$500,000 or .05 percent. ¹ Includes areas not shown separately. ² Includes commodities not shown separately. ³ Includes data for Belgium, Luxembourg, Denmark, France, and Ireland. As of Jan. 1, 1973, United Kingdom, Denmark, and Ireland became members of EEC. For consistency, data for all years are shown on same basis.

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

NO. 1249. U.S. SALES AND DONATIONS UNDER FOOD FOR PEACE (PUBLIC LAW 480) PROGRAMS,
TOTAL, 1954 TO 1979 AND BY COUNTRY, 1974 TO 1979

[In millions of dollars. For years ending June 30, except beginning 1977, ending Sept. 30]

TITLE AND PROGRAM	Total, 1954-1979										
	1970	1972	1973	1974	1975	1976	1977	1978	1979		
Total	28,857	1,142	1,223	1,119	973	1,328	1,300	1,193	1,228	1,084	
Title I sales (loans) ¹	18,030	711	746	724	577	868	902	735	767	543	
Repayable in dollars.....	8,199	485	683	724	577	868	902	735	767	543	
Repayable in foreign currencies.....	9,831	226	63	-	-	-	-	-	-	-	
Title II donations	10,827	432	477	394	396	461	398	458	461	541	
Voluntary relief agencies.....	6,571	181	197	177	196	266	299	326	319	374	
Emergency relief and other ²	4,256	250	280	217	200	194	99	132	143	167	

REGION AND COUNTRY	1974		1975		1976		1977		1978		1979	
	Sales	Donations	Sales	Donations	Sales	Donations	Sales	Donations	Sales	Donations	Sales	Donations
Total	577.1	396.2	667.5	460.6	902.0	397.9	735.3	458.4	767.4	461.1	543.0	540.4
Near East and South Asia ³	104.2	135.7	603.8	163.6	622.5	125.7	398.4	156.0	413.7	162.3	198.1	218.6
Bangladesh.....	48.2	2.7	237.3	4.5	180.7	2.5	63.8	19.3	78.0	20.5	66.1	29.0
Egypt.....	9.5	3.3	104.5	12.8	201.7	4.4	196.8	11.7	179.7	12.5	27.4	22.4
India.....	-	71.2	121.6	106.1	78.9	102.4	24.7	101.3	26.4	109.8	-	137.6
Israel.....	-	1.5	8.6	-	14.4	-	7.0	-	6.8	-	5.1	-
Jordan.....	8.2	3.1	6.4	5.2	11.6	3.9	9.8	3.8	6.0	3.9	5.1	2.7
Lebanon.....	-	5.7	-	2.9	-	.1	6.8	3.9	7.6	4.4	-	4.4
Pakistan.....	32.4	10.1	79.5	5.4	94.8	2.1	35.3	2.0	56.4	1.3	38.0	3.2
Sri Lanka.....	5.9	2.6	24.5	5.4	22.0	4.1	39.9	4.0	34.4	3.4	16.3	4.6
Syria.....	-	-	21.4	.2	18.4	-	14.3	5.4	13.3	2.0	18.1	2.7
Yemen Arab Rep.....	-	1.4	-	3.4	-	2.6	-	1.1	-	.2	-	.3
East Asia ³	454.8	365.5	180.7	36.1	167.4	26.1	172.3	43.5	183.7	23.7	135.7	24.4
Kampuchea.....	182.6	(2)	91.5	2.9	-	-	-	-	-	-	-	-
Indonesia.....	-	11.2	34.8	11.5	50.6	5.9	85.3	6.4	115.4	7.3	68.7	7.5
Korea, Rep. of.....	-	7.2	8.7	5.7	116.8	.3	75.1	-	56.3	-	38.0	-
Philippines.....	3.4	12.6	-	10.8	-	19.0	11.9	37.0	12.0	15.1	9.0	14.8
Vietnam ⁴	268.8	1.0	45.7	3.9	-	.8	-	-	-	-	-	-
Africa ³	7.8	133.4	16.2	118.8	39.4	100.5	57.2	97.8	73.8	133.9	99.9	122.6
Algeria.....	-	-	-	4.6	-	8.1	-	5.4	-	4.1	-	.6
Botswana.....	-	2.9	-	2.6	-	2.6	-	2.5	-	3.0	-	2.6
Chad.....	-	6.2	-	.3	-	.5	-	5.3	-	6.8	-	6.2
Ethiopia.....	-	13.9	-	5.2	3.4	3.8	-	4.6	-	5.0	-	12.6
Ghana.....	-	2.1	-	2.8	-	3.9	-	6.5	-	3.0	9.5	5.1
Guinea.....	5.0	.7	8.6	2.4	5.2	1.2	.7	.4	5.2	6.6	5.7	-
Lesotho.....	-	3.1	-	3.6	-	5.7	-	4.4	-	3.6	-	5.5
Mali.....	-	16.0	-	8.9	-	2.2	-	(2)	-	5.3	-	1.4
Mauritania.....	-	8.5	-	2.4	-	2.3	-	1.7	-	2.9	-	1.7
Morocco.....	-	17.0	-	12.7	11.8	17.2	8.0	15.1	8.8	15.7	9.7	11.2
Niger.....	-	20.3	-	7.8	-	3.5	-	.4	-	2.8	-	.1
Senegal.....	-	7.9	-	2.1	-	2.3	-	2.9	-	11.2	-	5.9
Sudan.....	2.8	2.2	-	8.2	-	1.5	4.6	1.8	9.8	2.5	19.0	1.8
Tanzania.....	-	2.6	7.6	16.0	4.3	19.6	7.6	10.3	6.2	1.8	-	2.4
Tunisia.....	-	6.9	-	10.1	2.3	5.6	6.9	5.1	9.0	8.6	9.6	6.8
Upper Volta.....	-	8.2	-	3.6	-	3.0	-	8.1	-	8.3	-	9.6
Zaire.....	-	.5	-	.4	12.4	.2	22.7	.1	18.0	.5	17.0	4.4
Zambia.....	-	.1	-	.2	-	.1	5.4	.2	8.5	(2)	10.0	3.0
Latin America ³	10.2	40.3	66.8	61.0	53.6	83.8	40.9	71.8	58.2	47.0	71.3	66.9
Bolivia.....	6.4	1.9	-	5.1	-	6.2	-	6.7	10.8	5.7	12.0	7.0
Brazil.....	-	6.2	-	8.4	-	.7	-	1.3	-	.1	-	.6
Chile.....	-	3.2	57.8	4.6	46.6	10.2	14.3	17.2	-	5.6	-	9.0
Colombia.....	3.0	7.1	-	11.5	-	11.9	-	5.3	-	2.6	-	1.6
Dominican Rep.....	-	4.2	-	5.5	-	11.4	2.5	9.4	-	3.9	13.9	6.8
Ecuador.....	-	3.3	-	3.4	-	2.1	-	1.3	-	2.4	-	2.7
Guatemala.....	-	1.2	-	3.4	-	12.5	-	4.5	-	4.6	-	5.3
Haiti.....	-	2.0	2.3	3.3	4.9	9.0	10.7	8.6	10.5	8.0	8.6	6.8
Jamaica.....	.8	1.0	1.4	.2	-	.1	13.4	(2)	10.0	.5	10.0	.2
Peru.....	-	3.7	-	6.4	-	8.7	-	5.3	25.0	6.9	20.0	15.3
Europe	-	.4	-	.1	19.1	-	66.5	.4	38.0	-	38.0	-
Portugal.....	-	-	-	-	19.1	-	66.5	-	38.0	-	38.0	-
All other ⁵	-	49.9	-	81.0	-	61.8	-	88.7	-	94.3	-	107.8

- Represents zero. Z Less than \$50,000. ¹ Includes Title III, Food For Development program. ² Includes economic development and world food programs. ³ Includes countries not shown separately. ⁴ Data cover aid to former government of South Vietnam. ⁵ Includes undistributed transportation cost.

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

**NO. 1250. AGRICULTURAL EXPORTS UNDER SPECIFIED GOVERNMENT-FINANCED PROGRAMS—
VALUE, BY SELECTED COMMODITIES: 1960 TO 1979**

[In millions of dollars, except percent. Includes Puerto Rico]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Agricultural exports¹	4,832	6,229	7,259	17,680	21,999	21,864	22,996	23,657	29,384	34,745
Outside Government programs ^{1,2}	3,371	4,880	6,226	16,812	21,140	20,456	21,555	22,185	27,813	33,252
Under Government programs ^{1,3}	1,461	1,349	1,033	868	859	1,428	1,441	1,472	1,571	1,493
Percent of total.....	30.2	21.7	14.2	4.9	3.9	6.5	6.3	6.2	5.3	4.3
Wheat.....	638.4	739.0	313.3	218.7	127.6	556.6	478.5	374.6	426.8	476.2
Wheat flour.....	118.4	87.5	86.2	41.8	78.5	68.1	94.9	108.5	138.1	167.1
Corn.....	65.5	56.0	25.5	47.6	21.4	14.6	108.1	213.2	207.8	181.8
Grain sorghums.....	22.2	20.4	26.2	46.1	46.2	4.0	10.6	6.4	19.7	9.0
Rice.....	86.5	72.1	171.3	210.8	292.0	311.6	224.4	144.5	175.6	160.3
Cotton.....	230.4	114.6	115.4	81.6	30.5	32.6	28.1	17.8	15.2	17.6
Soybean oil.....	72.2	109.6	92.2	60.8	84.8	36.1	105.7	99.1	157.0	143.7
Milk, nonfat, dried.....	40.7	58.8	91.4	3.1	-	60.7	48.0	81.0	32.1	19.0

- Represents zero. ¹ Sources of values for Government-financed programs are different from those for total exports; therefore, not fully comparable in regard to valuation, shipping period, etc. Entries for "Outside Government programs" are the residuals of the other two series. ² Exports outside specified Government-financed programs include, in addition to unassisted commercial transactions, shipments of some commodities with governmental assistance in the form of (a) charter for overseas procurement for other U.S. agencies, (b) short-term credits extended by the Commodity Credit Corporation and the Export-Import Bank, (c) sales of Government-owned commodities below domestic market prices, and (d) export payments in cash or in kind through 1974. ³ Includes commodities not shown separately.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. In *Agricultural Statistics*, annual, and *Foreign Agricultural Trade of the United States*, monthly.

NO. 1251. SELECTED FARM PRODUCTS—PRODUCTION AND EXPORTS: 1965 TO 1978

ITEM	Unit	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, prel.
Wheat: Production.....	Mil. bu.....	1,316	1,352	1,546	1,711	1,782	2,122	2,142	2,036	1,798	2,142
Exports ¹	Mil. bu.....	852	741	1,135	1,217	1,018	1,173	950	1,124	1,194	1,325
Percent of production.....	Percent.....	64.7	54.8	73.4	71.1	57.1	55.3	44.4	55.2	66.4	61.9
Corn for grain: production.....	Mil. bu.....	4,103	4,152	5,580	5,671	4,701	5,829	6,266	6,425	7,087	7,764
Exports ¹	Mil. bu.....	687	517	1,258	1,243	1,149	1,711	1,684	1,948	2,133	2,400
Percent of production.....	Percent.....	16.7	12.5	22.5	21.9	24.4	29.4	26.9	30.3	30.1	30.9
Soybeans, for beans: Production.....	Mil. bu.....	846	1,127	1,271	1,548	1,216	1,547	1,288	1,762	1,870	2,218
Exports ¹	Mil. bu.....	251	434	479	539	421	555	564	700	753	820
Percent of production.....	Percent.....	29.7	38.5	37.7	34.8	34.6	35.9	43.8	39.7	40.2	36.1
Cotton: Production.....	Mil. bales ³	14.9	10.2	13.7	13.0	11.5	8.3	10.6	14.4	10.9	14.6
Exports ¹	Mil. bales ³	3.0	3.9	5.3	6.1	3.9	3.3	4.8	5.5	6.2	9.2
Percent of production.....	Percent.....	20.1	38.2	38.7	46.9	33.9	39.8	45.3	38.2	56.9	63.1
Tobacco: Production ⁴	Mil. lb.....	1,855	1,906	1,749	1,742	1,990	2,182	2,136	1,913	2,024	1,527
Exports ¹	Mil. lb.....	538	639	639	732	653	654	678	693	765	690
Percent of production.....	Percent.....	29.0	33.5	36.5	42.0	32.8	30.0	31.6	36.2	37.8	44.5
Fats and oils: Production ⁵	Bil. lb.....	20.5	25.0	25.3	24.6	26.8	23.6	27.8	27.6	30.9	37.9
Exports ¹	Bil. lb.....	7.5	10.2	10.5	10.5	11.8	9.6	11.6	13.0	14.8	17.1
Percent of production.....	Percent.....	36.4	40.6	41.3	42.7	43.9	40.6	41.7	47.3	47.9	45.0

¹ Represents marketing year for each product. ² Based on inspections for export. ³ 480 lb. net weight bales.

⁴ Farm sales weight. ⁵ Production from domestic materials.

Source: U.S. Dept. of Agriculture, Economics, Statistic, and Cooperatives Service. In *Agricultural Statistics*, annual.

NO. 1252. ACREAGES OF CROPS HARVESTED FOR SPECIFIED PURPOSES: 1960 TO 1979

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

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979 ¹
Crops harvested²	Mil. acres	324	298	293	294	321	328	336	337	344	337	348
Domestic use ³	Mil. acres.....	260	222	221	203	225	229	236	240	232	224	232
Per capita ⁴	Acres.....	1.41	1.14	1.08	.97	1.07	1.08	1.10	1.12	1.07	1.02	1.05
Exports.....	Mil. acres.....	64	76	72	91	96	99	100	97	112	113	116
Percent of total.....	Percent.....	19.8	25.5	24.6	31.0	29.9	30.2	29.8	28.8	32.6	33.5	33.3
Crop failure	Mil. acres	6	6	5	7	5	8	6	9	9	7	7

¹ Preliminary. ² Area in principal crops harvested as reported by Economics, Statistics, and Cooperatives Service plus acreage in vegetables, fruits, tree nuts, and farm gardens. ³ Includes feed for horses and mules. ⁴ Based on Bureau of the Census estimated total population, including armed forces overseas, as of July 1.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. *Changes in Farm Production and Efficiency*, annual.

NO. 1253. PRINCIPAL CROPS—ACREAGE, PRODUCTION, AND VALUE: 1961 TO 1979

(Acreage, production, and yield of all crops revised on basis of census data. See *Historical Statistics, Colonial Times to 1970*, series K 506-563, for acreage harvested, production, and price data for all crops listed except sorghums)

ITEM	Unit	1961-1965, avg.	1966-1970, avg.	1970	1973	1974	1975	1976	1977	1978	1979, prel.	
Corn for grain:												
Acreage harvested.....	1,000 acres.....	56,670	57,121	57,358	62,143	65,405	67,505	71,300	70,872	70,275	70,984	
Production.....	Mil. bu.....	3,762	4,463	4,152	5,671	4,701	5,829	6,266	6,425	7,087	7,764	
Farm value ¹	Mil. dol.....	4,251	5,194	5,515	14,463	14,232	14,789	13,472	12,944	15,875	18,569	
Yield per acre.....	Bu.....	66.4	78.1	72.4	91.3	71.9	86.3	87.9	90.7	100.8	109.4	
Price ²	Dol. per bu.....	1.13	1.16	1.33	2.55	3.02	2.54	2.15	2.02	2.25	2.41	
Soybean for beans:												
Acreage harvested.....	1,000 acres.....	29,694	40,265	42,249	55,667	51,341	53,579	49,358	57,612	63,343	70,530	
Production.....	Mil. bu.....	719	1,054	1,127	1,548	1,216	1,547	1,288	1,782	1,870	2,268	
Farm value ¹	Mil. dol.....	1,770	2,711	3,215	8,790	8,071	7,618	8,769	10,352	12,459	14,039	
Yield per acre.....	Bu.....	24.2	26.2	26.7	27.8	23.7	28.9	26.1	30.6	29.5	32.2	
Price ²	Dol. per bu.....	2.46	2.57	2.85	5.68	6.64	4.92	6.81	5.88	6.66	6.19	
Wheat:												
Acreage harvested.....	1,000 acres.....	48,017	50,688	43,564	54,148	65,368	69,391	70,771	66,461	56,942	62,600	
Production.....	Mil. bu.....	1,214	1,433	1,352	1,711	1,782	2,122	2,142	2,036	1,798	2,142	
Farm value ¹	Mil. dol.....	2,027	1,950	1,802	6,745	7,287	7,535	5,851	4,743	5,349	8,175	
Yield per acre.....	Bu.....	25.3	28.3	31.0	31.6	27.3	30.6	30.3	30.6	31.6	34.2	
Price ²	Dol. per bu.....	1.67	1.36	1.33	3.95	4.09	3.56	2.73	2.33	2.98	3.82	
Hay:												
Acreage harvested.....	1,000 acres.....	67,248	61,953	61,467	61,828	60,195	61,324	60,311	60,658	61,515	61,162	
Production.....	Mil. tons ³	120	125	127	134	126	132	120	131	142	146	
Farm value ¹	Mil. dol.....	2,680	2,918	3,076	5,004	5,791	6,449	6,811	6,782	6,573	7,324	
Yield per acre.....	Short tons.....	1.79	2.01	2.07	2.17	2.10	2.16	1.99	2.16	2.31	2.39	
Price ²	Dol. per ton.....	22.30	23.40	26.10	41.60	50.90	52.20	60.30	54.00	49.80	59.70	
Cotton:												
Acreage harvested.....	1,000 acres.....	14,616	9,983	11,155	11,970	12,547	8,796	10,914	13,275	12,370	12,818	
Production ⁴	Mil. bales ⁵	14.9	9.6	10.2	13.0	11.5	8.3	10.6	14.4	10.9	14.6	
Farm value ¹	Mil. dol.....	2,312	1,068	1,122	2,780	2,374	2,044	3,255	3,615	3,045	4,393	
Yield per acre.....	Lb.....	510	463	438	520	442	453	465	520	421	548	
Price ²	Cents per lb.....	31.0	23.1	22.0	44.6	42.9	51.3	64.1	52.3	58.4	62.6	
Tobacco:												
Acreage harvested.....	1,000 acres.....	1,126	926	898	887	963	1,066	1,045	958	948	826	
Production.....	Mil. lb.....	2,160	1,854	1,905	1,742	1,990	2,182	2,136	1,913	2,024	1,531	
Farm value ¹	Mil. dol.....	1,311	1,288	1,389	1,569	2,160	2,236	2,404	2,269	2,679	2,160	
Yield per acre.....	Lb.....	1,919	2,004	2,122	1,965	2,067	2,008	2,045	1,997	2,135	1,853	
Price ²	Dol. per lb.....	.61	.69	.73	.90	1.09	1.03	1.13	1.19	1.32	1.41	
Sorghums for grain:												
Acreage harvested.....	1,000 acres.....	12,131	13,739	13,568	15,700	13,809	15,355	14,723	14,092	13,561	12,949	
Production.....	Mil. bu.....	548	723	683	923	623	753	720	793	748	814	
Farm value ¹	Mil. dol.....	548	743	780	1,978	1,722	1,775	1,450	1,434	1,502	1,885	
Yield per acre.....	Bu.....	45.1	52.6	50.4	58.8	45.1	49.0	48.9	56.3	55.1	62.9	
Price ²	Dol. per bu.....	1.00	1.03	1.14	2.14	2.77	2.37	2.03	1.82	2.02	2.33	
Rice, rough:												
Acreage harvested.....	1,000 acres.....	1,742	2,047	1,815	2,170	2,531	2,818	2,480	2,249	2,970	2,979	
Production.....	Mil. cwt.....	68	91	84	93	112	128	116	99	133	137	
Farm value ¹	Mil. dol.....	340	455	433	1,280	1,261	1,072	811	941	1,087	1,503	
Yield per acre.....	Lb.....	3,903	4,439	4,618	4,274	4,440	4,558	4,663	4,412	4,484	4,588	
Price ²	Dol. per cwt.....	5.00	5.01	5.17	13.80	11.20	8.35	7.62	9.49	8.16	11.00	
Potatoes:												
Acreage harvested.....	1,000 acres.....	1,361	1,428	1,421	1,307	1,392	1,264	1,375	1,359	1,371	1,279	
Production.....	Mil. cwt.....	272	309	326	300	342	322	358	355	365	348	
Farm value ¹	Mil. dol.....	580	652	715	1,472	1,355	1,445	1,283	1,254	1,222	1,204	
Yield per acre.....	Cwt.....	200	217	229	230	246	255	260	261	266	272	
Price ²	Dol. per cwt.....	2.13	2.11	2.21	4.90	4.01	4.48	3.59	3.55	3.38	3.47	
Oats:												
Acreage harvested.....	1,000 acres.....	21,170	17,652	18,594	13,770	12,608	13,092	11,946	13,452	11,426	9,831	
Production.....	Mil. bu.....	954	686	915	659	601	642	546	751	596	534	
Farm value ¹	Mil. dol.....	604	560	582	775	912	928	845	825	706	717	
Yield per acre.....	Bu.....	45.1	50.2	49.2	47.9	47.6	49.0	45.7	55.8	52.2	54.4	
Price ²	Dol. per bu.....	.63	.63	.62	1.18	1.53	1.46	1.56	1.10	1.20	1.36	
Sugar beets:												
Acreage harvested.....	1,000 acres.....	1,212	1,329	1,413	1,218	1,213	1,517	1,479	1,216	1,269	1,124	
Production.....	Mil. tons ³	20.7	23.8	26.4	24.5	22.1	29.7	29.4	25.0	25.6	22.1	
Farm value ¹	Mil. dol.....	248	323	392	726	1,036	821	617	604	650	(NA)	
Yield per acre.....	Short tons.....	17.1	17.9	18.7	20.1	18.2	19.6	19.9	20.6	20.3	19.6	
Price ²	Dol. per ton.....	11.98	13.57	14.80	29.60	46.80	27.60	21.00	24.20	25.20	(NA)	

NA Not available. ¹ Values are based on season average prices; see footnote 2. ² Season average price received by farmers. State prices weighted by sales to obtain U.S. price. For certain years, prices for wheat, rice, corn for grain, grain sorghums, oats, soybeans, and cotton include an allowance for unredeemed loans and purchase agreement deliveries. ³ In short tons. ⁴ Prices are for hay sold baled. ⁵ 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. ⁶ Bales of 500 pounds, gross weight. Beginning 1970, bales of 480 lb., net weight. ⁷ Based on reported price of grain sorghums.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. In *Agricultural Statistics*, annual. *Crop Production*, annual; and *Field Crops—Production, Disposition, Value*, annual.

No. 1254. CROPS—ACREAGE AND VALUE, 1977 TO 1979, AND ORDER OF VALUE, 1978, BY STATES

STATE	ACREAGE HARVESTED (1,000)			FARM VALUE (mil. dol.)			Crops in order of value, 1978	
	1977	1978	1979 prel.	1977	1978	1979, prel.		
						Value		Rank
U.S.¹	332,367	325,427	336,643	57,256	64,483	74,342	(x) Corn, soybeans, hay, wheat.	
Ala.....	3,497	3,919	4,161	546	685	797	31 Soybeans, peanuts, cotton lint, corn.	
Ariz.....	1,183	1,213	1,207	663	726	843	29 Cotton lint, lettuce, hay, wheat.	
Ark.....	8,190	7,907	8,343	1,460	1,545	1,768	14 Soybeans, rice, cotton lint, hay.	
Calif.....	6,134	6,426	6,510	5,938	6,226	7,775	1 Grapes, cotton lint, tomatoes, hay.	
Colo.....	5,832	5,871	6,107	613	680	876	28 Corn, wheat, hay, sugarbeets.	
Conn.....	140	143	140	47	53	67	² 45 Tobacco, hay, apples, potatoes.	
Del.....	514	511	530	81	117	127	41 Soybeans, corn, potatoes, mushrooms.	
Fla.....	1,358	1,487	1,520	1,627	2,109	2,247	11 Oranges, sugarcane, ³ tomatoes, grapefruit.	
Ga.....	3,777	4,868	5,348	834	1,157	1,398	20 Peanuts, soybeans, corn, pecans.	
Hawaii.....	104	106	109	28	31	38	47 (NA).	
Idaho.....	4,326	4,507	4,493	868	992	1,061	24 Wheat, potatoes, hay, barley.	
Ill.....	23,441	22,709	23,442	4,887	5,226	6,191	2 Corn, soybeans, hay, wheat.	
Ind.....	12,664	12,211	12,515	2,402	2,715	3,008	8 Corn, soybeans, hay, wheat.	
Iowa.....	24,559	24,438	24,984	4,124	5,544	6,169	3 Corn, soybeans, hay, oats.	
Kans.....	22,490	20,596	21,009	1,936	2,082	3,091	7 Wheat, sorghum, corn, hay.	
Ky.....	5,098	5,056	5,231	1,277	1,374	1,391	21 Tobacco, soybeans, corn, hay.	
La.....	4,564	4,723	4,974	918	976	1,087	23 Soybeans, rice, cotton, sugarcane. ³	
Maine.....	476	418	415	127	150	164	40 Potatoes, hay, wheat, apples.	
Md.....	1,469	1,526	1,572	273	351	375	35 Corn, soybeans, hay, tobacco.	
Mass.....	160	161	159	67	84	85	43 Cranberries, hay, apples, tobacco.	
Mich.....	6,582	6,536	6,907	1,172	1,312	1,508	16 Corn, hay, soybeans, dry edible beans.	
Minn.....	21,748	21,057	21,863	3,209	3,517	3,460	5 Corn, soybeans, hay, wheat.	
Miss.....	6,196	6,167	6,389	1,086	1,187	1,439	19 Soybeans, cotton lint, rice, hay.	
Mo.....	14,171	13,384	14,345	1,925	2,085	2,462	10 Soybeans, corn, hay, sorghum.	
Mont.....	9,021	8,990	8,828	667	758	765	32 Wheat, hay, barley, sugarbeets.	
Nebr.....	18,285	17,353	17,858	2,387	2,791	3,224	6 Corn, soybeans, hay, sorghum.	
Nev.....	489	509	530	80	80	109	42 Hay, potatoes, alfalfa seed, wheat.	
N.H.....	113	114	116	21	22	23	48 Hay, apples, maple sirup.	
N.J.....	531	542	556	181	221	231	37 Soybeans, hay, corn, peaches.	
N. Mex.....	1,325	1,185	1,305	221	218	253	36 Hay, cotton lint, sorghum, corn.	
N.Y.....	4,233	4,271	4,309	734	827	881	27 Hay, corn, apples, potatoes.	
N.C.....	4,734	4,918	5,243	1,517	2,040	1,848	13 Tobacco, corn, soybeans, peanuts.	
N. Dak.....	20,264	20,452	20,881	1,321	1,839	1,991	12 Wheat, sunflower seed, hay, sugarbeets.	
Ohio.....	10,837	10,701	10,995	1,991	2,257	2,554	9 Corn, soybeans, hay, wheat.	
Okla.....	9,873	9,110	9,600	897	885	1,441	18 Wheat, hay, cotton lint, peanuts.	
Oreg.....	2,647	2,653	2,641	683	764	841	30 Wheat, hay, potatoes, peppermint.	
Pa.....	4,383	4,366	4,454	884	947	956	26 Corn, hay, mushrooms, apples.	
R.I.....	16	16	17	5	7	6	49 Potatoes, hay, apples.	
S.C.....	2,750	2,745	2,871	526	681	724	33 Soybeans, tobacco, corn, peaches.	
S. Dak.....	14,937	15,175	15,491	940	1,075	1,302	22 Corn, hay, wheat, oats.	
Tenn.....	5,064	5,093	5,276	765	900	967	25 Soybeans, tobacco, corn, hay.	
Tex.....	23,305	20,498	22,421	3,564	3,237	4,549	4 Cotton lint, sorghum, corn, rice.	
Utah.....	1,008	1,079	1,100	168	169	204	38 Hay, wheat, barley, sugarbeets.	
Vt.....	543	549	556	58	70	67	² 45 Hay, apples, maple sirup, potatoes.	
Va.....	2,794	2,768	2,827	520	682	679	34 Tobacco, corn, hay, soybeans.	
Wash.....	4,668	4,644	4,561	1,192	1,462	1,481	17 Wheat, apples, potatoes, hay.	
W. Va.....	714	719	714	78	91	81	44 Hay, apples, corn, peaches.	
Wis.....	9,387	9,181	9,376	1,598	1,345	1,547	15 Corn, hay, potatoes, oats.	
Wyo.....	1,773	1,856	1,844	150	191	191	39 Hay, sugarbeets, wheat, barley.	

NA Not available. X Not applicable. ¹ Excludes Alaska. ² Conn. and Vt. share the rank of 45. In order to have the lowest rank equal to the number of States shown, the number 46 is omitted. ³ For sugar and seed.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives' Service, *Crop Production; Commercial Vegetables; Field Seeds; and Crop Values*; all annual.

NO. 1255. CORN—SUPPLY, DISAPPEARANCE, AND PRICE SUPPORT: 1960 TO 1979

[In millions, of bushels, except as noted. For years beginning October]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979 prel.
Supply, total	5,695	5,251	5,161	6,708	6,380	5,187	6,192	6,668	7,312	8,192	9,051
Production.....	3,907	4,103	4,152	5,580	5,671	4,701	5,829	6,266	6,425	7,087	7,764
Imports ¹	1	1	4	1	1	2	2	3	3	1	1
Carryover stocks, Oct. 1.....	1,787	1,147	1,005	1,129	708	484	361	399	884	1,104	1,286
Disappearance, total	3,678	4,409	4,494	6,000	5,896	4,826	5,793	5,784	6,208	6,906	7,365
Domestic.....	3,387	3,722	3,978	4,742	4,653	3,677	4,082	4,100	4,280	4,773	4,965
Livestock feed.....	3,092	3,362	3,593	4,313	4,205	3,226	3,592	3,587	3,709	4,198	4,350
Food, industry, and seed.....	294	360	385	429	448	451	490	513	531	575	615
Exports ¹	292	687	517	1,258	1,243	1,149	1,711	1,684	1,948	2,133	2,400
Price support operations: ²											
National avg. loan rate (dol. per bu.).....	1.06	1.05	1.05	1.05	1.05	1.10	1.10	1.50	2.00	2.00	2.10
Quantity placed under loan.....	637	215	324	420	261	77	147	276	1,159	641	750
Percent of production.....	16	5	8	8	5	2	3	4	18	9	10
Support or target price (dol. per bu.) ³	1.06	1.25	1.35	1.41	1.64	1.38	1.38	1.57	2.00	2.10	2.20

¹ Includes grain equivalent of corn products. ² See text, p. 685. ³ Guaranteed on normal production from part or all of a participant's base or allotment acreage.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Feed Situation*, quarterly, and *Agricultural Supply and Demand Estimates*, annual. Also in *Agricultural Statistics*, annual.

NO. 1256. CORN FOR GRAIN—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1977 TO 1979

[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			FARM VALUE (mil. dol.)			PRICE ² (dol. per bu.)	
	1977	1978	1979, prel.	1977	1978	1979, prel.	1977	1978	1979, prel.	1977	1978	1979, prel.	1978	1979, prel.
Total	70,872	70,275	70,984	91	101	109	6,425	7,087	7,764	12,944	15,875	18,569	2.25	2.41
Ala.....	375	544	502	29	50	61	11	27	31	23	64	89	2.35	2.90
Calif.....	247	281	260	116	126	117	29	35	30	68	102	97	2.88	3.20
Colo.....	695	675	725	116	110	127	81	74	92	156	168	221	2.26	2.40
Del.....	185	175	167	56	96	102	10	17	17	22	39	48	2.33	2.80
Fla.....	299	370	360	35	52	53	10	19	19	17	40	54	2.10	2.85
Ga.....	1,000	1,500	1,550	24	50	65	24	75	101	50	185	287	2.46	2.85
Ill.....	11,080	10,730	10,610	105	111	128	1,163	1,191	1,358	2,432	2,739	3,395	2.30	2.50
Ind.....	6,210	5,900	5,930	102	108	112	633	637	664	1,248	1,421	1,660	2.23	2.50
Iowa.....	12,700	12,700	12,800	86	115	127	1,092	1,461	1,626	2,173	3,169	3,739	2.17	2.30
Kans.....	1,660	1,500	1,470	96	102	117	161	153	172	321	359	430	2.35	2.50
Ky.....	1,470	1,410	1,300	90	85	102	132	120	133	290	288	332	2.40	2.50
Md.....	600	590	595	72	97	99	43	57	59	90	136	165	2.38	2.80
Mich.....	2,320	2,400	2,500	65	81	95	197	194	238	379	431	534	2.22	2.25
Minn.....	6,000	6,190	6,060	100	104	100	600	644	606	1,140	1,339	1,212	2.08	2.00
Mo.....	2,650	2,200	2,220	76	87	103	201	191	229	413	432	537	2.26	2.35
Nebr.....	6,550	6,550	6,900	99	113	115	648	740	794	1,277	1,643	1,825	2.22	2.30
N.Y.....	640	600	650	80	79	85	51	47	55	113	116	146	2.44	2.65
N.C.....	1,740	1,600	1,690	51	76	89	122	128	178	292	360	240	2.40	2.80
N. Dak.....	237	253	290	73	79	76	17	20	22	34	41	50	2.06	2.25
Ohio.....	3,620	3,610	3,630	105	105	115	380	379	418	764	864	1,029	2.29	2.45
Pa.....	1,160	1,190	1,215	92	95	95	107	113	115	248	303	323	2.68	2.80
S.C.....	690	550	509	36	55	80	25	30	41	47	74	112	2.45	2.75
S. Dak.....	2,150	2,560	2,850	59	67	74	127	172	211	232	328	401	1.91	1.90
Tenn.....	730	660	620	65	66	83	47	44	51	100	105	144	2.40	2.80
Tex.....	1,650	1,440	1,260	98	100	105	162	144	132	349	353	370	2.45	2.80
Va.....	560	615	615	55	82	83	31	50	51	65	119	146	2.35	2.85
Wis.....	2,800	2,750	2,980	104	98	103	291	270	306	585	577	691	2.14	2.25
Other.....	834	732	726	73	83	90	61	61	65	131	148	178	(x)	(x)

X Not applicable. ¹ 56 pounds per bushel. ² Season average price received by farmers. State prices weighted by sales to obtain U.S. prices. Includes an allowance for unredeemed loan and purchase agreement deliveries valued at average rate.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual, and *Field Crops—Production, Disposition, Value*, annual.

NO. 1257. WHEAT—Supply, Disappearance, and Price Support: 1960 TO 1979

[In millions of 60-pound bushels, except as noted. For years beginning June 1. For explanation of price support operations, see text, p. 685. See *Historical Statistics, Colonial Times to 1970*, series K 507 and 509-510, for production and stocks]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, prel.
Supply	2,747	2,238	2,336	2,531	2,311	2,125	2,559	2,810	3,150	2,976	3,069
Production.....	1,355	1,316	1,352	1,546	1,711	1,782	2,122	2,142	2,036	1,798	2,142
Imports ¹	8	1	1	1	3	3	2	3	2	1	2
Stocks, June 1, total.....	1,384	921	983	983	597	340	435	665	1,112	1,177	925
Disappearance	1,245	1,577	1,513	1,934	1,970	1,690	1,894	1,698	1,973	2,051	2,095
Domestic use.....	591	725	772	799	754	672	721	748	849	857	770
Food ²	496	518	517	530	544	544	589	588	586	592	600
Seed and feed ³	95	207	255	269	209	127	133	160	263	265	170
Exports ⁴	653	852	741	1,135	1,217	1,018	1,173	950	1,124	1,194	1,325
Price support operations:											
Support or target price per bu. ⁴	\$1.78	\$1.72	\$2.00	\$1.72	\$1.46	\$2.05	\$2.05	\$2.29	\$2.90	\$3.40	\$3.63
Quantity under support.....	424	173	254	167	60	37	52	49	591	254	(NA)
Percent of production.....	31.3	13.1	18.5	9.3	3.5	2.1	2.4	23.2	29.0	14.1	(NA)

NA Not available. ¹ Imports and exports include flour and other products expressed in wheat equivalent. Compiled from reports of the U.S. Bureau of the Census. ² Used for food in the U.S. Territories, and by the military. ³ Residual; approximates feed use and includes negligible quantities used for distilled spirits and beer. ⁴ Beginning 1974, target price on allotted production.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. In *Agricultural Statistics*, annual, and *Wheat Situation*, quarterly.

NO. 1258. WHEAT—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1977 TO 1979

[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) ²			PRODUCTION (mil. bushels) ²			FARM VALUE (mil. dol.)			PRICE ³ (dol. per bu.)	
	1977	1978	1979 ¹	1977	1978	1979 ¹	1977	1978	1979 ¹	1977	1978	1979 ¹	1978	1979 ¹
Total	66,461	56,942	62,600	31	32	34	2,036	1,798	2,142	4,743	5,349	6,175	2.98	3.82
Ariz.....	140	138	125	72	70	76	10.1	9.7	9.5	26.9	28.4	36.0	2.94	3.77
Ark.....	660	300	420	39	37	35	25.7	11.1	14.7	53.8	31.0	54.4	2.79	3.70
Calif.....	678	715	825	65	64	71	43.7	45.8	58.2	119.1	147.0	240.3	3.21	4.13
Colo.....	2,575	2,523	2,641	22	23	27	57.2	59.1	70.2	121.5	165.7	256.0	2.81	3.65
Ga.....	100	120	160	33	32	35	3.3	3.8	5.6	7.4	11.3	20.7	2.95	3.70
Idaho.....	1,190	1,295	1,470	43	58	50	50.7	74.7	74.1	133.7	233.2	261.1	3.12	3.52
Ill.....	1,570	930	1,300	43	38	43	67.5	35.3	55.9	138.4	107.1	223.6	3.03	4.00
Ind.....	1,240	815	945	45	39	47	55.8	31.8	44.4	114.9	96.6	177.7	3.04	4.00
Kans.....	12,100	10,200	10,800	29	30	38	344.9	306.0	410.4	772.5	884.3	1,539.0	2.89	3.75
Ky.....	274	195	290	37	35	38	10.1	6.8	11.0	21.3	21.5	44.1	3.15	4.00
Md.....	120	102	114	36	37	37	4.3	3.8	4.2	9.2	11.3	17.3	3.00	4.10
Mich.....	825	450	785	40	40	43	33.0	18.0	33.8	66.7	59.4	130.0	3.30	3.85
Minn.....	3,327	2,776	2,578	40	34	35	131.9	93.2	90.4	326.3	275.6	335.8	2.96	3.71
Miss.....	105	65	115	34	31	32	3.6	2.0	3.7	7.1	5.9	15.1	2.95	4.10
Mo.....	1,760	840	1,600	39	34	44	68.6	28.6	70.4	141.4	84.0	267.5	2.94	3.80
Mont.....	5,060	4,840	5,125	26	30	23	130.9	146.1	116.5	309.3	402.1	423.1	2.75	3.63
Nebr.....	2,950	2,550	2,550	35	32	34	103.3	81.6	86.7	229.2	227.7	320.8	2.79	3.70
N. Mex.....	425	306	398	22	18	22	9.1	5.5	8.8	19.9	15.7	35.0	2.85	4.00
N.Y.....	175	75	160	39	35	41	6.8	2.6	5.6	13.4	8.8	24.6	3.35	3.75
N.C.....	200	180	210	30	33	36	6.0	5.9	7.6	13.2	16.9	28.0	2.85	3.70
N. Dak.....	9,254	9,585	9,600	25	30	26	229.9	286.1	252.2	667.4	813.2	958.4	2.84	3.80
Ohio.....	1,540	1,125	1,320	47	39	48	72.4	43.9	63.4	158.5	141.3	259.8	3.22	4.10
Okla.....	6,500	5,400	5,700	27	27	38	175.5	145.8	216.6	407.2	441.8	855.6	3.03	3.95
Oreg.....	1,230	1,225	1,245	39	42	43	47.5	51.9	57.3	131.9	182.3	220.6	3.51	3.85
Pa.....	270	245	262	33	33	31	8.9	8.1	8.1	21.4	27.1	34.5	3.35	4.25
S. Dak.....	3,016	3,090	2,805	24	21	21	72.0	66.0	60.1	175.9	185.2	219.5	2.81	3.65
Tenn.....	280	220	295	36	35	34	10.1	7.7	10.0	22.7	22.3	38.1	2.90	3.80
Tex.....	4,700	2,700	4,600	25	20	30	117.5	54.0	138.0	252.6	158.2	538.2	2.93	3.90
Utah.....	204	223	250	30	30	27	4.7	6.7	6.7	11.5	19.9	24.2	2.98	3.61
Va.....	205	155	180	31	35	35	6.4	5.4	6.3	13.7	16.5	25.8	3.05	4.10
Wash.....	2,985	2,910	2,980	34	45	40	101.3	130.8	118.0	284.7	451.1	466.1	3.45	3.95
Wyo.....	281	294	287	20	26	22	5.6	7.6	6.4	12.1	20.8	22.9	2.73	3.60
Other.....	522	355	465	34	34	35	17.9	12.2	16.2	38.0	36.2	61.8	(X)	(X)

X Not applicable. ¹ Preliminary. ² 60 pounds per bushel. ³ See footnote 2, table 1256.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual, and *Field Crops—Production, Disposition, Value*, annual.

NO. 1259. SORGHUM GRAIN—SUPPLY, DISAPPEARANCE, AND PRICE SUPPORT: 1960 TO 1979

[In millions of bushels, except as noted. For years beginning Oct. For explanation of price supports, see p. 685]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, prel.
Total supply	1,201	1,239	927	943	996	684	788	771	884	939	973
Production	620	673	683	801	923	623	753	720	793	748	814
Carryover stocks	581	566	244	142	73	61	35	51	91	191	159
Disappearance	499	848	837	870	935	649	737	680	693	779	842
Domestic, total	428	582	693	658	701	437	508	434	480	573	567
Livestock feed	415	569	684	652	694	431	502	428	473	565	560
Exports	71	266	144	212	234	212	229	246	213	206	275
Price support operations:											
National avg. loan rate per cwt.	\$1.52	\$1.65	\$1.61	\$1.79	\$1.79	\$1.88	\$1.88	\$2.55	\$3.39	\$3.39	\$3.57
Placed under loan (mil. cwt)	113.6	59.4	17.1	16.7	13.2	2.2	5.4	12.5	121.7	51.6	34.0
Percent of production	33	16	4	4	3	1	1	3	27	12	7
Target price per cwt	\$1.52	\$2.00	\$2.14	\$2.39	\$2.61	\$2.34	\$2.34	\$2.66	\$4.07	\$4.07	\$4.18

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Feed Situation*, quarterly, and *Agricultural Supply and Demand Estimates*, periodic. Also in *Agricultural Statistics*, annual.

NO. 1260. RICE, ROUGH EQUIVALENT—SUPPLY, DISAPPEARANCE, AND PRICE SUPPORT: 1960 TO 1979

[In millions of hundredweight, except as noted. For years beginning August. Milled rice converted to a rough rice basis. See *Historical Statistics, Colonial Times to 1970*, series K 539, for production]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978 ¹	1979 ¹
Supply, total	67.0	84.6	101.7	97.4	98.1	120.3	135.5	152.6	139.8	160.6	168.3
Farm production	54.6	76.3	83.8	85.4	92.8	112.4	128.4	115.6	99.2	133.2	136.7
Beginning stocks	12.1	7.7	16.4	11.4	5.1	7.8	7.1	36.9	40.5	27.4	31.6
Imports	3	7	1.4	.5	.2	(z)	(z)	.1	.1	.1	—
Disappearance, total	56.4	74.2	80.9	89.8	87.5	110.5	96.8	108.3	110.5	124.9	133.5
Domestic	26.9	30.8	34.4	35.7	37.8	41.0	40.3	42.7	37.7	48.0	50.5
Food	19.9	23.4	25.1	25.1	26.1	28.6	27.7	29.2	23.5	32.6	34.2
Industry	4.9	4.7	6.8	7.7	8.1	8.4	9.1	10.3	9.9	11.1	11.9
Seed	2.1	2.7	2.5	3.0	3.6	4.0	3.5	3.2	4.3	4.3	4.4
Exports	29.5	43.3	246.5	54.0	49.7	69.5	56.5	65.6	72.8	76.9	83.0
Statistical discrepancy ²	+5	+2.2	+2.1	+2.5	+2.7	+2.7	+1.8	+3.8	+1.9	+4.1	—
Price support operations:											
Support or target price per cwt ⁴	\$4.42	\$4.50	\$4.86	\$5.27	\$6.07	\$7.54	\$8.52	\$8.25	\$8.25	\$8.53	\$9.05
Quantity under support	13.1	10.0	21.5	22.9	19.1	9.3	23.3	23.4	19.5	27.1	26.0
Percent of production	24.0	13.1	25.7	26.8	20.6	8.3	18.2	20.2	19.7	20.3	19.0

— Represents zero. Z Less than 50,000. ¹ Preliminary. ² Adjusted on basis of bills of lading presented to U.S. Dept. of Agriculture. ³ Results from losses in storage and handling and errors in estimation. ⁴ Represents target price on allotted production.Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual.

NO. 1261. POTATOES—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1977 TO 1979

[Excludes Alaska and Hawaii. 1979 preliminary. Price is season average received by farmers; State prices weighted by sales. See *Historical Statistics, Colonial Times to 1970*, series K 532-534, for U.S. acreage, production, price]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (cwt)			PRODUCTION (mil. cwt)			PRICE (dol. per cwt)			FARM VALUE (mil. dol.)		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
Total	1,359	1,371	1,279	261	266	272	355	365	348	3.55	3.38	3.47	1,254	1,222	1,204
Calif.	61	57	56	361	312	372	22	18	21	5.77	6.69	4.96	126	119	104
Colo.	43	48	46	261	272	298	11	13	13	2.88	2.34	3.01	33	30	40
Fla.	30	32	28	206	175	215	6	6	6	6.71	6.21	5.06	42	35	30
Idaho.	360	365	330	245	275	267	88	100	89	2.95	2.25	3.20	260	226	282
Maine	118	118	115	240	220	250	28	26	29	3.36	3.86	4.10	95	100	118
Mich.	40	42	41	257	239	235	10	10	10	4.14	4.57	4.29	42	45	41
Minn.	79	78	74	189	216	198	15	17	15	2.77	2.95	2.79	42	49	41
N.Y.	43	48	45	289	262	285	13	13	13	2.90	2.40	2.65	14	13	13
N. Dak.	135	128	114	160	175	160	22	22	18	3.94	4.49	4.36	50	57	57
Oreg.	60	68	63	426	421	402	26	29	26	2.70	2.60	2.80	58	59	51
Pa.	26	25	24	250	250	250	6	6	6	2.89	2.76	2.70	74	79	68
Wash.	110	109	103	460	465	475	51	51	49	4.70	4.85	4.85	30	30	29
Wis.	56	55	54	325	315	315	18	17	17	2.80	2.45	2.35	142	124	115
Other	184	181	171	185	178	194	34	32	33	3.95	4.13	4.00	71	72	68
										(x)	(x)	(x)	175	185	147

X Not applicable.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual, and *Crop Values*, annual.

NO. 1262. COTTON—SUMMARY: 1960 TO 1979

[In thousands of net weight 480 lb. bales, except as indicated. For years beginning Aug. 1. Excludes linters. Excludes Alaska, Hawaii, and Puerto Rico except for imports and exports. Production figures relate to crop of current calendar year and are compiled from reports of individual ginners. Price per pound is average price received by farmers. For stocks, see *Historical Statistics, Colonial Times to 1970*, series K 554-556]

YEARLY AVERAGE OR YEAR	PRODUCTION		Consumption ² (bales)	Net exports ² (bales)	Net imports ² (bales)	Beginning carry-over	Average price per pound of upland cotton ² (cents)	PRICE SUPPORT OPERATIONS ^{3,4}		
	Running bales ¹	Equivalent 480-lb. bales						Price per lb. ² (cents)	Total under support (bales)	Per-cent of production
1960-1964.....	14,779	14,794	8,676	5,062	134	9,232	31.2	32.8	7,044	48.8
1965-1969.....	10,557	10,571	8,920	3,586	98	11,358	23.7	32.6	3,917	37.5
1970-1974.....	11,511	11,777	7,513	4,528	45	4,267	33.3	37.6	1,932	16.8
1970.....	10,112	10,192	8,204	3,897	37	5,843	21.9	37.1	2,386	23.7
1972.....	13,269	13,704	7,769	5,311	34	3,258	27.2	35.9	1,910	14.5
1973.....	12,611	12,974	7,472	6,123	48	4,221	44.4	41.5	1,736	13.9
1974.....	11,328	11,540	5,860	3,926	34	3,808	42.7	38.0	2,420	21.5
1975.....	8,151	8,302	7,250	3,311	92	5,708	51.1	38.0	691	8.5
1976.....	10,347	10,581	6,674	4,784	38	3,681	63.8	43.2	941	9.2
1977.....	14,018	14,389	6,483	5,484	5	2,928	52.1	47.8	4,518	31.6
1978.....	10,549	10,856	6,352	6,180	4	5,347	58.1	52.0	1,524	14.2
1979, prel.....	14,262	14,629	6,506	9,229	15	3,958	61.2	57.7	1,700	11.7

¹ Round counted as half bales. ² Adjusted to cotton season. ³ Data from U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service. ⁴ American upland. ⁵ For 1960-63, support loan for middling 1-inch; 1964-73, support loan for middling 1-inch plus direct support payment; 1974-79, target price. For text on price supports, see p. 685.

Source: Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Cotton and Wool Statistics*, periodic.

NO. 1263. COTTON—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1977 TO 1979

[Cotton production excludes linters. Values shown are for marketing season or crop year and should not be confused with calendar-year income. See *Historical Statistics, Colonial Times to 1970*, series K 553-556 for U.S. totals]

STATE	ACREAGE HARVESTED (1,000)			YIELD PER ACRE (lb.)			BALES (480 lb. net wt.) (1,000)			FARM VALUE (mil. dol.)			FARM PRICE PER LB. ¹ (cents)		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
Total²	13,275	12,370	12,816	520	421	548	14,389	10,856	14,629	3,615	3,045	4,393	52.3	58.4	62.6
Ala.....	395	315	310	337	443	502	277	291	324	64	94	100	48.4	60.3	64.6
Ariz.....	557	572	618	978	941	1,046	1,135	1,122	1,347	316	318	446	58.0	59.0	69.0
Ark.....	930	760	530	534	417	549	1,035	650	606	262	190	198	52.7	60.1	64.7
Calif.....	1,390	1,455	1,635	963	640	1,000	2,790	1,940	3,408	750	595	1,145	56.0	63.9	70.0
Ga.....	170	115	150	232	463	486	82	111	152	20	32	46	51.8	60.2	63.7
La.....	540	510	465	583	450	712	656	478	690	162	138	212	51.5	60.0	64.0
Miss.....	1,360	1,150	1,030	581	575	670	1,645	1,378	1,437	415	397	437	52.5	60.0	63.3
Mo.....	258	182	137	437	496	550	235	188	157	60	55	47	53.4	60.6	62.2
N. Mex.....	137	123	141	605	446	380	173	114	112	47	36	38	56.2	65.2	70.1
N.C.....	83	42	45	307	514	459	53	45	43	13	14	13	50.5	65.4	64.7
Okla.....	520	585	580	402	291	432	436	355	522	98	92	149	46.6	53.9	59.5
S.C.....	153	98	109	342	562	511	109	115	116	28	35	36	54.1	62.7	65.5
Tenn.....	300	230	230	408	490	357	255	235	171	60	69	52	49.0	61.2	63.0
Tex.....	6,473	6,228	6,831	408	294	389	5,500	3,819	5,539	1,318	989	1,481	49.9	54.0	55.7

¹ Includes allowance for unredeemed loans in 1977 and 1978. For 1979, average price to Apr. 1, 1980, with no allowance for unredeemed loans. ² Includes States not shown separately.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual, and *Crop Values*, annual.

NO. 1264. TOBACCO—PRODUCTION, DISAPPEARANCE, AND STOCKS: 1961 TO 1979

[In millions of pounds. Flue-cured and cigar wrapper, crop year, July-June; all other types, October-September. Excludes Alaska, Hawaii, and Puerto Rico, except for imports and exports. Farm-sales-weight basis, except as noted. See *Historical Statistics, Colonial Times to 1970*, series K 562, for production]

ITEM	1961-1965, avg.	1966-1970, avg.	1971-1975, avg.	1970	1973	1974	1975	1976	1977	1978	1979
Production.....	2,161	1,854	1,875	1,906	1,742	1,990	2,182	2,136	1,913	2,024	1,531
Domestic disappearance ¹	1,468	1,340	1,308	1,278	1,353	1,288	1,290	1,229	1,205	1,193	1,185
Exports.....	563	650	650	639	732	653	654	678	693	765	² 680
Imports ³	170	220	329	219	274	300	391	366	322	376	415
Stocks, end of year ⁴	4,182	4,016	3,290	3,667	2,943	3,006	3,010	3,297	3,530	3,578	² 3,313

¹ U.S. tobacco only. ² Estimated. ³ Source: U.S. Bureau of the Census. Calendar year, declared weight; includes stems, trimmings, and scrap. ⁴ Marketing year.

Source: Except as noted, U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *The Tobacco Situation*, quarterly.

NO. 1265. TOBACCO—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1977 TO 1979

[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.)		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
	Total².....	958	948	826	1,997	2,135	1,853	1,913	2,024	1,531	1.19	1.32	1.41	2,269	2,679	2,160
Conn.....	4	3	3	1,606	1,547	1,539	6	5	5	4.21	4.72	5.74	24	23	28
Fla.....	12	11	10	2,094	2,100	2,240	25	22	22	1.23	1.44	1.35	30	32	30
Ga.....	65	61	53	2,075	2,060	1,905	135	126	101	1.15	1.43	1.41	155	179	142
Ind.....	7	7	6	2,400	2,350	1,950	17	16	12	1.20	1.31	1.45	20	20	17
Ky.....	197	195	174	2,297	2,415	1,976	452	470	343	1.22	1.30	1.43	552	608	490
Md.....	23	22	22	1,310	1,390	1,200	30	31	26	1.15	1.23	1.40	35	38	37
N.C.....	393	399	335	1,896	2,131	1,858	745	849	621	1.17	1.33	1.40	870	1,132	867
Ohio.....	11	10	10	2,162	2,229	1,435	23	23	14	1.12	1.22	1.38	25	28	19
Pa.....	14	13	11	1,940	1,940	1,580	26	25	18	.60	.62	.72	16	16	13
S.C.....	68	71	57	2,040	2,120	2,065	139	151	118	1.23	1.38	1.42	171	207	167
Tenn.....	68	67	60	1,997	2,126	1,745	137	142	105	1.19	1.26	1.38	163	179	144
Va.....	80	73	67	1,794	1,848	1,630	143	135	110	1.16	1.31	1.40	166	177	153
Wis.....	12	12	13	2,032	1,678	1,988	24	20	26	.85	1.01	1.17	21	20	30

¹ See footnote 2, table 1253. ² Includes States not shown separately.Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual, and *Crop Values*, annual.

NO. 1266. SUGAR, BEET AND CANE—SUPPLY AND DISAPPEARANCE: 1960 TO 1979

[In thousands of short tons, raw value. Minus sign (-) denotes decrease]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979, prel.
Total supply.....	11,877	13,025	14,392	14,292	14,235	13,132	14,515	15,827	14,828	14,627
United States production.....	4,009	5,370	5,874	6,061	5,662	6,300	6,798	6,089	5,602	5,799
Beet.....	2,439	3,044	3,511	3,353	3,221	3,473	4,003	3,423	3,067	3,067
Mainland cane ¹	534	1,108	1,201	1,579	1,400	1,720	1,745	1,632	1,506	1,667
Hawaii.....	936	1,218	1,162	1,129	1,041	1,107	1,050	1,034	1,029	1,065
Foreign.....	4,885	4,027	5,296	5,329	5,770	3,882	4,658	6,138	4,683	5,027
Puerto Rico.....	2,903	2,834	3,553	79	157	96	203	102	52	47
Beginning stocks.....	2,080	2,794	2,869	2,823	2,646	2,854	2,856	3,498	4,491	3,754
Total use.....	9,447	10,220	11,557	11,646	11,381	10,276	11,017	11,336	11,074	10,926
U.S. consumption.....	9,022	10,080	11,163	11,429	10,945	10,302	10,893	11,099	10,889	10,756
Exports.....	46	89	66	26	72	216	76	22	16	18
Other ³	379	51	328	191	364	-242	48	215	169	152

¹ Florida, Louisiana, and, beginning 1973, Texas. ² Includes minor quantities from Virgin Islands. ³ Includes net change in invisible stocks, balancing items, and minor quantities of sugar for livestock feed and alcohol.Source: U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service, *Sugar and Sweetener Report*, monthly.

NO. 1267. SUGAR, BEET AND CANE—U.S. AND WORLD PRODUCTION AND U.S. PRICES: 1960 TO 1979

[Production in thousands of short tons, raw value]

CROP YEAR	WORLD PRODUCTION		UNITED STATES PRODUCTION			CANE (cents per lb.)		
	Total	Percent U.S.	Beet	Cane		Wholesale, N.Y.		Retail, granulated, U.S.
				Mainland ¹	Hawaii	Raw, 96* ²	Refined	
1960.....	59,970	6.7	2,475	630	936	6.3	9.3	11.6
1965.....	68,467	7.5	2,816	1,104	1,218	6.8	10.0	11.8
1970.....	77,907	7.4	3,322	1,254	1,162	8.1	11.7	13.0
1972.....	82,760	7.7	3,632	1,621	1,119	9.1	13.1	13.9
1973.....	88,184	6.5	3,216	1,420	1,129	10.3	14.1	15.1
1974.....	86,557	6.4	3,021	1,471	1,041	29.5	34.4	32.3
1975.....	90,035	7.7	4,019	1,827	1,107	22.5	31.4	37.2
1976.....	95,088	6.9	3,895	1,674	1,050	13.3	19.2	24.0
1977.....	101,912	6.7	3,108	1,850	1,034	11.0	17.3	21.6
1978.....	99,672	5.0	3,289	1,583	1,029	13.9	20.9	24.0
1979, preliminary.....	94,126	6.0	2,879	1,640	1,065	15.6	23.2	24.9

¹ Florida, Louisiana, and, beginning 1973, Texas. ² Centrifugal. Duty paid.Source: U.S. Dept. of Agriculture, Agricultural Stabilization and Conservation Service, *Sugar and Sweetener Report*, monthly.

NO. 1268. SUGARCANE, BEET AND CANE SUGAR, AND MOLASSES—ACREAGE, PRODUCTION, AND VALUE: 1960 TO 1979

[See also *Historical Statistics, Colonial Times to 1970*, series K 542-546]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
Sugarcane for sugar and seed:											
Acres harvested.....	1,000 acres.....	437	617	584	741	734	774	747	759	744	733
Yield per acre.....	Tons.....	37.7	38.4	41.1	34.9	34.2	36.6	37.6	35.3	35.0	36.2
Production.....	Mil. tons.....	16.5	23.7	24.0	25.8	25.1	28.3	28.1	26.8	26.0	26.5
Price per ton ²	Dollars.....	7.41	7.30	10.50	20.91	48.50	19.60	13.70	18.50	19.40	(NA)
Farm value ³	Mil. dol.....	57	110	140	333	756	366	257	327	320	(NA)
Sugar produced:											
Beet, raw value ⁴	1,000 tons.....	2,475	2,816	3,322	3,216	3,021	4,019	3,895	3,108	3,289	2,879
Cane, raw value ⁴	1,000 tons.....	1,566	2,322	2,416	2,549	2,512	2,934	2,724	2,684	2,612	2,705
Per ton of cane ⁴	Lb.....	199	204	210	205	212	214	197	209	211	213
Cane, refined basis ⁵	1,000 tons.....	1,464	2,170	2,258	2,383	2,347	2,743	2,545	2,508	2,441	2,524
Molasses made ⁶	Mil. gal.....	101	146	141	181	156	183	181	165	162	161

NA Not available. ¹ Preliminary. ² Season average price received by farmers. Prices exclude Government payments under Sugar Act. ³ Excludes Hawaii. ⁴ Raw value equals 96³ sugar as defined in Sugar Act of 1948. ⁵ Calculated on basis of 100 lbs. of raw sugar required to produce 93.46 lbs. of refined sugar. ⁶ Excludes sirup.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual, and *Crop Values*, annual.

NO. 1269. FATS AND OILS—SUPPLY, DISPOSITION, AND UTILIZATION: 1960 TO 1979

[In millions of pounds. Includes fat content of butter]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
Total supply.....	20,752	24,442	28,661	28,617	30,118	27,788	32,301	32,622	35,086	41,926
Production from domestic materials ²	17,353	20,532	25,012	24,586	26,824	23,612	27,798	27,568	30,908	37,881
Imports ³	1,074	1,189	1,363	1,487	1,389	2,203	2,422	1,962	1,876	1,644
Stocks, Jan. 1 ⁴	2,325	2,721	2,286	2,544	1,905	1,976	2,081	3,092	2,302	2,401
Exports ^{5,6}	5,965	7,481	10,150	10,482	11,768	9,592	11,579	12,869	14,982	17,959
Domestic disappearance ⁶	12,649	14,538	16,119	16,230	16,374	16,115	17,639	17,315	17,703	21,318
Food uses⁷.....	8,241	9,517	10,808	11,337	11,241	11,324	11,961	11,600	11,851	13,074
Butter (fat content).....	1,112	1,040	890	812	776	821	758	761	800	793
Lard (direct).....	1,361	1,226	940	705	681	632	585	511	512	565
Shortening.....	2,302	2,768	3,556	3,614	3,622	3,666	3,861	3,698	4,048	4,214
Margarine (fat content).....	1,367	1,534	1,787	1,884	1,891	1,907	2,069	2,001	1,964	2,016
Other.....	2,094	2,949	3,635	4,322	4,271	4,298	4,689	4,629	4,527	5,486
Nonfood uses⁷.....	4,419	5,002	5,141	5,158	5,451	5,015	5,711	5,642	5,133	5,185

¹ Preliminary. ² Includes oil equivalent of cottonseed, soybeans, peanuts, and flaxseed exported for crushing abroad. ³ Includes production from imports. ⁴ Excludes Government strategic stockpiling of coconut, palm, castor, and sperm oils. ⁵ Includes commercial exports, voluntary or civilian relief, reexports, shipments to Puerto Rico, American Samoa, Guam, and Virgin Islands. ⁶ Includes Government stockpiling. ⁷ Domestic. Not adjusted for trade and change in stocks of shortening, margarine, soap, and secondaries.

NO. 1270. SOYBEANS—SUPPLY, DISAPPEARANCE, AND PRICE SUPPORT: 1960 TO 1979

[For years beginning Sept. 1. See *Historical Statistics, Colonial Times to 1970*, series K 521, for production]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
Supply, total.....	Mil. bu.....	607	875	1,357	1,607	1,387	1,736	1,533	1,865	2,077	2,442
Production.....	Mil. bu.....	555	846	1,127	1,548	1,216	1,547	1,288	1,762	1,870	2,268
Stocks, Sept. 1.....	Mil. bu.....	52	30	230	60	171	188	245	103	161	174
Disappearance, total.....	Mil. bu.....	580	840	1,258	1,436	1,199	1,491	1,430	1,704	1,857	2,017
Crushed.....	Mil. bu.....	406	538	760	821	701	865	790	927	1,018	1,100
Seed.....	Mil. bu.....	33	43	48	56	57	54	62	69	76	80
Feed and residual ²	Mil. bu.....	6	9	16	20	20	17	14	8	10	17
Net exports.....	Mil. bu.....	135	251	434	539	421	555	564	700	753	820
Percent of total.....	Percent.....	23.2	29.8	34.5	37.6	35.1	37.2	39.5	41.1	40.5	40.7
Ending stocks.....	Mil. bu.....	27	36	99	171	188	245	103	161	174	425
Price support:											
Support price per bushel.....	Dol.....	1.85	2.25	2.25	2.25	2.25	(³)	2.50	3.50	4.50	4.50
Quantity under support.....	Mil. bu.....	26	87	146	124	35	(³)	22	97	64	120
Percent of production.....	Percent.....	4.7	10.3	13.0	8.0	2.9	(X)	1.7	5.5	3.4	5.3

X Not applicable. ¹ Estimated. ² Residual represents adjustment for statistical discrepancy. ³ Price support not authorized for the 1975 crop.

Source of tables 1269 and 1270: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Fats and Oils Situation*, quarterly, and *Agricultural Statistics*, annual.

NO. 1271. SOYBEANS FOR BEANS—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1977 TO 1979

[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 (dol. per bu.)			FARM VALUE (mil. dol.)		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
Total ¹	57,612	63,343	70,530	30.6	29.5	32.2	1,762	1,870	2,268	5.88	6.66	6.19	10,352	12,459	14,039
Ala.....	1,600	1,950	2,250	21.0	21.0	25.0	34	41	56	5.68	6.70	6.10	191	263	343
Ark.....	4,600	4,700	5,150	23.0	24.5	28.0	106	115	144	6.15	6.70	6.35	651	774	916
Ga.....	1,090	1,680	2,100	20.0	17.5	26.0	22	29	59	6.16	6.40	6.25	134	188	368
Ill.....	8,850	9,190	9,720	38.0	33.5	38.5	336	308	374	6.01	6.65	6.40	2,021	2,078	2,395
Ind.....	3,900	4,180	4,420	37.0	34.5	36.0	144	144	159	5.59	6.75	6.30	807	953	1,002
Iowa.....	7,080	7,550	8,170	35.5	38.5	38.0	251	291	310	5.92	6.60	6.05	1,488	1,930	1,878
Kans.....	990	1,490	1,560	28.5	18.0	26.5	28	27	41	5.50	6.60	5.90	155	178	244
Ky.....	1,320	1,410	1,660	31.0	30.0	32.5	41	42	54	6.18	6.70	6.45	253	288	348
La.....	2,680	2,840	3,200	23.5	25.0	28.0	63	71	90	5.78	6.60	6.35	364	464	569
Mich.....	720	800	970	30.0	34.0	29.5	22	19	29	5.54	6.70	5.90	120	131	170
Minn.....	3,770	4,060	5,230	35.5	26.0	32.0	134	146	167	5.90	6.55	5.80	790	953	971
Miss.....	3,650	3,800	4,100	21.5	21.5	29.0	78	82	119	6.18	6.70	6.25	485	542	743
Mo.....	4,650	5,540	5,930	32.0	28.5	31.5	149	158	187	5.74	6.50	6.10	854	1,056	1,139
Nebr.....	1,130	1,250	1,610	36.0	34.0	34.0	41	43	55	5.74	6.75	6.40	175	270	293
N.C.....	1,320	1,680	1,950	22.0	24.5	23.5	29	41	46	6.02	6.75	6.25	698	853	907
Ohio.....	3,380	3,750	4,030	35.5	33.5	36.0	120	126	145	5.82	6.80	6.30	161	222	251
S.C.....	1,300	1,470	1,660	20.5	22.0	24.0	27	32	40	6.05	6.80	6.30	296	363	449
Tenn.....	2,220	2,420	2,620	23.5	23.5	27.0	52	57	71	5.68	6.50	6.35	108	124	117
Tex.....	760	745	805	26.5	26.5	26.0	20	20	21	5.35	6.25	5.60	49	87	90
Va.....	440	445	496	19.0	28.0	28.5	8	13	14	5.90	6.80	6.40			

¹ Includes States not shown separately.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual, and *Field Crops—Production, Disposition, Value*, annual.

NO. 1272. PEANUTS—ACREAGE, PRODUCTION, VALUE, AND PRICE SUPPORT: 1960 TO 1979

[Years beginning August. See also *Historical Statistics, Colonial Times to 1970*, series K 547-549]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
<i>Acres harvested</i>	1,000.....	1,395	1,438	1,469	1,496	1,472	1,504	1,522	1,516	1,512	1,525
<i>Production for nuts</i>	Mil. lb.....	1,718	2,390	2,983	3,474	3,668	3,857	3,751	3,726	3,989	3,980
<i>Farmers' stock</i> ²	Mil. lb.....	7.2	7.4	2.8	56.9	38.4	227.0	250.0	54.4	28.7	13.5
<i>Yield per acre</i>	Lb.....	1,232	1,661	2,030	2,323	2,491	2,565	2,465	2,457	2,639	2,611
<i>Average price per lb.</i>	Cents.....	10.0	11.4	12.8	16.2	17.9	19.6	20.0	21.0	21.1	20.7
<i>Value of production</i>	Mil. dol.....	172.0	272.4	383.0	562.5	657.6	756.5	750.3	783.3	841.6	822.4
<i>Support price per lb.</i>	Cents.....	10.1	11.2	12.8	16.4	18.3	19.7	20.7	21.5	21.0	21.0
<i>Quantity under support</i>	Mil. lb.....	352	733	1,084	1,029	1,072	1,136	854	536	525	522
<i>Percent of production</i>	Percent.....	20.5	30.7	36.3	29.6	29.2	29.5	22.8	14.4	13.2	13.1

¹ Preliminary. ² Excludes shelled peanuts and cleaned peanuts (roasting stocks). ³ Quota peanuts were supported at 21.0 cents per lb. and additional peanuts were supported at 12.5 cents per lb. in 1978 and 15.0 cents per lb. in 1979.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Fats and Oils Situation*, quarterly, and *Agricultural Statistics*, annual.

NO. 1273. PEANUTS HARVESTED FOR NUTS—ACREAGE, PRODUCTION, AND VALUE, BY STATES: 1977 TO 1979

[Years beginning August]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE (lb.)			PRODUCTION (mil. lb.)			PRICE (cents per lb.)			FARM VALUE (mil. dol.)		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
Total	1,516	1,512	1,525	2,457	2,639	2,611	3,726	3,989	3,980	21.0	21.1	20.7	783	842	822
Ala.....	215	214	213	2,740	2,630	2,795	589	563	595	22.2	21.1	20.5	131	119	122
Fla.....	56	54	55	3,100	3,380	3,270	171	183	180	20.7	21.3	21.0	35	39	37
Ga.....	526	526	527	2,850	3,300	3,235	1,499	1,736	1,705	20.9	21.0	20.7	313	365	353
Miss.....	7	8	8	1,850	2,000	1,850	12	16	15	22.0	21.0	21.0	3	3	3
N. Mex.....	9	10	9	2,700	2,560	2,750	25	24	25	25.0	22.0	22.6	6	5	6
N.C.....	166	166	166	2,675	2,825	2,280	444	469	379	20.6	22.0	20.4	92	103	77
Oklia.....	120	115	120	2,230	1,800	2,200	268	207	264	21.4	21.2	20.0	57	44	53
S.C.....	15	15	15	2,080	2,350	1,950	38	38	29	21.0	21.1	20.4	7	8	6
Tex.....	300	301	310	1,315	1,450	1,725	394	436	533	19.6	20.2	21.0	77	88	112
Va.....	103	103	102	2,845	3,100	2,500	293	319	255	21.3	21.3	20.7	62	68	53

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production*, annual and *Field Crops—Production, Disposition, Value*, annual.

NO. 1274. FRUITS—PRODUCTION AND VALUE, 1977 TO 1979, AND LEADING PRODUCING STATES, 1979

FRUIT	PRODUCTION ¹			FARM VALUE (mil. dol.)			Leading States in order of production, 1979	
	Unit	1977	1978	1979, prel.	1977	1978		1979, prel.
Apples (34 States) ²	Mil. lb.....	6,643	7,554	7,750	699	783	825	Wash., N.Y., Mich.
Peaches.....	Mil. lb.....	2,852	2,557	2,872	282	309	336	Calif., S.C., Ga.
Pears.....	1,000 tons.....	785	727	846	115	160	174	Calif., Wash., Oreg.
Grapes.....	1,000 tons.....	4,296	4,318	4,924	835	1,006	1,123	Calif., Mich., N.Y.
Blueberries (6 States) ³	Mil. lb.....	(NA)	77.8	71.8	(NA)	48.8	44.8	Mich., N.J., Maine.
Cherries, sweet.....	1,000 tons.....	147	155	182	73	107	110	Wash., Oreg., Calif.
Cherries, tart.....	Mil. lb.....	211	181	170	62	79	81	Mich., N.Y., Utah.
Plums and prunes (fresh).....	1,000 tons.....	724	634	655	138	160	173	Calif., Oreg., Wash.
Oranges and tangerines ⁴	Mil. boxes ⁵	248.7	225.3	215.9	843	1,234	1,397	Fla., Calif., Ariz.
Grapefruit (4 States).....	Mil. boxes ⁶	74.6	74.7	67.0	175	190	219	Fla., Texas, Calif.
Lemons (2 States) ⁷	Mil. boxes ⁸	26.0	26.1	19.4	93	111	134	Calif., Ariz.

NA Not available. ¹ Excludes quantities not harvested or not marketed because of economic conditions. ² Production in commercial orchards with 100 or more bearing age trees. ³ Estimates beginning 1978. ⁴ Four States. ⁵ Net content of box varies. In Calif. and Ariz., approximate average for oranges and tangerines is 75 lb.; Fla. oranges, 90 lb.; Tex. oranges, 85 lb.; and Fla. tangerines, 95 lb. ⁶ Approximate average, net weight, is 65 lb. in Ariz. and Calif., 85 in Fla., and 80 in Tex. ⁷ Includes estimates for Ariz. ⁸ About 76 lb. net.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Crop Production; Crop Values*; and *Noncitrus Fruits and Nuts*; annual summaries.

NO. 1275. COMMERCIAL VEGETABLE AND OTHER SPECIFIED CROPS—AREA, PRODUCTION, AND VALUE, 1977 TO 1979, AND LEADING STATES, 1979

[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.)			States ranked by production, 1979
	1977	1978	1979	1977	1978	1979	1977	1978	1979	
Artichokes.....	10.8	9.9	9.7	35.7	26.3	43.7	13.8	14.2	24.2	Calif.
Asparagus.....	85.8	81.4	79.2	109.1	91.4	93.1	80.2	79.2	95.3	Calif., Wash.
Beans, lima.....	60.3	68.1	64.5	74.2	82.7	83.8	25.4	29.7	30.7	Calif., Del.
Beans, snap.....	335.9	365.0	369.1	819.7	857.1	911.0	159.1	177.9	195.7	Wis., Oreg.
Beets.....	14.1	17.3	17.4	206.2	221.6	249.7	8.4	8.8	10.6	Wis., N.Y.
Broccoli.....	70.9	68.3	71.1	284.7	270.0	290.9	92.7	97.6	110.6	Calif., Oreg.
Brussels sprouts.....	5.8	5.9	5.5	39.2	44.3	38.5	14.8	19.0	16.5	Calif.
Cabbage.....	91.7	96.5	92.3	1,190.3	1,224.0	1,210.5	172.4	175.2	172.4	N.Y., Fla.
Cantaloupes.....	79.5	93.9	89.1	538.0	642.8	616.1	114.0	123.9	136.4	Calif., Tex.
Carrots.....	69.5	73.7	77.8	960.4	964.5	1,042.6	141.4	129.8	147.6	Calif., Tex.
Cauliflower.....	37.4	41.6	42.4	185.4	191.8	207.8	73.4	81.2	86.6	Calif., N.Y.
Celery.....	33.8	34.4	36.1	828.1	822.3	878.0	141.0	195.9	160.8	Calif., Fla.
Corn, sweet.....	623.9	598.8	584.0	3,070.7	3,102.2	3,108.3	230.0	239.5	257.8	Minn., Wis.
Cucumbers.....	175.7	186.2	182.5	904.7	979.8	963.8	135.0	160.1	183.0	Fla., Mich.
Eggplant.....	3.2	3.4	3.9	32.1	32.3	36.5	7.1	8.1	11.6	Fla., N.J.
Escarole/endive.....	7.8	7.6	8.3	51.3	53.1	57.0	16.3	22.2	21.7	Fla., N.J.
Garlic.....	10.4	13.0	14.2	57.2	78.0	92.3	26.3	24.7	28.0	Calif.
Honeydew melons.....	15.5	18.5	20.8	129.6	170.7	176.6	25.6	32.8	38.1	Calif., Tex.
Lettuce.....	231.5	239.2	244.1	2,995.4	3,013.1	3,015.8	415.7	596.7	576.7	Calif., Ariz.
Mint for oil.....	124.0	146.1	128.3	3.4	4.5	3.5	92.2	85.2	67.6	Oreg., Wash.
Onions.....	108.0	121.2	123.4	1,720.3	1,796.8	1,924.3	203.4	250.4	259.7	Calif., Tex.
Peas, green.....	350.5	355.5	389.3	489.0	461.1	607.5	100.5	94.9	128.0	Wis., Wash.
Peppers, green.....	55.9	53.0	58.7	265.7	257.9	273.5	87.6	100.3	109.0	Fla., Calif.
Spinach.....	30.5	30.7	34.3	194.3	178.8	203.3	24.3	29.4	37.4	Calif., Tex.
Strawberries.....	34.3	35.5	34.0	325.5	324.9	318.9	214.9	201.6	244.0	Calif., Oreg.
Tomatoes.....	471.0	425.1	440.0	8,768.1	7,474.3	8,447.4	906.8	843.8	1,013.3	Calif., Fla.
Watermelons.....	227.4	218.2	208.8	1,351.0	1,265.1	1,206.3	92.8	102.2	111.0	Fla., Tex.

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, except garlic, which is field run basis at packinghouse door. Processing vegetables are equivalent returns at packinghouse door.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual; and *Vegetables*, annual summary.

No. 1276. CANNED FOODS—PRODUCTION: 1960 TO 1979

[In millions of standard cases of 24 No. 303 cans, except as noted. Excludes Alaska and Hawaii, except as noted. See Historical Statistics, Colonial Times to 1970, series P 233-234, for corn and tomatoes in cases of 24 No. 2 cans]

PRODUCT	1960	1965	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
Fruits¹	97.9	103.9	99.4	97.8	87.9	96.2	103.7	91.2	88.2	93.7	85.3	94.9
Apples ²	3.1	4.1	2.3	2.4	2.2	3.2	2.2	1.1	1.6	1.7	1.8	2.3
Applesauce ²	11.8	15.9	14.1	15.1	11.9	15.2	16.6	9.6	8.9	10.7	11.6	12.2
Apricots.....	6.1	5.1	3.8	3.3	3.0	4.1	2.0	4.4	2.4	2.3	2.1	2.9
Berries.....	.8	.7	.4	.4	.4	.3	.4	.4	.3	.1	.3	.2
Cherries, red, pitted.....	1.6	2.4	1.0	1.0	1.3	.6	1.2	1.3	.4	.6	.6	.5
Cherries, sweet.....	.6	.7	.7	.5	.4	.5	.6	.4	.5	.5	.5	.7
Cranberry sauce ²	2.2	3.4	3.9	3.5	3.5	4.7	4.3	3.4	3.5	3.4	3.7	3.6
Fruit cocktail ³	12.9	14.5	13.1	13.3	11.9	13.4	14.9	13.7	13.6	13.0	11.7	13.8
Fruit salad/mixed fruits ³	1.2	1.2	1.2	1.5	1.5	1.5	1.8	1.3	1.2	2.2	2.2	3.1
Grapefruit sections ^{2,4}	3.0	2.8	2.3	1.8	1.9	2.1	1.5	1.1	1.2	1.2	1.3	(NA)
Peaches.....	30.8	30.0	29.6	25.8	24.0	24.5	32.4	29.0	24.8	29.2	21.4	25.8
Pears.....	8.5	6.4	8.6	10.3	9.1	9.8	10.7	9.8	11.5	9.6	9.0	10.8
Pineapple ^{2,5}	15.0	15.0	17.8	17.7	16.5	15.0	13.9	14.2	17.3	18.4	18.3	18.5
Plums ⁶.....	.4	1.7	.8	1.2	.4	1.3	1.2	1.4	1.0	.8	.9	.7
Juices:^{2,7}												
Apple.....	6.2	9.6	14.1	13.7	13.8	14.8	15.4	15.3	15.4	18.2	24.1	25.8
Grapefruit.....	11.0	13.8	26.0	26.8	28.3	29.0	21.6	25.8	27.7	26.4	25.1	(NA)
Orange.....	11.5	12.1	15.4	13.8	17.1	13.8	13.3	13.5	14.4	15.8	18.2	(NA)
Orange-grapefruit.....	3.2	2.9	2.5	1.9	2.1	1.9	1.7	2.8	1.6	1.9	1.4	(NA)
Pineapple ⁸	14.4	15.4	13.7	13.6	12.3	11.4	8.5	8.7	10.2	12.0	11.3	12.2
Tomato ⁹	33.0	32.8	30.1	31.5	25.7	27.6	29.6	29.0	26.5	22.9	27.9	26.0
Seasonal vegetables	175.3	204.1	208.7	223.0	221.8	235.3	242.3	249.8	217.5	237.1	233.3	265.6
Asparagus.....	8.0	7.2	5.9	5.5	5.9	5.8	5.6	3.6	3.6	3.7	3.4	2.8
Beans, green and wax.....	33.2	45.6	47.6	50.0	47.6	55.0	62.3	55.4	47.4	54.5	57.1	66.3
Beans, lima.....	3.8	3.0	2.8	3.1	2.1	3.2	2.5	3.7	2.8	2.7	3.4	3.1
Beets ²	8.8	10.0	11.3	10.4	10.0	10.9	15.1	13.1	9.2	11.3	13.0	15.1
Carrots ²	5.0	4.5	5.4	5.3	5.5	6.4	6.9	4.7	5.2	6.6	6.3	7.3
Corn, sweet.....	35.3	39.1	47.0	53.8	53.0	55.2	46.4	57.5	54.7	56.3	57.9	60.0
Greens, leafy.....	2.9	2.7	3.5	4.4	2.8	4.0	4.6	3.0	3.1	2.6	2.9	3.2
Peas, field.....	2.1	1.8	2.4	2.7	2.6	2.8	2.8	2.0	1.9	2.2	2.4	2.5
Peas, green.....	28.7	37.6	28.7	33.2	33.1	29.6	33.1	35.2	31.9	30.2	25.3	36.5
Pimentos.....	.9	.8	.6	.7	.7	.3	.4	.6	.7	.4	.4	.5
Pumpkin and squash.....	5.0	3.9	4.0	4.6	4.1	4.6	4.2	5.8	5.5	3.0	3.4	4.0
Spinach ²	7.8	6.4	7.3	7.7	8.2	8.9	10.8	8.3	6.3	7.1	6.2	8.1
Tomatoes.....	31.0	36.0	39.0	38.4	43.3	45.4	43.8	53.5	42.8	54.1	49.2	52.9
Other vegetable packs ¹⁰	2.8	5.5	3.2	3.2	2.9	3.2	3.8	3.4	2.4	2.4	2.4	3.3
Nonseasonal vegetables:												
Sweet potatoes ²	6.9	11.1	9.8	10.1	9.5	11.4	12.8	7.7	8.0	7.2	9.4	9.2
White potatoes ²	4.2	5.0	6.6	7.8	5.0	5.7	8.1	6.8	6.2	7.1	6.7	6.5
Chili sauce.....	1.4	1.5	1.5	1.5	1.7	1.8	1.6	1.7	2.0	1.8	2.8	2.0
Tomato puree.....	5.4	6.5	5.9	7.8	9.7	9.9	10.3	13.8	8.4	9.8	8.4	10.4
Seafood, salmon¹⁰.....	(NA)	3.6	3.8	3.5	1.9	1.5	1.8	1.6	2.7	3.1	3.4	3.1

NA Not available. ¹ Basis: 24 No. 2½ cans. ² Pack beginning in year shown. ³ California only. ⁴ Florida only. ⁵ Represents U.S. pack and foreign operations. ⁶ Beginning 1965, purple plums only. ⁷ Basis: 24 No. 2 cans. ⁸ Beginning 1970, excludes combination vegetable-tomato juices. ⁹ Succotash, carrots and peas, okra, okra and tomatoes, and for 1965, mushrooms. ¹⁰ Basis: 48-1 lb. cans. Includes Alaska.

Source: National Food Processors Association, Washington, D.C., *Canned Food Pack Statistics*, annual.

No. 1277. PRINCIPAL FROZEN FOODS—PRODUCTION: 1960 TO 1979

(In millions of pounds)

PRODUCT	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Total	10,868	14,144	17,415	19,363	21,862	23,101	23,452	(NA)	(NA)	(NA)	(NA)
Vegetables:											
Total, excl. potatoes.....	1,407	1,800	1,912	2,281	2,467	2,488	2,212	2,156	2,623	2,712	2,801
Potato products.....	551	1,219	2,404	2,594	2,691	2,985	3,001	3,335	3,623	3,849	4,090
Fruits and berries.....	680	653	621	612	650	604	567	629	637	509	534
Juices and drinks ¹	4,556	5,514	5,360	5,051	6,345	6,237	6,287	(NA)	(NA)	(NA)	(NA)
Meat.....	310	450	470	510	520	535	545	(NA)	(NA)	(NA)	(NA)
Poultry.....	2,000	2,231	2,160	2,236	2,209	2,222	2,070	2,359	2,238	2,318	2,306
Prepared foods.....	1,100	1,875	4,100	5,710	6,570	7,690	8,470	(NA)	(NA)	(NA)	(NA)
Seafoods.....	284	402	388	369	410	340	300	322	346	(NA)	(NA)

NA Not available. ¹ Includes single strength drinks, juices and concentrated juices, and drinks reconstituted.

Source: American Frozen Food Institute, Burlingame, Calif., *Frozen Food Pack Statistics*, annual. (Copyright.)

NO. 1278. LIVESTOCK—NUMBER ON FARMS AND VALUE: 1950 TO 1980

[Alaska and Hawaii excluded from census data prior to 1959 and from annual data prior to 1965. Prior to 1960, data for sheep refer to stock sheep 1978 preliminary. See also *Historical Statistics, Colonial Times to 1970*, series K 564-569]

YEAR	ALL CATTLE			HOGS AND PIGS			SHEEP AND LAMBS		
	Number (mil. head)	Total value (bil. dol.)	Value per head (dol.)	Number (mil. head)	Total value (bil. dol.)	Value per head (dol.)	Number (mil. head)	Total value (mil. dol.)	Value per head (dol.)
CENSUS DATA									
1950 (Apr. 1).....	76.9	9.1	119	55.8	1.1	19.70		555	17.69
1954 (Oct.-Nov.).....	95.0	8.2	87	57.1	1.9	33.13	131.6	472	14.93
1959 (Oct. 1).....	92.5	12.5	135	67.9	1.4	20.18	33.9	556	16.38
1964 (Nov.-Dec.).....	105.6	11.9	113	54.1	1.3	24.48	25.5	409	16.06
1969 (Dec. 31).....	106.4	19.0	179	55.5	2.2	38.85	21.6	532	24.63
1974 (Dec. 31).....	113.2	18.5	163	45.5	2.1	45.37	15.4	474	30.79
1978 (Dec. 31).....	105.9	(NA)	(NA)	58.9	(NA)	(NA)	12.4	(NA)	(NA)
ANNUAL DATA (Jan. 1) ²									
1950.....	78.0	9.6	124	58.9	1.6	27.10	26.2	466	17.80
1955.....	96.6	8.5	88	50.5	1.5	30.60	27.1	404	14.90
1960.....	96.2	13.2	137	59.0	1.1	18.50	33.2	546	16.50
1965.....	109.0	12.4	113	50.8	1.2	24.50	25.1	401	16.00
1970.....	112.4	20.2	179	56.7	2.2	39.00	20.4	513	25.10
1971.....	114.6	21.1	184	67.3	1.6	23.50	19.7	465	23.60
1972.....	117.9	24.5	208	62.4	1.8	28.50	18.7	429	22.80
1973.....	121.5	30.6	252	59.0	2.5	42.00	17.6	471	26.70
1974.....	127.8	37.5	293	60.6	3.7	60.40	16.3	535	32.80
1975.....	132.0	21.0	159	54.7	2.5	44.90	14.5	442	30.50
1976.....	128.0	24.3	190	49.3	4.0	80.40	13.3	496	37.30
1977.....	122.8	25.3	206	54.9	2.6	47.00	12.8	541	42.40
1978.....	116.4	27.1	232	55.5	3.6	63.20	12.3	636	51.50
1979.....	110.9	44.7	403	60.1	5.0	83.30	12.2	876	71.70
1980, prel.....	111.0	55.7	502	67.0	3.8	56.30	12.5	974	77.90

NA Not available. ¹ Excludes Fla., Ga., and So. Carolina. ² Beginning 1970, data for hogs and pigs as of Dec. 1, preceding year.

Source: Census data—U.S. Bureau of the Census, *Census of Agriculture: 1969*, vol. II and 1974, vol. I, and unpublished data. Annual data—U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual, and annual livestock summaries.

NO. 1279. MEATS—SLAUGHTERING, PRODUCTION, AND TRADE: 1960 TO 1979

[Quantities represent carcass weight equivalent. 1960-1970 exclude 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	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
All meats:											
Animals slaughtered, total.....	Mil. head.....	135.0	130.7	137.3	124.0	132.6	124.8	130.6	133.1	128.2	132.3
Under Federal inspection.....	Percent.....	78	82	89	92	91	91	92	93	93	94
Production, total ¹	Bil. lb.....	28.2	31.5	36.2	34.9	37.9	36.8	39.6	39.7	38.6	37.6
Federally inspected.....	Percent.....	78	82	89	91	91	90	92	93	93	94
Exports of U.S. production ²	Mil. lb.....	223	250	305	437	342	449	598	586	646	673
Imports for consumption.....	Mil. lb.....	1,048	1,347	2,429	2,607	2,160	2,248	2,600	2,424	2,856	2,974
Beef:											
Animals slaughtered, total.....	Mil. head.....	26.0	33.2	35.4	34.0	37.3	41.5	43.2	42.4	40.0	34.0
Under Federal inspection.....	Percent.....	75	80	87	90	89	89	90	92	93	94
Production, total.....	Bil. lb.....	14.7	18.7	21.7	21.3	23.1	24.0	26.0	25.3	24.2	21.4
Federally inspected.....	Percent.....	78	82	88	91	90	90	91	92	93	94
Exports of U.S. production ²	Mil. lb.....	55	91	101	144	115	110	158	167	214	215
Imports for consumption.....	Mil. lb.....	760	923	1,792	1,990	1,615	1,758	2,079	1,939	2,297	2,405
Veal:											
Animals slaughtered, total.....	Mil. head.....	8.6	7.8	4.2	2.4	3.2	5.4	5.5	5.7	4.3	2.9
Under Federal inspection.....	Percent.....	61	65	72	76	74	72	80	85	87	89
Production, total.....	Mil. lb.....	1,109	1,020	588	357	486	873	853	834	632	434
Federally inspected.....	Percent.....	56	56	57	59	58	57	66	68	71	73
Lamb and mutton:											
Animals slaughtered, total.....	Mil. head.....	16.2	13.3	10.8	9.8	9.0	8.1	6.9	6.6	5.5	5.2
Under Federal inspection.....	Percent.....	86	88	93	94	95	94	94	96	96	96
Production, total.....	Mil. lb.....	768	651	551	514	465	410	371	351	309	293
Federally inspected.....	Percent.....	87	88	93	95	95	94	94	94	94	94
Pork:											
Animals slaughtered, total.....	Mil. head.....	84.2	76.4	87.0	77.8	83.1	69.8	74.9	78.4	78.4	90.2
Under Federal inspection.....	Percent.....	79	83	90	93	93	93	94	96	96	96
Production, total ¹	Bil. lb.....	11.6	11.1	13.4	12.8	13.8	11.5	12.4	13.2	13.4	15.5
Federally inspected.....	Percent.....	79	84	90	93	93	93	94	94	95	95

¹ Excludes lard. ² Includes shipments to territories.

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

NO. 1280. LIVESTOCK ON FARMS, LIVEWEIGHT PRODUCTION, VALUE, AND ANNUAL AVERAGE PRICE RECEIVED BY FARMERS: 1960 TO 1979

[Data for sheep exclude Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series K 575-582]

PRODUCTION AND PRICE	Unit	1960 ¹	1965	1970	1973	1974	1975	1976	1977	1978	1979
		<i>All cattle: On farms</i>	Mil.	96.2	109.0	112.4	121.5	127.8	132.0	128.0	122.8	116.4	110.9
Production ²	Bil. lb.	28.8	34.0	39.4	41.2	42.8	40.9	41.4	40.8	39.8	36.9
Beef, price per 100 lb.....	Dol.	20.40	19.90	27.10	42.80	35.60	32.30	33.70	34.50	48.50	66.00
Calves, price per 100 lb.....	Dol.	22.90	22.00	34.50	56.60	35.20	27.20	34.20	36.90	59.00	88.80
Value of production.....	Bil. dol.	5.9	6.8	10.9	18.1	14.9	12.8	13.8	14.0	19.5	26.3
<i>Hogs and pigs: On farms</i>	Mil.	59.0	50.8	67.3	60.6	54.7	49.3	54.9	56.5	60.1	67.0
Production ²	Bil. lb.	19.2	18.3	21.8	20.2	20.0	16.8	18.1	19.1	19.6	22.8
Price per 100 lb.....	Dol.	15.30	19.60	22.70	38.40	34.20	46.10	43.30	39.40	46.60	41.80
Value of production.....	Mil. dol.	2,946	3,573	4,955	7,738	6,838	7,751	7,844	7,536	9,136	9,444
<i>Sheep: On farms</i>	Mil.	33.2	25.1	20.4	17.6	16.3	14.5	13.3	12.8	12.3	12.2
Production ²	Mil. lb.	1,628	1,217	1,099	896	807	781	733	704	697	712
Sheep, price per 100 lb.....	Dol.	5.60	6.34	7.52	12.90	11.20	11.30	13.20	13.40	21.70	26.30
Lambs, price per 100 lb.....	Dol.	17.90	22.80	26.40	35.10	37.00	42.10	46.90	51.30	62.70	66.70
Value of production.....	Mil. dol.	253	257	260	294	272	303	315	321	390	418

¹ Alaska and Hawaii excluded. ² Includes adjustment for livestock shipped in and changes in inventory.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual, and *Meat Animals—Farm Production, Disposition, and Income, by States*, annual summary.

NO. 1281. LIVESTOCK ON FARMS—NUMBER, SELECTED STATES: 1977 TO 1980

[In thousands. As of Jan. 1, except for hogs and pigs, Dec. 1]

STATE	ALL CATTLE			MILK COWS ¹			SHEEP AND LAMBS			HOGS AND PIGS		
	1978	1979	1980	1978	1979	1980	1978	1979	1980	1977	1978	1979
U.S.	116,375	110,864	110,961	10,939	10,839	10,810	12,348	12,220	12,513	56,539	60,100	66,950
Alabama.....	2,130	1,820	1,730	85	79	76	4	(²)	(²)	650	700	880
Arizona.....	1,135	1,200	1,050	68	70	72	438	465	400	102	144	149
Arkansas.....	2,120	2,000	2,000	90	90	88	5	(²)	(²)	400	550	600
California.....	4,430	4,700	4,550	846	860	878	1,115	1,150	1,175	160	190	180
Colorado.....	3,180	3,090	2,975	72	72	72	810	795	870	320	330	430
Florida.....	2,350	2,180	2,300	197	189	184	4	(²)	(²)	320	360	425
Georgia.....	1,975	1,650	1,600	129	129	127	3	(²)	(²)	1,720	1,800	2,280
Idaho.....	1,870	1,900	1,860	138	141	142	481	466	468	60	79	110
Illinois.....	2,950	2,850	2,700	233	236	235	184	184	190	6,100	6,550	6,950
Indiana.....	2,025	1,750	1,850	208	202	200	176	171	165	4,100	4,400	4,900
Iowa.....	7,800	7,300	7,150	380	374	372	370	380	408	14,500	15,100	16,200
Kansas.....	6,000	6,200	6,100	140	130	122	205	202	235	2,000	2,000	2,070
Kentucky.....	3,120	2,600	2,700	277	265	244	28	22	21	1,140	1,150	1,400
Louisiana.....	1,425	1,350	1,300	129	127	116	13	13	12	160	140	150
Michigan.....	1,470	1,250	1,310	404	402	400	138	121	132	640	810	960
Minnesota.....	3,700	3,650	3,750	850	850	860	255	255	264	4,000	4,100	4,900
Mississippi.....	2,130	1,790	1,810	110	103	99	5	(²)	(²)	420	410	440
Missouri.....	6,000	5,550	5,350	282	276	270	131	126	123	3,700	4,100	4,550
Montana.....	2,680	2,607	2,645	27	27	28	530	475	494	211	222	209
Nebraska.....	6,500	6,450	6,400	128	120	120	237	175	210	3,150	3,650	4,150
Nevada.....	570	560	580	15	15	15	114	114	122	9	8	9
New Mexico.....	1,550	1,500	1,600	31	33	35	571	604	660	60	50	87
New York.....	1,760	1,711	1,780	915	904	912	66	63	65	125	140	139
North Carolina.....	1,100	1,080	1,080	146	143	141	9	7	8	2,300	2,350	2,600
North Dakota.....	2,050	1,967	2,000	104	96	93	213	198	236	320	335	370
Ohio.....	2,025	1,850	1,925	388	382	380	370	350	320	1,750	1,900	2,070
Oklahoma.....	5,900	5,300	5,500	114	112	110	81	89	93	330	315	370
Oregon.....	1,490	1,475	1,510	93	93	94	410	460	480	100	100	115
Pennsylvania.....	1,900	1,640	1,900	703	703	712	80	80	85	790	820	840
South Carolina.....	690	575	625	56	51	50	1	(²)	(²)	520	525	660
South Dakota.....	3,925	3,750	4,010	170	169	165	704	740	783	1,580	1,620	2,000
Tennessee.....	2,700	2,350	2,300	205	210	214	15	13	12	1,180	1,300	1,400
Texas.....	14,500	13,900	13,200	314	310	315	2,460	2,415	2,400	890	850	910
Utah.....	864	810	840	76	77	75	491	486	507	42	49	55
Virginia.....	1,620	1,550	1,750	171	172	170	172	165	160	650	670	850
Washington.....	1,275	1,375	1,579	176	190	195	62	56	65	68	64	126
Wisconsin.....	4,100	4,100	4,260	1,810	1,810	1,813	82	95	113	1,378	1,650	1,830
Wyoming.....	1,280	1,300	1,340	12	11	11	1,115	1,080	1,050	32	30	32
Other.....	2,086	1,984	2,032	637	616	605	200	187	187	562	539	564

¹ Represents cows and heifers that have calved, kept for milk. ² Estimates discontinued.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, annual livestock summaries.

NO. 1282. DAIRYING—COWS AND DAIRY PRODUCTS: 1960 TO 1979

[In millions of pounds, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series K 595-608]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979
Cows and heifers, 2 years old and over, kept for milk, Jan. 1 ¹ (mil. head).....	19.5	17.0	13.3	11.3	11.1	11.1	11.0	10.9	10.8
Milk produced on farms (bil. lb.).....	123	124	117	116	115	120	122	122	124
Whole milk sold from farms ² (bil. lb.).....	106	115	113	112	112	117	120	119	121
Manufactured dairy products:									
Butter (incl. whey butter).....	1,373	1,325	1,137	962	984	979	1,086	994	985
Cheese, total ³	1,478	1,755	2,201	2,937	2,811	3,319	3,359	3,520	3,715
American (excl. full-skim american).....	1,003	1,167	1,428	1,862	1,660	2,054	2,047	2,079	2,192
Swiss (including block).....	121	123	144	175	174	196	189	209	213
Muenster, Brick, and Limburger.....	54	56	59	75	74	76	73	78	80
Cream and Neufchatel.....	106	123	126	150	160	168	176	198	212
All Italian varieties.....	158	244	394	608	672	747	793	876	929
Cottage cheese: Creamed ⁴	799	865	1,038	978	991	1,010	1,017	1,024	994
Curd, pot, and bakers ⁵	594	630	726	690	701	711	684	688	664
Condensed bulk milk.....	1,205	1,346	1,237	964	1,041	1,044	1,091	987	970
Evaporated and condensed canned milk.....	2,256	1,799	1,293	1,053	938	942	827	798	810
Dry whole milk.....	98	89	69	68	63	78	69	75	85
Nonfat dry milk solids ⁶	1,844	2,013	1,456	1,026	1,009	932	1,115	927	915
Dry whey ⁶	277	404	621	851	596	662	628	711	733
Dry buttermilk.....	86	87	60	45	43	46	53	48	45
Ice cream of all kinds (mil. gal.).....	700	757	762	782	837	818	810	815	811
Milk sherbet (mil. gal.).....	41	45	49	50	49	50	50	48	45
Ice milk (mil. gal.).....	145	231	287	296	299	286	308	310	297
Wholesale prices (cents per lb.):									
Cheese, american:									
40-lb. blocks, Wis. assembly points.....	(NA)	38.4	55.0	79.9	86.6	96.3	98.8	107.1	123.8
Single daisies, Chicago.....	41.4	45.0	64.9	97.3	104.4	116.1	118.7	130.1	141.4
Butter, N.Y. (Grade A).....	59.9	61.0	70.4	67.4	81.8	94.4	101.5	114.1	127.2
Prices received by farmers:									
Milkfat in cream (cents per lb.).....	60.5	61.1	70.0	63.5	70.3	83.4	92.0	102.0	119.0
Whole milk: Wholesale, per 100 lb. (dol.).....	4.21	4.23	5.71	8.33	8.75	8.66	9.20	10.60	12.00
Retail (cents per qt.).....	21.7	22.3	27.0	34.9	35.4	36.4	36.7	38.8	42.3

NA Not available. ¹ Beginning 1974, milk cows that have calved. ² Comprises sales to plants and dealers, and retail sales by farmers direct to consumers. ³ Includes varieties not shown separately. Beginning 1974, includes full-skim. ⁴ Includes partially creamed (low fat). ⁵ Includes dry skim milk for animal feed. ⁶ Includes animal but excludes modified whey production.

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

NO. 1283. DAIRY PRODUCTS AND WHOLE MILK SOLD, BY SELECTED STATES: 1977 TO 1979

STATE	1978, DAIRY PRODUCTS SOLD ¹		WHOLE MILK SOLD (mil. lb.)			STATE	1978, DAIRY PRODUCTS SOLD ¹		WHOLE MILK SOLD (mil. lb.)		
	Farms	Total (mil. dol.)	1977	1978	1979		Farms	Total (mil. dol.)	1977	1978	1979
U.S.	221,113	11,355.6	118,172	117,293	119,510	Mo.....	6,929	228.6	2,845	2,682	2,691
Ala.....	1,108	66.7	635	588	565	Nebr.....	3,612	101.2	1,270	1,210	1,240
Ariz.....	239	93.5	860	815	840	N.H.....	637	38.0	322	325	325
Ark.....	1,764	67.8	675	685	680	N.J.....	664	52.6	520	490	465
Calif.....	3,134	1,136.6	11,540	11,420	12,135	N.Y.....	16,432	1,011.9	9,895	10,075	10,350
Colo.....	1,098	88.6	780	785	770	N.C.....	2,077	157.2	1,505	1,475	1,480
Conn.....	716	63.4	595	585	580	N. Dak.....	3,358	75.2	880	840	815
Fla.....	619	250.6	1,945	1,925	1,940	Ohio.....	10,112	394.2	4,335	4,165	4,170
Ga.....	1,355	143.2	1,260	1,280	1,280	Okla.....	2,175	99.2	1,065	1,040	1,015
Idaho.....	2,916	144.0	1,535	1,560	1,612	Oreg.....	1,836	109.1	975	990	1,025
Ill.....	4,996	219.0	2,475	2,365	2,385	Pa.....	16,026	762.7	7,370	7,450	7,610
Ind.....	5,613	189.3	2,215	2,125	2,131	S.C.....	522	53.2	496	492	495
Iowa.....	10,641	314.2	3,870	3,805	3,790	S. Dak.....	4,566	121.8	1,575	1,510	1,520
Kans.....	3,224	117.4	1,405	1,335	1,270	Tenn.....	5,028	188.0	2,065	2,015	2,000
Ky.....	7,690	203.5	2,255	2,115	2,090	Tex.....	3,985	359.9	3,280	3,370	3,370
La.....	1,423	111.1	1,050	1,025	985	Utah.....	1,327	92.1	875	880	892
Maine.....	1,357	69.4	615	620	615	Vt.....	3,372	219.5	2,045	2,090	2,130
Md.....	1,979	149.8	1,540	1,505	1,485	Va.....	3,055	195.3	1,845	1,850	1,890
Mass.....	934	61.8	550	530	525	Wash.....	2,220	260.8	2,385	2,510	2,660
Mich.....	8,407	436.3	4,625	4,675	4,710	W. Va.....	903	35.2	300	314	330
Minn.....	24,642	768.4	9,270	8,925	9,068	Wis.....	45,060	1,873.5	20,500	20,715	21,420
Miss.....	1,577	85.0	830	810	790	Other.....	1,785	146.7	1,319	1,327	1,371

¹ Preliminary for farms with sales of \$2,500 and over. Source: U.S. Bureau of the Census, unpublished data.

Source: Except as noted, U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Milk: Production, Disposition, and Income*, 1977-79.

NO. 1284. POULTRY—NUMBER ON FARMS, VALUE, EGGS PRODUCED, AND PRICES: 1960 TO 1979

[Beginning 1970, data for chickens, eggs, and broilers are for Dec. 1 of previous year to Nov. 30 of year stated, 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series K 609-623]

ITEM	Unit	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
		Chickens: ¹ Number ²	Mil.	369	394	433	409	384	380	378	386	396	400
Value, total ²	Mil. dol.	391	462	525	663	653	660	644	652	694	725
Value per head ²	Dol.	1.06	1.17	1.21	1.62	1.70	1.74	1.70	1.69	1.75	1.61
Number produced	Mil.	260	240	264	251	242	233	229	245	238	248
Production value	Mil. dol.	139	101	107	176	115	105	145	142	140	175
Price per lb.	Cents.	12.2	8.9	9.1	15.1	9.7	9.9	12.9	12.0	12.4	14.4
Eggs: Number produced	Mil. doz.	5,134	5,463	5,684	5,503	5,468	5,386	5,376	5,383	5,595	5,759
Price per dozen	Cents.	36.1	33.7	39.1	52.5	53.2	52.4	58.3	55.6	52.2	58.3
Gross income	Mil. dol.	1,848	1,841	2,221	2,886	2,910	2,819	3,133	2,995	2,920	3,355
Broilers: ³ Number produced	Mil.	1,795	2,334	2,987	3,009	2,993	2,950	3,289	3,400	3,613	3,940
Price per lb.	Cents.	16.9	15.0	13.6	24.0	21.5	26.3	23.6	23.0	26.3	26.0
Gross income	Mil. dol.	1,014	1,217	1,475	2,680	2,436	2,915	2,953	3,087	3,682	4,020
Turkeys: ⁴ Number ²	1,000	5,633	6,100	3,173	3,418	2,970	3,014	3,069	3,038	3,370	3,700
Value, total ²	Mil. dol.	28	27	18	32	29	33	34	34	42	50
Value per head ²	Dol.	4.89	4.40	5.82	9.47	9.81	10.81	11.12	11.32	12.53	13.56
Turkeys, number raised	Mil.	84	106	116	132	132	124	140	136	139	157
Gross income	Mil. dol.	377	424	498	936	683	793	825	910	1,157	1,215
Price per lb.	Cents.	25.4	22.2	22.6	38.2	28.0	34.8	31.7	35.5	43.6	41.1

¹ Excludes commercial broilers. ² 1960 and 1965, as of Jan. 1; beginning 1970, as of Dec. 1. ³ 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. ⁴ Beginning 1970, data are for breeder hens only and cover the 26 major producing States.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual.

NO. 1285. POULTRY—PRODUCTION, BY SELECTED STATES: 1977 TO 1979

[See *Historical Statistics, Colonial Times to 1970*, series K 611, 614, 617, and 621 for U.S. totals]

STATE	CHICKENS PRODUCED (mil.)			BROILERS PRODUCED (mil.)			CHICKS HATCHED COMMERCIALY ¹ (mil.)			TURKEYS RAISED (mil.)		
	1977	1978	1979	1977	1978	1979	1977	1978	1979	1977	1978	1979
U.S.	244.8	237.9	248.5	3,400.0	3,613.1	3,939.8	4,138.6	4,370.9	4,716.7	136.4	138.9	156.5
Ala.	13.2	13.1	15.4	428.1	441.7	493.1	479.3	517.6	568.9	(D)	(D)	-
Ark.	19.7	18.1	21.3	569.6	612.1	679.2	667.1	705.7	769.8	10.8	12.5	13.3
Calif.	18.7	20.0	20.7	112.5	122.4	137.6	170.4	182.1	203.5	17.4	16.8	18.9
Conn.	3.1	3.2	2.9	-	-	-	4.1	(D)	(Z)	(Z)	-	-
Del.	5	5	5	156.1	167.0	175.9	(D)	176.9	141.9	(D)	(D)	-
Fla.	10.4	9.8	11.1	75.7	75.0	78.7	131.1	134.7	142.7	(D)	(D)	.3
Ga.	20.3	21.1	24.8	485.9	531.9	561.3	572.7	621.9	650.4	1.6	1.8	2.5
Ill.	5.1	4.5	4.0	-	-	-	(D)	11.7	13.0	.6	.4	.5
Ind.	13.8	14.1	12.8	13.6	14.4	15.8	55.9	54.3	60.9	4.2	4.7	5.6
Iowa	7.6	6.9	6.6	3.5	3.4	3.0	(D)	(D)	(D)	6.0	6.3	6.2
Ky.	3.1	2.7	2.5	3.6	3.2	3.3	(D)	(D)	(D)	(D)	(D)	-
La.	2.7	2.7	2.4	63.6	75.7	91.3	(D)	(D)	(D)	-	-	-
Maine	5.7	5.8	4.3	86.9	87.9	87.8	102.8	100.4	98.3	(Z)	(Z)	-
Md.	1.5	1.5	1.7	198.5	220.9	244.8	(D)	(D)	(D)	(Z)	.1	.1
Mass.	1.6	1.5	1.6	-	-	-	(D)	(D)	(D)	.1	.1	.1
Mich.	4.6	5.0	4.4	.9	1.2	2.6	(D)	(D)	(D)	1.2	1.2	1.2
Minn.	8.4	7.7	8.5	14.2	15.1	17.0	37.1	41.9	47.3	22.7	21.2	24.7
Miss.	9.0	7.3	7.0	255.8	269.4	276.9	265.5	276.2	287.2	-	-	-
Mo.	6.1	5.5	5.4	24.1	22.2	25.3	(D)	(D)	(D)	9.8	10.5	11.0
N.Y.	7.0	7.0	7.1	-	-	-	(D)	(D)	12.2	.1	.2	.2
N.C.	11.9	11.3	11.4	339.3	353.5	376.6	386.2	394.9	423.9	16.5	18.9	23.1
Ohio	8.1	7.1	6.8	19.4	20.4	19.1	(D)	(D)	(D)	2.5	2.6	2.4
Okla.	1.8	2.3	2.3	29.3	35.3	40.3	(D)	(D)	(D)	1.3	1.5	1.9
Oreg.	1.6	1.6	2.1	15.6	15.5	17.3	30.1	30.3	35.9	1.4	1.3	1.3
Pa.	12.3	12.3	14.6	88.1	99.3	109.2	122.5	136.9	152.6	3.6	3.5	4.7
S.C.	4.8	4.8	7.0	34.5	39.0	43.7	45.8	50.4	51.0	2.4	2.5	3.0
Tenn.	3.1	2.8	3.6	48.9	48.2	57.7	(D)	(D)	(D)	(Z)	(Z)	-
Tex.	11.0	10.6	11.2	185.3	198.4	217.5	229.6	247.5	269.4	8.6	7.3	8.0
Va.	3.5	3.3	3.8	98.0	91.6	111.6	118.4	126.1	149.3	6.7	8.5	9.2
Wash.	4.4	4.7	4.8	16.8	17.3	19.8	21.7	20.2	21.7	(D)	(D)	-
W. Va.	.7	.8	.8	16.3	16.2	18.7	(D)	(D)	(D)	2.1	2.1	2.6
Wis.	3.3	3.6	3.5	10.9	11.2	11.8	(D)	(D)	(D)	5.5	5.7	5.6
Other	16.5	13.9	11.9	3.9	3.8	4.3	(D)	(D)	(D)	9.3	8.1	9.1

- Represents zero. D Withheld to avoid disclosure. Z Less than 50,000. ¹ By commercial hatcheries.

² Includes poultry not available separately by State.

Source: U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual.

1980

101st EDITION

Section 25

Forests and Forest Products

This section presents data on area and ownership of commercial timberland, and on growing stock and volume of timber on it; forestry statistics covering the National Forests and Forest Service cooperative programs; product data for lumber, pulpwood, woodpulp, paper and paperboard, turpentine, and rosin, and similar data.

The principal sources of these data are *An Analysis of the Timber Situation in the United States, 1952-2030, Appendix 3*; *United States Timber Production, Trade, Consumption, and Price Statistics, 1950-79*; *National Forest System*; and *Wildfire Statistics*, 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 monthly and annual *Current Industrial Reports*, issued by the Bureau of the Census. Additional information is published in the *Annual Report of the National Forest Reservation Commission*; the monthly and annual *Naval Stores* of the Department of Agriculture's Economics, Statistics, and Cooperatives Service; the monthly *Survey of Current Business* of the Bureau of Economic Analysis; and the annual *Wood Pulp Statistics* and *The Statistics of Paper and Paperboard* of the American Paper Institute, New York, N.Y.

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.

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

NO. 1286. NATIONAL FOREST LANDS AND PURCHASES: 1950 to 1979

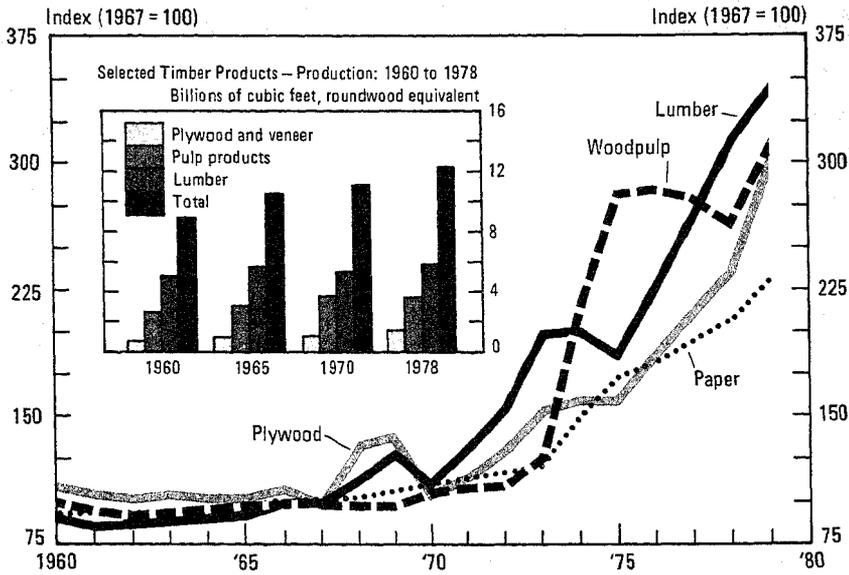
[Area as of June 30, except, beginning 1976, as of Sept. 30; purchases for years ending June 30, except as noted. Includes Puerto Rico. Prior to Oct. 1976, lands to be purchased under the Weeks Law and related acts were approved by the National Forest Reservation Commission which also set prices on such 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	1950	1955	1960	1965	1970	1975	1976	1977	1978	1979
Gross area ¹	Mil acres.....	229	236	227	226	226	226	226	226	225	226
National Forest System.....	Mil acres.....	181	188	186	187	187	188	188	188	188	187
Approved for purchase.....	1,000 acres.....	61	19	8	29	92	12	² 49	45	51	58
Average price per acre.....	Dollars.....	9	10	15	47	125	275	290	371	442	520
Total price.....	Mil dol.....	.5	.2	.1	1.3	11.5	3.3	14.3	16.6	22.5	30.2
Purchases completed.....	1,000 acres.....	97	12	8	33	113	34	² 41	30	29	37
Average price per acre.....	Dollars.....	7	12	31	39	96	267	282	286	411	616
Total price.....	Mil Dol.....	.7	.1	.2	1.3	10.9	9.1	11.7	8.6	11.9	22.3
Gross area of purchase units.....	Mil acres.....	53	62	56	56	56	56	² 56	56	56	56
Purchase completed, net area ³	Mil acres.....	19	19	19	19	20	20	² 20	20	20	20
Average price per acre.....	Dollars.....	4	4	4	4	6	9	10	10	11	12
Total Price.....	Mil dol.....	71	73	75	79	125	179	190	199	211	233

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 For 15 months ending Sept. 30. ³ Cumulative total. Under the March 1, 1911 Act of Congress (Weeks Law), as amended, and related acts.

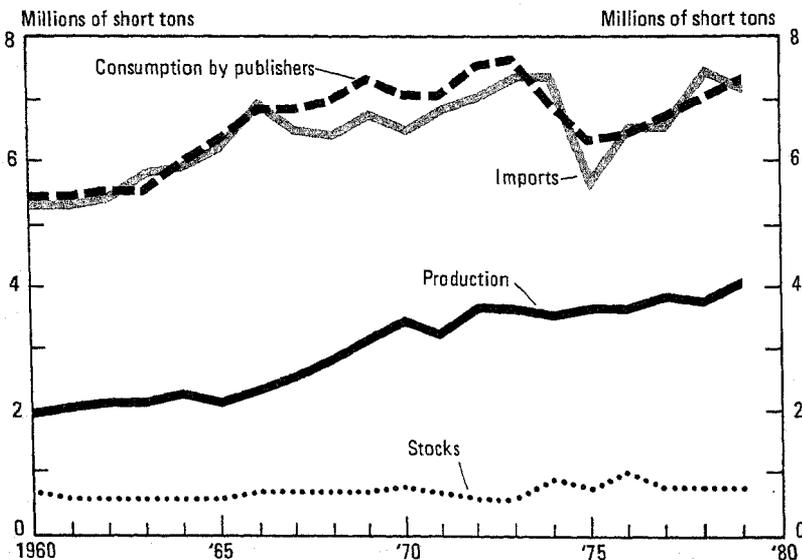
Source: U.S. Forest Service, *National Forest System*, annual; and U.S. National Forest Reservation Commission, *Annual Report*.

Figure 25.1
Selected Timber Products — Producer Price Indexes: 1960 to 1979



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1293 and 1295.

Figure 25.2
Newsprint — Production, Stocks, Consumption, and Imports:
1960 to 1979



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1305.

NO. 1287. FOREST LAND—TOTAL AND COMMERCIAL AREA, VOLUME OF SAWTIMBER, AND GROWING STOCK: 1952 TO 1977

[As of Jan. 1. For composition of regions, see table 1289]

YEAR AND REGION	Total forest land (mil. acres)	COMMERCIAL TIMBERLAND, OWNERSHIP ¹					NET VOLUME OF SAWTIMBER ²			Growing stock, net (bil. bd. ft.)
		All owner-ships (mil. acres)	Feder-ally owned or managed ²	State, county, and municipal (mil. acres)	Private		Total (bil. bd. ft.)	Softwood (bil. bd. ft.)	Hard-wood (bil. bd. ft.)	
					Total (mil. acres)	Per-cent of total				
United States, 1952	664	499	116	28	355	71.1	2,513	2,067	446	603
North	209	170	13	19	137	80.6	249	59	190	111
South	197	192	14	3	175	91.1	410	197	213	126
West	258	138	89	6	43	31.2	1,855	1,811	44	356
United States, 1962	759	509	116	28	366	71.9	2,517	2,033	484	648
North	178	173	12	19	141	81.5	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	111	31	358	72.2	2,539	2,002	537	680
North	186	173	12	20	141	81.5	321	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	72.8	2,579	1,986	594	711
North	178	166	12	19	136	81.3	359	97	263	173
South	207	188	14	3	170	91.0	615	341	274	202
West	352	128	79	8	41	32.0	1,605	1,548	57	336

¹ See footnote 1, table 1289. ² See footnote 3, table 1289. ³ Includes Indian land.

Source: U.S. Forest Service, *An Analysis of the Timber Situation in the United States 1952-2030*, Appendix 3, and *Forest Statistics of the U.S., 1977*.

NO. 1288. NATIONAL FOREST SYSTEM—SUMMARY: 1960 TO 1979

[Through 1976, for years ending June 30, except as noted; thereafter, ending Sept. 30. 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	1965	1970	1973	1974	1975	1976	1977	1978	1979
Timber cut, total value.....	Mil. dol.....	157.1	161.9	307.6	480.1	509.9	368.4	495.4	735.9	858.5	973.0
Commercial and cost sales: ¹											
Volume.....	Mil. bd. ft.....	9,367	11,244	11,527	12,357	10,958	9,174	9,575	10,482	10,080	10,377
Value.....	Mil. dol.....	156	161	308	479	509	366	492	733	855	968
Free use: Volume.....	Mil. bd. ft.....	123	191	179	190	449	618	² 1,080	1,028	1,221	1,637
Value ³	Mil. dol.....	.2	.3	.3	.4	.8	1.1	² 2.1	2.4	2.6	3.8
Misc. forest products.....	Mil. dol.....	.5	.5	.7	.5	.5	1.4	1.2	1.0	1.2	1.1
Livestock grazing: ⁴											
Cattle and horses ⁵	1,000.....	1,307	1,376	1,607	1,571	1,580	1,626	² 1,690	1,587	1,557	1,540
Sheep and goats.....	1,000.....	2,574	2,112	2,105	1,598	1,470	1,549	² 1,750	1,473	1,284	1,249
Roads and trails:											
Road construction ⁶	Miles.....	851	1,613	942	527	36	136	168	1,021	793	820
Trail construction ⁶	Miles.....	142	671	278	858	358	298	270	⁷ 1,222	⁷ 2,119	⁷ 1,390
Expenditures.....	Mil. dol.....	43.2	105.5	155.1	157.5	131.1	157.7	167.6	247.5	279.6	292.0
Receipts, total.....	Mil. dol.....	148.2	149.2	299.7	469.7	485.7	373.1	454.7	691.6	765.4	881.0
Timber use.....	Mil. dol.....	140.1	138.8	283.9	446.7	459.9	341.3	418.6	652.1	723.3	827.6
Grazing use.....	Mil. dol.....	4.5	3.5	4.4	6.2	7.8	7.7	10.9	11.4	11.4	12.5
Special land use, etc.....	Mil. dol.....	3.6	6.9	11.4	16.8	18.0	24.1	25.2	28.1	30.7	40.9
Payments to local gov't ⁸	Mil. dol.....	36.1	36.2	72.8	114.6	118.7	91.0	111.2	225.9	240.6	279.2
25-percent fund ⁹	Mil. dol.....	35.4	35.5	71.9	113.7	117.5	89.8	109.5	224.1	238.9	277.0
Other ¹⁰	Mil. dol.....	.7	.7	.9	.9	1.2	1.2	1.7	1.8	1.7	2.3
Allotments to Forest Service, total ¹¹	Mil. dol.....	14.9	15.0	29.5	48.9	49.2	39.5	47.0	75.1	83.0	93.9
Roads and trails.....	Mil. dol.....	14.2	14.2	28.8	45.5	47.0	35.9	43.8	66.0	73.5	84.2
Other.....	Mil. dol.....	.7	.8	.7	3.4	2.2	3.6	3.2	9.1	9.5	9.7

¹ Includes land exchanges. ² For 15 months ending Sept. 30. ³ Includes some free use timber not reducible to board feet. ⁴ For 1960-1970, data for livestock permitted to graze; 1973-1976, for authorized use; 1977-1979 for number actually grazed. Calendar-year data. Excludes Puerto Rico. ⁵ Excludes animals under 6 months of age. 1960-1972 includes swine. ⁶ Includes reconstruction. Through 1965, excludes national grasslands. ⁷ Figures include work done by the Young Adult Conservation Corps. ⁸ Payments made in following year. ⁹ Includes Tongass Alaska suspense account. ¹⁰ Includes Arizona and New Mexico School Fund, State of Minn. and receipts paid to counties under Bankhead-Jones Farm Tenant Act. ¹¹ For use in following year.

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

NO. 1289. FOREST LAND AREA, COMMERCIAL AREA OWNERSHIP, AND VOLUME OF SAWTIMBER AND GROWING STOCK, BY STATES: 1977 (JAN. 1)

STATE	Total forest land (1,000 acres)	COMMERCIAL TIMBERLAND OWNERSHIP ¹ (1,000 acres)				SAWTIMBER NET VOLUME ²		GROWING STOCK, NET VOLUME ⁴	
		Total	Federal, owned or managed ²	State, county, municipal	Private	Total (mil. bd. ft.)	Softwood (mil. bd. ft.)	Total (mil. cu. ft.)	Softwood (mil. cu. ft.)
U.S.	736,558	482,486	105,472	30,249	346,764	2,578,940	1,985,408	710,968	455,779
North	117,662	166,141	11,964	18,549	135,628	359,021	96,504	173,145	44,574
New Eng	32,461	30,985	770	1,317	28,998	75,507	43,800	41,848	23,383
Conn	1,861	1,806	2	144	1,659	5,870	1,305	2,662	425
Maine	17,718	16,864	73	468	16,323	36,118	25,232	22,604	16,060
Mass	2,952	2,798	10	356	2,432	7,868	4,168	3,893	1,439
N.H.	5,014	4,692	472	108	4,112	14,564	8,607	7,286	3,526
R.I.	404	395	-	32	363	697	289	412	108
Vt.	4,512	4,430	213	209	4,008	10,391	4,199	4,990	1,826
Mid Atl	50,686	46,415	1,505	4,554	40,355	101,959	17,094	56,461	7,606
Del.	392	384	1	13	370	1,393	408	625	169
Md.	2,653	2,523	25	218	2,280	8,167	1,726	3,492	793
N.J.	1,928	1,857	26	291	1,536	3,127	575	1,534	251
N.Y.	17,218	14,243	58	835	13,351	26,088	7,771	13,256	3,523
Pa.	16,926	15,924	503	2,968	12,453	34,251	3,714	23,403	1,778
W. Va.	11,669	11,484	892	229	10,363	28,934	2,901	14,153	1,092
Lake	51,644	47,579	6,750	11,868	29,944	97,766	30,984	44,517	11,901
Mich	19,270	18,778	2,472	3,947	12,359	42,441	13,205	19,214	5,061
Minn	16,709	13,695	2,336	4,992	6,367	24,607	8,531	11,454	3,477
N. Dak.	422	405	114	10	3	474	-	257	(2)
S. Dak. (east)	335	223	74	3	146	448	66	134	23
Wis.	14,908	14,478	1,753	2,934	9,792	29,787	9,183	13,457	3,340
Central	42,872	41,163	2,946	792	37,431	83,788	4,625	30,319	1,684
Ill.	3,810	3,692	269	11	3,413	7,094	30	2,180	24
Ind.	3,943	3,815	239	171	3,405	10,967	255	3,758	87
Iowa	1,561	1,460	57	56	1,348	3,419	14	1,038	6
Kans.	1,344	1,187	27	10	1,151	2,020	1	584	1
Ky.	12,161	11,902	819	77	11,007	28,941	2,091	11,968	916
Mo.	12,876	12,269	1,313	219	10,757	15,270	1,292	6,022	392
Nebr.	1,029	789	67	12	710	1,737	510	442	119
Ohio	6,147	6,029	150	237	5,642	14,341	433	4,328	139
South	206,875	188,045	14,485	3,245	170,315	614,709	341,023	202,009	97,136
So. Atl	48,710	47,677	3,969	883	42,897	171,401	59,988	23,333	33,333
N.C.	20,043	19,562	3,969	398	17,799	76,794	35,375	26,131	10,742
S.C.	12,249	12,175	862	233	11,081	40,837	22,809	14,201	7,079
Va.	16,417	15,939	1,670	252	14,017	53,771	16,134	19,657	5,512
E. Gulf	42,296	40,142	3,040	620	36,482	112,478	74,078	40,134	24,405
Fla.	17,040	15,330	1,623	492	13,215	31,950	21,129	11,733	7,525
Ga.	25,256	24,812	1,417	128	23,268	80,529	52,949	28,402	16,880
Ctr. Gulf	51,297	50,657	2,935	1,016	46,707	162,351	87,903	51,977	23,555
Ala.	21,361	21,333	800	209	20,324	69,396	46,509	22,240	12,339
Miss.	16,716	16,504	1,216	461	14,828	60,642	35,370	17,234	8,929
Tenn.	13,161	12,820	919	346	11,555	32,313	6,024	12,504	2,297
W. Gulf	64,632	49,569	4,614	726	44,229	168,478	104,724	49,910	25,843
Ark.	18,282	18,207	2,718	256	15,233	48,969	26,462	17,145	7,060
La.	14,558	14,527	694	309	13,525	63,418	38,648	17,431	9,417
Okla.	8,513	4,323	463	105	3,755	6,067	3,576	2,062	1,010
Tex.	23,279	12,513	740	56	11,717	50,025	36,039	13,272	8,356
West	352,021	128,299	79,023	8,455	40,821	1,605,211	1,547,882	335,814	314,069
Pac. NW	172,136	53,283	29,552	5,630	18,101	950,326	911,892	186,130	173,155
Alaska	119,145	11,150	8,423	2,438	289	188,858	184,406	43,073	40,620
Oreg.	29,610	24,211	14,201	926	9,084	431,172	414,186	79,554	74,735
Wash.	23,181	17,922	6,928	2,266	8,728	330,296	313,300	63,503	57,800
Pac. SW	42,138	17,251	8,581	548	8,122	264,716	255,611	49,870	45,979
Calif.	40,152	16,303	8,569	106	7,628	263,669	255,594	49,668	45,975
Hawaii	1,986	948	12	442	494	1,047	17	202	4
No. Rocky Mt	55,682	33,478	23,227	1,595	8,657	269,646	267,567	68,699	67,942
Idaho	21,727	13,541	9,640	860	3,021	139,618	139,050	31,884	31,662
Mont.	22,559	14,359	9,260	534	4,565	97,334	96,238	27,977	27,977
S. Dak. (west)	1,367	1,244	958	70	215	5,615	5,597	1,643	1,827
Wyo.	10,028	4,334	3,369	111	855	27,079	26,683	7,195	6,963
So. Rocky Mt	82,065	24,287	17,663	682	5,941	120,524	112,812	31,116	26,993
Ariz.	18,494	3,896	3,696	34	166	22,711	22,063	4,962	4,763
Colo.	22,271	11,315	7,962	234	3,118	54,941	50,684	15,036	12,624
Nev.	7,683	134	61	5	69	1,388	1,363	262	249
N. Mex.	18,060	5,538	3,439	171	1,827	25,919	24,346	6,395	5,796
Utah	15,557	3,405	2,505	239	661	15,565	14,357	4,440	3,562

- Represents zero. Z Less than 500,000 cubic feet. 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 saw log portion of live sawtimber trees in board feet, International 7/4-inch log rule. ⁴ Net volume in cubic feet of live sawtimber and pole/timber 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.

NO. 1290. NATIONAL FOREST LANDS—STATES AND OTHER AREAS: 1979

[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 OR OTHER AREA	Gross area within unit boundaries ¹	National forest system lands	Other lands within unit boundaries
Total	226,344	187,451	38,893				
Ala.....	1,263	643	620	Nev.....	5,423	5,144	279
Alaska.....	20,777	20,160	617	N.H.....	814	694	120
Ariz.....	11,936	11,270	666	N.Mex.....	10,272	9,244	1,028
Ark.....	3,502	2,471	1,031	N.Y.....	13	13	-
Calif.....	24,273	20,343	3,930	N.C.....	3,165	1,159	2,006
Colo.....	15,933	14,415	1,518	N. Dak.....	1,106	1,106	(z)
Conn.....	(z)	(z)	(z)	Ohio.....	834	174	660
Fla.....	1,224	1,094	130	Okla.....	461	293	168
Ga.....	1,911	860	1,051	Oreg.....	17,453	15,610	1,843
Ia.....	21,686	20,423	1,263	Pa.....	743	509	234
Ill.....	840	259	581	S.C.....	1,382	608	774
Ind.....	645	184	461	S. Dak.....	2,269	1,995	274
Kans.....	108	108	-	Tenn.....	1,204	621	583
Ky.....	2,102	665	1,437	Tex.....	1,994	782	1,212
La.....	1,023	598	425	Utah.....	9,129	8,046	1,083
Maine.....	94	52	42	Vt.....	629	271	358
Mich.....	4,870	2,716	2,154	Va.....	3,224	1,612	1,612
Minn.....	5,466	2,795	2,671	Wash.....	10,026	9,067	959
Miss.....	2,310	1,140	1,170	W. Va.....	1,861	966	895
Mo.....	3,082	1,460	1,622	Wis.....	2,023	1,497	526
Mont.....	19,086	16,751	2,335	Wyo.....	9,691	9,253	438
Nebr.....	441	352	89	Puerto Rico.....	56	28	28
				Virgin Islands.....	(z)	(z)	(z)

- Represents zero. Z Less than 500 acres. ¹ See footnote 1, table 1286.Source: U.S. Forest Service, *National Forest System*, annual.

NO. 1291. WILDFIRES—SUMMARY: 1960 TO 1979

[See also *Historical Statistics, Colonial Times to 1970*, series L 44-55]

ITEM	1960	1965	1970	1974	1975	1976	1977	1978	1979
ACREAGE (1,000)									
Protected area:									
Federal ^{1,2}	362,836	555,001	647,239	678,253	677,949	680,243	681,564	680,185	680,223
Area burned ³	622	146	719	1,200	408	519	802	202	1,284
State and private ^{3,4}	402,800	472,023	520,501	708,129	726,356	737,228	748,092	773,772	783,522
Area burned.....	1,909	1,206	1,541	1,511	1,119	2,119	2,096	1,553	1,317
Unprotected area:									
Federal.....	-	55	65,537	54,232	54,232	54,232	54,232	54,232	54,232
State and private.....	32,030	30,294	45,751	63,835	70,848	101,192	98,501	93,972	89,518
Area burned.....	1,947	1,300	1,019	(NA)	(NA)	2,472	(NA)	2,156	433
REPORTED FIRES (1,000)									
Total.....	103.4	113.7	121.7	145.9	134.9	241.7	174.0	218.8	163.2
On protected areas ⁴	89.6	100.6	116.4	120.9	103.3	172.8	158.9	144.9	118.3
Percent of total.....	86.7	88.5	95.6	82.9	76.6	71.5	91.3	66.2	72.5
Federal area ⁵	⁶ 12.1	9.1	15.0	15.0	12.3	15.8	16.3	14.1	13.9
State and private.....	91.3	104.6	106.8	130.8	122.6	225.9	157.7	204.8	149.3
Protected.....	77.5	91.5	101.5	105.8	91.0	157.0	142.6	130.8	104.4
Unprotected.....	13.8	13.1	5.3	25.0	31.6	68.9	15.1	74.0	44.9
Cause of fires: ⁷									
Incendary (arson).....	21.2	26.9	30.9	31.4	28.2	51.3	45.3	46.2	32.5
Debris burning.....	21.9	22.9	28.3	23.0	18.2	38.9	36.1	31.5	26.6
Smoking.....	16.0	16.5	14.5	13.4	10.5	17.7	15.4	13.2	10.2
Lightning.....	11.1	8.7	12.8	12.6	9.4	11.7	15.8	10.8	9.6
Caused by children.....	(NA)	(NA)	7.7	11.1	10.8	14.4	13.1	11.6	11.2
Railroads.....	3.9	(7)	6.8	7.2	5.2	10.8	8.1	6.9	5.5
Campfire use.....	(NA)	(NA)	3.4	5.7	4.6	7.7	6.7	7.1	7.2
Campfires.....	3.6	3.4	3.8	4.3	4.0	5.1	4.6	4.3	3.8
Miscellaneous ⁸	12.0	22.1	8.1	12.1	12.4	15.2	13.7	13.3	11.7
FIRE PROTECTION EXPENDITURES ^{9,9} (mil. dol.)									
Total funds.....	56.6	76.6	113.5	150.4	169.0	189.8	217.0	212.0	216.2
Federal.....	9.4	12.8	16.4	20.1	25.2	22.6	20.7	30.0	30.6
State and county.....	45.1	62.6	95.3	130.3	143.9	167.1	196.3	182.0	185.6
Private.....	2.2	1.2	1.8						

- Represents zero. NA Not available. ¹ Comprises land administered by U.S. Dept. of Agriculture, U.S. Dept. of Interior, and Tennessee Valley Authority, etc. ² Beginning 1965, includes nonforest watershed areas under U.S. Dept. of Interior protection. ³ 1960 excludes Alaska; 1975 and 1977 include Guam. ⁴ Includes nonforest watershed areas. ⁵ For protected areas only. ⁶ Excludes nonforested watershed lands under U.S. Dept. of Interior protection. ⁷ Included in various other classifications. ⁸ 1960, lumbering included in "Miscellaneous"; thereafter in various other classifications; no previous breakdown was shown for fires caused by children. ⁹ For fire protection on State, county, and private lands only; years ending June 30 through 1976; thereafter, ending Sept. 30.

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

NO. 1292. FOREST TREE DISTRIBUTION AND FOREST MANAGEMENT: 1960 TO 1978

[For years ending June 30 except, beginning 1976, ending Sept. 30. See also *Historical Statistics, Colonial Times to 1970*, series L 32-48]

ITEM	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
Forest trees distributed ¹	Millions	845	509	495	553	581	540	578	506	657	(NA)
Costs, total	\$1,000	6,573	6,865	8,544	5,810	6,200	8,890	5,537	(NA)	(NA)	(NA)
Federal contributions	\$1,000	186	216	197	175	214	216	225	143	145	(NA)
State expenditures	\$1,000	6,387	6,649	8,347	5,636	5,986	6,674	5,312	(NA)	(NA)	(NA)
Acreage planted ²	1,000	2,137	1,325	1,600	1,680	1,750	1,604	1,931	1,892	1,978	2,176
Forest management program: ³											
Woodland owners assisted	1,000	82	99	115	274	106	118	141	105	134	165
Woodland involved	1,000 acres	4,116	6,165	6,945	11,158	6,472	7,106	10,369	4,085	4,614	5,750
Products harvested	Mil. bd. ft.	596	717	1,226	956	1,579	907	678	597	921	1,121
Gross sale value	Mil. dol.	14	17	32	24	38	44	28	(NA)	(NA)	(NA)
Expenditures, total	Mil. dol.	3.9	6.8	11.6	14.6	16.5	19.4	22.4	23.3	(NA)	(NA)
Federal	Mil. dol.	1.4	2.7	3.7	4.3	4.1	4.3	4.7	4.7	5.5	(NA)
State	Mil. dol.	2.5	4.1	8.0	10.3	12.4	15.2	17.8	18.6	(NA)	(NA)

NA Not available. ¹ Provided by Clark-McNary Program Act of June 7, 1924 as amended. ² Includes areas planted by direct seeding; excludes areas satisfactorily reforested or established as wind barriers because some of the plantings or seedlings are not successful. ³ Under the Cooperative Forest Management Act of August 25, 1950, and related legislation.

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

NO. 1293. TIMBER PRODUCTS—PRODUCTION, FOREIGN TRADE, AND CONSUMPTION, BY TYPE OF PRODUCTION, 1960 TO 1978

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

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978, prel.
Industrial roundwood:										
Domestic production ¹	8,920	10,555	11,105	11,440	11,925	11,540	10,570	11,815	11,965	12,230
Softwoods	6,930	8,130	8,635	8,945	9,255	8,815	8,380	9,340	9,435	9,520
Hardwoods	1,995	2,430	2,470	2,495	2,670	2,725	2,195	2,475	2,535	2,710
Imports	1,680	2,105	2,430	3,060	3,150	2,755	2,220	2,840	3,310	3,760
Exports	455	740	1,540	1,545	1,755	1,805	1,685	1,870	1,795	1,870
Consumption ²	10,145	11,925	11,995	12,960	13,325	12,490	11,105	12,785	13,480	14,125
Softwoods	8,065	9,380	9,425	10,245	10,470	9,710	8,875	10,225	10,840	11,330
Hardwoods	2,080	2,545	2,565	2,710	2,855	2,780	2,230	2,560	2,640	2,795
Lumber:										
Domestic production	^a 5,080	5,665	5,215	5,535	5,670	5,095	4,890	5,475	5,730	5,820
Imports	610	815	955	1,415	1,460	1,115	930	1,290	1,675	1,910
Exports	135	145	195	215	300	270	255	290	260	285
Consumption	5,560	6,335	5,970	6,740	6,830	5,940	5,565	6,475	7,140	7,440
Plywood and veneer:										
Domestic production	705	1,030	1,020	1,300	1,320	1,150	1,165	1,355	1,425	1,460
Imports	80	100	170	270	225	155	170	215	210	225
Exports	(2)	5	15	25	40	50	70	65	35	50
Consumption	765	1,125	1,170	1,550	1,510	1,255	1,265	1,500	1,600	1,635
Pulp products:										
Domestic production	2,575	3,090	3,835	3,520	3,755	4,220	3,485	3,805	3,645	3,745
Imports	985	1,175	1,280	1,365	1,460	1,470	1,105	1,320	1,395	1,610
Exports	275	380	720	625	640	805	715	710	725	730
Consumption	3,290	3,890	4,400	4,260	4,575	4,885	3,875	4,420	4,320	4,630
Logs: Imports	20	15	25	10	5	15	15	15	30	20
Exports	45	205	465	535	575	455	455	555	525	585
Pulpwood chips, exports	-	5	145	140	200	230	195	245	250	225
Other industrial prod. ⁴ consumption	510	560	425	405	405	395	385	380	390	400
Fuelwood consumption	1,300	915	540	475	505	535	570	600	635	680

- Represents zero. 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.

Source: U.S. Forest Service, *United States Timber Production, Trade, Consumption, and Price Statistics, 1950-79*, annual.

NO. 1294. TIMBER PRODUCTS—PER CAPITA CONSUMPTION: 1960 TO 1978

[Based on total population estimated as of July 1. See also *Historical Statistics, Colonial Times to 1970*, series L87-97]

PRODUCT	Unit	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978, prel.
All products	Cu. ft.	63.3	66.1	61.2	64.3	65.7	61.5	54.7	62.2	65.1	67.7
Industrial roundwood	Cu. ft.	56.1	61.4	58.5	62.1	63.3	58.9	52.0	59.4	62.1	64.6
Lumber	Cu. ft.	30.8	32.6	29.1	32.3	32.5	28.0	26.0	30.1	32.9	34.1
Plywood and veneer	Cu. ft.	4.2	5.8	5.7	7.4	7.2	5.9	5.9	7.0	7.4	7.5
Pulp products	Cu. ft.	18.2	20.0	21.5	20.4	21.7	23.1	18.1	20.5	19.9	21.2
Other products	Cu. ft.	2.8	2.9	2.1	1.9	1.9	1.9	1.8	1.8	1.8	1.8
Fuelwood	Cu. ft.	7.2	4.7	2.6	2.3	2.4	2.5	2.7	2.8	2.9	3.1
Lumber	Bd. ft.	199	212	193	219	220	189	173	198	216	223
Plywood and veneer	Bd. ft.	25	35	34	44	41	33	33	38	40	41
Pulp products	Cords (128 cu. ft.)	.2	.3	.3	.3	.3	.3	.2	.3	.3	.3

Source: U.S. Forest Service, *United States Timber Production, Trade, Consumption, and Price Statistics, 1950-79*, annual.

NO. 1295. SELECTED TIMBER PRODUCTS—PRODUCER PRICE INDEXES: 1960 TO 1979

[1967 = 100. 1960 excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series L 206-210]

PRODUCT	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979, pref.
Lumber products.....	92	94	114	159	205	207	193	233	277	322	354
Softwood lumber.....	93	93	113	168	214	211	201	248	297	346	380
Douglas fir.....	89	92	109	161	210	214	212	251	291	340	383
Southern pine.....	94	91	115	152	188	185	175	217	263	305	324
Ponderosa pine, # 3 boards.....	104	94	116	192	264	246	211	271	340	385	466
Hardwood lumber.....	91	97	115	126	169	190	180	176	200	236	260
Oak, red, flooring, select.....	99	108	113	128	202	203	159	(NA)	227	285	359
Gum # 1, common.....	68	82	93	109	142	159	115	125	127	164	182
Poplar # 1, common.....	80	85	105	108	150	173	121	131	137	163	174
Birch # 1, common.....	89	96	91	96	123	140	122	127	137	144	157
Plywood.....	110	104	108	131	155	161	161	187	212	236	251
Softwood.....	113	106	114	155	194	187	201	248	296	328	323
Hardwood.....	105	101	103	104	119	130	120	123	128	140	169
Insulation board.....	114	98	111	119	122	134	144	161	178	203	200
Woodpulp.....	102	100	110	112	128	218	283	286	281	267	315
Paper.....	93	95	111	116	121	149	173	182	194	206	230
Paperboard.....	105	102	101	106	115	152	170	176	176	180	202
Containerboard.....	106	104	99	104	113	146	172	176	172	173	198
Hardboard and particleboard.....	104	104	93	96	106	115	114	124	141	170	166

NA Not available.

Source: U.S. Department of Agriculture, Economics, Statistics, and Cooperative Service, *Agricultural Statistics*, annual.

NO. 1296. SELECTED SPECIES—STUMPAGE AND LOG PRICES: 1960 TO 1979

[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	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Softwoods:											
Douglas-fir ¹	32.00	42.60	41.90	71.70	138.10	202.40	169.50	176.20	225.90	250.30	394.40
Southern pine ²	34.50	31.70	44.10	65.60	93.40	75.20	57.00	87.00	100.30	134.50	155.20
Sugar pine ³	29.00	23.30	38.50	66.20	69.20	104.00	99.20	187.20	169.60	159.60	365.00
Ponderosa pine ⁴	19.10	19.80	32.10	65.80	92.30	100.60	71.20	103.20	131.40	164.70	239.00
Western hemlock ⁵	10.50	19.10	20.50	49.00	99.20	110.80	68.80	79.70	89.30	113.60	200.60
Hardwoods:⁶											
All eastern hardwoods.....	22.80	25.00	26.90	34.30	46.00	45.90	33.90	34.90	37.90	41.10	46.80
Oak, white, red, and black.....	23.40	21.30	26.60	26.60	43.60	54.70	29.70	43.40	60.00	59.20	66.80
Maple.....	35.00	31.90	34.40	59.40	71.40	79.50	39.60	36.60	42.10	57.40	33.90
Douglas-fir log prices:⁷											
Saw logs ⁸	58.40	63.00	89.30	95.10	172.30	180.50	168.70	202.90	242.80	284.60	(NA)
Peeler logs ⁹	100.10	93.90	136.60	148.90	320.40	299.30	274.40	377.70	322.20	446.40	(NA)

NA Not available. ¹ Western Washington and western Oregon. ² Southern region. ³ California region. ⁴ 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 1972, grade 4 logs. ⁹ Includes special fir peeler or special mill grade.

NO. 1297. AVERAGE HOURLY EARNINGS IN TIMBER-BASED INDUSTRIES: 1970 TO 1979

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

ITEM	EARNINGS (dollars)						INDEX (1972 = 100)					
	1970	1975	1976	1977	1978	1979	1970	1975	1976	1977	1978	1979
Lumber and wood products ¹	2.96	4.26	4.72	5.10	5.60	6.08	89	128	142	153	168	183
Logging camps and contractors.....	(NA)	5.28	6.03	6.58	7.26	8.06	(NA)	124	142	155	171	190
Sawmills and planing mills.....	2.84	4.34	4.86	5.28	5.82	6.29	86	132	148	160	177	191
Millwork, plywood, and structural members.....	(NA)	4.26	4.67	5.04	5.56	5.98	(NA)	126	139	150	165	177
Paper and allied products.....	3.44	5.01	5.47	5.96	6.52	7.12	87	127	138	151	165	180
Furniture and fixtures.....	2.77	3.78	3.99	4.34	4.68	5.06	90	123	130	141	152	164

NA Not available. ¹ Excludes furniture.

Source of tables 1296 and 1297: U.S. Forest Service, *United States Timber Production, Trade Consumption, and Price Statistics, 1950-79*, annual.

NO. 1298. LUMBER PRODUCTION AND CONSUMPTION, BY KIND OF WOOD: 1960 TO 1978

(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	1965	1970	1972	1973	1974	1975	1976	1977	1978 pref.
Total production	32,926	36,762	34,668	37,745	38,595	34,608	32,619	36,295	37,682	38,233
Softwoods ¹	26,672	29,295	27,530	30,975	31,586	27,704	26,747	29,878	31,202	31,273
Cedar.....	(S) 633	633	633	756	785	811	821	934	967	929
Douglas fir.....	8,832	8,783	7,727	8,459	8,686	7,901	7,329	8,207	8,543	8,601
Hemlock.....	2,032	1,745	1,980	2,692	2,711	2,105	2,020	2,454	2,439	2,728
Ponderosa pine.....	3,169	3,776	3,429	4,001	4,030	3,580	3,544	4,032	4,167	4,175
Redwood.....	1,000	1,067	1,078	1,242	1,277	1,170	1,054	1,128	1,148	917
Southern yellow pine.....	5,660	6,628	7,063	7,884	7,895	6,921	6,967	7,598	8,239	8,267
White fir.....	2,224	2,422	2,063	2,307	2,438	2,071	2,012	2,104	2,184	2,099
White pine.....	675	693	698	1,056	1,069	925	947	1,060	1,080	1,154
Hardwoods ¹	6,254	7,467	7,138	6,770	7,009	6,904	5,872	6,417	6,680	6,960
Ash.....	125	141	159	148	140	143	124	137	144	160
Beech.....	195	182	188	182	176	167	136	140	137	146
Cottonwood.....	206	198	229	268	326	312	253	309	355	372
Elm.....	195	206	155	141	145	155	117	131	149	151
Maple.....	602	786	742	624	643	574	531	569	543	561
Oak.....	2,789	3,356	3,250	3,121	3,227	3,160	2,724	2,996	3,103	3,220
Sweet gum ²	331	387	376	332	342	294	245	286	377	412
Tupelo and black gum.....	292	385	335	319	309	331	251	277	252	267
Yellow poplar.....	525	681	606	628	701	710	555	596	605	645
Domestic consumption ³	35,225	40,782	38,073	46,747	45,555	38,866	36,099	42,194	46,969	48,253
Percent net imports ⁴	8.7	10.6	12.7	17.1	16.6	14.2	12.0	15.2	19.3	21.7
Softwoods.....	28,974	32,701	31,585	39,354	38,088	32,082	30,308	35,753	40,079	41,455
Per capita (bd. ft.).....	164	172	155	189	181	152	142	167	185	190
Mill stocks, yearend.....	5,285	4,145	4,340	3,576	3,593	3,967	3,854	3,719	3,580	3,463
Exports.....	688	777	1,152	1,196	1,773	1,506	1,373	1,583	1,413	1,369
Imports.....	3,631	4,895	5,769	8,977	9,002	6,807	5,711	7,950	10,380	11,825
Canada ⁵	3,756	4,856	5,723	8,878	8,844	6,732	5,677	7,913	10,327	11,777
Hardwoods.....	6,252	8,081	6,488	7,393	7,467	6,784	5,791	6,441	6,890	6,798
Per capita (bd. ft.).....	35	39	32	35	35	32	27	30	32	31
Mill stocks, yearend.....	2,067	1,065	1,144	581	759	1,109	1,093	1,122	1,027	971
Exports.....	173	145	138	252	222	235	245	262	251	345
Imports.....	291	338	347	457	558	464	237	288	351	361
Canada ⁵	118	161	145	151	155	115	62	83	81	103

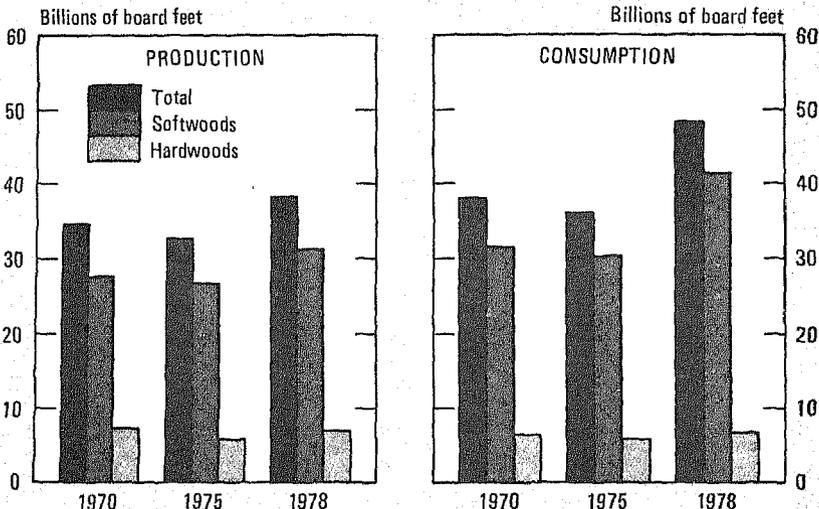
S. Figure does not meet publication standards. ¹ Includes types not shown separately. ² Red and sap.

³ Source: Copeland Economics Group, Inc., Stamford, Conn. ⁴ Imports minus exports. ⁵ Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-79*, annual.

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

Figure 25.3

Lumber Production and Consumption, by Kind of Wood: 1970 to 1978



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1298.

NO. 1299. LUMBER PRODUCTION, BY GEOGRAPHIC DIVISIONS: 1970 TO 1978

[Data based in part on a sample of sawmills and are subject to sampling variability, see source. For composition of divisions, see fig. 1, inside front cover. See *Historical Statistics, Colonial Times to 1970*, series L 113-121, for data by regions]

GEOGRAPHIC DIVISION	PRODUCTION (bil. bd. ft.)							PERCENT		
	1970	1973	1974	1975	1976	1977	1978, prel.	1970	1975	1978, prel.
United States	34.7	38.6	34.6	32.6	36.3	37.9	38.2	100.0	100.0	100.0
North ¹	4.4	4.6	4.4	4.1	4.5	4.7	4.9	12.8	12.6	12.8
Hardwood.....	3.4	3.5	3.3	3.0	3.3	3.4	3.4	9.8	9.2	8.9
Softwood.....	1.0	1.1	1.1	1.1	1.3	1.3	1.5	3.0	3.4	3.9
South ¹	10.8	11.4	10.4	9.7	10.6	11.4	11.7	31.2	29.7	30.6
Hardwood.....	3.6	3.4	3.4	2.7	3.0	3.1	3.3	10.5	8.3	8.6
Softwood.....	7.2	8.0	7.0	7.0	7.7	8.3	8.4	20.7	21.4	22.0
West ^{1,2}	19.4	22.6	19.7	18.8	21.1	21.8	21.6	56.0	57.7	56.6
New England.....	.7	.8	.8	.8	.9	.9	1.0	2.2	2.5	2.6
Middle Atlantic.....	.8	.8	.9	.7	.8	.9	.9	2.3	2.2	2.4
East North Central.....	1.2	1.3	1.2	1.1	1.2	1.3	1.4	3.5	3.4	3.6
West North Central.....	.6	.6	.6	.5	.6	.6	.7	1.8	1.7	1.8
South Atlantic.....	5.2	5.5	5.1	4.7	5.2	5.3	5.4	15.1	14.6	14.1
East South Central.....	3.4	3.6	3.4	3.0	3.3	3.6	3.7	9.8	9.1	9.6
West South Central.....	3.2	3.3	2.9	3.0	3.1	3.5	3.6	9.3	9.1	9.4
Mountain.....	4.2	4.6	3.9	3.9	4.6	4.7	4.6	12.0	12.1	12.0
Pacific.....	15.3	18.0	15.8	14.8	16.6	17.1	17.0	44.0	45.4	44.5

¹ Source: U.S. Forest Service, *United States Timber Production, Trade, Consumption, and Price Statistics, 1950-79*, annual. ² Includes small volumes of western hardwoods—about 2 billion board feet in recent years.

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

NO. 1300. LOGS—EXPORTS AND IMPORTS: 1960 TO 1979

[In millions of board feet, log scale. See also *Historical Statistics, Colonial Times to 1970*, series L 138-150]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Exports	266	1,193	2,741	3,366	2,642	2,667	3,250	3,070	3,409	3,897
Softwoods.....	210	1,111	2,672	3,252	2,524	2,601	3,156	2,980	3,298	3,768
Hardwoods.....	56	81	69	114	119	66	94	90	111	129
Imports	113	68	144	34	77	86	82	155	97	133
Softwoods.....	32	14	107	9	46	69	67	140	79	118
Hardwoods.....	80	55	38	25	31	17	14	15	18	15

Source: U.S. Forest Service, *United States Timber Production, Trade, Consumption, and Price Statistics, 1950-79*, annual.

NO. 1301. WOOD PRODUCTS—PRODUCTION: 1960 TO 1979

ITEM	Unit	1960	1965	1970	1974	1975	1976	1977	1978	1979, prel.
Hardwood flooring.....	Mil. bd. ft.		915	808	333	205	155	190	220	225
Softwood plywood.....	Bil. sq. ft., %" basis.....		7.8	12.4	14.1	15.3	17.9	18.9	19.5	19.7
Insulation boards.....	1,000 short tons.....	1,098	1,258	1,219	1,295	1,249	1,434	1,403	1,416	1,424
Hardboard.....	1,000 short tons.....	686	1,093	1,463	1,978	1,784	2,110	2,237	2,294	2,124
Particleboard.....	Mil. sq. ft. %" basis.....	268	780	1,764	3,094	2,367	3,000	3,590	3,866	3,550

Source: U.S. Dept. of Commerce, Bureau of Industrial Economics, *Construction Review*, monthly. Based on reports of U.S. Bureau of the Census and National Particleboard Association, Silver Spring, Md.

NO. 1302. PLYWOOD—PRODUCTION, IMPORTS, EXPORTS, CONSUMPTION, AND VALUE OF SHIPMENTS: 1960 TO 1978

[In mil. sq. ft., %" basis, except as indicated. See also *Historical Statistics, Colonial Times to 1970*, series L 151-165]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978
Total production.....	8,861	14,477	15,945	19,873	19,736	16,707	16,758	18,989	20,065	20,664
Softwood.....	7,759	12,428	14,149	17,843	17,929	15,306	15,706	17,906	18,877	19,492
Hardwood.....	1,102	2,049	1,796	2,030	1,807	1,401	1,052	1,083	1,187	1,173
Imports.....	725	1,052	2,049	3,162	2,536	1,649	1,925	2,368	2,273	2,555
Exports.....	15	37	172	247	452	610	859	795	357	328
Consumption.....	9,571	15,492	17,822	22,788	21,820	17,746	17,823	20,561	21,981	22,891
Shipments, total ¹ (mil. dol.).....	(NA)	1,124	1,268	2,038	2,337	2,020	2,073	2,779	3,602	4,070
Softwood (mil. dol.).....	(NA)	775	959	1,666	1,928	1,626	1,726	2,362	3,125	3,549
Hardwood (mil. dol.).....	(NA)	349	310	372	409	394	347	417	477	521

NA Not available. ¹ Source: U.S. Bureau of the Census, *Current Industrial Reports*, series MA-24F and MA-24H, both annual. Includes interplant transfers.

Source: Except as noted, U.S. Forest Service, *U.S. Timber Production Trade, Consumption, and Price Statistics, 1950-79*, annual.

NO. 1303. PULPWOOD—PRODUCTION, CONSUMPTION, AND PRICES: 1950 TO 1978

[In millions of standard cords of 128 cubic feet, except as indicated. Excludes Alaska in 1950 and Hawaii prior to 1965. See *Historical Statistics, Colonial Times to 1970*, series L 166 and L 168, for similar data]

ITEM	1950	1955	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978 prel.
Production, total.....	20.7	30.9	40.0	52.3	70.5	71.2	77.1	81.7	68.9	77.1	79.5	79.8
Softwood.....	17.8	25.6	31.5	39.8	53.4	53.2	56.7	59.5	52.2	57.8	59.9	58.6
Hardwood.....	2.9	5.3	8.5	12.5	17.1	18.0	20.4	22.2	16.6	19.3	19.6	21.2
Consumption ¹	23.6	33.4	40.5	52.0	67.6	71.5	73.6	74.3	65.4	73.2	74.0	(NA)
Softwood.....	20.4	27.7	32.1	39.7	51.3	53.6	54.8	54.6	48.9	54.8	55.5	(NA)
Hardwood.....	3.2	5.6	8.4	12.3	16.3	17.9	18.8	19.8	16.5	18.4	18.5	(NA)
Prices: ²												
Southern pine:												
Mid-south.....	12.15	14.60	16.05	16.30	18.80	20.80	23.85	28.25	28.70	29.75	31.40	33.15
Southeast.....	11.90	14.40	16.45	17.65	21.10	22.85	28.20	32.80	33.20	33.60	34.65	36.25
Louisiana.....	(NA)	14.10	14.85	15.70	17.70	19.25	22.50	28.30	29.25	30.45	31.65	34.55
Hardwoods:												
Mid-south.....	10.65	12.90	13.10	13.80	16.95	18.55	21.30	25.70	25.70	26.50	28.10	30.35
Southeast.....	(NA)	(NA)	13.60	14.35	17.15	18.95	21.15	24.10	24.55	24.55	26.55	28.15
Louisiana.....	(NA)	12.25	12.15	13.65	17.45	19.00	22.00	25.00	26.20	26.10	27.20	28.30
New Hampshire.....	14.50	(NA)	18.50	16.10	20.00	23.50	26.00	28.50	31.65	33.00	35.00	37.00

NA Not available. ¹Source: U.S. Bureau of the Census, *Current Industrial Reports*, series M26A, monthly and annual.

² Dollars per standard cord.

Source: Except as noted, U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1950-79*, annual.

NO. 1304. PAPER AND PAPERBOARD—PRODUCTION AND CONSUMPTION: 1965 TO 1979

[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					
	1965 ¹	1970 ¹	1975	1977	1978	1979, prel.	1965	1970	1975	1977	1978	1979, prel.
Total paper and paperboard ^{2,3}	44.2	53.6	52.9	62.1	64.3	67.0	49.2	58.0	56.1	66.5	70.4	72.7
Paper.....	19.2	23.6	23.3	27.4	28.3	29.8	25.2	30.1	28.3	33.8	36.2	37.5
Newsprint.....	2.1	3.3	3.7	3.9	3.8	4.1	8.4	9.8	9.4	10.3	11.2	11.2
Coated printing, converting.....	2.8	3.3	3.2	4.3	4.4	4.5	2.8	3.2	3.1	4.2	4.6	4.6
Book paper, uncoated.....	2.1	2.6	2.3	3.0			2.1	2.7	2.4	3.2		
Other printing, writing, etc.....	4.2	5.1	5.5	6.6		10.1	4.3	5.3	5.3	6.6	10.6	11.7
Packaging and industrial converting.....	5.0	5.4	4.6	5.4	5.8	5.8	4.8	5.3	4.3	5.2	5.6	5.7
Tissue and other mach. creped.....	2.9	3.8	4.0	4.3	4.2	4.5	2.9	3.8	3.9	4.3	4.2	4.5
Paperboard ²	20.8	25.5	24.8	29.0	30.3	31.6	19.7	23.4	22.8	26.7	27.9	29.0
Unbleached kraft.....	7.8	11.6	11.5	13.7	14.4	15.2	6.9	9.9	10.5	12.4	12.9	13.6
Bleached kraft.....	2.3	3.4	3.3	3.7	4.0	4.0	2.2	3.3	3.1	3.3	3.5	3.6
Semichemical.....	2.7	3.4	3.7	4.3	4.4	4.7	2.6	3.4	3.6	4.1	4.4	4.7
Recycled furnish.....	8.1	7.0	6.2	7.3	7.5	7.7	8.0	6.9	6.2	7.3	7.5	7.7
Construction paper and board.....	3.9	4.3	4.6	5.5	5.8	5.6	4.1	4.4	4.7	5.8	6.2	6.0

¹ Compiled from U.S. Bureau of the Census reports. ² Consumption data adjusted for net exports of converted products. ³ Includes wet machine board, not shown separately.

Source: American Paper Institute, New York, N.Y., *The Statistics of Paper and Paperboard*, annual.

NO. 1305. NEWSPRINT—PRODUCTION, STOCKS, CONSUMPTION, IMPORTS, AND PRICE: 1960 TO 1979

[In thousands of short tons, except price. See also *Historical Statistics, Colonial Times to 1970*, series L 192-198]

COUNTRY AND ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Canada:										
Production.....	6,739	7,720	8,607	9,140	9,548	7,679	8,915	8,998	9,713	9,600
Shipments from mills.....	6,752	7,747	8,592	9,139	9,597	7,727	8,712	9,005	9,792	9,625
Stocks at mills, end of year.....	140	150	236	193	143	95	299	282	203	178
United States: ¹										
Total estimated consumption, all users ²	6,962	8,016	9,119	10,784	10,284	9,254	9,611	10,230	10,874	11,240
Production ³	2,038	2,245	3,464	3,738	3,561	3,690	3,736	3,870	3,768	4,096
Shipments from mills ³	2,031	2,248	3,457	3,742	3,560	3,690	3,728	3,866	3,779	4,100
Stocks, end of year: At mills ³	26	19	33	23	25	21	29	34	22	16
At and in transit to publishers.....	628	573	749	603	827	734	921	796	728	692
Imports ⁴	5,412	6,323	6,635	7,410	7,399	5,847	6,569	6,559	7,484	7,223
Producer price index (1967=100).....	96.1	94.6	107.6	122.2	151.2	184.0	198.2	215.4	226.3	249.4

¹ Excludes Alaska and Hawaii, except as noted. ² Based on Newspaper Publishers Association sample of publishers. See also table 1007. ³ Beginning 1965, includes Alaska and Hawaii. ⁴ Source: Reports of U.S. Bureau of the Census. Includes Alaska, Hawaii, and Puerto Rico.

Source: Except as noted, U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1980. Data from American Newspaper Publishers Association, Reston, Va., and American Paper Institute, Inc., New York, N.Y.

NO. 1306. WOODPULP—NEW SUPPLY AND CONSUMPTION: 1960 TO 1979

[In million of short tons. 1960 excludes Hawaii. See also *Historical Statistics, Colonial times to 1970*, series L 169-170]

ITEM	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Total new supply ¹	26.6	35.7	44.0	48.1	50.0	49.7	43.6	48.9	50.4	51.1	54.1
Production, total ²	25.3	34.0	43.5	46.8	48.3	48.3	43.1	47.7	49.1	49.7	52.7
Sulphate	14.6	21.5	29.5	31.8	33.0	33.0	29.2	32.8	34.2	35.2	38.0
Groundwood ³	3.3	3.6	4.4	4.6	4.7	4.7	4.4	4.6	4.9	4.8	4.4
Imports	2.4	3.1	3.5	3.7	4.0	4.1	3.1	3.7	3.9	4.0	4.3
Exports	1.1	1.4	3.1	2.3	2.3	2.8	2.6	2.5	2.6	2.6	2.9
Consumption in paper and board ²	25.7	34.0	43.2	47.3	48.8	48.3	42.4	47.5	48.5	49.6	51.7

¹ Production plus imports, less exports. ² Source: U.S. Bureau of the Census, *Current Industrial Reports*, through 1978. Production includes other, not shown separately. ³ Beginning 1975, includes thermochemical pulp.

Source: Except as noted, American Paper Institute, Inc., New York, N.Y., *Statistics of Paper and Paperboard*, annual, and *Monthly Statistical Summaries*.

NO. 1307. WASTEPAPER UTILIZATION AND RECOVERY RATES: 1960 TO 1979

[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	1965	1970	1973	1974	1975	1976	1977	1978	1979
Paper and board, production.....	¹ 34.4	¹ 44.1	¹ 53.5	61.9	61.1	52.8	60.5	62.0	64.3	67.0
Wastepaper consumption	¹ 9.0	¹ 10.2	11.8	14.1	14.0	11.7	13.6	14.1	14.8	15.4
Wastepaper utilization rate (percent)	26.2	23.1	22.1	22.8	22.9	22.2	22.5	22.7	23.0	23.0
Other wastepaper uses ¹ .....	.20	.20	.20	.48	.48	.50	.63	.84	.43	.50
Wastepaper exports ² .....	.15	.29	.41	.68	1.31	.86	1.27	1.51	1.60	2.10
Total wastepaper recovered.....	9.3	10.6	12.3	15.2	15.7	13.1	15.4	16.3	16.8	18.0
Paper and board, new supply.....	¹ 39.1	¹ 49.1	¹ 57.9	67.3	65.5	56.0	64.3	66.4	70.4	72.7
Recovery rate (percent)	23.8	21.5	21.2	22.6	23.9	23.3	23.9	24.6	23.9	24.8

¹ Estimated.

² Source: U.S. Bureau of the Census.

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

NO. 1308. TURPENTINE AND ROSIN—PRODUCTION, IMPORTS, EXPORTS, AND CONSUMPTION: 1960 TO 1979

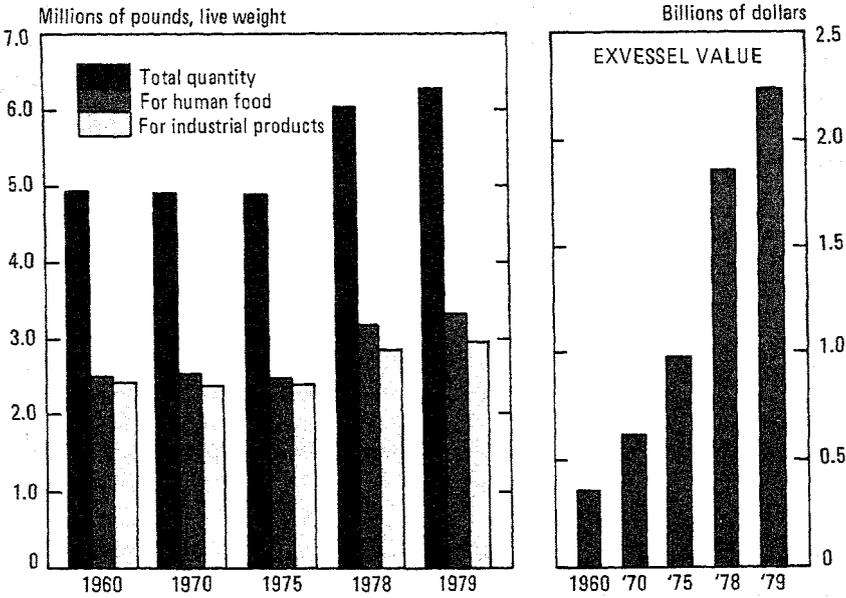
[For years beginning April 1. Except as indicated, turpentine in thousands of 50-gallon barrels and rosin in thousands of drums (520 pounds net weight for wood; 517 pounds for gum). See *Historical Statistics, Colonial Times to 1970*, series L 176 and L 177, for total production]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979 ¹
Turpentine:										
Production.....	604.8	700.7	575.8	530.6	487.0	447.6	482.2	477.1	507.7	527.8
Gum	119.0	111.4	25.8	21.4	15.6	20.7	17.4	14.5	9.7	6.7
Wood	485.8	589.3	550.0	509.2	471.4	426.9	464.8	462.6	498.0	521.1
Value of production (\$1,000)	2,849	3,091	1,550	863	1,084	1,640	1,278	1,035	784	686
Price per gallon (dol.) .....	.479	.555	1.200	.806	1.389	1.585	1.427	1.425	1.610	2.036
Imports	15.6	18.0	24.1	33.6	29.7	58.6	16.3	7.9	7.1	7.8
Exports	81.8	45.1	39.7	30.7	16.3	4.2	20.3	19.4	15.3	13.5
Gum	23.2	21.5	6.1	3.2	2.1	1.5	2.1	.9	.6	.6
Wood	58.6	23.6	33.5	27.5	14.2	2.7	18.2	18.5	14.7	12.9
Industrial consumption.....	376.8	535.6	536.2	443.1	439.7	423.5	480.6	473.3	505.3	504.3
Gum	3.5	8.2	3.1	1.9	2.0	2.2	1.8	1.7	1.5	1.1
Wood	373.2	527.4	533.1	441.4	437.7	421.2	478.8	471.5	503.7	503.2
Rosin:										
Production.....	2,010	2,067	1,856	1,584	1,306	1,088	1,357	1,301	1,339	1,363
Gum	370	361	88	74	54	72	61	51	35	24
Wood	1,640	1,706	1,568	1,510	1,252	1,016	1,296	1,250	1,304	1,339
Value of production (\$1,000)	27,787	19,352	6,818	6,737	10,106	9,398	7,971	6,702	4,925	4,385
Price per 100 lb. net (dol.)	14.52	10.36	15.03	22.72	35.92	25.15	24.46	25.35	27.54	35.05
Imports	(z)	1	(z)	106	162	21	25	31	55	52
Exports	628	541	570	424	268	174	280	215	328	396
Gum	157	81	124	26	18	13	15	14	18	18
Wood	471	460	446	398	250	161	265	201	310	378
Industrial consumption.....	1,409	1,536	1,462	1,271	1,103	1,046	1,203	1,074	1,168	1,065
Gum	258	136	121	100	110	104	56	74	64	41
Wood	1,151	1,400	1,341	1,171	993	942	1,146	1,000	1,104	1,024

Z Less than 500. ¹ Preliminary.

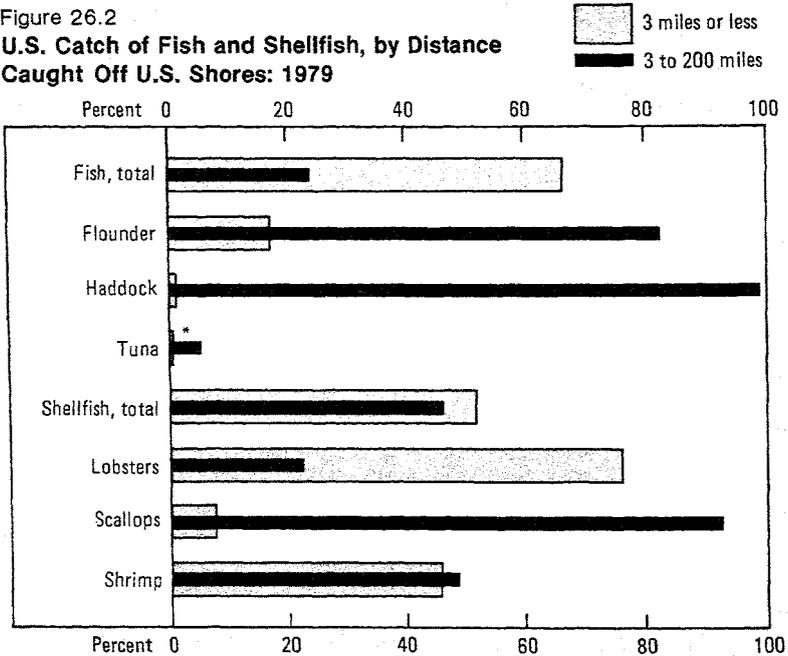
Source: U.S. Department of Agriculture, Economics, Statistics, and Cooperatives Service, *Agricultural Statistics*, annual, and *Naval Stores*, annual summary.

Figure 26.1
Quantity and Value of Domestic Catch: 1960 to 1979



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1309.

Figure 26.2
U.S. Catch of Fish and Shellfish, by Distance Caught Off U.S. Shores: 1979



*Negligible catch within three miles or less.

Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1319.

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Section 26

Fisheries

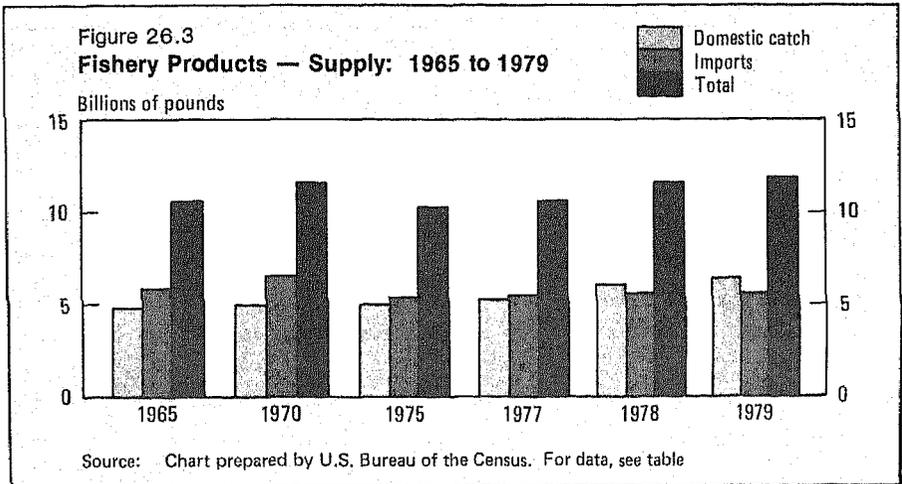
This section presents statistics on commercial fishing and the fish processing industry. The principal sources of these data are *Fishery Statistics of the United States*, and *Fisheries of the United States*, both issued annually by the National Marine Fisheries Service (NMFS), National Oceanic and 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. Annual data are published on foreign trade in fishery products and per capita consumption of edible fishery products.

The Fishery Conservation and Management Act of 1976 established a Fisheries Conservation Zone (FCZ) which 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 FCZ. Within the FCZ, 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, 1979*. The NMFS collects and disseminates data on catches by foreign fishing vessels in the FCZ.

The catch value as presented in various tables is "ex-vessel," or value at the dock. It represents the price received by fishermen and vessel owners for fish, shell-fish, etc.

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



NO 1309. FISHERIES—QUANTITY AND VALUE OF DOMESTIC CATCH: 1940 TO 1979

[Prior to 1950, excludes Hawaii. See also *Historical Statistics, Colonial Times to 1970*, series L 224-226, L 229, and L 310]

YEAR	QUANTITY (mil. lb. ¹)			Ex- ves- sel value (mil. dol.)	Aver- age price per lb. (cents)	YEAR	QUANTITY (mil. lb. ¹)			Ex- ves- sel value (mil. dol.)	Aver- age price per lb. (cents)
	Total	For human food	For indus- trial prod- ucts ²				Total	For human food	For indus- trial prod- ucts ²		
1940.....	4,060	2,675	1,385	99	2.4	1972.....	4,806	2,435	2,371	748	15.6
1945.....	4,598	3,167	1,431	270	5.9	1973.....	4,858	2,398	2,460	937	19.3
1950.....	4,901	3,307	1,594	347	7.1	1974.....	4,967	2,496	2,471	932	18.7
1955.....	4,809	2,579	2,230	339	7.1	1975.....	4,877	2,465	2,412	977	20.0
1960.....	4,942	2,498	2,444	354	7.2	1976.....	5,388	2,775	2,613	1,349	25.0
1960.....	4,942	2,498	2,444	354	7.2	1977, prel.....	5,198	2,900	2,298	1,515	29.1
1965.....	4,777	2,587	2,190	446	9.3	1978, prel.....	6,028	3,177	2,851	1,854	30.7
1970.....	4,817	2,537	2,380	613	12.5	1979, prel.....	6,267	3,318	2,949	2,234	35.6
1971.....	5,018	2,441	2,577	651	13.0						

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, *Fishery Statistics of the United States*, annual.

NO. 1310. FISHERIES—EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENT: 1950 TO 1978

[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	1950	1955	1960	1965	1970	1973	1974	1975	1976	1977, prel.	1978, prel.
Persons employed in U.S.	263	241	224	215	227	243	253	260	266	269	257
Fishermen.....	161	144	130	129	140	149	161	168	174	173	172
Shore workers ¹	102	97	94	87	87	94	92	92	92	96	85
Craft used	92	83	77	80	88	90	101	103	103	104	104
Vessels, 5 net tons and over.....	11	12	12	14	15	16	16	17	17	11	16
Motorboats.....	46	58	57	64	72	72	83	85	84	84	84
Other boats.....	35	13	8	3	2	2	2	2	2	2	2
Fishery shore establishments	3.9	4.1	4.2	4.2	3.7	3.6	3.5	3.6	3.6	3.6	3.3

¹ Seasonal average.Source: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

NO. 1311. FISHERIES—FISHERMEN AND CRAFT, 1976, AND CATCH, 1977 AND 1978, BY AREAS

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

AREA	1976 ¹			1977		1978					
	Fisher- men (1,000)	Fishing vessels	Fishing boats ² (1,000)	Total catch (mil. lb.)	Value (mil. dol.)	Catch (mil. lb.)			Value of catch (mil. dol.)		
						Total	Fin- fish	Shell- fish	Total	Fin- fish	Shell- fish
United States	³ 173.6	³ 16,868	³ 85.9	5,198	1,515	6,028	4,858	1,170	1,854	871	983
New England States.....	30.5	855	15.6	581	203	661	582	79	256	125	131
Middle Atlantic States.....	17.7	580	12.5	214	70	201	145	56	79	24	55
Chesapeake Bay States.....	25.0	1,939	15.4	669	86	599	485	114	94	20	74
South Atlantic States.....	10.6	1,421	6.0	345	72	399	324	75	96	44	52
Gulf States.....	28.1	5,193	10.0	1,477	405	2,287	1,964	323	473	110	363
Pacific Coast States.....	48.4	7,193	13.8	1,777	650	1,741	1,221	520	821	515	306
Great Lakes States.....	1.1	194	.5	65	9	68	68	(2)	10	10	(2)
Mississippi River States.....	11.7	-	11.0	55	11	58	55	3	13	12	1
Hawaii.....	2.7	101	1.3	15	9	14	14	(2)	12	11	1

- Represents zero. Z Less than 500,000 pounds or \$500,000. ¹ As of Dec. 31. ² Refers to craft having capacity of less than 5 net tons. ³ Exclusive of duplication among regions. Computation of area amounts will not equal U.S. total.

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

NO. 1312. FISHERY PRODUCTS—SUPPLY: 1960 TO 1979

[Live weight, in millions of pounds, except percent. 1977–1979 preliminary. See *Historical Statistics, Colonial Times to 1970*, series L 224–226, for domestic catch]

ITEM	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Total	8,223	10,535	11,474	10,378	9,875	10,164	11,593	10,579	11,509	11,831
For human food	4,264	5,163	6,213	7,109	6,638	6,394	7,404	7,414	8,135	8,251
Finfish	(NA)	(NA)	(NA)	(NA)	4,971	4,848	5,657	5,599	6,263	6,324
Shellfish ¹	(NA)	(NA)	(NA)	(NA)	1,667	1,546	1,747	1,825	1,872	1,927
For industrial use	3,959	5,372	5,261	3,269	3,237	3,770	4,189	3,165	3,374	3,580
Domestic catch	4,942	4,777	4,917	4,858	4,967	4,877	5,388	5,198	6,028	6,267
Percent of total	60.1	45.3	42.8	46.8	50.2	47.9	46.5	49.1	52.4	53.0
For human food	2,498	2,587	2,537	2,398	2,496	2,465	2,775	2,900	3,177	3,318
Finfish	(NA)	(NA)	(NA)	(NA)	1,522	1,548	1,778	1,781	2,018	2,204
Shellfish ¹	(NA)	(NA)	(NA)	(NA)	874	917	999	1,119	1,159	1,114
For industrial use	2,444	2,190	2,380	2,460	2,471	2,412	2,613	2,298	2,851	2,949
Imports ²	3,281	5,758	6,557	5,520	4,908	5,287	6,205	5,381	5,481	5,564
Percent of total	39.9	54.7	57.2	53.2	49.8	52.1	53.5	50.9	47.6	47.0
For human food	1,766	2,576	3,676	4,709	4,142	3,929	4,629	4,514	4,958	4,933
Finfish	(NA)	(NA)	(NA)	(NA)	3,449	3,300	3,881	3,808	4,245	4,120
Shellfish ¹	(NA)	(NA)	(NA)	(NA)	693	629	748	706	713	813
For industrial use ³	1,515	3,182	2,881	811	766	1,358	1,576	867	523	631

NA Not available. ¹For univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.), the weight of meats, excluding the shell, is reported. ²Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. ³Fish meal and sea herring.

NO. 1313. FISHERIES—DISPOSITION OF DOMESTIC CATCH: 1950 TO 1979

[Live weight catch in millions of pounds. Prior to 1960, excludes Hawaii, 1977–1979 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	1950	1955	1960	1965	1970	1973	1974	1975	1976	1977	1978	1979
Total	4,884	4,794	4,942	4,777	4,917	4,858	4,967	4,877	5,388	5,198	6,028	6,267
Fresh and frozen.....	1,692	1,568	1,631	1,751	1,595	1,685	1,680	1,744	1,802	2,025	2,237	2,394
Canned	1,720	1,039	1,043	1,042	1,150	882	1,005	907	918	1,078	1,099	1,046
Cured.....	100	86	82	76	71	91	69	55	55	55	52	94
Reduced to meal, oil, etc.....	1,372	2,101	2,166	1,908	2,101	2,200	2,233	2,171	2,613	2,040	2,640	2,733

NO. 1314. FISHERIES, SELECTED COUNTRIES—COMMERCIAL CATCH, 1970 TO 1978, AND CATCH PER CAPITA, 1975

[In billions of pounds, live weight, except per capita. Catch of fish, crustaceans, mollusks (including weight of shells), and other aquatic plants and animals, except whales and seals. Data from Food and Agriculture Organization of the United Nations. World total includes countries not shown separately]

COUNTRY	1970	1975		1977	1978, prel.	COUNTRY	1970	1975		1977	1978, prel.
		Total	Per capita (lb.)					Total	Per capita (lb.)		
World total	153.4	154.1	28.9	159.0	157.6	Indonesia.....	2.8	3.0	20.9	3.5	3.6
United States.....	6.1	6.0	35.1	6.8	7.7	Philippines.....	2.2	3.0	74.5	3.3	3.4
Japan.....	20.5	23.2	164.7	23.7	23.7	Spain.....	3.3	3.4	84.9	3.1	3.0
Soviet Union.....	16.0	21.9	61.5	20.6	19.7	Iceland.....	1.2	2.2	147.3	3.0	3.5
Norway.....	6.6	5.6	104.1	7.6	5.8	Chile.....	2.6	2.0	33.3	3.0	3.7
Peru.....	27.8	7.6	33.1	5.6	7.4	Canada.....	3.1	2.3	36.6	2.8	3.1
India.....	3.8	5.1	7.5	5.1	5.2	Vietnam (est.).....	¹ 1.1	2.2	58.0	2.2	2.2
Korea, Rep. of.....	2.1	4.7	81.6	5.3	5.2	Brazil (est.).....	1.1	1.8	16.1	1.6	1.8
Denmark.....	2.7	3.9	76.3	4.0	3.8	France.....	1.7	1.8	47.4	1.7	1.8
Thailand.....	3.2	3.4	44.8	4.8	5.0	Poland.....	1.0	1.8	48.7	1.4	1.3
Korea, D.P.R. (est.).....	1.8	1.8	63.1	3.5	3.5	South Africa.....	3.4	1.4	19.6	1.3	1.4
						United Kingdom.....	2.4	1.1	39.5	2.2	2.3

¹ Pertains only to South Vietnam.

Source of tables 1312–1314: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1315. FISHERIES—CATCH AND VALUE OF PRINCIPAL SPECIES: 1965 TO 1979

[Catch in live weight, except as indicated. Data exclude landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States, and production of artificially cultivated fish and shellfish. 1977-1979 preliminary]

SPECIES	CATCH (mil. lb.)						VALUE (mil. dol.)					
	1965	1970	1975	1977	1978	1979	1965	1970	1975	1977	1978	1979
Fish:												
Cod, Atlantic.....	36	53	56	76	87	99	3	6	13	17	22	29
Flounder.....	180	169	162	170	181	209	18	23	44	59	73	83
Haddock.....	134	27	16	28	39	42	14	6	5	9	13	18
Halibut.....	40	35	21	18	18	21	9	9	16	17	19	35
Herring, sea.....	110	79	131	156	154	209	2	2	6	12	17	47
Jack mackerel.....	67	47	37	110	69	35	2	2	2	6	4	2
Menhaden.....	1,726	1,837	1,803	1,796	2,595	2,604	27	34	49	68	98	109
Ocean perch, Atlantic.....	84	55	32	35	36	34	3	3	3	5	6	7
Pollock.....	12	9	21	29	43	41	1	1	2	4	7	7
Salmon, Pacific.....	327	410	202	336	404	536	65	99	107	222	255	413
Tuna.....	319	393	393	345	409	364	42	75	107	136	177	158
Whiting.....	83	45	42	45	51	35	2	4	4	4	7	6
Shellfish:												
Clams (meats).....	71	99	113	96	88	92	17	29	43	74	74	79
Crabs.....	335	277	306	399	449	489	31	39	81	203	285	284
Lobsters, American.....	30	34	30	32	34	37	22	33	51	58	65	72
Oysters (meats).....	55	54	53	46	51	48	28	29	45	53	61	86
Scallops (meats).....	23	11	14	28	33	34	15	12	23	46	82	112
Shrimp.....	244	367	347	477	423	336	62	130	226	355	396	472

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

No. 1316. PRICES RECEIVED BY FISHERMEN AND VESSEL OWNERS: 1965 TO 1979

[Cents per pound. Live weight. 1977-1979 data are preliminary. Based on prices received by fishermen and vessel owners. See also *Historical Statistics, Colonial Times to 1970*, series L 321-337]

SPECIES	point of pricing	1965	1970	1973	1974	1975	1976	1977	1978	1979
Clams, soft.....	Maine.....	49.1	47.5	78.5	76.4	86.9	101.6	118.3	124.3	144.6
Cod.....	Massachusetts.....	9.4	13.1	18.5	19.6	24.2	26.3	22.6	25.4	29.3
Crabs, blue.....	Maryland, Virginia.....	7.6	6.6	12.1	12.7	15.7	21.4	20.1	20.5	19.1
Flounder.....	Massachusetts.....	9.5	15.3	23.7	26.5	34.9	39.9	41.7	50.5	47.2
Haddock.....	Massachusetts.....	10.2	25.8	38.1	36.9	32.8	43.0	31.9	31.9	42.6
Lobsters, American.....	Maine.....	75.2	94.7	136.5	141.0	161.6	153.9	173.6	177.1	180.3
Menhaden.....	(No specific point).....	1.6	1.8	3.9	3.3	2.7	3.3	3.8	3.8	4.2
Ocean perch.....	Maine, Massachusetts.....	4.1	4.9	7.7	8.1	10.3	13.7	15.3	17.1	21.0
Oysters, eastern.....	Maryland, Virginia.....	78.6	61.1	66.0	70.1	80.1	103.7	110.7	110.7	123.8
Salmon, chinook.....	(No specific point).....	37.1	55.4	85.8	64.2	85.9	122.3	137.6	133.8	173.5
Salmon, coho.....	(No specific point).....	28.8	39.3	78.4	67.8	77.6	104.3	107.4	118.6	142.5
Sea scallops.....	New Bedford, Mass.....	67.5	135.6	177.6	154.2	168.8	184.0	165.8	253.5	340.3
Shrimp.....	So. Atlantic, Gulf.....	36.6	47.6	96.0	73.3	107.0	131.3	113.3	130.6	185.4
Tuna, albacore.....	(No specific point).....	15.7	26.7	41.2	38.5	33.3	46.2	58.7	60.6	64.7

Source: U.S. National Oceanic and Atmospheric Administration, *Prices Received by Fishermen*, H.S. No. 12 (C.F.S. No. 4657 Revised), *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

No. 1317. COMMERCIAL FISHERY PRODUCTS—PER CAPITA CONSUMPTION: 1950 TO 1979

[Pounds of edible meat. 1977-1979 preliminary. Based on U.S. Bureau of the Census estimates of the civilian resident population as of July 1. See also *Historical Statistics, Colonial Times to 1970*, series L 294-304]

PRODUCT	1950	1955	1960	1965	1970	1972	1973	1974	1975	1976	1977	1978	1979
Total.....	11.8	10.5	10.3	10.8	11.8	12.5	12.9	12.2	12.3	13.1	12.9	13.6	13.3
Fresh and frozen.....	6.3	5.9	5.7	6.0	6.9	7.2	7.5	7.0	7.6	8.3	7.9	8.2	8.0
Fish.....	4.7	4.2	3.8	3.8	4.5	4.8	5.2	4.5	5.0	5.6	5.2	5.6	5.5
Shellfish.....	1.6	1.7	1.9	2.2	2.4	2.4	2.3	2.5	2.6	2.7	2.7	2.6	2.5
Canned.....	4.9	3.9	4.0	4.3	4.5	4.9	5.0	4.8	4.3	4.3	4.6	5.1	4.9
Tuna.....	1.1	1.4	2.0	2.3	2.5	2.9	3.1	3.1	2.9	2.9	2.9	3.3	3.3
Salmon.....	1.4	1.0	.7	.9	.7	.7	.4	.3	.4	.4	.5	.6	.5
Shellfish.....	.4	.4	.4	.5	.5	.5	.5	.6	.4	.4	.6	.5	.5
Sardines.....	1.4	.6	.4	.3	.4	.4	.5	.4	.2	.3	.3	.3	.3
Other.....	.6	.5	.5	.3	.4	.4	.5	.4	.4	.3	.3	.4	.3
Cured.....	.6	.7	.6	.5	.4	.4	.4	.4	.4	.5	.4	.3	.4

¹ Beginning 1973, includes consumption of artificially cultivated catfish.

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

NO. 1318. CATCH, CATCH LIMITS, AND PRINCIPAL SPECIES CAUGHT BY COUNTRIES IN THE U.S.

FISHERY CONSERVATION ZONE (FCZ), BY COUNTRY: 1978 AND 1979

[In millions of pounds live weight. 1979 preliminary. Excludes tuna. (In 1978, U.S. domestic catch of tuna in FCZ was 49 mil. lb., in 1979, 28 mil. lb.) Allocations (catch limits) set by species for countries fishing within 200 to 300 miles of U.S. shores. For details, see text, p. 741, and source]

COUNTRY	ACTUAL CATCH		ALLOCATION		Principal species caught
	1978	1979	1978	1979	
Total catch in FCZ	5,281	5,388	(x)	(x)	Pollock, menhaden, whiting.
U.S.	1,414	1,771	(x)	(x)	Pollock, menhaden, Atlantic cod.
Foreign	3,867	3,617	(x)	4,634	(x)
Japan	2,610	2,445	2,757	2,657	Pollock, flounder, Pacific cod.
U.S.S.R.	823	623	1,286	1,191	Whiting, Alaska pollock, flounder.
Korea, Rep. of	222	281	250	331	Pollock, Pacific cod, flounder.
Poland	63	125	118	194	Herring, whiting, squid.
Canada	91	58	(?)	(x)	Scallops, Atlantic cod, haddock.
Spain	30	25	49	53	Squid, whiting, butterfish.
Italy	12	15	19	21	Squid, butterfish, hake.
Ireland	(x)	(z)	(x)	2	Squid, herring, mackerel.
Mexico	9	41	65	102	Squid, butterfish, pollock.
China (Taiwan)	7	4	14	16	Pollock, Pacific cod, flounder.
Romania	(z)	(z)	4	4	Mackerel (Atl.), whiting, squid.

X Not applicable. Z Less than 500,000. ¹ Includes countries not shown separately. ² No allocation set to date.

NO. 1319. U.S. CATCH AND VALUE OF FISH AND SHELLFISH, BY DISTANCE CAUGHT OFF U.S. SHORES—SELECTED SPECIES: 1979

[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]

SPECIES	Total U.S. catch ¹ (mil. lb.)	BY DISTANCE FROM U.S. SHORES						PERCENT OF TOTAL VALUE, BY DISTANCE CAUGHT OFF U.S. SHORES			
		Catch (mil. lb.)			Percent of U.S. catch			Value of U.S. catch ¹ (mil. dol.)	3 miles or less ²	3 to 200 miles	Over 200 mi.
		3 miles or less ²	3 to 200 miles	Over 200 mi.	3 miles or less ²	3 to 200 miles	Over 200 mi.				
Fish, total³	5,276.1	3,518.5	1,268.2	189.4	66.7	24.0	9.3	1,170.8	54.9	28.2	16.9
Cod, Atlantic	99.4	5.7	93.7	-	5.7	94.3	-	26.6	5.9	94.1	-
Flounder	209.2	35.6	173.5	.1	17.0	82.9	.1	82.7	17.3	82.7	(z)
Haddock	41.9	.4	41.5	-	1.0	99.0	-	17.7	1.0	99.0	-
Hallibut	21.4	10.1	11.3	-	47.2	52.8	-	34.6	47.0	53.0	-
Herring, sea	209.0	189.0	21.0	-	90.0	10.0	-	46.7	97.0	3.0	-
Jack mackerel	35.2	4.9	30.3	-	13.9	86.1	-	2.5	12.0	88.0	-
Menhaden	2,604.5	2,341.2	263.3	-	89.9	10.1	-	109.4	89.9	10.1	-
Ocean perch	41.3	.1	40.8	.4	4	98.6	1.0	8.6	.4	98.6	1.0
Salmon, Pacific	536.1	512.8	23.3	-	95.7	4.3	-	412.8	89.2	10.8	-
Tuna	508.2	.7	27.6	479.9	2	5.4	94.4	215.2	.4	9.2	90.4
Whiting	35.3	7.2	28.1	-	20.5	79.5	-	5.8	19.8	80.2	-
Shellfish³	1,148.7	598.6	530.8	19.3	52.1	46.2	1.7	1,142.8	42.9	54.2	2.9
Clams (meats)	92.1	31.4	60.7	-	34.1	65.9	-	79.2	68.9	33.1	-
Crabs	489.2	240.7	248.5	-	49.2	50.8	-	284.2	35.9	64.1	-
Lobsters	43.5	33.2	9.6	.7	76.3	22.1	1.6	85.1	74.4	23.8	1.8
Scallops (meats)	34.1	2.6	31.5	-	7.5	92.5	-	111.8	8.4	91.6	-
Shrimp ⁴	349.9	160.5	170.8	18.6	45.9	48.8	5.3	494.7	36.0	57.6	6.4

- Represents zero. Z Less than .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. ⁴ Includes landings at Gulf Coast and foreign ports.

NO. 1320. SUPPLY OF TUNA, SALMON, AND SARDINES: 1965 TO 1979

[In million of pounds. 1979 preliminary]

ITEM	1965	1970	1973	1974	1975	1976	1977	1978	1979
Tuna: Domestic landings, live weight	373	478	519	557	570	665	469	566	508
Imports, fresh and frozen, live weight	379	465	817	839	517	641	670	862	800
Canned tuna, total supply	410	510	675	714	582	658	583	757	675
From domestic landings	162	204	224	250	261	287	207	257	219
From imported fresh and frozen	197	234	412	411	269	312	341	448	402
Imported canned	51	72	39	53	52	59	35	52	54
Canned salmon, for U.S. consumption	150	168	63	89	58	108	131	132	101
Domestic pack	174	183	72	88	78	125	151	164	151
Exports	25	17	17	8	23	20	21	33	51
Canned sardines, total supply	75	66	91	94	57	79	74	75	80
Maine sardines	30	19	23	25	26	25	23	26	30
Imports	45	47	67	69	31	54	50	49	50

Source of tables 1318-1320: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual.

NO. 1321. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATES, AND CATCH OF PRINCIPAL SPECIES, BY AREAS: 1960 TO 1978

[Catch in millions of pounds, live weight, except as indicated; ex-vessel value in millions of dollars. See also *Historical Statistics, Colonial Times to 1977, series L 262-293*]

AREA, STATE, CATCH, AND VALUE	1960	1965	1970	1973	1974	1975	1976	1977, prel.	1978, prel.
New England:									
Catch.....	852	702	531	518	523	498	547	581	661
Value.....	61	75	91	117	124	154	174	203	256
Maine: Catch.....	295	205	159	143	148	138	178	182	190
Value.....	20	22	31	43	41	48	54	62	69
New Hampshire: Catch.....	1	1	1	2	3	3	1	4	5
Value.....	(2)	1	1	1	3	3	1	2	2
Massachusetts: Catch.....	480	442	287	269	270	274	289	319	377
Value.....	36	46	47	56	62	63	96	114	152
Rhode Island: Catch.....	69	49	79	97	97	79	72	72	84
Value.....	4	5	11	15	17	19	21	23	29
Connecticut: Catch.....	6	5	5	7	5	4	5	4	5
Value.....	1	2	2	2	3	3	2	2	4
Catch for certain species:									
Cod.....	35	35	53	50	58	55	55	75	86
Flounder.....	62	112	104	88	81	77	80	86	87
Haddock.....	119	134	27	8	8	16	13	29	39
Herring, sea.....	155	75	66	57	71	79	110	112	111
Obster, American.....	29	29	30	26	25	29	30	30	34
Ocean perch, Atlantic.....	141	84	55	54	41	32	32	35	36
Pollock.....	22	12	9	15	20	21	24	29	39
Whiting.....	104	75	40	34	20	33	37	33	35
Middle Atlantic:									
Catch.....	784	356	140	257	211	188	269	213	201
Value.....	22	25	30	42	44	50	69	70	79
New York: Catch.....	126	147	32	36	35	37	35	32	36
Value.....	9	12	16	22	25	28	32	31	34
New Jersey: Catch.....	374	160	98	210	167	144	227	179	164
Value.....	10	11	13	18	17	20	35	38	44
Delaware: Catch.....	284	48	10	11	9	7	7	2	1
Value.....	3	1	1	2	2	2	2	1	1
Catch for certain species:									
Clams (meats).....	32	52	83	41	42	53	43	50	43
Menhaden.....	671	151	31	156	108	67	151	98	83
Oysters (meats).....	1	1	1	3	3	3	4	2	2
Soup.....	27	17	4	6	10	10	9	9	11
Chesapeake Bay:									
Catch.....	436	592	630	701	597	509	587	668	599
Value.....	35	40	41	62	58	56	74	66	94
Maryland: Catch.....	69	67	80	70	70	84	58	60	60
Value.....	14	13	19	21	22	23	31	31	33
Virginia: Catch.....	367	505	551	631	530	445	529	608	539
Value.....	21	27	22	41	36	33	43	55	61
Catch for certain species:									
Alewives.....	19	38	21	11	15	12	4	1	2
Clams (meats).....	8	11	23	53	67	47	24	28	28
Crabs.....	71	86	70	59	68	62	47	59	54
Menhaden.....	249	360	450	506	385	322	446	509	426
Oysters (meats).....	27	21	25	23	25	23	21	18	22
South Atlantic:									
Catch.....	379	357	280	240	305	333	318	345	399
Value.....	20	27	30	57	51	64	74	72	95
North Carolina: Catch.....	265	234	173	138	207	238	226	252	300
Value.....	7	9	9	16	18	20	28	29	41
South Carolina: Catch.....	24	27	16	21	19	20	21	16	21
Value.....	4	5	4	11	7	13	14	10	16
Georgia: Catch.....	28	20	14	17	16	18	15	13	17
Value.....	3	4	4	11	7	12	12	9	14
Florida (east coast): Catch.....	61	76	76	64	61	57	58	64	61
Value.....	6	8	12	19	19	19	20	24	25
Catch for certain species:									
Crabs.....	45	46	43	32	38	31	27	31	47
Menhaden.....	215	192	136	85	134	167	145	171	206
Shrimp.....	31	26	21	25	27	25	28	18	20

See footnotes at end of table.

NO. 1321. FISHERIES—QUANTITY AND VALUE OF CATCH, BY STATES, AND CATCH OF PRINCIPAL SPECIES, BY AREAS: 1960 TO 1978—Continued

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

AREA, STATE, CATCH, AND VALUE	1960	1965	1970	1973	1974	1975	1976	1977, prel.	1978, prel.
Gulf States:									
Catch.....	1,266	1,463	1,698	1,544	1,776	1,654	1,743	1,476	2,287
Value.....	85	114	167	267	242	271	386	405	473
Florida (west coast): Catch.....	136	136	116	112	123	116	111	103	110
Value.....	21	27	31	46	52	57	69	71	73
Alabama: Catch.....	12	18	30	37	34	31	32	34	30
Value.....	3	5	10	18	17	21	34	37	35
Mississippi: Catch.....	314	368	298	268	301	306	288	313	324
Value.....	8	9	11	17	16	14	21	26	27
Louisiana: Catch.....	566	787	1,107	1,029	1,223	1,115	1,219	918	1,674
Value.....	26	37	61	95	86	86	135	138	190
Texas: Catch.....	238	154	147	98	94	86	93	108	99
Value.....	28	36	53	91	72	93	127	133	148
Catch for certain species:									
Crabs.....	36	38	36	46	43	41	39	43	41
Menhaden.....	841	1,023	1,209	1,074	1,296	1,197	1,238	986	1,809
Mullet.....	33	34	27	31	28	26	19	16	27
Oysters (meats).....	16	19	18	15	15	19	22	18	18
Shrimp.....	206	195	230	182	186	170	210	266	248
Great Lakes:¹									
Catch.....	68	58	72	68	78	62	67	65	68
Value.....	7	6	6	9	11	9	11	9	10
Superior: Catch.....	14	9	5	5	6	5	6	5	5
Value.....	1	1	1	1	2	2	2	2	2
Michigan: Catch.....	24	27	53	51	60	45	48	48	51
Value.....	2	2	4	5	6	4	5	2	4
Huron: Catch.....	6	5	2	2	2	2	2	2	2
Value.....	1	1	(z)	(z)	(z)	1	1	1	1
Erie: Catch.....	21	14	10	8	10	8	9	10	10
Value.....	2	1	1	1	2	2	3	3	3
Pacific Coast:									
Catch.....	1,061	1,147	1,480	1,433	1,391	1,551	1,771	1,777	1,741
Value.....	112	148	235	363	381	352	538	651	821
Washington: Catch.....	113	127	134	144	147	146	142	146	138
Value.....	16	18	30	69	59	81	72	81	97
Oregon: Catch.....	49	69	98	92	95	86	95	113	135
Value.....	6	9	23	30	37	26	40	49	57
California: Catch.....	541	458	703	731	685	875	917	674	722
Value.....	50	51	86	112	140	135	187	195	228
Alaska: Catch.....	358	492	545	466	463	445	617	644	746
Value.....	41	70	96	152	145	130	239	326	439
Catch for certain species:									
Anchovies.....	5	6	193	278	177	329	264	232	35
Bonito.....	1	6	9	31	19	32	9	23	8
Crabs.....	65	161	126	154	174	164	222	260	301
Flounder.....	48	46	46	55	54	57	62	52	63
Halibut.....	51	40	34	26	18	21	18	18	17
Herring, sea.....	84	35	22	45	56	57	43	44	43
Jack mackerel.....	75	67	48	21	25	37	45	110	68
Salmon.....	235	327	410	222	201	202	310	336	404
Shrimp.....	12	20	93	152	141	140	168	192	154
Tuna.....	269	296	378	331	381	381	474	329	394
Mississippi River and tributaries:									
Catch.....	86	85	75	83	68	72	71	55	58
Value.....	8	8	10	13	14	15	14	11	13
Hawaii:									
Catch.....	11	20	11	14	11	9	15	15	14
Tuna.....	9	17	9	12	9	7	12	12	11
Value.....	3	4	4	6	6	6	9	9	12

Z Less than \$500,000. ¹ Collected largely by State fishery agencies, and compiled by National Marine Fisheries Service. Includes, in addition to lakes shown, small amounts for Lake Ontario, Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

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

NO. 1322. FRESH AND FROZEN FISHERY PRODUCTS: 1970 to 1979

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

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1970	1975	1976	1977	1978	1979	1970	1975	1976	1977	1978	1979
Fish fillets and steaks ¹	133.5	131.9	142.6	160.4	184.4	179.6	74.8	137.9	167.1	191.6	241.3	253.2
Cod.....	13.5	15.2	16.6	24.6	27.2	33.3	7.4	14.6	19.0	27.8	35.2	45.5
Flounder.....	46.7	41.9	48.2	44.6	46.3	47.0	28.7	53.1	72.5	69.7	93.5	87.1
Haddock.....	8.9	8.2	4.7	14.7	17.4	19.7	6.9	12.3	8.3	21.3	26.2	34.1
Ocean Perch, Atlantic.....	16.0	8.4	9.4	10.4	9.2	8.6	4.9	5.7	8.1	9.5	9.9	10.1
Whiting.....	.8	.1	1.0	.8	.8	.5	.3	.1	.6	.5	.5	.4
Other.....	47.6	58.1	62.7	65.3	83.5	70.5	26.6	52.1	58.6	63.0	86.0	76.0
Frozen fishery products.....	388.3	299.7	321.7	345.7	309.2	268.9	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. ¹ Fresh and frozen.

NO. 1323. CANNED FISHERY PRODUCTS—PRODUCTION AND VALUE: 1970 to 1979

[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.)					
	1970	1975	1976	1977	1978	1979, prel.	1970	1975	1976	1977	1978	1979, prel.
Total.....	1,346	1,386	1,565	1,436	1,615	1,448	742	1,071	1,430	1,575	1,913	1,768
Salmon.....	183	78	128	151	164	151	139	115	205	243	249	277
Sardines, Maine.....	19	26	25	23	26	30	11	25	24	27	36	45
Tuna.....	438	529	599	548	705	621	381	653	853	907	1,273	1,110
Jack mackerel.....	8	10	7	31	32	26	2	5	2	12	10	8
Shrimp.....	25	12	20	25	17	10	37	28	49	71	49	42
Clam products.....	65	76	64	73	69	76	26	42	39	65	60	63
Crabs.....	5	3	4	5	5	5	10	10	13	19	22	23
Oysters.....	2	2	1	1	1	1	2	4	3	3	1	1
Squid.....	9	8	7	7	8	4	1	2	2	2	2	1
Other.....	592	642	713	572	588	524	133	189	240	226	211	198

NO. 1324. PROCESSED FISHERY PRODUCTS—SUMMARY: 1970 TO 1979

[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.)					
	1970	1975	1976	1977	1978	1979	1970	1975	1976	1977	1978	1979
Total.....	(x)	(x)	(x)	(x)	(x)	(x)	1,727	2,855	3,473	3,692	4,467	4,480
Packaged fresh and frozen ²	1,158	1,113	1,248	1,239	1,344	1,328	800	1,309	1,739	1,796	2,163	2,352
Fish not breaded:												
Fillets and steaks, raw.....	134	132	143	161	184	187	75	138	167	192	241	261
Dressed.....	32	55	38	46	51	35	9	43	24	48	61	45
Other ⁴	10	26	29	46	50	51	4	22	29	40	59	41
Fish breaded, raw or cooked:												
Sticks.....	116	91	94	84	94	96	58	62	73	69	87	100
Fillets, portions, and steaks.....	296	286	335	349	377	392	137	211	277	333	406	428
Shellfish: Not breaded.....	328	315	389	340	369	364	343	534	798	745	914	1,009
Breaded, raw and cooked.....	119	128	127	129	143	129	129	220	257	271	325	348
Specialties, fish and shellfish.....	123	80	93	84	76	73	45	79	114	98	90	122
Canned products ⁵	1,346	1,386	1,568	1,436	1,615	1,441	742	1,072	1,430	1,575	1,913	1,752
Fish and shellfish.....	805	802	907	924	1,076	961	633	920	1,232	1,405	1,748	1,602
Animal food.....	540	583	660	512	539	480	105	148	196	170	165	150
Cured fish ⁶	71	55	55	49	45	41	77	102	112	120	118	113
Salted (inc. spiced, pickled).....	37	29	32	21	20	18	30	43	50	43	36	32
Smoked.....	31	24	22	27	23	21	43	56	59	76	76	78
Dried (cod) lutefisk.....	2	2	1	1	2	2	1	1	1	1	6	4
Industrial products ⁷	(x)	(x)	(x)	(x)	(x)	(x)	108	173	193	201	251	262
Meal and scrap (mil. tons).....	(z)	(z)	(z)	(z)	(z)	(z)	46	66	97	97	121	132
Oil (body and liver).....	206	246	205	133	296	268	18	33	31	26	61	54
Fish solubles (mil tons).....	(z)	(z)	(z)	(z)	(z)	(z)	5	9	14	14	22	15
Other.....	(x)	(x)	(x)	(x)	(x)	(x)	38	67	51	62	47	62

X Not applicable. Z Less than 500,000 tons. ¹ Except as indicated. ² Includes products not shown separately. ³ Excludes Alaska. ⁴ Includes bait and unbreaded portions. ⁵ Includes salmon eggs for bait. ⁶ Includes sun-dried and freeze-dried.

Source of tables 1322-1324: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual.

NO. 1325. FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1960 TO 1979

[Includes Puerto Rico; imports also include landings of tuna by foreign vessels in American Samoa. 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.)	
1960	363	1,095	311	53	44	61	26	19
1965	601	1,399	479	121	70	96	49	20
1970	1,037	1,873	813	225	118	140	94	24
1973	1,583	2,416	1,398	185	299	239	242	57
1974	1,711	2,267	1,495	215	262	178	195	67
1975	1,637	1,913	1,357	270	305	218	267	37
1976	2,332	2,228	1,917	415	385	241	330	55
1977	2,623	2,177	2,079	544	520	331	473	47
1978	3,077	2,411	2,253	823	906	448	832	74
1979, prel.	3,811	2,369	2,668	1,143	1,082	554	1,020	62

NO. 1326. SELECTED FISHERY PRODUCTS—IMPORTS AND EXPORTS: 1970 TO 1979

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

PRODUCT	QUANTITY (mil. lb.)					VALUE (mil. dol.)						
	1970	1975	1976	1977	1978	1979, prel.	1970	1975	1976	1977	1978	1979, prel.
IMPORTS												
Edible:												
Fresh or frozen:												
Whitelish ¹	8.4	8.4	8.2	9.0	11.4	7.6	4.8	5.6	6.1	7.0	8.6	7.4
Halibut ¹	18.2	8.0	7.4	6.5	7.0	4.1	8.1	8.0	9.9	9.1	10.8	7.4
Salmon ¹	7.4	9.2	7.7	5.7	6.6	5.0	6.7	11.5	13.6	10.8	13.6	11.4
Sea herring	103.9	99.2	76.5	70.7	72.0	40.1	1.9	5.1	5.5	8.9	5.5	1.9
Smelt	8.5	8.8	10.5	9.0	10.4	12.6	1.6	3.2	3.8	3.6	4.4	6.0
Tuna	442.8	478.6	607.4	633.3	808.2	753.6	100.5	121.2	249.4	255.3	327.2	321.6
Groundfish fillets, blocks ²	458.8	513.8	607.0	602.6	639.4	661.1	134.6	278.4	398.6	502.2	565.4	622.3
Other fillets and steaks	136.1	167.8	185.0	180.7	190.6	174.6	63.6	117.3	149.4	160.9	176.7	185.4
Scallops (meats)	18.8	19.7	25.3	29.8	28.4	25.2	19.7	37.2	53.0	53.0	72.8	84.9
Lobster, American and spiny	54.9	58.1	64.4	60.0	56.2	60.7	93.8	188.6	240.7	250.3	256.3	298.5
Shrimp and prawn	214.8	201.5	227.5	225.2	195.5	220.2	196.8	346.2	460.7	488.3	418.4	705.0
Canned:												
Anchovies, in oil	5.5	3.6	4.8	5.4	4.8	3.6	6.3	5.6	8.3	11.2	9.6	7.4
Salmon	2.4	3.3	2.5	.6	.3	.4	1.6	3.9	3.0	1.2	.7	.8
Sardines, in oil	34.1	18.5	26.9	25.7	24.2	22.9	15.8	16.3	23.7	25.0	25.5	27.7
Sardines, herring, not in oil	25.3	24.9	39.1	35.1	32.1	34.0	8.3	15.9	21.3	20.8	22.9	25.8
Tuna	72.3	51.7	58.9	34.6	51.8	53.7	44.3	46.0	67.5	44.7	63.8	65.1
Bonito and yellowtail	1.2	.1	.1	1.4	.4	.4	.5	.1	.1	1.0	.4	.3
Crab meat	2.8	1.4	2.1	3.5	4.1	5.1	5.3	2.9	4.6	8.0	9.5	12.3
Oysters	15.0	12.4	14.4	19.2	23.5	19.1	8.1	8.4	10.7	17.9	24.6	18.3
Lobster, American and spiny	2.5	2.1	2.9	2.9	2.4	1.9	8.0	10.9	13.9	15.6	15.7	11.7
Pickled or salted:												
Cod, haddock, hake, pollock, cusk	41.2	33.6	36.5	35.7	37.6	39.7	13.6	25.8	31.4	33.4	38.3	43.3
Herring	30.6	20.6	30.9	19.5	25.0	17.2	5.4	6.6	10.0	7.0	13.6	9.4
Nonedible scrap and meal	502.0	236.7	280.0	163.0	87.8	179.2	37.7	23.6	32.9	26.5	12.6	29.6
EXPORTS												
Canned salmon	16.8	22.5	19.6	21.3	32.5	50.7	13.1	34.6	33.9	34.0	49.2	91.9
Canned sardines	1.5	2.2	1.8	1.2	1.6	1.6	.7	1.8	1.6	.9	1.5	1.2
Fish oil, nonedible	158.8	191.8	179.2	90.6	222.0	198.5	15.7	27.8	29.9	18.1	42.3	39.6

¹ Excludes fillets. ² Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting.Source of tables 1325 and 1326: U.S. National Oceanic and Atmospheric Administration, *Fishery Statistics of the United States*, annual, and *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.