Science and Technology

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

In Brief

R&D expenditures in constant (1987) dollars:

1970	*74.7 bil.*
1980	*87.7 bil.*
1992	*130.4 bil.*

Nondefense R&D spending as percent of GNP: 1990

Japan	*3.0*
Former West Germany	*2.7*
United States	*1.9*
France	*1.8*
Italy	*1.3*

NSF gathers data chiefly through recurring surveys. Current NSF publications containing data on funds for research and development and on scientific and engineering personnel include the *Science Resources Studies Highlights* summaries series; Detailed Statistical Tables; and annual, biennial, triennial, and special reports. Titles or the areas of coverage of these reports include the following: *Science and Engineering Indicators; National Patterns of R&D Resources; Science and Engineering Personnel-A National Overview; Women and Minorities in Science and Engineering;* science and technology data presented in chart and tabular form in a pocket-size publication; *International Science and Technology Data Update;* profiles on human resources and funding in individual fields of science and engineering; *Federal Funds for Research and Development; Federal R&D Funding by Budget Function; Federal Support to Universities, Colleges, and Selected Nonprofit Institutions; Scientific and Engineering Facilities at Universities and Colleges; Geographic Distribution of Industrial R&D Expenditures; Research and Development in Industry;* R&D funds and graduate enrollment and support in academic science and engineering; characteristics of doctoral scientists and engineers and of recent graduates in the United States; *U.S. Scientists and Engineers;* and scientists, engineers, and technicians in manufacturing, nonmanufacturing, and trade and regulated industries. Statistical surveys in these areas pose problems of concept and definition and the data should, therefore, be regarded as broad estimates rather than precise quantitative statements. See sources for details.

The National Science Board's biennial *Science and Engineering Indicators* contains data and analyses of international and domestic science and technology, including measures of inputs and outputs. *The Budget of the United States Government,* published by the U.S. Office of Management and Budget, contains summary financial data on Federal R&D programs.

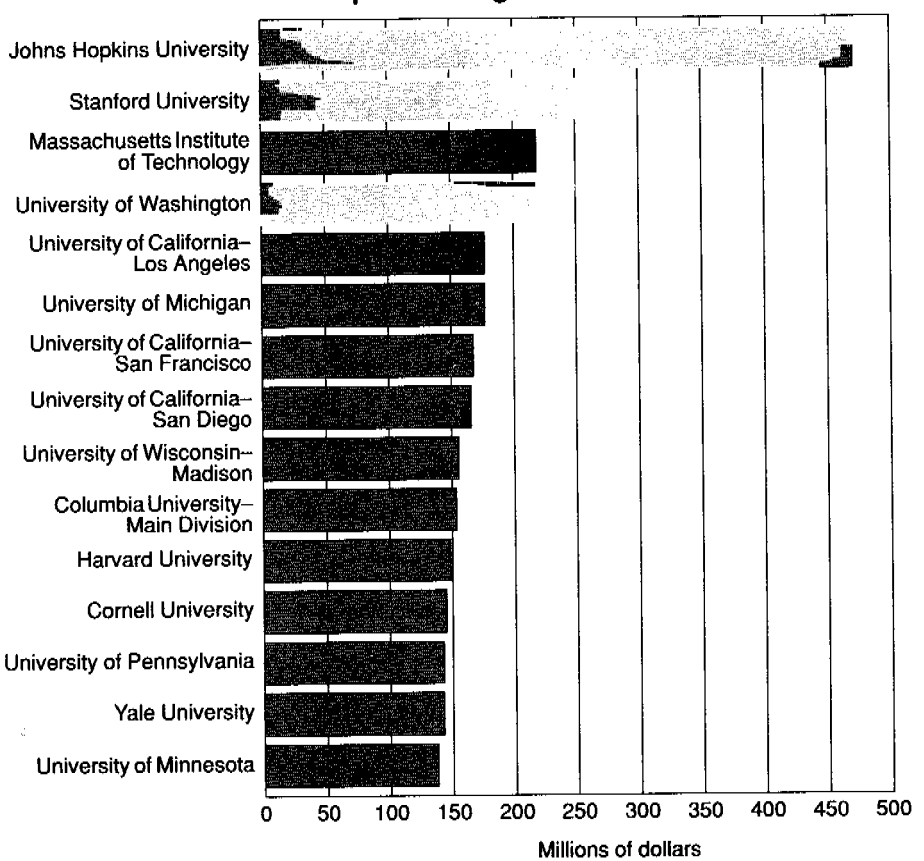
Research and development outlays.—NSF defines research as a "systematic and intensive study directed toward a fuller knowledge of the subject studied" and development as "the systematic use of scientific knowledge directed toward the production of useful materials, devices, systems, methods, or processes." National coverage of R&D expenditures is developed primarily from periodic surveys in four principal economic 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 (FFRDC's) they administer; (3) *universities and colleges,* composed of universities, colleges, and their affiliated institutions, agricultural experiment stations, and associated schools of agriculture, and FFRDC's administered by educational institutions; and (4) *other nonprofit institutions,* consisting of such

organizations as private philanthropic foundations, nonprofit research institutes, voluntary health agencies, and FFRDC's administered by nonprofit organizations. The R&D funds reported consist of current operating costs, including planning and administration costs, 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. 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 IV.

Figure 20.1
Top 15 Universities—Federal Research and Development Obligations: 1990



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 982.

No. 973. Research and Development (R&D)—Expenditures: 1960 to 1992

[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 (-) indicates decrease]

YEAR	CURRENT DOLLARS (bil. dol.)			CONSTANT (1987) DOLLARS [1]		ANNUAL PERCENT CHANGE [3]		PERCENT OF TOTAL R&D OUTLAYS					
								Federally funded defense/space-related			Other outlays		
	Total	Defense space related	Other	Total (bil. dol.)	Percent of GDP [2]	Current dollars	Constant dollars	Total	Defense	Space	Total	Non-Federal	Federal
1960	13.5	7.5	6.0	51.9	2.6	9.4	7.5	55	52	3	45	35	9
1965	20.0	10.8	9.3	70.6	2.9	6.3	3.6	54	33	21	46	35	11
1966	21.8	11.3	10.5	74.6	2.8	9.0	5.6	52	32	19	48	36	12
1967	23.1	11.5	11.7	76.6	2.8	6.0	2.7	49	35	14	51	38	13
1968	24.6	11.9	12.7	77.8	2.8	6.3	1.6	48	35	14	52	39	12
1969	25.6	11.7	13.9	77.2	2.7	4.2	-0.9	46	34	11	54	42	12
1970	26.1	11.4	14.7	74.7	2.6	2.0	-3.2	44	33	10	56	43	13
1971	26.7	11.2	15.5	72.5	2.4	2.1	-3.0	42	33	10	58	44	14
1972	28.5	11.6	16.9	73.7	2.4	6.7	1.6	41	33	8	59	44	15
1973	30.7	11.9	18.9	75.0	2.3	7.9	1.8	39	32	7	61	47	15
1974	32.9	11.8	21.1	74.0	2.3	7.0	-1.4	36	29	7	64	49	15
1975	35.2	12.3	23.0	72.3	2.2	7.2	-2.3	35	27	7	65	49	17
1976	39.0	13.4	25.6	75.1	2.2	10.8	3.9	34	27	8	66	49	17
1977	42.8	14.3	28.5	76.8	2.2	9.6	2.3	33	27	7	67	50	17
1978	48.1	15.3	32.8	80.1	2.2	12.5	4.3	32	26	6	68	50	18
1979	55.0	16.6	38.4	84.1	2.2	14.2	5.0	30	25	6	70	51	19
1980	62.6	18.4	44.2	87.7	2.3	13.9	4.2	29	24	5	71	53	18
1981	71.9	21.2	50.6	91.5	2.4	14.8	4.3	30	24	5	70	54	17
1982	80.0	24.6	55.4	95.6	2.5	11.3	4.5	31	26	5	69	54	15
1983	89.1	28.3	60.9	102.3	2.6	11.4	7.0	32	27	4	68	54	14
1984	101.1	31.8	69.3	111.1	2.7	13.5	8.6	31	28	3	69	55	14
1985	113.8	37.5	76.3	120.6	2.8	12.5	8.5	33	30	3	67	54	13
1986	119.5	40.6	78.9	123.3	2.8	5.0	2.2	34	31	3	66	55	11
1987	125.4	43.2	82.2	125.4	2.8	4.9	1.7	34	31	3	66	54	12
1988	133.7	45.1	88.6	128.8	2.7	6.7	2.8	34	30	3	66	54	12
1989	140.8	45.6	95.2	129.9	2.7	5.3	0.8	32	28	4	68	56	12
1990	146.2	46.5	99.7	129.5	2.7	3.8	-0.3	32	27	4	68	56	12
1991	150.8	45.0	105.8	128.8	2.7	3.2	-0.6	30	25	5	70	57	13
1992	157.4	47.8	109.6	130.4	2.6	4.4	1.2	30	25	5	70	57	13

[1] Based on GDP implicit price deflator. [2] GDP = Gross Domestic Product. [3] Change from immediate prior year.
Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1992*; and unpublished data.

No. 974. Research and Development (R&D)—Source of Funds and Performance Sector: 1970 to 1991

[**In millions of dollars.** See headnote, table 975]

YEAR	Total	SOURCE OF FUNDS				PERFORMANCE SECTOR				
		Federal Govt.	Industry	Univ., colleges	Other [1]	Federal Govt.	Industry	Univ., colleges	Associated FFRDC's [2]	Other [1]
Current dollars:										
1970	26,134	14,891	10,444	462	337	4,079	18,067	2,335	737	916
1975	35,213	18,109	15,820	749	535	5,354	24,187	3,409	987	1,276
1980	62,610	29,461	30,912	1,334	903	7,632	44,505	6,077	2,246	2,150
1983	89,139	40,832	45,251	1,929	1,127	10,582	65,268	7,877	2,737	2,675
1984	101,139	45,642	52,204	2,103	1,190	11,572	74,800	8,617	3,150	3,000
1985	113,819	52,121	57,977	2,376	1,345	12,945	84,239	9,687	3,523	3,425
1986	119,529	54,274	61,056	2,789	1,410	13,535	87,823	10,926	3,895	3,350
1987	125,353	57,904	62,642	3,201	1,606	13,413	92,155	12,154	4,206	3,425
1988	133,740	61,310	67,143	3,471	1,816	14,281	97,889	13,464	4,531	3,575
1989	140,763	62,626	72,110	3,946	2,081	15,121	101,854	15,009	4,729	4,050
1990	146,152	63,924	75,499	4,356	2,373	16,002	104,344	16,325	4,831	4,650
1991	150,800	65,200	78,250	4,750	2,600	16,500	106,750	17,450	5,000	5,100
Constant (1987) dollars: [3]										
1970	74,722	42,686	29,732	1,336	967	11,799	51,429	6,754	2,132	2,607
1975	72,256	37,408	32,169	1,574	1,105	11,253	49,171	7,165	2,074	2,594
1980	87,666	41,396	43,112	1,890	1,268	10,813	62,062	8,610	3,182	2,998
1983	102,310	46,881	51,918	2,217	1,294	12,160	74,883	9,052	3,145	3,069
1984	111,137	50,177	57,337	2,315	1,308	12,737	82,153	9,485	3,467	3,295
1985	120,624	55,243	61,436	2,519	1,426	13,725	89,265	10,270	3,735	3,629
1986	123,267	55,947	62,995	2,872	1,453	13,936	90,614	11,250	4,011	3,456
1987	125,353	57,904	62,642	3,201	1,606	13,413	92,155	12,154	4,206	3,425
1988	128,848	59,092	64,656	3,349	1,751	13,781	94,260	12,992	4,372	3,442
1989	129,888	57,809	66,511	3,646	1,921	13,971	93,944	13,868	4,369	3,735
1990	129,545	56,683	66,892	3,866	2,104	14,203	92,446	14,489	4,288	4,120
1991	128,782	55,681	66,823	4,057	2,220	14,092	91,161	14,903	4,270	4,355

[1] Nonprofit institutions. [2] University associated federally-funded R&D centers. [3] Based on gross domestic product implicit price deflator.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1992*.

No. 975. Research and Development (R&D) Funds, by Performance Sector: 1970 to 1991

[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	1970	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total R&D [1]	**26,134**	**62,610**	**101,139**	**113,819**	**119,529**	**125,353**	**133,740**	**140,763**	**146,152**	**150,800**
In 1987 dollars [2]	74,722	87,666	111,137	120,624	123,267	125,353	128,848	129,888	129,545	128,782
Percent Federal as source	57.0	47.1	45.1	45.8	45.4	46.2	45.8	44.5	43.7	43.2
Percent of gross domestic product	2.6	2.3	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7
Federal Government	4,079	7,632	11,572	12,945	13,535	13,413	14,281	15,121	16,002	16,500
Industry	18,067	44,505	74,800	84,239	87,823	92,155	97,889	101,854	104,344	106,750
Federal funds	7,779	14,029	23,396	27,196	27,891	30,752	32,117	31,292	30,580	30,400
Industry funds	10,288	30,476	51,404	57,043	59,932	61,403	65,772	70,562	73,764	76,350
Universities and colleges	2,335	6,077	8,617	9,687	10,926	12,154	13,464	15,009	16,325	17,450
Federal funds	1,647	4,104	5,424	6,057	6,703	7,333	8,181	8,984	9,611	10,100
Industry funds	61	236	475	559	699	789	871	998	1,135	1,250
University and college funds [3]	462	1,334	2,103	2,376	2,789	3,201	3,471	3,946	4,356	4,750
Other nonprofit institutions funds [3]	165	403	615	695	735	831	941	1,081	1,223	1,350
Universities and colleges, associated federally funded R&D centers	737	2,246	3,150	3,523	3,895	4,206	4,531	4,729	4,831	5,000
Other nonprofit institutions	916	2,150	3,000	3,425	3,350	3,425	3,575	4,050	4,650	5,100
Federal funds	649	1,450	2,100	2,400	2,250	2,200	2,200	2,500	2,900	3,200
Industry funds	95	200	325	375	425	450	500	550	600	650
Other [4]	172	500	575	650	675	775	875	1,000	1,150	1,250
Total research, basic and applied	**9,269**	**22,052**	**35,287**	**39,528**	**43,660**	**45,679**	**47,839**	**53,164**	**55,247**	**58,330**
In 1987 dollars [2]	26,598	30,993	38,792	41,895	45,010	45,679	46,107	49,072	48,985	49,814
Percent Federal as source	60.1	54.8	50.9	50.8	46.5	47.1	46.5	47.0	46.9	46.5
Federal Government	1,904	3,666	4,764	5,056	5,160	5,438	5,338	5,982	5,953	6,550
Industry	4,029	9,775	18,373	21,117	23,807	24,136	24,875	27,585	28,064	29,050
Federal funds	1,207	2,190	4,700	5,836	5,229	5,400	5,246	6,203	6,335	6,100
Industry funds	2,822	7,585	13,673	15,281	18,578	18,736	19,629	21,382	21,729	22,950
Universities and colleges	2,223	5,578	7,984	8,975	10,119	11,305	12,400	13,863	14,998	16,110
Federal funds	1,563	3,743	5,014	5,599	6,191	6,821	7,487	8,260	8,754	9,300
Industry funds	56	219	442	520	650	734	810	928	1,056	1,160
University and college funds [3]	449	1,241	1,956	2,210	2,594	2,977	3,228	3,670	4,051	4,400
Other nonprofit institutions funds [3]	155	375	572	646	684	773	875	1,005	1,137	1,250
Universities and colleges, associated federally funded R&D centers	485	1,548	2,216	2,340	2,424	2,550	2,756	2,934	3,032	3,100
Other nonprofit institutions	628	1,485	1,950	2,040	2,150	2,250	2,470	2,800	3,200	3,520
Federal funds	409	930	1,250	1,250	1,300	1,300	1,400	1,600	1,850	2,050
Industry funds	77	160	260	300	340	360	400	440	480	520
Other [4]	142	395	440	490	510	590	670	760	870	950
Total basic research	**3,531**	**8,433**	**12,909**	**14,196**	**16,590**	**17,999**	**18,709**	**21,190**	**21,303**	**23,350**
In 1987 dollars [2]	10,172	11,902	14,200	15,051	17,093	17,999	18,042	19,568	18,898	19,941
Percent of total R&D	13.5	13.5	12.8	12.5	13.9	14.4	14.0	15.1	14.6	15.5
Percent Federal as source	70.0	70.1	65.8	64.6	60.2	60.4	61.8	61.1	63.3	61.7
Federal Government	559	1,182	1,861	1,923	2,019	2,046	2,050	2,371	2,366	2,600
Industry	602	1,325	2,608	2,862	4,047	4,323	4,280	5,280	4,364	5,050
Federal funds	158	290	476	489	551	740	908	1,253	1,182	1,200
Industry funds	444	1,035	2,132	2,373	3,496	3,583	3,372	4,027	3,182	3,850
Universities and colleges	1,796	4,042	5,735	6,559	7,495	8,398	8,827	9,710	10,431	11,300
Federal funds	1,296	2,863	3,827	4,338	4,862	5,369	5,630	6,142	6,535	7,000
Industry funds	40	142	284	342	436	496	527	592	658	720
University and college funds [3]	350	796	1,257	1,454	1,739	2,011	2,101	2,335	2,529	2,800
Other nonprofit institutions funds [3]	110	241	367	425	458	522	569	641	709	780
Universities and colleges, associated federally funded R&D centers	269	1,124	1,675	1,749	1,859	2,012	2,222	2,329	2,402	2,500
Other nonprofit institutions	305	760	1,030	1,105	1,170	1,220	1,330	1,500	1,740	1,900
Federal funds	189	450	650	675	700	700	750	850	1,000	1,100
Industry funds	44	95	150	170	200	210	230	250	280	300
Other [4]	72	215	230	260	270	310	350	400	460	500
Total development	**16,865**	**40,558**	**65,852**	**74,291**	**75,869**	**79,674**	**85,901**	**87,599**	**90,905**	**92,470**
In 1987 dollars [2]	48,124	56,674	72,345	78,729	78,257	79,674	82,741	80,816	80,560	78,968
Percent of total R&D	64.5	64.8	65.1	65.3	63.5	63.6	64.2	62.2	62.2	61.3
Percent Federal as source	55.3	42.9	42.1	43.1	44.8	45.7	45.5	43.0	41.8	41.2

[1] Basic research, applied research, and development. [2] Based on gross domestic product implicit price deflator. [3] Includes State and local government funds received by these institutions and used for research and development. [4] Includes estimates for independent nonprofit hospitals and voluntary health agencies.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1992;* and unpublished data.

No. 976. Funds for Research and Development—Performance Sector, by State: 1989

[In millions of dollars. See headnote, table 975]

REGION, DIVISION, AND STATE	Total	Federal government	Industry	Universities and colleges [1]	Other nonprofit [2]	REGION, DIVISION, AND STATE	Total	Federal government	Industry	Universities and colleges [1]	Other nonprofit [2]
U.S.	**140,763**	**15,121**	**101,854**	**19,738**	**4,050**	VA	2,545	1,018	1,126	281	120
Northeast	**34,628**	**1,458**	**27,873**	**4,486**	**811**	WV	(NA)	63	(7)	58	2
N.E	**11,710**	**665**	**8,789**	**1,721**	**535**	NC	1,821	60	1,305	420	36
ME	72	4	33	20	15	SC	576	60	386	120	10
NH	(NA)	22	(5)	62	-	GA	1,302	158	719	417	8
VT	(NA)	4	(4)	43	3	FL	3,375	642	2,341	386	6
MA	2,745	38	2,410	284	13	**E.S.C**	**3,135**	**864**	**1,640**	**592**	**39**
RI	7,949	401	5,825	1,232	491	KY	343	31	226	84	2
CT	428	196	139	80	13	TN	1,302	135	930	223	14
M.A	**22,918**	**793**	**19,084**	**2,765**	**276**	AL	1,226	568	428	210	20
NY	8,698	89	8,071	1,587	151	MS	264	130	56	75	3
NJ	7,229	430	6,381	396	22	**W.S.C**	**7,595**	**571**	**5,580**	**1,351**	**93**
PA	5,791	274	4,632	782	103	AR	121	25	51	44	1
Midwest	**29,887**	**1,454**	**24,615**	**3,596**	**221**	LA	385	36	168	180	1
E.N.C	**23,356**	**1,288**	**19,308**	**2,609**	**151**	OK	507	46	332	113	16
OH	5,475	1,056	3,946	427	46	TX	6,581	464	5,028	1,014	75
IN	2,120	75	1,815	227	3	**West**	**42,035**	**3,739**	**30,859**	**6,664**	**773**
IL	5,305	59	4,050	1,131	65	**Mt**	**7,110**	**1,021**	**4,095**	**1,868**	**126**
MI	9,058	71	8,468	487	32	MT	(NA)	21	(6)	32	1
WI	1,399	27	1,030	337	5	ID	(NA)	19	(6)	33	1
W.N.C	**6,530**	**166**	**5,307**	**987**	**70**	WY	(NA)	9	(10)	23	21
MN	2,399	31	2,066	259	43	CO	1,649	117	1,162	290	80
IA	616	20	363	231	2	NM	2,680	594	1,034	1,039	13
MO	2,710	58	2,380	255	17	AZ	1,293	118	917	251	7
ND	79	20	27	28	4	UT	620	66	387	165	2
SD	23	6	4	12	-	NV	141	77	29	34	1
NE	182	22	64	94	2	**Pac**	**34,925**	**2,718**	**26,764**	**4,796**	**647**
KS	523	9	404	108	2	WA	3,225	111	2,716	277	121
South	**28,509**	**7,973**	**15,320**	**4,695**	**521**	OR	579	42	355	161	21
S.A	**17,779**	**6,538**	**8,100**	**2,752**	**389**	CA	30,881	2,478	23,675	4,231	497
DE	(NA)	3	(5)	37	2	AK	118	51	9	57	1
MD	5,091	3,012	1,088	922	69	HI	123	36	9	71	7
DC	(NA)	1,522	(6)	111	136	Other [11]	5,704	497	3,187	296	1,724

- Represents or rounds to zero. NA Not available. [1] Distribution by States includes R&D performed in only Doctoral degree granting institutions; U.S. total includes R&D performed in all institutions. [2] For other sector, funds distributed by State include only Federal obligations to organizations in the nonprofit sector. Nonprofit R&D performance using non-Federal funds are undistributed. [3] Between $95 and $140 million. [4] Between $242 and $287 million. [5] Between $845 and $1,032 million. [6] Between $23 and $210 million. [7] Between $80 and $267 million. [8] Between $5 and $405 million. [9] Between $161 and $561 million. [10] Below $400 million. [11] Includes unknown.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1992.*

No. 977. Federal Obligations for Research and Development, by Agency in Current and Constant (1987) Dollars: 1975 to 1992

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. Includes those agencies with obligations of $1 billion or more in 1992. See *Historical Statistics, Colonial Times to 1970,* series W 142, for total R&D expenditures]

AGENCY	1975	1980	1985	1986	1987	1988	1989	1990	1991	1992
CURRENT DOLLARS										
Obligations, total [1]	**19,039**	**29,830**	**48,360**	**51,412**	**55,253**	**56,768**	**61,406**	**63,667**	**63,218**	**70,427**
Dept. of Defense	9,013	13,981	29,792	32,938	35,232	35,249	37,577	37,268	33,966	38,770
Dept. of Health and Human Services	2,281	3,780	5,451	5,658	6,606	7,158	7,903	8,406	9,246	9,780
National Aeronautics and Space Administration	3,064	3,234	3,327	3,420	3,787	4,330	5,394	6,533	7,435	8,543
Dept. of Energy	2,047	4,754	4,966	4,688	4,757	5,036	5,193	5,631	6,159	6,499
National Science Foundation	595	882	1,346	1,353	1,471	1,533	1,670	1,690	1,847	2,102
Dept. of Agriculture	420	688	943	929	948	1,017	1,038	1,108	1,219	1,256
CONSTANT (1987) DOLLARS [2]										
Obligations, total [1]	**40,015**	**42,265**	**51,272**	**52,937**	**55,253**	**54,780**	**56,737**	**56,507**	**53,991**	**58,339**
Dept. of Defense	18,943	19,809	31,586	33,915	35,232	34,014	34,720	33,077	29,008	32,116
Dept. of Health and Human Services	4,794	5,356	5,779	5,825	6,606	6,907	7,302	7,461	7,896	8,101
National Aeronautics and Space Administration	6,440	4,582	3,528	3,521	3,787	4,179	4,984	5,798	6,350	7,077
Dept. of Energy	4,302	6,735	5,265	4,827	4,757	4,860	4,798	4,998	5,260	5,384
National Science Foundation	1,251	1,249	1,427	1,393	1,471	1,479	1,543	1,500	1,577	1,741
Dept. of Agriculture	883	974	1,000	956	948	981	959	983	1,041	1,040

[1] Includes other agencies, not shown separately. [2] See footnote 1, table 973.

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

No. 978. Federal Funding for Research and Development, by Selected Budget Function, in Current and Constant (1987) Dollars: 1970 to 1993

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. Excludes R&D plant. Represents budget authority. Functions shown are those for which $1 billion or more was authorized for 1992. See *Historical Statistics, Colonial Times to 1970*, series W 126, for total obligations]

FUNCTION	1970	1980	1985	1986	1987	1988	1989	1990	1991	1992, est.	1993, est.
CURRENT DOLLARS											
Total [1]	**15,339**	**29,739**	**49,887**	**53,249**	**57,069**	**59,106**	**62,115**	**63,781**	**65,898**	**69,824**	**72,866**
8 functions, percent of total	96.6	96.5	98.3	98.3	98.2	98.3	98.2	98.0	97.9	97.9	97.8
National defense	7,981	14,946	33,698	36,926	39,152	40,099	40,665	39,925	39,328	41,470	42,410
Health	1,084	3,694	5,418	5,565	6,556	7,076	7,773	8,308	9,226	10,030	10,479
Space research and technology	3,606	2,738	2,725	2,894	3,398	3,683	4,555	5,765	6,511	6,734	7,530
Energy	574	3,603	2,389	2,286	2,053	2,126	2,419	2,715	2,943	3,137	3,215
General science	452	1,233	1,862	1,873	2,042	2,160	2,373	2,410	2,635	2,745	3,154
Natural resources and environment	340	999	1,059	1,062	1,133	1,160	1,255	1,386	1,582	1,688	1,699
Transportation	535	887	1,030	917	908	896	1,064	1,045	1,231	1,419	1,640
Agriculture	238	585	836	815	822	882	907	950	1,052	1,140	1,154
CONSTANT (1987) DOLLARS [2]											
Total [1]	**44,371**	**42,135**	**52,891**	**54,828**	**57,069**	**57,036**	**57,392**	**56,609**	**56,260**	**57,840**	**58,414**
National defense	23,086	21,176	35,727	38,021	39,152	38,694	37,573	35,435	33,588	34,352	33,999
Health	3,136	5,234	5,744	5,730	6,556	6,828	7,182	7,374	7,879	8,309	8,401
Space research and technology	10,431	3,879	2,889	2,980	3,398	3,554	4,209	5,117	5,560	5,578	6,037
Energy	1,660	5,105	2,533	2,354	2,053	2,052	2,235	2,410	2,513	2,599	2,577
General science	1,307	1,747	1,974	1,929	2,042	2,084	2,193	2,139	2,250	2,274	2,528
Natural resources and environment	984	1,415	1,123	1,093	1,133	1,119	1,160	1,230	1,351	1,398	1,362
Transportation	1,548	1,257	1,092	944	908	865	983	927	1,051	1,175	1,315
Agriculture	688	829	886	839	822	851	838	843	898	944	925

[1] Includes other functions, not shown separately. [2] See footnote 1, table 973.
Source: U.S. National Science Foundation, *Federal R&D Funding by Budget Function*, annual.

No. 979. National Research and Development (R&D) Expenditures as a Percent of Gross Domestic Product, by Country: 1975 to 1991

YEAR	TOTAL R&D						NON DEFENSE R&D [1]					
	United States	Japan	Germany [2]	France	United Kingdom	Italy	United States	Japan	Germany [2]	France	United Kingdom	Italy
1975	2.2	2.1	2.2	1.8	2.2	0.8	1.6	2.1	2.1	1.4	1.4	0.8
1980	2.3	2.2	2.4	1.8	(NA)	0.7	1.8	2.2	2.3	1.4	(NA)	0.7
1985	2.8	2.8	2.7	2.3	2.3	1.1	2.0	2.8	2.6	1.8	1.7	1.1
1988	2.7	2.9	2.9	2.3	2.2	1.2	1.9	2.8	2.7	1.8	1.8	1.1
1989	2.7	3.0	2.9	2.3	2.3	1.2	1.9	3.0	2.7	1.8	1.9	1.2
1990	2.7	3.1	2.8	2.4	(NA)	1.4	1.9	3.0	2.7	1.8	(NA)	1.3
1991	2.7	(NA)	(NA)	(NA)	(NA)	(NA)	2.0	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. [1] Estimated. [2] Former West Germany.

Source: National Science Foundation, *National Patterns of R&D Resources: 1992;* and Organisation for Economic Co-operation and Development.

No. 980. Research and Development (R&D) Expenditures in Science and Engineering at Universities and Colleges in Current and Constant (1987) Dollars: 1981 to 1991

[In millions of dollars]

CHARACTERISTIC	1981	1989	1990	1991	CHARACTERISTIC	1981	1989	1990	1991
CURRENT DOLLARS					CONSTANT (1987) DOLLARS [1]				
Total	**6,847**	**15,016**	**16,344**	**17,620**	**Total**	**8,805**	**13,874**	**14,506**	**15,048**
Basic research	4,593	9,801	10,681	11,538	Basic research	5,907	9,056	9,480	9,854
Applied R&D	2,254	5,215	5,663	6,082	Applied R&D	2,899	4,818	5,026	5,194
Source of funds:					Source of funds:				
All governments	5,117	10,225	10,976	11,704	All governments	6,581	9,447	9,742	9,996
Institutions' own funds	1,004	2,712	3,017	3,369	Institutions' own funds	1,291	2,506	2,678	2,877
Industry	292	998	1,134	1,216	Industry	376	922	1,006	1,039
Other	435	1,080	1,218	1,333	Other	559	998	1,081	1,138
Fields:					Fields:				
Physical sciences	765	1,638	1,796	1,937	Physical sciences	984	1,513	1,594	1,654
Environmental sciences	549	1,009	1,073	1,120	Environmental sciences	706	932	952	957
Mathematical sciences	87	214	220	229	Mathematical sciences	112	198	195	196
Computer sciences	132	472	509	544	Computer sciences	170	436	452	465
Life sciences	3,698	8,079	8,762	9,493	Life sciences	4,756	7,465	7,777	8,107
Psychology	127	237	258	293	Psychology	163	219	229	250
Social sciences	366	637	702	745	Social sciences	471	589	623	636
Other sciences	145	331	360	364	Other sciences	186	306	320	311
Engineering	977	2,399	2,663	2,893	Engineering	1,256	2,217	2,364	2,471

[1] See footnote 1, table 973.
Source: U.S. National Science Foundation, *Survey of Scientific and Engineering Expenditures at Universities and Colleges*, annual.

No. 981. Federal Obligations to Universities and Colleges: 1970 to 1990

[In **millions of dollars, except percent. For fiscal years ending in year shown;** see text, section 9. Total and nonscience/engineering activities for 1983 are estimates based on revised student aid data from the Dept. of Education. Minus sign (-) indicates decrease]

ITEM	1970	1980	1983	1984	1985	1986	1987	1988	1989	1990
CURRENT DOLLARS										
Federal obligations, total	**3,237**	**8,299**	**9,345**	**10,039**	**10,972**	**11,619**	**13,434**	**14,067**	**15,502**	**15,205**
Annual percent change [1]	-6.5	9.1	6.5	7.4	9.3	5.9	15.6	4.7	10.2	-1.9
Academic science/engineering obligations	2,188	4,791	5,681	6,308	7,258	7,431	8,565	9,133	10,072	10,462
Percent of total	67.6	57.7	60.8	62.8	66.2	64.0	63.8	64.9	65.0	68.8
Research and development	1,447	4,161	5,024	5,449	6,246	6,457	7,241	7,719	8,523	9,031
Research and development plant	45	38	38	50	114	106	230	203	237	125
Other science/engineering activities	696	593	619	809	898	868	1,095	1,211	1,312	1,306
Nonscience/engineering activities	1,049	3,508	3,664	3,731	3,714	4,188	4,868	4,933	5,431	4,743
CONSTANT (1987) DOLLARS [2]										
Federal obligations, total	**9,362**	**11,758**	**10,738**	**11,051**	**11,632**	**11,964**	**13,434**	**13,574**	**14,323**	**13,495**
Annual percent change [1]	-11.3	0.1	2.2	2.9	5.3	2.8	12.3	1.0	5.5	-5.8
Academic science/engineering obligations	6,328	6,788	6,528	6,943	7,695	7,651	8,565	8,814	9,306	9,285
Percent of total	67.6	57.7	60.8	62.8	66.2	64.0	63.8	64.9	65.0	68.8
Research and development	4,185	5,895	5,774	5,998	6,622	6,648	7,241	7,449	7,874	8,015
Research and development plant	130	54	43	55	121	109	230	196	219	111
Other science/engineering activities	2,014	840	711	891	952	894	1,095	1,169	1,212	1,159
Nonscience/engineering activities	3,035	4,970	4,211	4,107	3,937	4,313	4,868	4,760	5,018	4,210

[1] Percent change from immediate prior year. [2] See footnote 1, table 973.

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

No. 982 Federal R&D Obligations to Selected Universities and Colleges: 1981 to 1990

[**For fiscal years ending in year shown;** see text, section 9. Data are for the top 45 institutions receiving Federal R&D funds in 1990. Awards to the administrative offices of university systems are excluded from totals for individual institutions because that allocation of funds is unknown, but those awards are included in "total all institutions"]

MAJOR INSTITUTION RANKED BY TOTAL 1990 FEDERAL R&D OBLIGATIONS	OBLIGATIONS ($1,000)				RANK			
	1981	1985	1989	1990	1981	1985	1989	1990
Total, all institutions [1]	**4,410,931**	**6,246,161**	**8,522,555**	**9,031,047**	(X)	(X)	(X)	(X)
45 institutions, percent of total	62.9	61.4	60.6	60.7	(X)	(X)	(X)	(X)
Johns Hopkins University	363,429	297,374	411,879	470,935	1	1	1	1
Stanford University	106,073	174,961	239,847	247,992	3	3	2	2
Massachusetts Institute of Technology	146,035	189,558	207,157	218,318	2	2	3	3
University of Washington	99,965	146,179	203,691	217,291	4	4	4	4
University of California—Los Angeles	94,945	128,211	170,839	176,735	5	5	5	5
University of Michigan	73,999	108,035	167,865	176,620	11	11	6	6
University of California—San Francisco	64,814	98,536	159,027	167,270	15	16	8	7
University of California—San Diego	91,403	103,633	166,601	165,224	6	13	7	8
University of Wisconsin—Madison	86,918	124,604	150,474	155,175	8	7	9	9
Columbia University—Main Division	83,659	127,331	150,263	153,171	9	6	10	10
Harvard University	87,830	109,414	141,760	148,055	7	9	12	11
Cornell University	72,671	119,966	139,954	144,749	13	8	13	12
University of Pennsylvania	76,136	103,119	132,805	142,509	10	15	14	13
Yale University	73,526	109,227	146,245	142,483	12	10	11	14
University of Minnesota	72,001	103,272	128,727	137,495	14	14	16	15
Pennsylvania State University	47,099	76,726	119,435	136,754	21	19	17	16
University of California—Berkeley	64,065	106,710	131,070	123,983	16	12	15	17
University of Southern California	49,221	89,706	114,766	122,734	20	17	18	18
Washington University	54,170	71,978	102,974	117,907	17	22	20	19
University of Colorado	46,146	71,424	101,345	116,449	22	23	21	20
Duke University	44,287	69,169	108,611	116,109	23	26	19	21
University of Pittsburgh	38,512	58,620	91,094	114,262	29	28	25	22
University of Chicago	53,992	71,194	90,611	104,074	18	24	26	23
University of Rochester	42,983	70,379	98,550	102,453	25	25	23	24
University of NC at Chapel Hill	38,447	63,105	95,025	100,183	30	27	24	25
University of Illinois—Urbana	53,583	83,122	100,062	99,742	19	18	22	26
University of Texas at Austin	43,756	72,379	84,619	93,401	24	21	27	27
University of Arizona	36,308	49,740	82,913	92,824	33	37	28	28
Ohio State University	42,899	56,065	72,702	80,401	26	30	31	29
University of Iowa	35,300	55,117	76,059	76,762	34	31	30	30
New York University	40,636	74,577	77,761	75,749	28	20	29	31
University of Alabama—Birmingham	29,970	44,093	70,702	74,529	44	46	32	32
Baylor College of Medicine	35,062	45,837	69,499	72,260	35	45	34	33
Case Western Reserve University	33,744	47,994	69,589	71,263	38	40	33	34
Vanderbilt University	27,426	39,909	63,978	70,585	49	48	39	35
California Institute of Technology	32,959	55,083	69,335	69,228	40	32	35	36
University of California—Davis	31,757	43,156	60,100	68,952	42	47	45	37
Yeshiva University	42,590	56,988	68,553	67,045	27	29	36	38
University of Massachusetts	22,418	46,046	67,183	66,811	55	44	38	39
University of Utah	38,163	50,938	61,361	65,250	31	36	41	40
University of Maryland—College Park	27,313	51,073	60,252	64,723	50	35	43	41
University of Miami	28,956	33,709	60,135	63,707	46	59	44	42
Purdue University	36,549	51,544	62,751	63,167	32	34	40	43
Indiana University	29,276	39,118	55,449	61,435	45	49	50	44
Northwestern University	32,446	48,260	57,494	61,100	41	39	49	45

X Not applicable. [1] Includes other institutions, not shown separately.

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

No. 983. Funds for Performance of Industrial Research and Development (R&D), by Source of Funds and Selected Industries, in Current and Constant (1987) Dollars: 1970 to 1990

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

1972 SIC [1] code	INDUSTRY	1970	1975	1980	1985	1987	1988	1989	1990
	CURRENT DOLLARS								
(X)	**Total funds**	**18,067**	**24,187**	**44,505**	**84,239**	**92,155**	**97,889**	**101,854**	**104,344**
28	Chemicals and allied products	1,773	2,727	4,636	8,540	9,635	10,772	11,466	12,565
13,29	Petroleum refining and extraction	515	693	1,552	(D)	1,897	1,944	2,066	2,099
35	Machinery	1,729	3,196	5,901	12,216	(D)	(D)	(D)	(D)
36	Electrical equipment	4,220	5,105	9,175	14,432	15,848	16,242	16,929	17,397
371	Motor vehicles and motor vehicles equipment	1,591	2,340	4,955	6,984	(D)	(D)	(D)	(D)
372,376	Aircraft and missiles	5,219	5,713	9,198	22,231	24,458	25,900	25,638	25,357
38	Professional and scientific instruments	744	1,173	3,029	5,013	5,222	5,426	5,743	6,163
(X)	All other [2]	2,276	3,240	6,059	(D)	(D)	(D)	(D)	(D)
(X)	**Company funds**	**10,288**	**15,582**	**30,476**	**57,043**	**61,403**	**65,772**	**70,562**	**73,764**
28	Chemicals and allied products	1,593	2,490	4,264	8,310	9,445	10,573	11,383	12,498
13,29	Petroleum refining and extraction	493	(D)	1,401	2,194	1,883	1,923	2,050	2,083
35	Machinery	1,469	2687	5,254	10,701	10,577	11,992	13,478	13,804
36	Electrical equipment	2,008	2,798	5,431	9,271	10,449	11,061	11,641	11,768
371	Motor vehicles and motor vehicles equipment	1,278	2,022	4,300	6,164	7,167	7,769	8,725	8,550
372,376	Aircraft and missiles	1,213	1,285	2,570	5,649	5,939	6,023	6,005	6,140
38	Professional and scientific instruments	550	1,001	2,456	4,622	4,950	5,306	5,630	6,064
(X)	All other [2]	1,684	(D)	4,800	10,132	10,993	11,125	11,650	12,857
	CONSTANT (1987) DOLLARS [3]								
(X)	**Total funds**	**51,429**	**49,171**	**62,062**	**89,265**	**92,155**	**94,260**	**93,944**	**92,446**
28	Chemicals and allied products	5,047	5,544	6,465	9,050	9,635	10,373	10,576	11,132
13,29	Petroleum refining and extraction	1,466	1,409	2,164	(D)	1,897	1,872	1,906	1,860
35	Machinery	4,922	6,497	8,229	12,945	(D)	(D)	(D)	(D)
36	Electrical equipment	12,013	10,378	12,795	15,293	15,848	15,640	15,614	15,413
371	Motor vehicles and motor vehicles equipment	4,529	4,757	6,910	7,401	(D)	(D)	(D)	(D)
372,376	Aircraft and missiles	14,856	11,614	12,827	23,557	24,458	24,940	23,647	22,466
38	Professional and scientific instruments	2,118	2,385	4,224	5,312	5,222	5,225	5,297	5,460
(X)	All other [2]	6,479	6,587	8,449	(D)	(D)	(D)	(D)	(D)
(X)	**Company funds**	**29,286**	**31,677**	**42,499**	**60,446**	**61,403**	**63,334**	**65,082**	**65,353**
28	Chemicals and allied products	4,535	5,062	5,946	8,806	9,445	10,181	10,499	11,073
13,29	Petroleum refining and extraction	1,403	(D)	1,954	2,325	1,883	1,852	1,891	1,846
35	Machinery	4,182	5,463	7,327	11,339	10,577	11,547	12,431	12,230
36	Electrical equipment	5,716	5,688	7,574	9,824	10,449	10,651	10,737	10,426
371	Motor vehicles and motor vehicles equipment	3,638	4,111	5,996	6,532	7,167	7,481	8,047	7,575
372,376	Aircraft and missiles	3,453	2,612	3,584	5,986	5,939	5,800	5,539	5,440
38	Professional and scientific instruments	1,566	2,035	3,425	4,898	4,950	5,109	5,193	5,373
(X)	All other [2]	4,794	(D)	6,694	10,737	10,993	10,713	10,745	11,391

D Figure withheld to avoid disclosure of information pertaining to a specific organization or individual. X Not applicable.
[1] 1972 Standard Industrial Classification. See text, section 13. [2] All other manufacturing and nonmanfacturing. [3] See footnote 1, table 973.

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

No. 984. R&D Funds as a Percent of Net Sales in R&D-Performing Manufacturing Companies, by Industry: 1970 to 1990

1972 SIC [1] code	INDUSTRY	TOTAL R&D FUNDS AS A PERCENT OF NET SALES					COMPANY R&D FUNDS AS A PERCENT OF NET SALES				
		1970	1980	1985	1989	1990	1970	1980	1985	1989	1990
(X)	**Total** [2]	**3.7**	**3.0**	**4.4**	**4.6**	**4.6**	**2.2**	**2.1**	**3.0**	**3.2**	**3.2**
20	Food and kindred products [3]	0.5	0.4	(D)	(D)	(D)	0.5	(D)	0.6	0.5	0.5
26	Paper and allied products	0.9	1.0	(D)	0.7	0.8	(D)	1.0	0.8	0.7	0.8
28	Chemicals and allied products	3.9	3.6	5.0	5.4	5.7	3.5	3.3	4.9	5.3	5.7
13,29	Petroleum refining and extraction	1.0	0.6	(D)	1.0	0.9	0.9	0.5	0.9	1.0	0.8
30	Rubber products	2.3	2.2	(D)	(D)	(D)	1.7	(D)	1.8	1.7	1.8
32	Stone, clay, and glass products	1.8	1.4	(D)	(D)	(D)	1.7	1.3	2.3	2.3	2.3
33	Primary metals	0.8	0.7	(D)	0.9	(D)	0.8	0.5	0.9	0.9	1.0
34	Fabricated metal products	1.2	1.4	1.5	1.2	1.2	1.1	1.2	1.4	1.0	1.0
35	Machinery	4.0	5.0	7.6	8.7	8.9	3.4	4.5	6.7	8.0	8.4
36	Electrical equipment	7.3	6.6	7.6	7.1	7.3	3.4	3.9	4.8	4.9	4.9
371	Motor vehicles and motor vehicle equipment	3.5	4.9	3.8	(D)	(D)	2.8	4.2	3.1	3.8	3.9
372,376	Aircraft and missiles	16.2	13.7	14.9	15.3	14.3	3.8	3.8	3.9	3.6	3.5
38	Professional and scientific instruments	5.7	7.5	8.9	7.5	7.7	4.2	6.1	8.3	7.3	7.6

D Figure withheld to avoid disclosure of information pertaining to a specific organization or individual. X Not applicable.
[1] 1972 Standard Industrial Classification. See text, section 13. [2] Includes all manufacturing industries. [3] Includes tobacco products (SIC 21) beginning 1985.

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

No. 985. Federal Obligations for Research, by Field of Science in Current and Constant (1987) Dollars: 1980 to 1992

[In millions of dollars. For fiscal years ending in year shown; see text, section 9. See headnote, table 978]

FIELD	1980	1984	1985	1986	1987	1988	1989	1990	1991	1992, est.
CURRENT DOLLARS										
Research, total	11,597	14,979	16,133	16,502	17,940	18,650	20,765	21,739	24,072	25,683
Basic	4,674	7,067	7,819	8,153	8,942	9,474	10,602	11,286	12,446	13,208
Applied	6,923	7,911	8,315	8,349	8,998	9,176	10,163	10,453	11,626	12,475
Life sciences	4,192	5,636	6,363	6,464	7,341	7,724	8,495	8,838	9,670	10,230
Psychology	199	267	327	334	370	390	422	449	487	522
Physical sciences	2,001	2,969	3,046	3,069	3,253	3,317	3,705	3,809	4,123	4,523
Environmental sciences	1,261	1,276	1,404	1,482	1,512	1,607	1,773	2,174	2,450	2,627
Mathematics and computer sciences	241	440	575	615	641	643	735	841	946	1,007
Engineering	2,830	3,624	3,618	3,739	3,906	3,956	4,442	4,395	4,924	5,359
Social sciences	524	436	460	416	480	486	551	630	772	706
Other sciences, n.e.c. [1]	350	331	342	383	438	527	642	664	701	708
CONSTANT (1987) DOLLARS [2]										
Research, total	16,432	16,487	17,105	16,992	17,940	17,997	19,186	19,294	20,559	21,275
Basic	6,623	7,779	8,290	8,395	8,942	9,142	9,796	10,017	10,629	10,941
Applied	9,809	8,708	8,815	8,597	8,998	8,855	9,390	9,278	9,929	10,334
Life sciences	5,940	6,204	6,746	6,656	7,341	7,453	7,849	7,844	8,259	8,474
Psychology	282	294	347	344	370	376	390	399	416	432
Physical sciences	2,835	3,268	3,229	3,160	3,253	3,201	3,423	3,381	3,521	3,747
Environmental sciences	1,787	1,404	1,488	1,526	1,512	1,551	1,636	1,930	2,092	2,176
Mathematics and computer sciences	341	485	610	634	641	620	679	746	808	834
Engineering	4,010	3,989	3,835	3,850	3,906	3,818	4,104	3,848	4,205	4,439
Social sciences	742	480	488	428	480	469	509	559	659	585
Other sciences, n.e.c. [1]	495	364	362	395	438	508	593	589	599	586

[1] N.e.c. = Not elsewhere classified. [2] See footnote 1, table 973.

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

No. 986. Research and Development Scientists and Engineers—Average Full-Time-Equivalent Employment and Cost, by Industry: 1975 to 1990

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

1972 SIC [1] code	INDUSTRY	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990
	EMPLOYED SCIENTISTS										
(X)	**Average FTE of scientists and engineers (1,000)** [2 3]	363.9	469.2	562.5	603.3	646.8	684.2	702.2	714.4	725.6	720.3
28	Chemicals [4]	44.8	53.1	68.6	70.5	73.5	74.4	75.5	76.7	78.3	79.4
35	Machinery	54.3	65.7	83.3	84.4	85.7	93.1	97.1	99.1	106.1	109.7
36	Electrical equipment [5]	81.5	100.7	110.9	113.2	115.6	123.1	131.5	136.6	139.3	139.5
371	Motor vehicles	25.7	36.7	28.6	28.7	31.3	42.1	46.9	46.6	47.8	47.6
372,376	Aircraft and missiles	67.2	90.6	107.3	120.9	137.5	137.5	136.4	139.4	135.4	123.4
(X)	CONSTANT (1987) DOLLARS [6]										
(X)	**Cost per scientist or engineer ($1,000)** [3 7]	135.2	132.3	133.1	136.2	138.0	132.6	131.2	131.9	129.7	128.4
28	Chemicals [4]	123.8	121.9	120.2	123.6	123.2	120.8	127.6	135.2	135.2	140.2
35	Machinery	119.7	125.4	124.4	136.7	151.0	(D)	(D)	(D)	127.7	118.7
36	Electrical equipment [5]	127.5	127.0	131.1	133.7	132.4	124.5	120.6	114.5	112.2	110.5
371	Motor vehicles	185.2	188.5	211.9	232.2	236.4	(D)	(D)	(D)	(D)	(D)
372,376	Aircraft and missiles	173.0	141.7	164.8	171.3	171.3	154.6	179.4	179.0	174.7	182.0

D Withheld to avoid disclosure. X Not applicable. [1] 1972 Standard Industrial Classification; see text, section 13. [2] The mean number of FTE R&D scientists and engineers employed in January of the year shown and the following January. [3] Includes industries not shown separately. [4] Includes allied products. [5] Includes communication. [6] See footnote 1, table 973. [7] Represents the arithmetic mean of the numbers of R&D scientists and engineers reported in each industry for January in two consecutive years divided into total R&D expenditures in each industry.

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

No. 987. Scientists and Engineers Employed in Research and Development: 1970 to 1989

[**In thousands of full-time equivalent employees.** Data are estimates. Yearly averages for industry sector only. Excludes those employed by State and local government agencies]

SECTOR	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989
Total	**543.8**	**651.1**	**711.8**	**751.6**	**797.6**	**841.6**	**882.3**	**910.2**	**927.3**	**949.3**
Industry (excl. social scientists)	375.6	469.2	525.4	562.5	603.3	646.8	683.4	702.2	714.4	726.0
Federal Government	67.5	58.6	60.0	61.3	62.1	55.0	54.4	57.4	57.6	60.0
Other [1]	100.7	123.3	126.4	127.8	132.2	139.8	144.5	150.6	155.3	163.3

[1] Includes professional R&D personnel employed at universities and colleges, other nonprofit institutions, and federally funded R&D centers administered by organizations in these sectors, and graduate students engaged in R&D at universities and colleges.

Source: U.S. National Science Foundation, *National Patterns of R&D Resources: 1992.*

No. 988. Science and Engineering Degree Recipients in 1988 and 1989—Selected Characteristics: 1990

[Based on survey and subject to sampling error; see source for details]

DEGREE AND FIELD	Graduates 1988 and 1989 (1,000)	1990—PERCENT DISTRIBUTION				Median salary ($1,000)
		In school [1]	Employed		Not employed	
			In S&E [2]	In other		
Bachelor's recipients	**643.2**	**20**	**44**	**32**	**5**	**26.0**
All science fields	494.5	22	35	38	5	23.8
Physical sciences	29.4	39	38	18	5	25.1
Math/statistics	35.2	18	50	26	6	23.6
Computer science	69.3	6	77	13	4	30.1
Environmental science	7.3	30	49	15	5	23.7
Life sciences	111.2	32	34	28	6	21.0
Psychology	85.7	21	20	54	5	18.6
Social Sciences	156.4	20	19	55	5	21.9
All engineering fields [3]	148.7	11	73	12	3	33.0
Civil	15.2	10	78	9	3	30.1
Electrical/electronics	55.5	11	76	10	3	34.0
Industrial	12.3	5	72	18	5	31.1
Mechanical	30.0	11	76	10	4	34.0
Master's recipients	**136.6**	**23**	**61**	**13**	**4**	**37.0**
All science fields	93.7	25	55	16	4	33.8
Physical sciences	9.2	41	49	8	2	34.9
Math/statistics	10.6	18	67	13	2	32.8
Computer science	22.2	9	78	10	3	42.1
Environmental science	5.2	21	71	6	2	33.8
Life sciences	19.3	35	47	15	4	26.9
Psychology	7.3	34	36	26	4	32.0
Social Sciences	19.9	26	37	30	7	31.0
All engineering fields [3]	42.9	17	73	6	3	41.4
Civil	4.7	11	85	4	-	35.2
Electrical/electronics	13.8	19	72	4	5	46.5
Industrial	2.6	8	62	23	8	40.3
Mechanical	8.0	15	79	5	1	42.1

[1] Full-time graduate students. [2] In science and engineering. [3] Includes other fields, not shown separately.

Source: National Science Foundation/SRS, *Characteristics of Recent Science and Engineering Graduates: 1990.* (Data are biennial.)

No. 989. Professional Scientific, Engineering, and Technical Personnel in the Federal Government, by Occupational Group: 1970 to 1989

[**In thousands, except percent.** As of **October.** Excludes health professional personnel]

OCCUPATIONAL GROUP	1970	1980	1985 [1]	1987 [1]	1988 [1 2]	1989 [1 2]	PERCENT FEMALE					
							1970	1980	1985 [1]	1987 [1]	1988 [1 2]	1989 [1 2]
Total	**180.3**	**206.9**	**238.0**	**240.0**	**217.6**	**223.3**	**6.7**	**9.5**	**13.8**	**15.4**	**13.8**	**14.7**
Scientific personnel	77.2	88.0	91.4	89.1	86.7	87.7	8.0	12.7	15.6	22.7	17.6	18.6
Physical sciences	29.8	27.6	27.6	27.1	26.5	26.6	6.4	9.5	12.5	13.9	14.4	14.8
Mathematics [3]	8.6	11.1	11.0	10.4	9.8	9.7	17.4	19.8	22.8	23.7	23.4	24.0
Life sciences	26.9	30.5	33.5	33.1	33.2	33.8	4.1	8.7	12.1	14.2	15.0	16.3
Social sciences [4]	6.6	10.5	10.1	10.1	10.4	10.2	16.2	23.3	25.1	26.3	26.4	26.8
Economics	4.3	5.9	5.9	5.6	5.5	5.5	11.1	17.4	20.6	21.3	21.5	22.1
Other	2.3	4.6	4.2	4.5	4.9	4.7	25.1	30.8	31.5	32.6	31.9	36.6
Geography [5]	3.3	4.9	5.7	4.9	3.6	4.1	8.5	14.8	17.0	18.0	19.2	19.2
Psychology	2.2	3.3	3.4	3.5	3.3	3.4	13.7	16.8	21.4	23.6	23.0	24.7
Engineering personnel	83.0	89.6	105.1	109.7	108.2	111.4	0.5	1.9	5.3	6.7	7.2	7.8
Computer specialists	20.1	29.3	41.5	41.2	22.7	24.3	21.1	23.3	31.4	34.8	31.2	32.0

[1] Excludes U.S. Post Office. [2] Not comparable with previous years. Excludes employees with less than a bachelor's degree. [3] Includes statistics. [4] Includes community planning. [5] Includes cartography and land surveying.

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

No. 990. Civilian Employment of Scientists, Engineers, and Technicians, by Occupation and Major Industrial Sector: 1990

[In thousands. Based on sample and subject to sampling error. For details, see source]

OCCUPATION	Total [1]	WAGE AND SALARY WORKERS								Self employed
		Mining [2]	Construction	Manufacturing	Transportation [3]	Trade	FIRE [4]	Services	Government	
Scientists and engineers	**2,600.7**	**48.0**	**24.9**	**927.2**	**117.7**	**61.8**	**87.1**	**711.1**	**451.4**	**161.0**
Scientists	1,081.7	22.6	1.3	182.9	33.6	27.5	72.5	356.9	250.2	125.0
Physical scientists	199.5	19.0	0.1	59.3	2.6	2.0	0.2	61.8	43.1	11.0
Life scientists	173.5	0.2	-	23.6	1.0	1.6	0.6	64.4	66.6	7.0
Mathematical scientists	21.6	-	-	2.5	1.7	-	2.0	9.1	6.3	-
Social scientists	223.9	0.4	-	0.0	1.8	-	10.0	87.6	58.8	65.0
Systems analysts, EDP	463.2	3.1	1.2	97.4	26.6	23.8	59.7	133.9	75.4	42.0
Engineers [5]	1,519.0	25.4	23.6	744.3	84.1	34.4	14.6	354.2	201.2	36.0
Civil engineers	198.0	1.0	8.9	9.4	7.4	0.4	1.1	79.0	83.6	7.0
Electrical/electronics	426.2	1.1	4.5	196.7	40.5	18.8	0.9	117.3	40.4	6.0
Mechanical engineers	233.3	1.7	4.7	141.6	5.8	5.4	0.9	54.0	14.3	5.0
Engineering and science technicians	1,326.4	18.0	24.6	481.9	77.0	99.6	7.1	412.3	173.8	24.0
Electrical/electronics technicians	363.0	0.8	5.0	145.6	32.0	78.8	1.6	64.7	29.6	5.0
Engineering technicians	391.8	5.5	5.4	137.5	24.0	9.1	1.6	105.2	97.6	5.0
Drafters	325.2	4.1	14.1	106.4	17.4	7.6	1.7	148.0	13.8	10.0
Science technicians	246.4	7.6	0.0	92.3	3.8	4.1	2.3	94.3	32.8	4.0
Surveyors	108.0	2.7	2.8	-	2.9	-	0.5	68.2	24.3	6.0
Computer programmers	564.7	3.2	2.1	99.7	26.6	56.3	77.4	233.6	50.4	15.0

- Represents or rounds to zero. [1] Includes agriculture, forestry, and fishing not shown separately. [2] Includes oil and gas extraction. [3] Includes communications and public utilities. [4] Finance, insurance, and real estate. [5] Includes kinds of engineers and technicians not shown separately.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 1991. (Data collected biennially.)

No. 991. Doctoral Scientists and Engineers—Selected Characteristics: 1975 to 1989

[In thousands]

CHARACTERISTIC	1975	1985	1989		CHARACTERISTIC	1975	1985	1989	
			Number	Employed				Number	Employed
Total	**270.4**	**424.6**	**485.2**	**448.7**	Women	25.6	64.0	84.5	77.2
Field:					Race:				
Life scientists	68.3	109.9	127.0	115.8	White	245.4	377.9	432.0	397.2
Physical scientists	58.5	73.1	78.3	70.2	Black	2.6	5.9	7.6	7.2
Psychologists	31.3	54.9	64.8	60.6	Asian/Pacific Islander	13.9	35.5	42.6	41.1
Social scientists	38.6	68.5	76.8	70.0	Other and not reported	8.4	5.2	2.9	3.2
Economists	12.6	19.1	20.5	18.6	Employment status:				
Other social scientists	26.0	49.4	56.3	51.4	Full-time employed	240.6	371.9	411.0	411.0
Engineers	43.5	67.9	78.4	74.8	Part-time employed	7.3	16.7	22.9	22.9
Mathematical scientists	14.2	17.5	18.8	17.6	Postdoctorates	8.2	11.8	14.8	14.8
Computer specialists	3.5	15.0	19.9	19.8	Unemployed/seeking	2.5	3.4	3.8	(X)
Environmental scientists	12.5	18.0	21.1	19.8	Unemployed/not seeking	2.4	3.9	4.2	(X)
Sex:					Retired/not employed	8.7	16.2	27.4	(X)
Men	244.9	360.6	400.6	371.5	Other and not reported	0.9	0.8	1.1	(X)

X Not applicable.

Source: U.S. National Science Foundation, *Characteristics of Doctoral Scientists and Engineers in the United States*, biennial series.

No. 992. Graduate Science/Engineering Students in Doctorate-Granting Institutions of Higher Education, by Sex, Citizenship, and Enrollment Status: 1975 to 1991

[As of fall. Includes outlying areas]

FIELD OF SCIENCE OR ENGINEERING	TOTAL (1,000)				PERCENT—								
					Female			Foreign		Part-time			
	1975	1980	1990	1991	1980	1990	1991	1990	1991	1975	1980	1990	1991
Total, all surveyed fields	**291.6**	**321.2**	**384.9**	**411.3**	**32.5**	**36.6**	**37.9**	**26.1**	**24.4**	**29.2**	**30.9**	**30.1**	**30.3**
Science/engineering	268.8	285.2	343.6	360.7	27.7	32.1	32.6	28.1	26.7	29.3	29.9	28.4	28.1
Engineering, total	65.2	69.3	98.4	105.1	8.6	13.6	13.8	36.7	34.4	43.0	40.0	35.6	34.4
Sciences, total	203.6	215.9	245.3	255.6	33.9	39.6	40.3	24.6	23.6	24.9	26.6	25.5	25.5
Physical sciences	24.9	25.4	31.9	32.9	16.6	23.3	24.3	37.7	36.4	13.9	12.3	11.0	10.9
Environmental	11.1	12.8	12.8	13.2	22.7	29.0	30.1	20.5	19.9	18.2	19.3	23.4	25.3
Mathematical sciences	14.7	13.6	17.1	17.5	25.4	30.5	30.9	35.6	34.8	30.8	31.2	23.1	22.8
Computer sciences	7.4	11.4	27.5	27.7	21.8	22.8	22.9	33.2	33.1	43.5	48.0	46.7	47.3
Agricultural sciences	10.2	11.7	10.5	10.7	23.4	29.6	31.1	27.1	26.5	15.4	17.1	18.0	18.2
Biological sciences	41.7	42.6	45.6	48.1	38.1	45.5	45.9	25.0	23.7	15.7	16.1	14.8	14.2
Psychology	27.8	29.8	34.2	36.4	52.1	65.4	66.0	4.7	4.4	27.2	26.0	28.0	28.3
Social sciences	66.0	68.7	65.5	69.1	37.2	43.0	43.2	22.3	21.1	33.1	37.3	32.2	31.8
Health fields, total	22.8	36.0	41.3	50.6	70.8	73.6	76.2	9.9	8.1	28.2	38.9	44.7	46.1

Source: U.S. National Science Foundation, *Survey of Graduate Science Science and Engineering Students and Postdoctorates*, annual.

No. 993. Doctorates Conferred, by Recipients' Characteristics, 1980 to 1991, and by Selected Science and Engineering Fields, 1991

[In percent, except as indicated]

CHARACTERISTIC	ALL FIELDS		1991									
	1980	1985	All fields [1]	Engineering	Physical sciences [2]	Earth sciences	Mathematics	Computer sciences	Biological sciences [3]	Agricultural	Social sciences [4]	Psychology
Total conferred (number)	**31,020**	**31,297**	**37,451**	**5,212**	**3,602**	**837**	**1,040**	**797**	**4,642**	**1,072**	**3,306**	**3,240**
Male	69.7	65.7	63.2	91.3	81.7	77.9	81.3	85.4	62.1	60.5	63.7	38.8
Female	30.3	34.3	36.8	8.7	18.3	22.1	18.7	14.6	37.9	19.5	36.3	61.2
Median age [5]	32.2	33.3	33.9	31.4	29.7	32.6	30.9	31.7	31.3	33.8	343.0	33.9
CITIZENSHIP [6]												
Total conferred (number)	30,156	29,921	35,389	4,831	3,431	798	974	779	4,482	1,031	3,124	2,977
U.S. citizen	83.6	78.1	69.9	40.9	59.7	73.2	45.1	48.7	72.5	53.4	60.9	93.9
Foreign citizen	16.4	21.9	30.1	59.1	40.3	26.8	54.9	51.3	27.5	46.6	39.1	6.1
RACE/ETHNICITY [7]												
Total conferred (number)	26,512	24,693	26,535	2,358	2,220	620	491	441	3,455	607	2,128	2,856
White [8]	84.7	86.2	85.2	75.8	86.2	89.8	83.5	78.9	86.5	88.0	82.1	88.9
Black [8]	4.2	4.2	4.1	2.3	1.4	2.1	1.6	1.8	1.6	2.8	5.7	4.1
Asian/Pacific [8]	4.2	4.3	5.6	17.0	7.3	2.7	11.6	14.7	7.4	3.8	5.2	2.0
Indian/Alaskan [8]	0.3	0.4	0.5	0.3	0.5	0.5	0.0	0.2	0.3	0.7	0.4	0.5
Hispanic	1.8	2.6	3.2	2.5	2.8	2.6	1.8	2.5	2.7	2.5	4.3	4.1
Other/unknown	4.9	2.2	1.5	2.1	1.8	2.3	1.4	1.8	1.5	2.3	2.3	0.6

[1] Includes other fields, not shown separately. [2] Astronomy, physics, and chemistry. [3] Biochemistry, botany, microbiology, physiology, zoology, and related fields. [4] Anthropology, sociology, political science, economics, and international relations. [5] For definition of median, see Guide to Tabular Presentation. [6] For those with known citizenship. Includes those with temporary visas. [7] Excludes those with temporary visas. [8] Non-Hispanic.

Source: U.S. National Science Foundation, Division of Science Resources Studies, Survey of Earned Doctorates, *Selected Data on Science and Engineering Doctorate Awards: 1991*, annual.

No. 994. Nobel Prize Laureates in Chemistry, Physics, and Physiology/Medicine—Selected Countries: 1901 to 1991

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

COUNTRY	1901-1991				1901-1915	1916-1930	1931-1945	1946-1960	1961-1975	1976-1991
	Total	Physics	Chemistry	Physiology/Medicine						
Total	**410**	**141**	**116**	**153**	**52**	**41**	**49**	**74**	**92**	**102**
United States	162	57	36	69	3	3	14	38	41	63
United Kingdom	69	21	24	24	7	8	11	14	20	9
West Germany [1]	59	17	28	14	15	12	11	4	8	9
France	23	9	7	7	10	3	2	-	5	3
Soviet Union	10	7	1	2	2	-	-	4	3	1
Japan	4	3	1	-	-	-	-	1	2	1
Other countries	83	27	19	37	15	15	11	13	13	16

- Represents zero. [1] Includes East Germany before 1946.

Source: U.S. National Science Foundation, unpublished data.

No. 995. Federal Space Program—Budget Authority, by Agency: 1960 to 1991

[In millions of dollars, except percent. For fiscal years ending in year shown; see text, section 9. NASA = National Aeronautics and Space Administration]

YEAR	Total	NASA [1]		DEFENSE		Other	YEAR	Total	NASA [1]		DEFENSE		Other
		Total	Percent of total	Total	Percent of total				Total	Percent of total	Total	Percent of total	
1960	1,066	462	43.3	561	52.6	43	1979	7,244	4,030	55.6	3,036	41.9	178
1965	6,956	5,138	73.9	1,574	22.6	244	1980	8,689	4,680	53.9	3,848	44.3	160
1966	6,970	5,065	72.7	1,689	24.2	217	1981	9,978	4,992	50.0	4,828	48.4	158
1969	5,976	3,822	64.0	2,013	33.7	141	1982	12,441	5,528	44.4	6,679	53.7	234
1970	5,341	3,547	66.4	1,678	31.4	115	1983	15,589	6,328	40.6	9,019	57.9	242
1971	4,741	3,101	65.4	1,512	31.9	127	1984	17,136	6,648	38.8	10,195	59.5	293
1972	4,575	3,071	67.1	1,407	30.8	97	1985	20,167	6,925	34.3	12,768	63.3	474
1973	4,825	3,093	64.1	1,623	33.6	109	1986	21,659	7,165	33.1	14,126	65.2	368
1974	4,640	2,759	59.4	1,766	38.1	116	1987	26,448	[3]9,809	37.1	16,287	61.6	352
1975	4,914	2,915	59.3	1,892	38.5	107	1988	26,607	8,302	31.2	17,679	66.4	626
1976 [2]	6,660	4,075	61.2	2,444	36.7	142	1989	28,443	10,098	35.5	17,906	63.0	440
1977	5,983	3,440	57.5	2,412	40.3	131	1990	28,089	12,142	43.2	15,616	55.6	330
1978	6,518	3,623	55.6	2,738	42.0	157	1991	27,592	13,036	47.2	14,181	51.4	375

[1] Includes budget authority for the space transportation system of $3.1 billion in 1982; $4.1 billion in 1983; and $4.0 billion in 1984. [2] Includes transition quarter, July 1 to Sept. 30, 1976. [3] Includes $2.1 billion for replacement of shuttle orbiter Challenger.

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. 996. Space Vehicle Systems—Net Sales and Backlog Orders: 1965 to 1991

[**In millions of dollars.** Backlog orders as of Dec. 31. Based on data from major companies engaged in manufacture of aerospace products. Includes parts but 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	1985. .	6,300	4,241	2,059	6,707	4,941	1,766
1970. .	1,956	1,025	931	1,184	786	398	1986. .	6,304	4,579	[1]1,725	8,063	6,028	[1]2,035
1975. .	2,119	1,096	1,023	1,304	1,019	285	1987. .	8,051	5,248	[1]2,803	12,393	9,460	[1]2,933
1980. .	3,483	1,461	2,022	1,814	951	863	1988. .	8,622	6,190	[1]2,432	10,838	7,880	[1]2,958
1981. .	3,856	1,736	2,120	3,174	2,164	1,010	1989. .	9,758	6,457	[1]3,301	13,356	9,192	[1]4,164
1982. .	4,749	2,606	2,143	4,337	2,403	1,934	1990. .	9,691	6,556	[1]3,135	12,462	8,130	[1]4,332
1983. .	4,940	2,420	2,520	4,865	2,733	2,132	1991. .	10,953	6,898	[1]4,055	12,450	6,539	[1]5,911
1984. .	5,225	3,019	2,206	4,624	3,099	1,525							

[1] Includes data for nonmilitary missile systems and parts.
Source: U.S. Bureau of the Census, *Current Industrial Reports*, MA-37D, *Aerospace Industry (Orders, Sales, and Backlog)*.

No. 997. National Aeronautics and Space Administration—Budget Summary: 1993 and 1994

[**In millions of dollars.** 1993 data are appropriations; 1994 data are budget requests]

ITEM	1993	1994
Total	**14,330.4**	**15,265.0**
Research and development	**7,089.3**	**7,712.3**
Space station and new technology investments	2,122.5	2,300.0
Space transportation capability development	649.2	649.2
Space science	1,577.5	1,631.9
Physics and astronomy	1,103.8	1,074.7
Planetary exploration	473.7	557.2
Life and microgravity sciences and applications	140.5	351.0
Mission to Planet Earth	1,148.0	1,074.9
Space research and technology	272.7	298.2
Commercial programs	164.4	172.0
Aeronautical research and technology	865.6	1,020.7
Transatmospheric research and technology	-	80.0
Safety, reliability and quality assurance	32.7	35.3
Academic programs	92.9	74.5
Tracking and data advanced systems	23.3	24.6
Space flight, control and data communications	**5,086.0**	**5,316.9**
Shuttle production and operational capability	1,053.0	1,189.6
Shuttle operations	3,016.0	3,006.5
Launch services	180.8	300.3
Space and ground networks, communications and data system	836.2	820.5
Construction of facilities	525.0	545.3
Research and program management	1,615.0	1,675.0
Inspector General	15.1	15.5

- Represents or rounds to zero.

Source: U.S. National Aeronautics and Space Administration, *1994 Budget Summary*.

No. 998. NASA Financial Summary: 1970 to 1993

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

YEAR	TOTAL		R&D		COMMUNICATIONS [1]		FACILITIES CONSTRUCTION		RESEARCH AND PROGRAM DEVELOPMENT	
	Appropriations	Outlays	Appropriations	Outlays	Appropriations	Outlays	Appropriations	Outlays	Appropriations	Outlays
1970	3,749	3,753	3,006	2,992	-	-	53	54	690	707
1975	3,231	3,267	2,331	2,420	-	-	140	85	760	761
1980	5,243	4,852	4,091	3,701	-	-	156	140	996	1,010
1984	7,243	7,048	2,045	2,792	3,786	2,915	156	109	1,256	1,232
1985	7,552	7,318	2,468	2,118	3,602	3,707	150	170	1,332	1,323
1986	7,764	7,404	2,638	2,615	3,689	3,267	133	189	1,303	1,332
1987	10,621	7,592	3,166	2,436	5,561	3,597	469	149	1,425	1,409
1988	9,002	9,092	3,414	2,916	3,908	4,362	178	166	1,501	1,648
1989 [2]	10,898	11,051	4,267	3,922	4,464	5,030	305	190	1,862	1,908
1990 [2]	12,296	12,428	5,221	5,094	4,555	5,117	588	218	1,923	1,991
1991 [2]	15,078	13,877	6,024	5,766	6,334	5,590	498	326	2,212	2,185
1992 [2]	14,302	13,818	6,396	6,261	5,124	5,311	525	448	2,242	1,784
1993, est. [2]	14,330	14,081	7,089	6,912	5,086	5,031	525	517	1,615	1,606

- Represents zero. [1] Space flight, control, and data communications. [2] Include appropriations and outlays for the Inspector General, not shown separately.

Source: National Aeronautics and Space Administration, *NASA News*.

No. 999. Space Shuttle System Expenditures, by NASA in Constant (1982) Dollars: 1973 to 1992

[In millions of dollars. For year ending Sept. 30. These data cannot be used alone to estimate the total shuttle cost. Only operating expenditures correspond to an annual cost in the economic sense, and even those estimates require adjustment for the 3-year period over which the cost of a shuttle flight is incurred and reimbursements are received. For details, see source]

YEAR	Total	D.D.T. and E. [1]	Construction	Production	Operations	YEAR	Total	D.D.T. and E. [1]	Construction	Production	Operations
1973	58	-	58	-	-	1983	3,014	-	26	1,635	1,354
1974	325	216	109	-	-	1984	3,127	-	73	690	2,364
1975	1,543	1,407	136	-	-	1985	2,636	-	42	1,376	1,218
1976	2,619	2,541	79	-	-	1986	2,606	-	-	1,184	1,422
1977	2,258	2,089	60	109	-	1987	4,165	-	-	2,611	1,553
1978	2,062	1,898	103	61	-	1988	2,538	-	-	948	1,590
1979	2,251	1,713	42	496	-	1989	3,084	-	-	943	2,141
1980	2,751	1,339	42	907	463	1990	2,996	-	-	968	2,028
1981	2,724	1,041	13	1,093	578	1991	3,058	-	-	989	2,069
1982	2,932	894	20	1,283	735	1992	3,140	-	-	976	2,164

- Represents or rounds to zero. [1] Design, development, testing, and evaluation.

Source: U.S. Congress, Congressional Budget Office, unpublished data.

No. 1000. Space Shuttle Flights—Summary: 1981 to 1992

FLIGHT NUMBER	Date	Mission/ Orbiter name	Crew size	Days duration	FLIGHT NUMBER	Date	Mission/ Orbiter name	Crew size	Days duration
1	4/12/81	Columbia	2	2	27	12/2/88	Atlantis	4	4
4	6/27/81	Columbia	2	7	29	3/13/89	Discovery	5	5
2	11/12/81	Columbia	2	2	30	5/4/89	Atlantis	5	4
3	3/22/82	Columbia	2	8	28	8/8/89	Columbia	5	5
5	11/11/82	Columbia	4	5	34	10/18/89	Atlantis	5	5
6	4/4/83	Challenger	4	5	33	11/22/89	Discovery	5	5
7	6/18/83	Challenger	5	6	32	1/9/90	Columbia	5	10
8	8/30/83	Challenger	5	6	36	2/28/90	Atlantis	5	5
9	11/28/83	Columbia	6	10	31	4/24/90	Discovery	5	6
10	2/3/84	Challenger	5	8	41	10/6/90	Discovery	5	4
11	4/6/84	Challenger	5	7	38	11/15/90	Atlantis	5	4
12	8/30/84	Discovery	6	6	35	12/2/90	Columbia	7	9
13	10/5/84	Challenger	7	8	39	4/28/91	Discovery	7	8
14	11/8/84	Discovery	5	8	37	4/5/91	Atlantis	5	6
15	1/24/85	Discovery	5	3	40	6/5/91	Columbia	7	9
16	4/12/85	Discovery	7	7	43	8/2/91	Atlantis	5	9
17	4/29/85	Challenger	7	7	44	11/24/91	Atlantis	6	7
18	6/17/85	Discovery	7	7	42	1/22/92	Discovery	7	8
19	7/29/85	Challenger	7	8	45	3/24/92	Atlantis	7	8
20	8/27/85	Discovery	5	7	49	5/7/92	Endeavour	7	8
21	10/3/85	Atlantis	5	4	50	6/25/92	Columbia	7	13
22	10/30/85	Challenger	8	7	46	7/31/92	Atlantis	7	7
23	11/26/85	Atlantis	7	7	47	9/12/92	Endeavour	7	7
24	1/12/86	Columbia	7	6	52	10/22/92	Columbia	6	9
25	1/28/86	Challenger	7	-	53	12/2/92	Discovery	5	7
26	9/29/88	Discovery	5	4					

- Represents zero.

Source: U.S. National Aeronautics and Space Administration, *Payload Flight Assignments NASA Mixed Fleets*, January 1992, and "Upcoming Shuttle Flights," January 1992.

No. 1001. World-Wide Successful Space Launches: 1957 to 1991

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

COUNTRY	Total	1957-1964	1965-1969	1970-1974	1975-1979	1980-1984	1985-1989	1985	1986	1987	1988	1989	1990	1991
Total	**3,396**	**289**	**586**	**555**	**607**	**605**	**550**	**120**	**103**	**110**	**116**	**101**	**116**	**88**
Soviet Union/CIS [1]	2,314	82	302	405	461	483	447	97	91	95	90	74	75	59
United States	950	207	279	139	126	93	61	17	6	8	12	18	27	18
Japan	43	-	-	5	10	12	11	2	2	3	2	2	3	2
ESA [2]	43	-	-	-	1	8	21	3	2	2	7	7	5	8
China: Mainland	29	-	-	2	6	6	9	1	2	2	4	-	5	1
France	10	-	4	3	3	-	-	-	-	-	-	-	-	-
India	3	-	-	-	-	3	-	-	-	-	-	-	-	-
Israel	2	-	-	-	-	-	1	-	-	-	1	-	1	-
Australia	1	-	1	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	1	-	-	1	-	-	-	-	-	-	-	-	-	-

- Represents zero. [1] Commonwealth of Independent States. [2] European Space Agency.

Source: Library of Congress, Congressional Research Service, Science Policy Research Division, *Space Activities of the United States and Other Launching Countries/Organizations 1957-1991*, May 11, 1992.

Transportation—Land

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

In Brief

Transportation outlays reached $959 billion in 1991

State gasoline tax rates for 1991—
Lowest rate, 7.5 percent in Georgia
Highest rate, 28 percent in Connecticut

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

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

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

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

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

more populous unincorporated areas and rural to non-municipal roads.

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

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

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

Motor carriers.—For 1960-73, class I for-hire motor carriers of freight were classified by the ICC as those with $1 million or more of gross annual operating revenue; 1974-79, the class I minimum was $3 million. Effective January 1, 1980, class I carriers are those with $5 million or more in revenue. For 1960-68, class I motor carriers of passengers were classified by the ICC as those with $200,000 or more of gross annual operating revenue; for 1969-76, as those with revenues of $1 million or more; and since 1977, as those with $3 million or more. Effective January 1, 1988, class I motor carriers of passengers are those with $5 million or more in operating revenues; class II less than $5 million in operating revenues.

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

For years prior to 1978, class I railroads were those with annual revenues of $1 million or more for 1950-55; $3 million or more for 1956-64; $5 million or more for 1965-75; and $10 million or more for 1976-77. In 1978, the classification became class I, those having more than $50 million gross annual operating revenue; class II, from $10 million to $50 million; and class III, less than $10 million. Effective January 1, 1982, the ICC adopted a procedure to adjust the threshold for inflation by restating current revenues in constant 1978 dollars. In 1990, the criteria for class I and class II railroads were $94.4 million and $18.9 million, respectively. Also effective January 1, 1982, the ICC adopted a *Carrier Classification Index Survey Form* for carriers not filing annual report form R-1 with the commission. Class II and class III railroads are currently exempted from filing any financial report with the Commission. The form is used for reclassifying carriers.

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

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

No. 1002. Passenger and Freight Transportation Outlays, by Type of Transport: 1970 to 1991

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

TYPE OF TRANSPORT	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total outlays [1]	**297.8**	**453.2**	**492.4**	**542.9**	**592.5**	**591.4**	**643.2**	**715.6**	**753.1**	**760.9**	**807.5**	**868.9**	**915.6**	**965.2**	**958.7**
Passenger, total	187.4	287.5	307.6	338.1	374.0	379.2	410.8	459.5	492.2	492.5	528.1	571.8	603.7	630.3	615.1
Private transportation	161.3	249.9	263.9	284.8	316.7	320.7	347.6	387.3	418.2	415.3	444.5	480.9	507.8	527.7	510.9
Automobiles [2]	156.6	244.1	256.8	276.7	307.3	312.6	340.1	379.0	410.3	407.1	436.0	471.5	498.1	517.3	500.4
New and used cars	46.0	80.4	77.1	73.3	82.6	85.7	105.1	126.1	139.3	156.6	150.6	163.8	163.5	165.9	151.8
Tires, tubes, accessories	12.4	17.2	19.8	22.2	24.6	24.9	25.6	27.4	29.6	29.4	20.9	23.0	23.8	25.0	25.6
Gasoline and oil	53.9	68.3	78.3	99.7	111.3	104.8	106.1	105.9	106.6	81.7	94.1	96.6	106.9	120.6	117.2
Insurance less claims	4.5	10.2	10.3	11.5	10.8	11.2	12.1	11.8	11.6	14.0	17.2	18.7	18.7	20.1	24.2
Interest on debt	7.3	13.0	15.4	17.5	20.8	21.8	19.6	25.1	26.7	26.5	29.0	34.0	36.7	35.5	32.4
Registration and operator's permit fees	2.3	3.0	3.1	3.2	3.5	3.8	4.1	4.5	5.3	5.6	5.9	6.2	6.6	6.7	6.8
Repair, greasing, washing, parking, tolls [3]	22.1	33.0	36.7	39.1	42.3	44.8	46.6	51.9	59.8	59.7	75.2	83.7	90.2	93.9	95.2
Air	4.7	5.8	7.1	8.1	9.4	8.2	7.4	8.2	7.9	8.2	8.5	9.5	9.5	10.4	10.5
For-hire transportation	26.2	37.6	43.3	53.4	57.3	58.5	63.2	72.2	73.9	77.3	83.6	90.9	96.2	102.6	104.2
Local [4]	10.5	14.2	15.4	19.8	21.8	22.8	23.9	27.0	27.3	30.2	30.8	32.1	33.2	34.4	35.8
Bus and transit [5]	4.7	6.7	7.5	9.3	10.3	10.6	11.6	13.2	13.5	14.5	15.1	15.7	15.9	16.7	17.5
School bus	2.2	2.7	3.2	3.8	4.7	5.0	5.2	5.8	5.9	6.4	6.8	7.1	7.3	7.5	7.7
Taxi	3.4	4.4	4.5	5.2	5.2	5.6	5.3	5.5	5.6	6.0	6.4	6.9	7.1	7.5	7.9
Intercity	12.9	19.6	23.3	28.3	30.2	30.3	33.2	38.5	39.5	39.8	43.7	47.5	50.8	53.3	52.8
Air	11.2	17.1	20.4	25.1	26.8	26.8	29.7	33.6	35.9	36.4	40.3	43.8	46.9	49.5	48.9
Rail [6]	0.6	1.3	1.4	1.5	1.6	1.6	1.6	1.8	1.8	1.5	1.6	1.6	1.7	1.7	1.8
Bus	1.0	1.2	1.4	1.7	1.8	1.9	2.0	2.0	2.0	1.9	1.8	2.0	2.2	2.0	2.1
International	2.7	3.8	4.6	5.3	5.3	5.4	6.1	6.7	7.1	7.2	9.1	11.3	12.2	14.9	15.6
Freight, total [4]	115.5	172.9	192.9	213.7	228.4	222.1	243.3	268.0	273.6	281.0	294.2	313.0	329.1	351.8	351.4
Highway	84.8	127.2	142.7	155.3	165.2	162.7	182.0	199.6	205.6	213.2	224.6	239.1	253.9	270.8	278.0
Truck, intercity	47.4	77.9	90.2	94.6	97.1	99.9	111.1	120.7	123.2	158.2	134.8	142.7	151.3	162.3	167.4
Truck, local	37.3	49.1	52.3	60.5	67.8	62.5	70.7	78.7	82.2	84.8	89.6	96.2	102.5	108.4	110.5
Rail	16.5	21.9	24.8	27.9	30.5	27.1	27.3	30.5	29.2	27.9	28.5	29.9	29.9	30.4	29.9
Water	7.9	12.9	13.4	15.5	16.7	15.6	16.0	18.0	18.4	18.8	18.7	20.1	19.8	20.8	20.6
Oil pipeline	2.2	5.5	6.2	7.5	8.0	8.5	8.9	9.3	8.9	8.7	8.5	8.2	7.8	8.4	8.1
Air carrier	1.8	2.7	2.8	4.0	4.3	4.4	5.0	6.0	6.8	7.6	8.9	10.4	11.9	13.7	14.9
Percent change, total	5.4	13.1	6.6	10.3	9.1	-0.2	8.8	11.3	5.2	1.0	6.1	7.6	5.4	5.4	-0.7
Passenger, total	9.4	12.1	7.0	9.9	10.6	1.4	8.3	11.9	7.1	0.1	7.2	8.3	5.6	4.4	-2.4
Private transportation	9.2	12.1	5.6	7.9	11.2	1.3	8.4	11.4	8.0	-0.7	7.0	8.2	5.6	4.0	-3.2
Automobiles [2]	9.3	12.2	5.2	7.7	11.1	1.7	8.8	11.4	8.3	-0.8	7.1	8.1	5.6	3.9	-3.3
Air	6.8	7.4	22.4	14.1	16.0	-12.8	-9.8	10.8	-3.7	3.8	3.7	11.8	0.0	9.5	1.0
For-hire transportation	11.0	12.6	15.2	23.3	7.3	2.1	8.0	14.2	2.4	4.6	8.2	8.7	5.8	6.7	1.6
Freight	-0.4	14.7	11.6	10.8	6.9	-2.8	9.5	10.2	2.1	2.7	4.7	6.4	5.1	6.9	-0.1

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

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

No. 1003. Employment and Earnings in Transportation, by Industry: 1980 to 1992

[Annual averages of monthly figures. Based on Current Employment Statistics program; see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series Q36-42]

SIC [1] code	INDUSTRY	1980	1985	1986	1987	1988	1989	1990	1991	1992
(X)	NUMBER (1,000)									
(X)	**Total transportation**	**2,960**	**3,001**	**3,056**	**3,163**	**3,312**	**3,428**	**3,537**	**3,512**	**3,520**
40	Railroads	532	359	332	309	298	293	279	263	259
4011	Class I railroads	482	323	294	271	259	252	241	231	222
41	Local and interurban passengers	265	278	287	296	312	329	341	354	358
42	Trucking and warehousing	1,280	1,363	1,396	1,468	1,552	1,600	1,629	1,610	1,618
44	Water transportation	211	185	175	173	172	173	178	188	186
45	Air transportation	453	522	567	603	646	684	746	733	732
46	Pipelines, exc. natural gas	21	19	18	19	19	19	19	19	19
47	Transportation services	198	276	282	296	313	331	347	345	348
(X)	AVERAGE WEEKLY EARNINGS (dol.)									
4011	Class I railroads	427	595	608	627	674	693	727	707	736
41	Local and interurban passengers	217	261	274	281	293	305	310	323	335
42	Trucking and warehousing	358	405	408	414	419	437	451	455	469
46	Pipelines, exc. natural gas	441	629	637	644	662	671	711	733	772

X Not applicable. [1] 1987 Standard Industrial Classification, see text, section 13.

Source: U.S. Bureau of Labor Statistics, Bulletin 2370 and, Supplement to Employment and Earnings, July 1991, *Employment and Earnings*, monthly.

No. 1004. Volume of Domestic Intercity Freight and Passenger Traffic, by Type of Transport: 1970 to 1991

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

TYPE OF TRANSPORT	TRAFFIC VOLUME						PERCENT DISTRIBUTION					
	1970	1975	1980	1985	1990	1991	1970	1975	1980	1985	1990	1991
Freight traffic, total	**1,936**	**2,066**	**2,487**	**2,458**	**2,864**	**2,886**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Railroads	771	759	932	895	1,071	1,078	39.8	36.7	37.5	36.4	37.4	37.4
Truck:												
ICC truck	167	200	242	250	311	320	8.6	9.7	9.7	10.2	10.9	11.1
Non-ICC truck	245	254	313	360	424	438	12.7	12.3	12.6	14.6	14.8	15.2
Water:												
Rivers/canals	205	243	311	306	377	380	10.6	11.8	12.5	12.4	13.2	13.2
Great Lakes	114	99	96	76	87	82	5.9	4.8	3.9	3.1	3.0	2.8
Oil pipelines	431	507	588	564	584	578	22.3	24.5	23.6	23.0	20.4	20.0
Domestic airways [1]	3	4	5	7	10	10	0.2	0.2	0.2	0.3	0.3	0.3
Passenger traffic, total	**1,181**	**1,354**	**1,467**	**1,635**	**1,993**	**2,012**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Private automobiles	1,026	1,171	1,210	1,310	1,598	1,623	86.9	86.5	82.5	80.1	80.2	80.7
Domestic airways [2]	119	148	219	290	359	351	10.1	10.9	14.9	17.7	18.0	17.4
Bus [3]	25	25	27	24	23	24	2.1	1.9	1.8	1.5	1.1	1.2
Railroads [4]	11	10	11	11	13	14	0.9	0.7	0.8	0.7	0.7	0.7

[1] Revenue service only for scheduled and non-scheduled carriers, with small section 418 all-cargo carriers included from 1980. Includes express, mail, and excess baggage. [2] Includes general aviation (mostly private business) flying. [3] Excludes school and urban transit buses. [4] Includes intercity (Amtrak) and rail commuter service.

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

No. 1005. Passenger Transportation Arrangement: 1989 to 1991

[**In millions of dollars.** Represents SIC 4722]

SOURCE OF RECEIPTS	1989	1990	1991	OPERATING EXPENSES	1989	1990	1991
Receipts, total [1]	**8,688**	**9,036**	**8,547**	**Expenses, total** [1]	**7,808**	**8,262**	**8,039**
Air carriers	4,958	5,106	4,909	Payroll, annual	3,352	3,696	3,580
Water carriers	326	362	384	Employer contributions [2]	445	487	489
Hotels and motels	608	627	577	Lease and rental payments	675	676	666
Motor coaches	266	279	288	Advertising and promotion	471	516	467
Railroads	80	79	83	Taxes and licenses	127	125	107
Rental cars	142	151	152	Utilities	251	268	267
Package tours	1,752	1,872	1,623	Depreciation	294	293	282
Other	556	560	531	Office Supplies	266	254	236
				Repair Services	91	99	93

[1] Receipts for firms primarily engaged in arranging passenger transportation. These estimates exclude receipts of transportation companies (airlines, railroads, etc.). [2] Includes contributions to Social Security and other supplemental benefits.

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

No. 1006. Transportation Accidents, Deaths, and Injuries: 1970 to 1991

[For related data, see also table 1027, and 1050]

YEAR AND CASUALTY	Total (1,000)	TYPE OF TRANSPORT											
		Motor vehicle [1] (1,000)	Railroad [2]	Air carriers				General aviation [6]	Recreational boating [7]	Gas pipelines [8]	Liquid pipelines [9]	Waterborne [10]	Hazardous materials [11]
				Total	Airlines [3]	Commuter air carriers [4]	On demand air carriers [5]						
Accidents:													
1970	16,013	16,000	8,095	(NA)	55	(NA)	(NA)	4,712	3,803	1,019	351	2,582	(NA)
1975	16,524	16,500	8,041	237	37	48	152	3,995	6,308	1,373	254	3,310	10,951
1980	17,925	17,900	8,451	226	19	38	171	3,590	5,513	1,996	219	4,624	15,737
1985	19,348	19,300	3,275	195	22	21	152	2,737	6,237	331	183	3,439	6,014
1990	11,524	11,500	2,879	149	27	15	107	2,187	6,411	199	177	3,235	8,830
1991	11,321	11,300	2,659	133	27	22	84	2,143	6,573	233	210	(NA)	9,022
Deaths:													
1970	54.8	52.6	785	(NA)	146	(NA)	(NA)	1,310	1,418	22	4	178	(NA)
1975	48.2	44.5	575	221	124	28	69	1,252	1,466	14	7	243	27
1980	54.5	51.1	584	143	1	37	105	1,239	1,360	11	3	206	19
1985	47.3	43.8	454	639	526	37	76	951	1,116	26	5	131	8
1990	46.9	44.5	599	93	39	4	50	745	865	5	3	54	8
1991	43.9	41.2	583	196	50	77	69	746	924	14	-	(NA)	10
Injuries:													
1970	2,024	2,000	21,327	(NA)	(NA)	(NA)	(NA)	(NA)	780	347	21	105	(NA)
1975	1,858	1,800	54,306	109	71	6	32	726	2,136	819	17	97	648
1980	2,066	2,000	62,246	74	17	14	43	675	2,650	310	12	176	626
1985	1,705	1,700	31,592	89	30	16	43	517	2,757	106	18	187	253
1990	1,728	1,700	22,736	83	40	11	32	424	3,822	67	7	25	418
1991	1,626	1,600	21,370	(NA)	(NA)	(NA)	(NA)	(NA)	3,967	89	8	(NA)	436

- Represents or rounds to zero. NA Not available. [1] Data on deaths are from U.S. National Highway Traffic Safety Administration and are based on 30 day definition; see table 1027. Other data are from National Safety Council. [2] Accidents which result in damages to railroad property. Grade crossing accidents are also included when classified as a train accident. Deaths exclude fatalities in railroad-highway grade crossing accidents. [3] Includes scheduled and nonscheduled (charter) air carriers. Represents serious injuries. [4] All scheduled service. Represents serious injuries. [5] All nonscheduled service. Represents serious injuries. [6] 1975 excludes commuter and on-demand air taxis. [7] Accidents resulting in death; injury or requiring medical treatment beyond first aid; damages exceeding $200; or a person's disappearance. [8] Pipeline accidents/incidents are credited to year of occurrence. Beginning 1985; prior data are credited to the year filed. Fatalities and injuries as reported in annual report. [9] Pipelines carrying hazardous materials, petroleum, and liquid petroleum products. [10] Covers accidents involving commercial vessels which must be reported to U.S. Coast Guard if there is property damage exceeding $1,500; material damage affecting the seaworthiness or efficiency of a vessel; stranding or grounding; loss of life; or injury causing a person's incapacity for more than 3 days. [11] Accidents, deaths, and injuries involving hazardous materials cover all types of transport.

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

No. 1007. Federal Outlays for Transportation, by Function: 1970 to 1993

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

FUNCTION	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991	1992	1993, est.
Total outlays	**7,008**	**10,918**	**21,329**	**25,838**	**28,117**	**26,222**	**27,272**	**27,608**	**29,485**	**31,099**	**33,337**	**36,380**
Ground transportation	4,678	7,027	15,274	17,606	18,725	17,150	18,148	17,946	18,954	19,545	20,347	22,302
Air transportation	1,408	2,387	3,723	4,895	5,287	5,520	5,897	6,622	7,234	8,184	9,313	10,050
Water transportation	895	1,430	2,229	3,201	3,964	3,461	3,111	2,916	3,151	3,148	3,434	3,733
Other transportation	26	74	104	137	140	91	116	124	146	223	244	296

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

No. 1008. Expedited Domestic Package Express Volume and Growth: 1977 and 1988

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

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

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

No. 1009. Highway Mileage—Urban and Rural, by Type and Control, and Federal-Aid Highway System: 1970 to 1991

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

TYPE AND CONTROL	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991
Total mileage [1]	**3,730**	**3,838**	**[2]3,955**	**3,892**	**3,862**	**3,880**	**3,874**	**3,871**	**3,877**	**3,380**	**3,889**
Urban mileage [3]	561	639	624	674	691	701	710	739	754	757	750
Under State control	74	84	79	103	111	94	95	96	97	96	96
Under local control	487	555	543	571	578	606	614	642	656	661	653
Rural mileage	3,169	3,199	[2]3,331	3,218	3,171	3,178	3,164	3,132	3,123	3,123	3,139
Percent surfaced [4]	76.1	77.6	77.5	87.5	88.1	88.4	88.4	88.1	88.4	88.6	89.7
Under State control	707	711	702	818	773	704	704	704	706	703	703
Under local control	2,275	2,261	2,270	2,134	2,173	2,243	2,249	2,244	2,238	2,242	2,255
Under Federal control	188	227	262	266	225	231	212	183	178	178	182
Fed.-aid highway system: [5]											
Primary (urban and rural)	272	266	300	300	301	303	302	304	304	305	305
Interstate	32	37	41	43	44	44	44	45	45	45	45
Urban	(X)	65	124	140	144	146	148	147	148	148	148
Secondary	647	643	398	398	398	398	398	400	400	400	400

X Not applicable. [1] Prior to 1980, includes public and nonpublic road mileage; beginning 1984, includes only public road mileage as defined 23 USC 402. [2] Includes 98,000 miles of nonpublic road mileage previously contained in other rural categories. [3] Prior to 1980, represents municipal mileage; see text, section 21. [4] Covers soil-surfaced roads and roads with slag, gravel, stone, bituminous, or concrete surfaces. [5] For definition, see text, section 21. Beginning 1980, data represent actual mileage open to traffic rather than total highway miles carrying interstate traffic.

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

No. 1010. Highway Mileage—Urban, Rural, and Federal-Aid Highway System: 1991

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

STATE	Urban	Rural	FEDERAL-AID HIGHWAY SYSTEM [1]			
			Total		Urban	Secondary
			Primary	Interstate [2]		
U.S.	749,864	3,139,435	305,226	45,280	148,291	400,309
AL	16,865	73,838	7,650	899	2,601	11,648
AK	1,561	11,963	2,101	1,089	237	1,802
AZ	14,170	41,153	4,682	1,169	2,465	3,238
AR	7,683	69,488	5,777	542	1,157	7,389
CA	74,847	91,034	13,478	2,399	17,866	11,192
CO	11,341	66,539	5,400	943	2,230	3,427
CT	10,964	9,160	1,635	341	2,956	879
DE	1,643	3,869	483	41	319	604
DC	1,102	-	190	12	233	-
FL	47,747	61,627	9,486	1,444	4,765	4,359
GA	22,057	88,425	11,432	1,245	3,990	14,012
HI	1,507	2,595	554	43	322	435
ID	2,738	59,471	3,362	607	749	4,182
IL	32,131	104,040	11,860	1,962	6,670	12,942
IN	17,922	74,107	6,145	1,137	4,729	9,759
IA	8,805	103,749	9,547	782	2,451	13,576
KS	9,107	124,360	8,915	872	1,656	22,643
KY	7,697	62,029	4,602	763	2,020	7,226
LA	12,272	46,264	3,984	844	2,161	7,329
ME	2,501	19,943	2,377	366	706	2,742
MD	12,409	16,575	2,603	481	2,163	1,922
MA	21,017	13,306	2,777	567	5,905	2,007
MI	26,765	90,780	8,470	1,238	4,915	17,080
MN	14,797	114,641	10,206	911	2,395	16,650
MS	7,360	65,170	6,456	684	1,720	11,699
MO	15,033	106,022	8,187	1,177	2,476	18,069
MT	2,275	68,492	6,645	1,191	343	4,737
NE	4,961	87,707	7,679	481	1,062	11,456
NV	3,156	42,422	2,406	545	557	2,314
NH	2,433	12,435	1,352	224	723	1,235
NJ	22,501	11,767	1,869	406	5,379	1,703
NM	5,669	50,407	4,889	999	610	3,645
NY	38,061	73,381	9,977	1,498	8,730	6,296
NC	19,572	75,572	5,324	954	3,129	10,329
ND	1,811	84,814	6,145	570	501	10,596
OH	31,387	82,178	8,139	1,573	7,851	11,790
OK	12,417	99,844	6,238	930	2,997	11,775
OR	9,358	86,944	5,770	727	2,054	7,781
PA	28,398	88,290	11,537	1,588	7,048	7,992
RI	4,597	1,523	504	70	933	201
SC	9,358	54,724	6,492	798	1,169	8,536
SD	1,751	81,486	6,472	678	393	11,091
TN	15,476	69,376	7,258	1,062	3,178	5,450
TX	76,215	217,294	20,032	3,229	8,287	32,705
UT	5,632	37,523	3,554	938	930	2,724
VT	1,196	12,940	1,444	320	349	1,913
VA	15,409	52,634	6,489	1,076	3,450	10,200
WA	16,569	63,313	5,786	762	4,235	7,376
WV	3,089	31,684	2,965	550	809	6,353
WI	14,552	95,820	9,999	640	2,955	13,036
WY	1,980	36,717	3,902	913	562	2,264

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

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

No. 1011. Highway Pavement Condition, by Type of Road System: 1980 to 1991

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

PAVEMENT CONDITION	INTERSTATE ROAD				ARTERIAL ROAD				COLLECTOR ROAD			
	1980	1985	1990	1991	1980	1985	1990	1991	1980	1985	1990	1991
URBAN AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) [1]	6	7	6	5	7	5	4	4	9	7	13	9
PSR 2.0-3.4 (2.5-3.4) [1]	26	38	35	35	42	53	52	53	50	58	55	54
PSR 3.5-5.0	68	55	59	60	51	42	44	43	41	35	32	37
RURAL AREAS												
Percent of road mileage rated—												
PSR 0.1-1.9 (0.1-2.4) [1]	5	7	6	6	6	4	2	2	16	10	8	7
PSR 2.0-3.4 (2.5-3.4) [1]	26	33	35	34	46	51	48	48	55	59	54	55
PSR 3.5-5.0	69	60	59	60	48	45	50	50	29	31	38	38

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

No. 1012. Receipts and Disbursements for Highways, by Type: 1970 to 1992

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

TYPE	1970	1980	1985	1989	1990	1991, prel.	1992, proj.		
							Total [1]	Federal	State
Total receipts	21,747	39,715	61,506	72,721	73,846	78,203	79,996	17,813	41,395
Current income	19,861	37,604	54,957	67,589	68,474	72,660	74,265	17,813	37,919
Imposts on highway users [2]	15,311	22,559	35,599	44,009	44,099	47,910	49,042	15,789	31,863
Other taxes and fees	3,732	11,808	15,127	17,987	18,438	18,503	18,641	1,174	2,954
Investment income, other receipts	818	3,237	4,231	5,573	5,937	6,247	6,582	850	3,102
Bond issue proceeds [3]	1,886	2,111	6,549	5,152	5,372	5,543	5,731	-	3,476
Intergovernmental payments	(X)	(X)	(X)	(X)	(X)	(X)	(X)	−15,501	7,017
Funds from (+) or to (-) reserves [4]	−912	2,080	−4058	−1858	966	−1,163	−826	−1,545	118
Total funds available	20,835	41,795	57,448	70,863	74,812	77,040	79,170	767	48,530
Total disbursements	20,835	41,795	57,448	70,863	74,812	77,040	79,170	767	48,530
Current disbursements	19,583	40,084	54,725	67,251	71,500	73,625	75,684	767	46,839
Capital outlay	11,575	20,337	27,138	33,144	35,408	36,242	37,327	297	27,477
Maintenance and traffic services	4,720	11,445	16,032	18,952	19,742	20,469	20,799	116	9,056
Administration and research	1,275	3,022	4,033	5,683	6,355	6,716	7,118	354	4,459
Law enforcement and safety	1,303	3,824	5,334	6,647	6,922	7,114	7,256	-	3,665
Interest on debt	710	1,456	2,188	2,825	3,073	3,084	3,184	-	1,982
Debt retirement [3]	1,252	1,711	2,723	3,612	3,312	3,415	3,486	-	1,691

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

Source of tables 1011 and 1012: U.S. Federal Highway Administration, *Highway Statistics*, annual; and releases.

No. 1013. Disbursements of State Highway Funds, by State: 1980 to 1991

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

STATE	1980	1990	1991	STATE	1980	1990	1991	STATE	1980	1990	1991
U.S	30,049	53,580	58,038	KY	913	1,008	1,052	OH	1,032	2,271	2,686
AL	517	866	781	LA	682	923	1,007	OK	461	827	852
AK	274	336	396	ME	164	332	348	OR	482	765	828
AZ	365	1,525	1,309	MD	663	1,464	1,241	PA	1,557	2,685	2,823
AR	425	456	499	MA	704	1,055	1,182	RI	72	214	236
CA	1,930	4,294	4,793	MI	997	1,526	1,561	SC	309	585	579
CO	411	714	755	MN	611	1,228	1,144	SD	151	232	201
CT	393	1,204	1,251	MS	468	529	617	TN	609	1,174	1,109
DE	152	315	364	MO	555	937	989	TX	1,882	3,001	3,039
DC	57	273	296	MT	224	302	293	UT	241	355	342
FL	1,261	1,677	2,125	NE	274	449	470	VT	87	165	182
GA	762	1,278	1,262	NV	169	309	245	VA	894	1,874	1,737
HI	134	297	369	NH	152	299	384	WA	787	1,251	1,524
ID	153	300	280	NJ	662	1,831	4,346	WV	672	850	714
IL	1,652	2,645	2,780	NM	197	409	399	WI	468	979	1,060
IN	688	1,218	1,269	NY	1,650	2,874	2,595	WY	192	297	328
IA	504	869	1,002	NC	807	1,428	1,471				
KS	440	697	693	ND	143	189	232				

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

No. 1014. Federal Grants to State and Local Governments for Highway Trust Fund and Federal Transit Administration (FTA), by State: 1991

[Year ending Sept. 30]

STATE	HIGHWAY TRUST FUND		FTA [2]		STATE	HIGHWAY TRUST FUND		FTA [2]		STATE	HIGHWAY TRUST FUND		FTA [2]	
	Total (mil. dol.)	Per capita [1]	Total (mil. dol.)	Per capita [1]		Total (mil. dol.)	Per capita [1]	Total (mil. dol.)	Per capita [1]		Total (mil. dol.)	Per capita [1]	Total (mil. dol.)	Per capita [1]
U.S.	**14,843**	**58.2**	**3,506**	**13.8**	KS	136	54.0	7	2.8	ND	112	176.7	2	2.8
					KY	176	46.8	16	4.3	OH	486	44.1	86	7.8
AL	221	53.3	15	3.7	LA	304	70.8	37	8.7	OK	186	58.0	13	4.0
AK	211	360.2	2	3.2	ME	79	64.2	4	3.4	OR	210	70.4	30	10.1
AZ	189	49.4	7	2.0	MD	263	53.5	83	17.0	PA	623	51.8	250	20.8
AR	185	77.0	9	3.6	MA	575	95.9	136	22.8	RI	117	116.8	16	16.4
CA	1,688	54.7	417	13.5	MI	394	41.7	58	6.1	SC	192	53.2	8	2.2
CO	247	71.2	40	11.4	MN	267	59.7	18	4.1	SD	100	140.8	2	2.8
CT	351	107.0	80	24.5	MS	179	68.3	6	2.3	TN	308	61.2	43	8.5
DE	60	86.7	2	3.5	MO	319	61.4	179	34.5	TX	885	50.2	106	6.0
DC	114	194.2	237	402.5	MT	157	190.1	6	7.8	UT	108	59.6	21	11.5
FL	508	37.7	143	10.6	NE	109	68.2	6	3.8	VT	68	119.7	2	3.2
GA	332	49.1	77	11.3	NV	80	60.1	4	2.7	VA	277	43.4	20	3.2
HI	198	171.0	20	17.4	NH	58	52.1	3	2.6	WA	401	78.1	31	6.1
ID	110	103.0	2	2.3	NJ	402	51.6	184	23.6	WV	143	79.1	7	3.7
IL	540	46.4	374	32.1	NM	159	100.5	4	2.7	WI	280	55.9	35	6.9
IN	396	70.0	30	5.3	NY	692	38.2	579	31.9	WY	103	221.8	1	3.1
IA	238	84.6	9	3.3	NC	309	45.2	30	4.4					

[1] Based on Bureau of the Census resident population as of July 1, 1992. [2] Federal Transit Administration.

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year*, annual.

No. 1015. State Gasoline Tax Rates, 1990 and 1992, and Motor Fuel Tax Receipts, 1991

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

STATE	RATE [1] (cents/gal.)		Receipts, [2] 1991 (mil. dol.)	STATE	RATE [1] (cents/gal.)		Receipts, [2] 1991 (mil. dol.)	STATE	RATE [1] (cents/gal.)		Receipts, [2] 1991 (mil. dol.)
	1990	1992			1990	1992			1990	1992	
Federal	14.1	14.1	(NA)	KS	16.0	18.0	251	ND	17.0	17.0	68
State	**(NA)**	**(NA)**	**(NA)**	KY [3]	15.4	15.4	349	OH	20.0	21.0	1,102
AL	13.0	18.0	343	LA	20.0	20.0	437	OK [4]	17.0	17.0	317
AK	8.0	8.0	19	ME	17.0	19.0	131	OR	18.0	24.0	277
AZ	18.0	18.0	365	MD	18.5	23.5	436	PA	17.8	22.4	1,064
AR	13.7	18.7	220	MA	17.0	21.0	521	RI	20.0	26.0	98
CA	9.0	17.0	1,915	MI	15.0	15.0	675	SC	16.0	16.0	346
CO	20.0	22.0	354	MN	20.0	20.0	443	SD	18.0	18.0	80
CT	22.0	28.0	329	MS	18.2	18.2	278	TN [5]	20.0	20.0	586
DE	16.0	19.0	71	MO	11.0	13.0	351	TX	15.0	20.0	1,515
DC	18.0	20.0	30	MT	20.0	21.4	105	UT	19.0	19.0	166
FL	10.9	11.8	984	NE	21.7	24.6	218	VT	16.0	16.0	63
GA	7.5	7.5	326	NV	18.0	24.0	155	VA [3]	17.7	17.5	630
HI	11.0	16.0	52	NH	16.6	18.6	94	WA	22.0	23.0	595
ID	18.0	21.0	117	NJ	10.5	10.5	423	WV	20.4	20.4	212
IL	19.0	19.0	1,012	NM	17.0	17.0	160	WI	21.5	22.2	548
IN	15.0	15.0	580	NY	14.4	22.9	504	WY	9.0	9.0	43
IA	20.0	20.0	319	NC	21.5	22.3	838				

NA Not available. [1] In effect Dec. 31. [2] Represents net gallonage receipts. [3] Trucks or combinations with more than 2 axles pay tax of 2 cents per gallon more in Kentucky, and 3.5 cents per gallon more in Virginia. [4] .08 cents per gallon is for inspection fee. [5] Includes 1 cent per gallon inspection fee.

No. 1016. Public Highway Debt—State and Local Governments: 1970 to 1992

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

ITEM	1970	1980	1984	1985	1986	1987	1988	1989	1990	1991	1992 [1]
Total debt issued [2]	1,886	2,094	3,151	6,074	6,296	3,802	4,261	5,268	5,493	6,367	5,731
State	1,305	1,128	1,715	3,404	3,946	1,927	2,384	3,096	3,233	3,871	3,476
County and township	174	276	524	1,387	1,200	451	567	650	669	755	620
Municipal	407	690	912	1,283	1,150	1,424	1,310	1,522	1,591	1,741	1,635
Total debt redeemed [3]	1,252	1,706	2,411	2,737	3,132	2,685	2,735	3,606	2,922	3,523	3,486
State	782	1,022	1,507	1,580	1,875	1,625	1,396	2,063	1,602	2,039	1,691
County and township	152	209	216	378	432	349	353	618	372	498	785
Municipal	318	475	688	779	825	711	986	925	948	986	1,010
Total debt outstanding	19,107	25,851	27,964	31,301	34,465	36,565	38,091	39,716	29,176	45,131	47,376

[1] Projection. [2] Excludes refunding issues. [3] Excludes redemptions by refunding.

Source of tables 1015 and 1016: U.S. Federal Highway Administration, *Highway Statistics*, annual.

No. 1017. Transportation to Work: 1990

[In thousands, except as indicated]

REGION, DIVISION, AND STATE	MEANS OF TRANSPORTATION TO WORK			Worked at home	Average travel time to work (minutes)	VEHICLES AVAILABLE		
	Car, truck, van		Percent using public transportation			None	One vehicle	Two or more vehicles
	Drove alone	Car-pooled						
United States	**84,215**	**15,378**	**5.4**	**3,406**	**22.4**	**10,602**	**31,039**	**50,306**
Northeast	15,902	2,771	13.1	630	24.5	3,603	6,408	8,862
New England	4,892	749	5.3	191	21.5	568	1,699	2,676
Maine	424	80	0.9	24	19.0	40	159	266
New Hampshire	443	70	0.7	20	21.9	26	132	254
Vermont	200	36	0.8	17	18.0	17	72	122
Massachusetts	2,148	318	8.5	75	22.7	321	819	1,107
Rhode Island	376	58	2.6	10	19.2	40	132	206
Connecticut	1,301	187	4.0	45	21.1	124	386	721
Middle Atlantic	11,010	2,023	16.1	438	25.7	3,035	4,709	6,186
New York	4,461	861	25.5	213	28.6	1,994	2,153	2,492
New Jersey	2,731	472	9.0	80	25.3	360	966	1,468
Pennsylvania	3,818	690	6.6	145	21.6	681	1,589	2,226
Midwest	21,091	3,207	3.7	987	20.7	2,238	7,365	12,714
East North Central	14,749	2,206	4.4	551	21.7	1,693	5,230	8,674
Ohio	3,889	521	2.6	119	20.7	416	1,351	2,320
Indiana	2,040	332	1.4	73	20.4	175	670	1,221
Illinois	3,742	653	10.3	144	25.1	588	1,476	2,138
Michigan	3,328	429	1.7	100	21.2	344	1,133	1,943
Wisconsin	1,751	270	2.6	114	18.3	170	600	1,052
West North Central	6,342	1,002	2.0	436	18.4	545	2,135	4,040
Minnesota	1,593	247	3.8	116	19.1	142	517	988
Iowa	971	157	1.3	89	16.2	75	332	657
Missouri	1,816	312	2.1	84	21.6	191	652	1,118
North Dakota	210	31	0.6	24	13.0	16	73	152
South Dakota	233	33	0.3	31	13.8	17	76	166
Nebraska	590	87	1.2	44	15.8	43	182	377
Kansas	929	136	0.7	49	17.2	60	302	583
South	29,495	5,886	2.7	936	22.0	3,208	10,987	17,627
South Atlantic	15,481	3,156	3.5	501	22.5	1,725	5,725	9,053
Delaware	258	43	2.5	8	20.0	20	80	147
Maryland	1,733	376	8.4	65	27.0	216	554	979
District of Columbia	107	37	37.7	9	27.1	93	103	53
Virginia	2,281	500	4.1	103	24.0	205	717	1,370
West Virginia	493	107	1.1	16	21.0	94	247	347
North Carolina	2,528	530	1.0	71	19.8	242	786	1,489
South Carolina	1,235	277	1.1	31	20.5	137	402	720
Georgia	2,379	468	2.9	65	22.7	244	730	1,393
Florida	4,468	819	2.1	132	21.8	474	2,106	2,555
East South Central	5,110	1,005	1.2	149	21.1	607	1,814	3,231
Kentucky	1,195	229	1.7	47	20.7	159	447	773
Tennessee	1,763	324	1.4	52	21.5	181	593	1,079
Alabama	1,374	267	0.8	31	21.2	156	466	885
Mississippi	777	184	0.8	19	20.6	111	307	494
West South Central	8,904	1,725	2.0	286	21.6	876	3,448	5,343
Arkansas	765	153	0.5	28	19.0	88	303	501
Louisiana	1,239	247	3.1	31	22.3	209	542	749
Oklahoma	1,079	191	0.6	41	19.3	91	414	701
Texas	5,821	1,134	2.3	185	22.2	489	2,190	3,392
West	17,727	3,513	4.3	854	22.7	1,553	6,279	11,103
Mountain	4,586	873	2.2	229	19.7	343	1,697	2,993
Montana	250	41	0.6	22	14.8	20	91	194
Idaho	330	53	2.0	21	17.3	17	101	243
Wyoming	154	28	1.5	9	15.4	8	48	113
Colorado	1,217	210	3.0	67	20.7	89	412	781
New Mexico	472	96	1.0	24	19.1	38	185	320
Arizona	1,178	239	2.1	48	21.6	107	532	730
Utah	541	111	2.4	26	18.9	29	153	355
Nevada	444	94	2.7	12	19.8	36	174	256
Pacific	13,141	2,640	5.0	625	23.8	1,210	4,582	8,111
Washington	1,701	282	4.7	86	22.0	141	582	1,149
Oregon	949	165	3.5	56	19.6	88	355	660
California	9,982	2,036	5.1	453	24.6	923	3,452	6,006
Alaska	165	40	2.6	11	16.7	23	64	102
Hawaii	344	116	7.6	19	23.8	35	129	193

Source: U.S. Bureau of the Census, *Census of Population and Housing, 1990.*

356-918 0 - 93 - 21 : QL 3

No. 1018. Motor Vehicle Registrations, 1980 to 1991, Vehicle Miles of Travel, 1991, and Drivers Licenses, 1991, by State

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

STATE	AUTOMOBILES, TRUCKS, AND BUSES [1]					1991				
	1980	1985	1990	1991		Motorcycle [1] registration (incl. official)	Public road and street mileage (1,000 mi.)	Vehicle miles of travel		Drivers licenses
				Total	Automobiles (incl. taxis)			Total (bil. mi.)	Per mile of road (1,000)	
U.S.	**155,796**	**171,654**	**188,798**	**188,372**	**142,956**	**4,177**	**3,889**	**2,172**	**559**	**168,995**
AL	2,938	3,338	3,744	3,699	2,712	41	91	42.9	472	2,938
AK	262	353	477	471	297	11	14	4.0	287	318
AZ	1,917	2,235	2,825	2,649	2,023	81	55	34.9	635	2,400
AR	1,574	1,384	1,448	1,480	958	14	77	21.9	285	1,720
CA	16,873	18,899	21,926	22,253	17,232	651	166	258.0	1,554	19,931
CO	2,342	2,759	3,155	3,045	2,220	89	78	27.7	356	2,084
CT	2,147	2,465	2,623	2,589	2,444	51	20	26.6	1,331	2,213
DE	397	465	526	534	411	9	6	6.7	1,120	495
DC	268	326	262	246	229	2	1	3.4	3,430	406
FL	7,614	9,865	10,950	9,980	7,910	196	109	113.5	1,041	9,693
GA	3,818	4,580	5,489	5,714	3,991	78	110	73.0	664	4,610
HI	570	651	771	785	680	21	4	8.1	2,036	700
ID	834	854	1,054	1,055	641	33	62	10.3	166	712
IL	7,477	7,727	7,873	8,193	6,628	184	136	85.4	628	7,360
IN	3,826	4,024	4,366	4,414	3,233	97	92	54.3	590	3,453
IA	2,329	2,696	2,632	2,668	1,907	165	113	23.0	204	1,857
KS	2,007	2,148	2,012	1,879	1,243	59	133	23.2	174	1,781
KY	2,593	2,615	2,909	2,963	1,942	34	70	35.2	503	2,414
LA	2,779	3,012	2,995	3,046	2,002	32	59	34.7	588	2,595
ME	724	840	977	979	755	37	22	11.8	539	889
MD	2,803	3,276	3,607	3,630	3,009	55	29	41.3	1,426	3,214
MA	3,749	3,738	3,726	3,664	3,160	54	34	46.5	1,369	4,206
MI	6,488	6,727	7,209	7,245	5,644	166	118	81.9	694	6,434
MN	3,091	3,385	3,508	3,273	2,564	112	129	39.3	304	2,546
MS	1,577	1,746	1,875	1,887	1,443	26	73	24.9	341	1,925
MO	3,271	3,558	3,905	3,950	2,788	61	121	51.0	421	3,732
MT	680	652	783	766	450	21	71	8.3	117	580
NE	1,254	1,257	1,384	1,404	929	21	93	14.1	152	1,069
NV	655	709	853	881	602	20	46	10.5	228	909
NH	704	974	946	906	709	37	15	9.9	662	848
NJ	4,761	4,909	5,652	5,519	5,058	86	34	59.3	1,744	5,660
NM	1,068	1,176	1,301	1,320	824	32	56	16.8	300	1,081
NY	8,002	9,042	10,196	9771	8,494	198	111	107.7	970	10,267
NC	4,532	4,450	5,162	5,216	3,713	58	95	64.9	683	4,547
ND	627	655	630	629	374	19	87	6.0	68	426
OH	7,771	8,102	8,410	8,685	7,057	236	114	93.0	816	7,470
OK	2,583	2,864	2,649	2,669	1,708	59	112	34.2	306	2,283
OR	2,081	2,204	2,445	2,507	1,884	62	96	25.8	268	2,374
PA	6,926	7,209	7,971	8,038	6,430	167	117	87.3	746	7,951
RI	623	610	672	628	520	23	6	7.2	1,192	676
SC	1,996	2,222	2,521	2,471	1,869	30	64	34.5	538	2,402
SD	601	650	704	702	420	24	83	6.7	81	501
TN	3,271	3,754	4,444	4,542	3,642	74	85	47.3	556	3,393
TX	10,475	12,444	12,800	12,697	8,666	185	294	158.8	540	11,293
UT	992	1,099	1,206	1,230	799	25	43	15.4	358	1,067
VT	347	398	462	447	328	19	14	5.9	419	412
VA	3,626	4,253	4,938	5,022	3,825	61	68	61.1	899	4,651
WA	3,225	3,526	4,257	4,404	3,091	116	80	46.4	581	3,491
WV	1,320	1,143	1,225	1,273	779	18	35	16.0	458	1,286
WI	2,941	3,187	3,815	3,685	2,475	210	110	45.5	413	3,394
WY	467	500	528	469	244	17	39	6.0	154	341

[1] Excludes vehicles owned by military services.

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

No. 1019. Motor Vehicle Production and Trade: 1980 to 1991

ITEM	Unit	1980	1985	1986	1987	1988	1989	1990	1991
Production:									
Passenger car production	1,000	6,376	8,185	7,829	7,100	7,137	6,825	6,078	5,440
Truck and bus production	1,000	1,634	3,468	3,506	3,826	4,101	4,051	3,706	3,372
Imports:									
Passenger cars (new) [1 2]	1,000	3,116	4,398	4,691	4,589	4,450	4,043	3,945	3,736
Canada	1,000	595	1,145	1,162	927	1,191	1,151	1,220	1,196
Germany, Federal Republic of	1,000	339	473	452	378	264	217	245	172
Japan	1,000	1,992	2,527	2,619	2,418	2,123	2,052	1,868	1,789
Trucks (new) [2]	1,000	747	1,253	1,351	1,177	938	953	766	716
Japan	1,000	483	800	976	772	542	420	302	283
All-terrain vehicles [3]	1,000	(NA)	683	498	320	210	121	100	(NA)
Motorcycles, total [3]	1,000	1,120	733	550	318	287	253	169	(NA)
Import value:									
Passenger cars (new) [1]	Mil. dol.	16,675	36,474	45,302	47,858	47,005	44,417	45,716	45,564
Trucks and buses, (new) [1]	Mil. dol.	1,985	7,734	8,504	8,729	8,089	8,591	8,155	8,221
Motorcycles [3 4]	Mil. dol.	1,142	783	763	463	512	542	361	(NA)
Exports:									
Passenger cars (new) [1]	1,000	617	704	673	633	781	778	794	755
Trucks (new) exports	1,000	186	183	205	222	230	189	151	200
Export value [1 5]	Mil. dol.	16,015	22,820	21,955	24,812	29,519	31,574	38,086	(NA)
Passenger cars (new) [5]	Mil. dol.	3,932	6,027	6,258	6,685	8,318	8,895	9,708	9,666
Trucks and buses (new) [5]	Mil. dol.	2,977	2,789	2,953	3,375	3,683	3,471	2,845	3,388
Parts and accessories [6]	Mil. dol.	9,106	14,004	12,744	14,742	17,518	19,208	24,996	(NA)
Factory sales:									
Passenger cars	1,000	6,400	8,002	7,516	7,085	7,105	6,807	6,050	5,407
Trucks and buses	1,000	1,667	3,357	3,393	3,821	4,121	4,062	3,719	3,375
Retail sales:									
Passenger cars (new) [1]	1,000	8,979	11,042	11,460	10,277	10,530	9,772	9,300	8,175
Domestics [7]	1,000	6,581	8,205	8,215	7,081	7,526	7,073	6,897	6,137
Imports [8]	1,000	2,398	2,838	3,245	3,196	3,004	2,699	2,403	2,038
Trucks and buses [9]	1,000	2,232	3,984	4,031	4,174	4,608	4,483	4,261	3,842
Light duty (up to 14,000 GVW) [10]	1,000	1,964	3,700	3,766	3,885	4,273	4,171	3,984	3,621
Med. duty (14,001-26,000 GVW) [10]	1,000	92	53	51	55	83	73	71	50
Heavy duty (over 26,000 GVW) [10]	1,000	176	231	214	234	251	239	207	171
Under 6,000 pounds	1,000	985	2,408	2,541	2,696	2,926	2,854	2,866	2,724
Utility	1,000	51	429	387	403	445	447	490	549
Van	1,000	79	115	112	89	47	43	31	17
Mini van (cargo)	1,000	(X)	103	110	101	105	97	83	66
Station wagon (truck chassis)	1,000	(X)	86	98	108	138	138	112	110
Mini passenger carrier	1,000	(X)	301	460	548	692	688	750	706
6,000 to 10,000 pounds [11]	1,000	975	1,260	1,214	1,175	1,333	1,297	1,097	876
Utility	1,000	108	108	101	91	90	93	68	37
Van	1,000	172	261	261	254	302	289	254	203
Pickup, conventional	1,000	546	628	582	569	666	663	568	476
Station wagon (truck chassis)	1,000	39	95	98	91	104	100	85	55
10,001 pounds and over	1,000	271	295	276	302	349	331	298	242

NA Not available. X Not applicable. [1] Based on data from U.S. Dept. of Commerce. [2] Includes other countries, not shown separately.
[3] Source: Motorcycle Industry Council, Inc., Irvine, CA. Data from U.S. Dept. of Commerce. Excludes mopeds/motorized bicycles and all-terrain vehicles. Excludes moped imports (motorcycle imports less than 51 cc's) from all countries (except Japan).
[4] Dutiable value for customs purposes prior to 1980, thereafter, c.i.f. value. [5] Covers assembled and unassembled vehicles.
[6] Includes rubber tires and tubes and used vehicles. [7] Includes domestic models produced in Canada and Mexico. [8] Excludes domestic models produced in Canada. [9] Excludes motorcoaches and light-duty imports from foreign manufactures. Includes imports sold by franchised dealers of U.S. manufacturers. Starting in 1986, includes sales of trucks over 10,000 lbs. GVW by foreign manufacturers. [10] Gross vehicle weight (fully loaded vehicle). [11] Includes vehicles, not shown separately.

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

No. 1020. Motor Vehicles In Use: 1980 to 1991

ITEM	Unit	1980	1985	1986	1987	1988	1989	1990	1991
Cars in use, total	**Million**	**104.6**	**114.7**	**117.3**	**119.8**	**121.5**	**122.8**	**123.3**	**123.3**
Under 5 years	Million	52.3	48.7	50.6	52.8	55.5	57.6	56.5	54.6
6-8 years	Million	25.2	27.8	26.5	24.4	21.6	20.7	22.6	25.5
9-11 years	Million	14.6	17.2	18.7	21.4	22.4	21.1	19.1	16.7
12 years and over	Million	12.5	21.0	21.5	21.2	22.0	23.4	25.1	26.6
Average age	Years	6.6	7.6	7.6	7.6	7.6	7.6	7.8	7.9
Cars retired from use [1]	1,000	8,405	7,729	8,442	8,103	8,754	8,981	8,897	8,565
Trucks in use, total	**Million**	**35.2**	**42.4**	**44.8**	**47.3**	**50.2**	**53.2**	**56.0**	**58.2**
Under 3 years	Million	8.8	9.0	11.1	11.9	12.5	12.5	12.8	12.0
3-5 years	Million	8.1	6.3	6.6	8.3	10.3	12.6	13.2	14.0
6-8 years	Million	7.4	10.2	8.9	7.4	5.9	6.3	8.0	9.9
9-11 years	Million	4.4	6.2	6.7	8.0	8.9	7.9	6.6	5.3
12 years and over	Million	6.5	10.7	11.5	11.8	12.6	14.0	15.5	17.0
Average age	Years	7.1	8.1	8.0	8.0	7.9	7.9	8.0	8.1
Trucks retired from use [1]	1,000	1,732	2,100	2,309	2,364	2,251	2,189	2,177	2,284

[1] For years ending June 30. Represents vehicles failing to re-register.

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

No. 1021. Motor Vehicle Registrations: 1980 to 1991

[In thousands]

ITEM	1980	1985	1986	1987	1988	1989	1990	1991
Total [1]	**155,796**	**171,654**	**176,191**	**179,044**	**184,397**	**187,261**	**188,655**	**188,372**
Automobiles	121,601	131,864	135,431	137,324	141,252	143,081	143,550	142,956
Buses	529	593	594	602	616	625	627	631
Private and commercial:								
Commercial	107	109	110	111	112	113	114	114
School and other	147	157	159	160	160	162	161	161
Publicly owned:								
Federal	4	4	4	5	5	4	5	5
School	271	323	320	327	339	346	347	352
Private and commercial trailers, total	14,372	15,008	15,256	15,322	15,707	16,115	16,098	16,275
Motorcycles	876	722	631	550	410	294	269	247
Truck tractors	1,402	1,150	1,121	1,135	1,183	1,237	1,240	1,236
Light trucks [2]	(NA)	32,146	33,330	34,286	35,320	36,530	37,380	37,603

NA Not available. [1] Components may not add to total because of double counting. [2] Excludes farm trucks.

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

No. 1022. Motor Vehicle Tires and Batteries: 1980 to 1991

[In millions]

ITEM	1980	1985	1986	1987	1988	1989	1990	1991
Tires, passenger car, total [1]	145.9	200.9	202.7	210.8	218.8	214.8	213.6	214.5
Radials	83.5	164.7	174.0	187.3	200.2	200.4	202.1	205.7
Replacement	106.9	141.5	144.3	151.9	155.3	151.2	152.3	155.4
Tires, truck and bus, total [1]	31.1	41.1	40.6	44.4	46.0	46.9	46.9	42.4
Radials	3.8	19.7	21.1	26.0	29.4	30.6	32.5	32.4
Replacement	24.4	32.1	32.4	34.5	33.9	35.2	36.6	32.9
Batteries, total [2]	61.7	74.4	75.7	75.7	80.1	80.3	79.7	79.8
Replacement automobile batteries	50.1	58.7	60.3	59.9	63.5	64.4	65.2	66.6

[1] Includes original equipment. Also includes exports, not shown separately. [2] Source: Battery Council International, Chicago, IL, and U.S. Bureau of the Census.

Source: Except as noted, The Rubber Manufacturers Association, Inc., Washington, DC, *RMA Monthly Tire Report.*

No. 1023. Automobile Output and Trade in National Income Accounts: 1970 to 1992

[In billions of current and constant (1982) dollars, except percent. Vehicle output equals final dollar sales value of new vehicles, plus net dollar value of used vehicle sales adjusted for changes in inventories and net balance of vehicle exports and imports]

ITEM	1970	1975	1980	1985	1987	1988	1989	1990	1991	1992
Current dollar auto output	**28.5**	**40.3**	**59.2**	**115.8**	**118.9**	**129.1**	**135.1**	**129.7**	**119.7**	**132.8**
Final sales	29.7	41.9	60.1	111.3	112.1	128.1	132.0	132.9	119.7	130.8
Personal consumption expenditures	26.8	36.8	57.2	111.7	121.6	131.6	132.4	130.4	115.3	123.8
New autos	21.9	29.3	46.4	87.4	93.5	101.0	99.9	96.7	79.5	85.4
Net purchases of used autos	4.8	7.4	10.8	24.3	28.2	30.5	32.5	33.7	35.8	38.5
Producers' durable equipment	5.3	8.6	14.3	27.7	28.9	32.3	31.1	35.5	36.6	36.9
New autos	7.6	12.6	20.8	44.0	45.1	51.2	49.7	55.1	59.8	61.7
Net purchases of used autos	−2.3	−3.9	−6.5	−16.3	−16.2	−18.9	−18.6	−19.6	−23.3	−24.8
Net exports	−2.9	−4.2	−12.8	−30.0	−40.6	−38.0	−33.7	−35.4	−33.9	−31.5
Exports	0.8	2.9	4.0	6.1	7.4	9.0	10.8	10.5	11.7	14.6
Imports	3.7	7.1	16.8	36.1	47.9	47.1	44.5	45.9	45.6	46.1
Government purchases	0.5	0.7	1.4	2.0	2.1	2.2	2.2	2.4	1.7	1.5
Change in business inventories (new and used)	−1.2	−1.5	−0.9	4.5	6.8	1.0	3.1	−3.2	-	2.0
New	−1.0	−1.9	−0.1	4.0	6.3	0.2	2.2	−2.3	−0.3	1.4
Used	−0.1	0.4	−0.8	0.5	0.5	0.9	0.9	−0.8	0.4	0.7
Constant dollar auto output	**65.4**	**74.8**	**79.1**	**125.0**	**118.9**	**127.3**	**128.0**	**121.7**	**109.3**	**117.1**
Final sales	68.3	78.5	80.5	120.7	112.1	126.7	125.6	125.8	109.2	115.5
Personal consumption expenditures	68.3	73.5	80.9	122.4	121.6	129.6	126.5	125.0	107.6	111.7
New autos	47.4	53.3	60.2	94.5	93.5	99.1	96.0	91.6	72.6	76.1
Net purchases of used autos	20.9	20.3	20.8	27.9	28.2	30.5	30.4	33.4	35.0	35.5
Producers' durable equipment	10.0	14.8	16.8	32.2	28.9	31.9	30.2	33.3	32.4	32.2
New autos	16.4	22.8	26.9	47.6	45.1	50.2	47.7	52.1	54.7	55.0
Net purchases of used autos	−6.3	−8.0	−10.1	−15.4	−16.2	−18.3	−17.5	−18.9	−22.3	−22.8
Net exports	−11.5	−11.4	−19.2	−36.1	−40.6	−37.0	−33.1	−34.6	−32.2	−29.7
Exports	1.8	5.2	5.3	6.5	7.4	8.9	10.4	9.9	10.6	13.0
Imports	13.3	16.6	24.5	42.6	47.9	45.8	43.5	44.5	42.8	42.7
Government purchases	1.5	1.5	2.0	2.2	2.1	2.2	2.0	2.2	1.5	1.3
Change in business inventories of new and used	−3.0	−3.7	−1.5	4.3	6.8	0.6	2.4	−4.1	0.1	1.6
New	−2.6	−4.5	−0.1	3.9	6.3	−0.3	1.5	−3.3	−0.5	1.0
Used	−0.3	0.8	−1.3	0.4	0.5	0.9	0.9	−0.8	0.6	0.6

- Represents or rounds to zero.

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States: Volume 2, 1959-88,* and *Survey of Current Business,* July issues.

No. 1024. Roadway Congestion: 1989

[Various Federal, State, and local information sources were used to develop the data base with the primary source being the Federal Highway Administration's Highway Performance Monitoring System]

URBANIZED AREAS	DAILY VEHICLE MILES OF TRAVEL		VEHICLE HOURS OF DELAY		CONGESTION COST		Delay and fuel cost (mil. dol.)
	Total miles (1,000)	Per lane-mile of freeway	Total hours	Per 1,000 persons	Per reg. vehicle (dol.)	Per capita (dol.)	
Total, average	**15,340**	**12,400**	**196,750**	**80**	**440**	**310**	**780**
Northeastern cities	25,060	12,550	419,930	90	660	360	1,670
Baltimore, MD	15,180	12,340	117,720	60	460	250	470
Boston, MA	22,080	22,080	349,860	120	840	470	1,390
New York, NY	80,920	14,570	1,512,740	90	1,020	370	6,040
Philadelphia, PA	18,280	13,800	272,000	60	380	250	1,060
Pittsburgh, PA	7,750	7,910	114,920	60	360	240	440
Washington, DC	25,020	16,460	537,770	170	1,280	690	2,130
Midwestern cities	13,790	11,570	111,990	40	270	170	440
Chicago, IL	34,440	14,970	496,160	70	480	270	1,970
Cincinnati, OH	10,890	12,240	39,520	30	170	140	160
Cleveland, OH	13,210	12,460	46,290	30	130	110	190
Detroit, MI	22,550	13,340	360,930	90	490	360	1,410
Indianapolis, IN	7,890	10,960	15,400	20	110	70	60
Kansas City, MO	12,370	9,130	26,280	20	150	90	100
Louisville, KY	6,140	10,500	19,980	20	170	100	80
Milwaukee, WI	7,520	12,740	43,990	40	330	140	180
Minn-St. Paul, MN	16,860	11,630	96,200	50	240	200	390
St. Louis, MO	18,720	11,110	138,450	70	570	280	540
Southern cities	6,940	11,790	84,310	80	360	310	330
Atlanta, GA	24,600	14,640	229,090	120	590	490	910
Memphis, TN	4,260	11,200	19,300	20	120	90	80
Miami, FL	8,350	14,400	222,270	120	610	470	870
Nashville, TN	5,410	11,270	42,400	80	330	310	170
Tampa, FL	3,430	11,630	43,490	60	270	250	170
Southwestern cities	9,640	11,430	105,160	70	340	270	420
Albuquerque, NM	2,310	11,000	20,010	40	190	160	80
Austin, TX	5,300	12,470	44,800	90	370	360	180
Corpus Christi, TX	1,520	8,220	2,680	10	50	40	10
Dallas, TX	22,650	13,400	241,530	120	660	500	980
Denver, CO	10,730	12,480	120,500	80	350	310	480
El Paso, TX	3,300	9,430	7,730	10	90	60	30
Fort Worth, TX	11,280	11,110	91,430	80	380	320	370
Houston, TX	27,640	14,860	374,950	130	690	520	1,500
Phoenix, AZ	7,050	11,650	179,560	100	590	370	700
Salt Lake City, UT	5,080	9,960	14,830	20	90	80	60
San Antonio, TX	9,180	11,120	58,770	50	270	200	240
Western cities	27,070	15,310	385,570	130	690	520	1,550
Los Angeles, CA	106,680	20,840	1,752,200	150	900	620	7,000
Portland, OR	7,470	13,580	75,310	70	460	300	310
Sacramento, CA	8,850	12,120	79,230	80	250	300	320
San Diego, CA	26,760	15,560	152,860	70	440	280	620
San Francisco-Oakland, CA	41,970	17,860	647,900	180	850	720	2,620
Seattle-Everett, WA	18,200	15,690	255,630	150	810	610	1,020

Source: Texas Transportation Institute, College Station, Texas; *Roadway Congestion in Major Urban Areas*, annual.

No. 1025. Recreational Vehicles—Number and Retail Value of Shipments: 1970 to 1991

ITEM	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991
NUMBER (1,000)												
Total	**380.3**	**339.6**	**181.4**	**358.0**	**398.2**	**359.2**	**379.5**	**400.2**	**427.3**	**395.7**	**354.5**	**300.5**
Motorized homes	30.3	96.6	99.9	223.7	257.3	233.5	249.6	255.7	277.1	261.6	226.5	172.6
Travel trailers	138.0	150.6	52.0	90.0	92.4	82.9	86.0	92.8	96.9	90.3	87.6	84.4
Folding camping trailers	116.1	48.1	24.5	37.5	40.9	35.9	36.5	41.6	42.3	33.9	30.7	33.9
Truck campers	95.9	44.3	5.0	6.8	7.6	6.9	7.4	10.1	11.0	9.9	9.7	9.6
RETAIL VALUE (mil. dol.)												
Total	**1,122**	**2,320**	**1,952**	**6,324**	**7,610**	**7,029**	**7,564**	**8,400**	**9,188**	**9,027**	**8,223**	**6,739**
Motorized homes	318	1,251	1,381	5,099	6,262	5,724	6,155	6,826	7,543	7,420	6,660	5,284
Travel trailers	445	856	485	1,067	1,157	1,122	1,213	1,331	1,381	1,378	1,342	1,250
Folding camping trailers	175	101	69	122	145	137	144	167	175	147	134	146
Truck campers	183	112	17	36	46	46	53	76	88	81	86	87

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

No. 1026. Motorcycles—Travel, Registration, and Fuel Consumption: 1970 to 1989

ITEM	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989
Vehicle-miles of travel	Million	2,979	5,629	10,214	8,784	9,086	9,397	9,506	10,024	10,371	9,557	9,178
Number of registered vehicles	1,000	2,824	4,964	5,694	5,480	5,444	5,199	4,917	4,584	4,434	4,259	4,177
Average travel per vehicle	Miles	1,055	1,134	1,794	1,603	1,669	1,807	1,933	2,187	2,339	2,244	2,197
Fuel consumption, total	Mil. gal	59.6	112.6	204.3	175.7	181.7	187.9	190.1	200.5	207.4	191.1	183.6
Average per vehicle	Gallon	21	23	36	32	33	36	39	44	47	45	44

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

No. 1027. Motor Vehicle Accidents—Number and Deaths: 1972 to 1991

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

ITEM	Unit	1972 [1]	1980	1985	1986	1987	1988	1989	1990	1991
Motor vehicle accidents [2]	Million	17.0	17.9	19.3	17.7	20.8	20.6	12.8	11.5	11.3
Cars	Million	24.5	22.8	25.6	27.7	25.9	28.2	15.3	14.3	13.7
Trucks	Million	3.5	5.5	6.1	6.1	6.0	6.8	6.5	4.4	4.7
Motorcycles	1,000	343	560	480	440	380	370	211	180	239
Motor vehicle deaths within 1 yr. [3]	1,000	56.3	53.2	45.9	47.9	48.3	49.1	47.6	46.8	43.5
Noncollision accidents	1,000	15.8	14.7	12.6	13.1	5.2	5.3	4.9	4.8	4.5
Collision accidents:										
With other motor vehicles	1,000	23.9	23.0	19.9	20.8	20.7	20.9	20.3	19.8	18.5
With pedestrians	1,000	10.3	9.7	8.5	8.9	7.5	7.7	7.8	7.6	7.0
With fixed objects	1,000	3.9	3.7	3.2	3.3	13.2	13.4	12.9	13.2	12.1
Deaths within 30 days [4]	1,000	54.6	51.1	43.8	46.1	46.4	47.1	45.6	(NA)	(NA)
Vehicle occupants	1,000	41.4	36.8	31.5	33.7	34.5	35.5	34.9	(NA)	(NA)
Pedestrians	1,000	9.2	8.1	6.8	6.8	6.7	6.9	6.6	(NA)	(NA)
Motorcyclists [5]	1,000	3.0	5.1	4.6	4.6	4.0	3.7	3.1	(NA)	(NA)
Bicyclists	1,000	1.0	1.0	0.9	0.9	0.9	0.9	0.8	(NA)	(NA)
Traffic death rates: [4 6]										
Per 100,000 resident population	Rate	26.2	22.6	18.4	19.1	19.1	19.2	18.4	(NA)	(NA)
Per 100,000 registered vehicles	Rate	44.5	31.6	24.8	25.4	25.2	24.9	23.6	(NA)	(NA)
Per 100 million vehicle miles	Rate	4.3	3.3	2.5	2.5	2.4	2.3	2.2	(NA)	(NA)
Per 100,000 licensed drivers	Rate	46.1	35.2	27.9	28.9	28.7	28.9	27.6	(NA)	(NA)
Motor vehicle accidents [7]	Million	24.9	24.1	32.5	33.3	33.9	34.2	34.4	33.4	31.3
Injuries [7]	1,000	5,190	5,230	5,044	5,300	5,400	5,500	5,560	5,560	5,285
Economic loss [7 8]	Bil. dol.	28.7	57.1	76.0	80.0	85.0	89.0	93.9	95.9	93.8

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

Source: Except as noted, National Safety Council, Itasca, IL, *Accident Facts*, annual, (copyright).

No. 1028. Motor Vehicle Deaths, by State: 1985 to 1991

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

REGION DIVISION STATE	1985	1989	1990	1991	MILEAGE RATE [1] 1985	MILEAGE RATE [1] 1991	REGION DIVISION STATE	1985	1989	1990	1991	MILEAGE RATE [1] 1985	MILEAGE RATE [1] 1991
U.S.	**45,901**	**47,100**	**46,300**	**43,500**	**2.6**	**2.0**	DC	96	75	55	63	3.0	1.9
							VA	1,021	999	1,073	937	2.1	1.6
Northeast	**6,797**	**6,708**	**6,243**	**5,819**	**(NA)**	**(NA)**	WV	461	468	481	414	3.6	2.7
N.E.	**1,873**	**1,702**	**1,528**	**1,400**	**(NA)**	**(NA)**	NC	1,553	1,464	1,383	1,365	3.1	2.2
ME	224	190	212	202	2.4	1.7	SC	943	996	983	890	3.5	2.6
NH	198	190	156	144	2.6	1.5	GA	1,462	1,632	1,563	1,393	2.7	1.9
VT	117	116	89	106	2.5	1.9	FL	2,968	3,016	2,951	2,519	3.4	2.3
MA	761	700	607	550	1.9	1.2	**E.S.C.**	**3,884**	**3,616**	**3,868**	**3,749**	**(NA)**	**(NA)**
RI	124	100	84	88	2.1	1.3	KY	749	782	850	828	2.6	2.5
CT	449	406	378	310	2.0	1.2	TN	1,219	1,081	1,172	1,112	3.4	2.4
M.A.	**4,924**	**5,006**	**4,715**	**4,419**	**(NA)**	**(NA)**	AL	1,005	1,025	1,095	1,108	2.9	2.0
NY	2,121	2,239	2,183	1,973	2.3	1.9	MS	691	728	751	701	3.6	2.9
NJ	986	890	886	785	1.9	1.4	**W.S.C.**	**6,197**	**5,521**	**5,405**	**5,154**	**(NA)**	**(NA)**
PA	1,817	1,877	1,646	1,661	2.4	1.9	AR	580	648	604	608	3.4	2.9
Midwest	**9,760**	**9,993**	**9,601**	**9,169**	**(NA)**	**(NA)**	LA	1,011	857	912	824	3.0	2.2
E.N.C.	**6,602**	**6,871**	**6,509**	**6,218**	**(NA)**	**(NA)**	OK	781	655	646	643	2.5	2.0
OH	1,581	1,700	1,550	1,544	2.1	1.8	TX	3,825	3,361	3,243	3,079	2.7	1.9
IN	1,045	973	1,044	1,020	2.6	1.9	**West**	**10,352**	**9,847**	**9,944**	**9,031**	**(NA)**	**(NA)**
IL	1,594	1,748	1,589	1,451	2.3	1.9	**Mt.**	**3,409**	**3,100**	**3,098**	**2,982**	**(NA)**	**(NA)**
MI	1,605	1,633	1,563	1,409	2.4	1.7	MT	233	181	212	200	3.1	2.4
WI	777	817	763	794	2.1	1.8	ID	268	238	243	263	3.5	2.7
W.N.C.	**3,158**	**3,122**	**3,092**	**2,951**	**(NA)**	**(NA)**	WY	145	127	125	122	2.7	2.2
MN	657	605	568	534	2.0	1.4	CO	628	522	543	542	2.4	2.0
IA	478	511	459	491	2.4	2.1	NM	561	538	499	469	4.2	2.9
MO	1,005	1,052	1,096	1,010	2.6	2.0	AZ	942	884	863	816	4.4	2.3
ND	117	81	112	94	2.2	1.6	UT	335	303	270	273	2.8	1.8
SD	142	151	153	143	2.3	2.0	NV	297	307	343	297	3.9	2.9
NE	259	296	262	275	2.1	2.0	**Pac.**	**6,943**	**6,747**	**6,846**	**6,049**	**(NA)**	**(NA)**
KS	500	426	442	404	2.6	1.8	WA	786	781	825	682	2.3	1.5
South.	**19,250**	**18,655**	**18,631**	**17,295**	**(NA)**	**(NA)**	OR	605	630	578	483	2.8	1.8
S.A.	**9,389**	**9,518**	**9,358**	**8,392**	**(NA)**	**(NA)**	CA	5,294	5,105	5,173	4,649	2.6	1.8
DE	119	118	143	103	2.2	1.6	AK	124	84	95	100	3.2	2.9
MD	766	750	726	708	2.3	1.8	HI	134	147	175	135	2.0	1.7

NA Not available. [1] Deaths per 100 million vehicle miles.

Source: 1985: National Center for Health Statistics; thereafter, National Safety Council, Itasca, IL, *Accident Facts, 1991*, (copyright).

No. 1029. Fatal Motor Vehicle Accidents—National Summary: 1980 to 1991

[Based on data from the Fatal Accident Reporting System (FARS). FARS gathers data on accidents that result in loss of human life. FARS is operated and maintained by National Highway Traffic Safety Administration's (NHTSA) National Center for Statistics and Analysis (NCSA). FARS data are gathered on motor vehicle accidents that occurred on a roadway customarily open to the public, resulting in the death of a person within 30 days of the accident; collection of these data depend on the use of police, hospital, medical examiner/coroner, and Emergency Medical Services reports, State vehicle registration, driver licensing, and highway department files, and vital statistics documents and death certificates. See source for further detail]

ITEM	1980	1984	1985	1986	1987	1988	1989	1990	1991
Fatal crashes, total	**45,284**	**39,631**	**39,196**	**41,090**	**41,438**	**42,130**	**40,741**	**39,836**	**36,895**
One vehicle involved	28,306	23,697	22,875	24,275	24,154	24,716	23,742	23,445	21,889
Two or more vehicles involved	16,978	15,934	16,321	16,815	17,284	17,414	16,999	16,391	15,006
Persons killed in fatal crashes	**51,091**	**44,257**	**43,825**	**46,087**	**46,390**	**47,087**	**45,582**	**44,599**	**41,462**
Occupants	41,927	36,284	36,043	38,234	38,565	39,170	38,087	37,134	34,700
Drivers	28,816	25,589	25,337	26,630	26,833	27,253	26,389	25,750	23,904
Passengers	12,972	10,586	10,619	11,498	11,623	11,805	11,624	11,276	10,674
Other	139	109	87	106	109	112	74	108	122
Nonmotorists	9,164	7,973	7,782	7,853	7,825	7,917	7,495	7,465	6,762
Pedestrians	8,070	7,025	6,808	6,779	6,745	6,870	6,556	6,482	5,797
Pedalcyclists	965	849	890	941	948	911	832	859	841
Other	129	99	84	133	132	136	107	124	124
Occupant fatalities by type of vehicle, total	**41,927**	**36,284**	**36,043**	**38,234**	**38,565**	**39,170**	**38,087**	**37,134**	**34,700**
Passenger cars	27,449	23,620	23,212	24,944	25,132	25,808	25,063	24,092	22,347
Mini-compact	3,141	3,555	3,571	3,728	3,815	3,813	3,812	3,556	3,028
Subcompact	4,156	4,346	4,422	4,842	5,007	4,975	4,928	4,753	4,595
Compact	927	2,081	2,635	3,350	3,943	4,764	5,099	5,310	5,284
Intermediate	3,878	4,287	4,391	4,803	4,917	5,016	5,055	4,849	4,644
Full size	4,831	3,269	2,974	3,217	2,937	2,840	2,641	2,386	2,050
Largest size	6,746	4,160	3,612	3,686	3,160	2,904	2,610	2,249	1,929
Unknown	3,768	1,922	1,607	1,318	1,353	1,496	929	989	817
Motorcycles	4,961	4,431	4,417	4,309	3,834	3,492	3,036	3,129	2,703
Other motorized cycles	183	177	147	257	202	170	105	115	105
Multipurpose vehicles	895	723	855	927	1,050	1,040	1,135	1,214	1,475
Light trucks	6,591	5,773	5,834	6,390	7,008	7,266	7,416	7,387	6,905
Pickup	5,483	4,686	4,640	5,090	5,502	5,880	5,870	5,979	5,662
Van	1,000	764	791	879	1,025	1,001	1,214	1,154	1,140
Medium trucks	285	153	157	145	125	125	128	134	115
Heavy trucks	977	921	820	781	727	786	730	571	544
Buses	46	46	57	39	51	54	50	32	31
Other vehicles	257	575	333	244	293	310	277	296	328
Unknown	283	135	211	198	143	119	147	164	147
Persons involved in fatal crashes	**113,289**	**103,348**	**104,045**	**109,073**	**111,457**	**112,958**	**109,866**	**107,777**	**99,255**
Occupants	103,049	94,317	95,482	100,273	102,644	104,086	101,401	99,297	91,599
Drivers	62,957	57,512	57,883	60,335	61,442	62,253	6,435	58,893	54,323
Passengers	39,892	36,634	37,477	39,776	41,013	41,656	40,816	40,229	37,068
Other	200	171	122	162	189	177	150	175	208
Nonoccupants	10,240	9,031	8,563	8,800	8,813	8,872	8,465	8,480	7,656
Vehicle miles traveled (VMT) (100 million)	15,273	17,203	17,742	18,349	19,212	20,256	21,070	21,444	21,722
Licensed drivers (1,000)	145,295	155,424	156,866	159,487	161,818	162,853	165,555	167,015	169,183
Registered vehicles (1,000)	161,490	171,729	177,098	181,357	183,872	188,981	191,694	192,915	194,897
Fatalities by road type	(NA)	(NA)	(NA)	(NA)	**46,390**	**47,093**	(NA)	(NA)	(NA)
Interstate	4,427	4,301	4,148	4,279	4,634	5,142	4,971	4,993	4,574
Federal-aid primary	(NA)	14,848	14,526	15,229	15,561	15,185	14,732	14,203	13,149
Federal-aid secondary	(NA)	6,547	6,429	6,539	8,432	8,534	8,398	8,432	7,480
Federal-aid urban	(NA)	7,933	8,116	8,635	6,597	6,919	6,769	6,892	6,235
NonFederal-aid	(NA)	10,436	10,408	11,242	11,004	10,844	10,579	10,039	9,932
Unknown	(NA)	192	198	163	162	463	133	40	92
Fatality rate by age group:									
Under 5 years old	6.9	5.0	5.2	5.3	5.4	5.4	5.4	4.9	4.6
5 years to 15 years old	8.7	7.3	7.4	7.7	7.8	7.4	7.0	6.4	6.1
16 years to 24 years old	46.0	37.9	37.1	40.2	38.8	40.0	36.7	35.2	33.0
25 years to 44 years old	24.6	20.3	19.6	20.5	20.6	20.3	20.0	19.7	17.6
45 years to 64 years old	17.2	14.6	14.5	14.2	14.9	15.0	15.0	14.9	13.5
65 years to 79 years old	19.6	18.6	18.0	18.7	18.8	19.5	19.1	18.8	18.0
80 years old and over	25.3	23.9	25.1	25.8	27.1	29.1	26.8	26.8	26.8
Fatal crashes by the highest blood alcohol concentration (BAC) in crash:									
0.00 percent	(NA)	46.7	48.5	48.3	49.3	50.1	51.1	50.6	52.1
0.01 to 0.09 percent	(NA)	10.6	10.3	10.9	10.7	10.2	9.8	9.7	9.4
0.10 percent and over	(NA)	42.7	41.2	40.8	40	39.7	39.1	39.7	38.5
National rates:									
Fatalities per 100 million VMT	3.3	2.6	2.5	2.5	2.4	2.3	2.2	2.1	1.9
Fatalities per 100,000 licensed drivers	35.2	28.5	27.9	28.9	28.7	28.9	27.5	26.7	24.5
VMT per registered vehicle	9,458	10,017	10,018	10,117	10,445	10,718	10,936	11,107	11,281
Fatal crashes per 100 million VMT	2.9	2.3	2.2	2.2	2.2	2.1	1.9	1.9	1.7
Involved vehicles per fatal crash	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

NA Not available.

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

No. 1030. Highway Mileage, Vehicle Miles of Travel, Accidents, and Fatalities, 1975 to 1991, and by Type of Highway System, 1991

YEAR AND TYPE OF SYSTEM	Highway mileage (1,000)	Vehicle miles of travel (bil.)	Daily vehicle miles per mile	FATAL ACCIDENTS		NONFATAL INJURY ACCIDENTS		FATALITIES [2]	
				Number	Rate [1]	Number (1,000)	Rate [1]	Number	Rate [1]
1975	3,838	1,328	948	39,993	3.01	1,861	140	44,525	3.43
1980	3,857	1,527	1,082	45,284	2.96	2,008	131	51,091	3.35
1985	3,862	1,774	1,259	39,168	2.21	2,219	125	43,825	2.47
1986	3,880	1,835	1,298	41,062	2.23	2,254	123	46,087	2.51
1987	3,874	1,921	1,361	41,434	2.15	2,294	119	46,390	2.41
1988	3,871	2,026	1,430	42,119	2.08	2,302	114	47,087	2.32
1989	3,877	2,096	1,459	40,718	1.93	2,384	113	45,582	2.16
1990	3,880	2,148	1,516	39,779	1.85	2,501	116	44,529	2.07
1991, total	**3,889**	**2,172**	**1,530**	**36,895**	**1.70**	**2,210**	**102**	**41,462**	**1.91**
Urban	750	1,289	4,708	15,748	1.22	1,569	122	17,049	1.32
Rural	3,139	884	771	21,147	2.39	642	73	24,413	2.76
Interstate	45	490	29,688	3,868	0.79	161	33	4,472	0.91
Urban	12	285	67,372	1,729	0.61	117	41	1,908	0.67
Rural	34	205	16,678	2,139	1.04	49	21	2,564	1.25
Noninterstate	3,844	1,682	1,199	33,027	1.96	2,049	121	36,990	2.20
Urban	738	1,003	3,723	14,019	1.40	1,452	145	15,141	1.51
Rural	3,106	679	599	19,008	2.80	598	88	21,849	3.22
Federal-aid highway system	851	1,769	5,699	27,532	1.58	1,543	87	31,266	1.77
Urban	194	1,048	14,820	12,274	1.17	1,143	109	13,334	1.27
Rural	657	721	3,009	15,258	2.12	399	55	17,932	2.49
Interstate	45	490	29,688	3,868	0.79	161	33	4,472	0.91
Other primary arterial	257	608	6,461	11,286	1.86	490	81	13,117	2.16
Urban	34	278	22,216	3,530	1.27	298	107	3,869	1.39
Rural	223	330	4,062	7,756	2.35	192	58	9,248	2.80
Urban (arterial and collector)	148	485	8,983	7,015	1.45	728	150	7,557	1.58
Secondary (collector)	400	186	1,273	5,363	2.88	163	88	6,120	3.29
Non-Federal-aid highway system	3,039	403	363	9,363	2.32	668	166	10,196	2.53
Arterial	13	32	6,772	335	1.06	23	72	373	1.18
Urban	8	27	9,278	237	0.88	21	78	251	0.93
Rural	5	5	2,605	98	2.15	2	39	122	2.68
Collector	353	85	659	1,906	2.25	89	105	2,115	2.49
Urban	22	25	3,137	185	0.73	26	102	201	0.80
Rural	331	60	494	1,721	2.89	63	106	1,914	3.21
Local	2,673	287	294	7,122	2.49	556	194	7,708	2.69
Urban	526	188	981	3,052	1.62	379	201	3,263	1.73
Rural	2,147	98	125	4,070	4.15	177	180	4,445	4.53

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

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

No. 1031. Motor Vehicle Safety Defect Recalls, by Domestic and Foreign Manufacturers: 1980 to 1990

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

MANUFACTURER	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Motor vehicles:											
Total recall campaigns [1]	**Number**	**167**	**135**	**140**	**164**	**173**	**174**	**199**	**197**	**237**	**208**
Domestic	Number	129	107	110	127	137	139	150	152	182	159
Foreign	Number	38	28	30	37	36	35	49	45	55	49
Total vehicles recalled	**1,000**	**4,863**	**1,914**	**6,114**	**7,220**	**5,629**	**2,880**	**9,091**	**4,486**	**7,136**	**4,070**
Domestic	1,000	3,939	1,401	3,090	6,283	4,995	1,731	7,297	3,171	6,172	1,915
Vehicles recalled by four leading auto manufacturers	1,000	3,730	1,324	3,021	6,148	4,811	1,382	6,945	[2]2,900	5,842	(NA)
Foreign	1,000	924	513	3,024	937	634	1,149	1,793	1,315	963	(NA)
Motor vehicle tires:											
Recall campaigns [1]	Number	24	17	21	16	19	14	16	12	11	13
Tires recalled	1,000	7,070	131	95	81	28	164	43	215	116	172

NA Not available. [1] A recall campaign is the notification to the Secretary of the U.S. Dept. of Transportation and to owners, purchasers, and dealers of a motor vehicle safety defect. [2] Three leading automobile manufacturers.

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

No. 1032. State Legislation—Alcohol and Road Safety Laws: Various Years

REGION, DIVISION, AND STATE	ALCOHOL LEGISLATION			MANDATORY BELT USE LAW			Child safety seat law date [5]	Motor-cycle helmet law [6]	65 SPEED LIMIT	
	21 year drinking age since [1]	Open con-tainer law [2]	BAC limit [3]	Effec-tive date	Enforce-ment [4]	Seating posi-tions			Effec-tive date [7]	Applic-able vehicles
Northeast:										
N.E:										
ME	**1985**	**no**	**0.08**	**none**	**(X)**	**(X)**	**9/83**	[8 9]15	**6/87**	**all**
NH	1985	yes	0.10	none	(X)	(X)	7/89	18	4/87	all
VT	1986	no	0.08	none	(X)	(X)	7/84	yes	4/87	all
MA	1985	yes	0.10	repealed	(X)	(X)	1/82	yes	12/91	all
RI	1984	no	[10]0.10	7/91	2	all	7/87	([11])	none	(X)
CT	1985	no	0.10	1/86	1	front	1982	18	none	(X)
M.A:										
NY	**1990**	**no**	**0.10**	**12/84**	**1**	**front**	**4/82**	**yes**	**none**	**(X)**
NJ	1982	no	0.10	3/85	2	front	4/83	yes	none	(X)
PA	1935	no	0.10	11/87	2	front	11/83	yes	none	(X)
Midwest:										
E.N.C:										
OH	**1987**	**yes**	[10]**0.10**	**5/86**	**2**	**front**	**6/83**	[9]**18**	**7/87**	**some**
IN	1935	no	0.10	7/87	2	front	1/84	18	6/87	some
IL	1980	yes	0.10	7/85	2	front	7/83	no	4/87	some
MI	1978	yes	0.10	7/85	2	front	3/82	yes	12/87	some
WI	1986	yes	[10]0.10	12/87	1	front	4/84	[8]18	6/87	all
W.N.C:										
MN	**1986**	**yes**	**0.10**	**8/86**	**2**	**front**	**8/83**	[8]**18**	**6/87**	**all**
IA	1986	yes	0.10	7/86	1	front	1/85	no	5/87	all
MO	1945	no	0.10	9/85	2	front	1/84	yes	4/87	some
ND	1936	yes	0.10	none	(X)	(X)	1/84	18	4/87	all
SD	1987	yes	0.10	none	(X)	(X)	7/84	18	4/87	all
NE	1985	no	0.10	repealed	(X)	(X)	8/83	yes	4/87	all
KS	1985	yes	0.10	7/86	2	front	7/81	18	5/87	some
South:										
S.A:										
DE	**1983**	**yes**	**0.10**	**1/92**	**2**	**front**	**6/82**	[8 12]**19**	**none**	**(X)**
MD	1982	no	0.10	7/86	2	[13]front	1/84	18	none	(X)
DC	1986	no	0.10	12/85	2	[13]front	7/83	yes	none	(X)
VA	1986	no	0.10	1/88	2	front	1/83	yes	7/88	some
WV	1986	no	0.10	none	(X)	(X)	7/81	yes	5/87	all
NC	1986	yes	0.10	10/85	1	front	7/85	yes	4/87	all
SC	1986	yes	0.10	7/89	2	front	1/89	21	7/87	all
GA	1986	yes	0.10	9/88	2	front	7/84	yes	2/88	all
FL	1985	yes	0.10	7/86	2	front	7/83	yes	4/87	all
E.S.C:										
KY	**1938**	**no**	**0.10**	**none**	**(X)**	**(X)**	**7/82**	**yes**	**6/87**	**all**
TN	1984	no	0.10	4/86	2	front	1/78	yes	5/87	all
AL	1985	no	0.10	7/92	2	front	1982	yes	1987	all
MS	1986	no	0.10	3/90	1	front	7/83	yes	4/87	all
W.S.C:										
AR	**1957**	**no**	**0.10**	**7/91**	**2**	**front**	**8/83**	**yes**	**4/87**	**all**
LA	1987	no	0.10	7/86	2	front	1/85	yes	4/87	all
OK	1983	yes	0.10	2/87	2	front	11/83	18	4/87	all
TX	1985	no	0.10	9/85	1	front	1/85	yes	5/87	some
West:										
Mt:										
MT	**1987**	**no**	**0.10**	**10/87**	**2**	**all**	**10/83**	**18**	**4/87**	**all**
ID	1987	[14]Yes	0.10	7/86	2	front	1/85	18	5/87	all
WY	1988	no	0.10	6/89	2	front	4/85	18	5/87	all
CO	1987	no	0.10	7/87	2	front	1/84	no	4/87	all
NM	1934	yes	0.10	1/86	1	front	5/83	18	4/87	all
AZ	1984	no	0.10	1/91	2	front	1984	18	4/87	all
UT	1935	yes	0.08	4/86	2	front	4/83	18	5/87	all
NV	1933	yes	0.10	7/87	2	all	7/83	yes	4/87	all
Pac:										
WA	**1934**	**yes**	**0.10**	**6/86**	**2**	**all**	**1/84**	**yes**	**4/87**	**some**
OR	1935	yes	[10]0.08	12/90	1	all	1/84	yes	10/87	some
CA	1933	yes	0.08	1/86	2	all	1/83	yes	5/87	some
AK	1983	yes	0.10	9/90	2	all	6/85	18	none	(X)
HI	1986	Yes	0.10	12/85	1	front	1983	18	none	(X)

X Not applicable. [1] Year in which original law became effective, not when grandfather clauses expired. [2] Law prohibiting open liquor containers in motor vehicles. [3] Percent blood alcohol concentration (BAC) which constitutes the threshold of legal intoxication. [4] "1" indicates primary enforcement (law can be enforced on its own), "2" indicates secondary enforcement. (Law enforced only if vehicle stopped for a separate offense.) [5] Effective data of original law, not of subsequent revisions. [6] Presence of law or age below which riders are required to wear helmet. [7] Includes administrative action as well as legislation. [8] Plus instruction permit holders. [9] Plus novice license holders. [10] Different legal limit for minors. [11] Passengers only. [12] Possession of helmet required by all. [13] Excluding front center seat. [14] Does not include beer.

Source: National Safety Council, Itasca, IL, *Accident Facts*, annual.

No. 1033. Estimated Arrests for Driving Under the Influence, by Age: 1980 and 1989

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

AGE	1980			1989			Percent change in rate, 1980-89
	Drivers	Arrests	Arrests per 100,000 drivers	Drivers	Arrests	Arrests per 100,000 drivers	
Total	**145,207**	**1,425**	**981**	**165,518**	**1,735**	**1,048**	**6.9**
Percent distribution	100.0	100.0	(X)	100.0	100.0	(X)	(X)
16 to 17 years old	3.2	2.2	666	2.3	1.1	503	-24.7
18 to 24 years old	7.2	12.9	1,757	5.4	8.3	1,607	-8.5
25 to 29 years old	13.0	17.9	1,347	12.4	22.2	1,869	38.8
30 to 34 years old	12.0	13.1	1,076	12.4	17.6	1,486	38.1
35 to 39 years old	9.4	9.6	996	11.2	12.0	1,123	12.8
40 to 44 years old	7.7	7.4	944	9.7	8.1	872	-7.6
45 to 49 years old	6.9	5.9	837	7.6	5.3	725	-13.4
50 to 54 years old	6.9	4.9	686	6.2	3.3	558	-18.7
55 to 59 years old	6.7	3.5	509	5.7	2.2	400	-21.4
60 to 64 years old	5.7	1.9	335	5.6	1.4	262	-21.8
65 years old and over	10.7	1.5	140	13.0	1.2	100	-28.6

X Not applicable.
Source: U.S. Bureau of Justice Statistics, *Drunk Driving, Special Report.*

No. 1034. Licensed Drivers, Fatal Motor Vehicle Accidents, and Alcohol Involvement, by Age of Driver: 1990

ITEM	Unit	Total	AGE OF DRIVER							
			16-17 years	18-21 years	22-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over
Licensed drivers (estimated) [1]	1,000	168,995	3,463	11,809	10,191	40,322	36,987	24,514	18,705	22,939
Percent distribution	Percent	100.0	2.0	7.0	6.0	23.9	21.9	14.5	11.1	13.6
Licensed drivers involved in fatal accidents	Number	58,883	2,651	8,112	5,253	15,764	10,177	5,867	4,068	5,501
Percent distribution	Percent	100.0	4.5	13.8	8.9	26.8	17.3	10.0	6.9	9.3
Drinking drivers involved in fatal accidents	Number	14,060	355	2,483	1,774	4,805	2,509	1,084	492	452
Percent distribution	Percent	100.0	2.5	17.7	12.6	34.2	17.8	7.7	3.5	3.2

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

No. 1035. Police-Reported Traffic Crashes, by Age Group: 1991

[Based on probability sample of police-reported crashes. See source for details]

ITEM	Total	15 yrs. and under	16 to 20 yrs.	21 to 24 yrs.	25 to 34 yrs.	35 to 44 yrs.	45 to 54 yrs.	55 to 64 yrs.	65 yrs. and older
Crash-involved	10,659,000	47,000	1,763,000	1,287,000	2,934,000	2,018,000	1,138,000	725,000	749,000
Percent male	62	64	62	63	64	60	62	64	63
Percent female	49	36	38	37	36	40	38	36	37
Percent alcohol-involved	5	6	4	6	6	4	5	4	1
Passengers injured or killed	1,018,000	296,000	194,000	104,000	153,000	95,000	58,000	47,000	70,000
Percent male	41	45	46	50	43	36	31	19	18
Percent female	59	55	54	50	57	64	69	81	83
Pedestrians injured or killed	92,000	32,000	8,000	6,000	15,000	10,000	7,000	6,000	9,000
Percent during day	64	78	50	50	47	50	65	50	80
Percent at night	36	22	50	50	53	50	35	50	20
Pedalcyclists injured or killed	67,000	29,000	9,000	7,000	12,000	4,000	3,000	1,000	1,000

Source of tables 1034 and 1035: Except as noted, U.S. National Highway Traffic Safety Administration, *General Estimates System,* annual, and unpublished data.

No. 1036. Cost of Owning and Operating an Automobile: 1980 to 1991

ITEM	Unit	1980	1985	1986	1987	1988	1989	1990	1991
Cost per mile [1]	Cents	27.95	27.20	29.59	32.64	33.40	38.20	40.96	43.60
Cost per 10,000 miles [1]	Dollars	2,795	2,720	2,959	3,264	3,341	3,820	4,096	4,364
Variable cost	Cents/mile	7.62	8.04	6.52	7.20	7.60	7.90	8.40	9.80
Gas and oil	Cents/mile	5.86	6.16	4.48	4.80	5.20	5.20	5.40	6.70
Maintenance	Cents/mile	1.12	1.23	1.37	1.60	1.60	1.90	2.10	2.20
Tires	Cents/mile	0.64	0.65	0.67	0.80	0.80	0.80	0.90	0.90
Fixed cost	Dollars	2,033	2,441	2,596	2,782	3,061	3,534	3,877	4,217
Insurance	Dollars	490	503	509	535	573	663	675	726
License and registration	Dollars	82	115	130	140	139	151	165	169
Depreciation	Dollars	1,038	1,253	1,320	1,506	1,784	2,094	2,357	2,543
Finance charge	Dollars	423	570	637	601	565	626	680	779

[1] Beginning 1985, not comparable to previous data.

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

No. 1037. Domestic Motor Fuel Consumption, by Type of Vehicle: 1970 to 1991

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

YEAR	FUEL CONSUMPTION					AVG. FUEL CONSUMPTION PER VEHICLE (gal.)			AVG. MILES PER GALLON		
	All vehicles (bil. gal.)	Avg. annual percent change [1]	Cars [2] (bil. gal.)	Buses [3] (bil. gal.)	Trucks [4] (bil. gal.)	Cars [2]	Buses [3]	Trucks [4]	Cars [2]	Buses [3]	Trucks [4]
1970	92.3	5.4	67.8	0.8	23.6	760	2,172	1,257	13.52	5.54	7.85
1975	109.0	2.5	76.4	1.1	31.4	716	2,279	1,217	13.52	5.75	8.99
1980	115.0	-5.9	71.9	1.0	41.9	591	1,926	1,243	15.46	5.95	9.54
1981	114.5	-0.4	71.0	1.1	42.2	576	1,938	1,219	15.94	5.92	9.59
1982	113.4	-0.9	70.1	1.0	42.1	566	1,756	1,191	16.65	5.93	9.80
1983	116.1	2.4	69.9	0.9	45.1	553	1,507	1,229	17.14	5.92	9.77
1984	118.7	2.3	68.7	0.8	49.0	536	1,359	1,308	17.83	5.85	9.83
1985	121.3	2.2	69.3	0.8	51.0	525	1,407	1,302	18.20	5.84	9.79
1986	125.2	3.2	71.4	0.9	52.9	526	1,463	1,320	18.27	5.84	9.81
1987	127.5	1.8	70.6	0.9	55.8	514	1,500	1,357	19.20	5.89	9.87
1988	130.1	2.0	71.9	0.9	57.2	509	1,496	1,345	19.95	5.93	10.16
1989	131.8	1.3	72.7	0.9	57.9	509	1,518	1,328	20.40	5.96	10.41
1990	130.8	-0.8	72.0	0.9	57.7	502	1,428	1,290	21.02	6.39	10.84
1991	128.6	-1.7	70.7	0.9	56.8	495	1,369	1,269	21.68	6.64	10.70

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

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

No. 1038. Household Motor Vehicle Transportation, by Vehicle Model Year: 1988

[Preliminary. Household vehicles include all motorized vehicles used for personal transportation, excluding motorcycles, mopeds, large trucks, and buses. The reporting unit for 1988 is all households which owned a vehicle at any time during 1988. Based on the Residential Transportation Energy Consumption Survey; subject to sampling variability. For composition of regions, see table 31]

REGION	Households with motor vehicles (mil.)	VEHICLES (millions)					MILES PER GALLON				
		Total	Model year				Average	Model year			
			1974 and earlier	1975 to 1980	1981 to 1985	1986 to 1989		1976 and earlier	1981 or 1982	1986	1988 or 1989
Total	81.3	147.5	13	29	35	23	18.3	12.3	20.7	21.9	22.1
Northeast	15.2	26.6	8	24	40	28	19.6	12.2	21.8	22.3	21.5
Midwest	20.4	37.8	11	32	35	22	18.2	12.2	20.7	21.5	23.0
South	26.3	50.6	12	29	34	24	18.0	12.0	19.7	21.8	21.9
West	17.3	32.5	21	29	30	20	18.0	12.7	21.5	22.3	22.3

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

No. 1039. Household Vehicles—Annual Mileage, Fuel Consumption, and Fuel Expenditures: 1988

[See headnote, table 1038]

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

[1] Includes only households with vehicles.

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

No. 1040. Motor Vehicle Travel, by Type of Vehicle, and by Speed: 1970 to 1991

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

YEAR	VEHICLE-MILES OF TRAVEL (bil.)				AVG. MILES PER VEHICLE (1,000)			MOTOR VEHICLE SPEED [2]				
	Total	Cars [1]	Buses	Trucks	Passenger vehicles		Trucks	Vehicles recorded (1,000) [3]	Avg. speed (miles per hour)	Percent of vehicles exceeding—		
					Cars [1]	Buses				55 mph	60 mph	65 mph
1970	1,110	920	4.5	186	10.0	12.0	9.9	200	63.8	87	69	44
1980	1,527	1,122	6.1	399	8.8	11.5	11.9	667	57.5	66	25	7
1983	1,653	1,207	5.2	441	9.1	8.9	12.0	7,856	59.1	74	41	15
1984	1,720	1,234	4.6	482	9.2	8.0	12.8	8,067	59.3	75	43	16
1985	1,774	1,270	4.9	500	9.2	8.2	12.7	8,449	59.5	75	44	17
1986	1,834	1,311	5.1	519	9.3	8.5	13.0	8,549	59.7	76	46	18
1987	1,921	1,365	5.3	551	9.6	8.8	13.4	7,992	59.7	74	46	19
1988	2,025	1,439	5.5	581	9.9	8.9	13.6	7,566	59.5	74	46	19
1989	2,096	1,488	5.7	603	10.1	9.0	13.8	7,488	60.1	77	49	22
1990	2,144	1,513	5.7	616	10.5	9.1	13.8	7,511	60.3	78	50	23
1991	2,172	1,534	5.7	624	10.7	9.1	13.9	7,594	59.6	75	48	22

[1] Includes motorcycles. [2] Represents speed on rural interstate highways. Beginning 1980, for year ending Sept. 30. [3] Citations issued for 55 mph violations.

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

No. 1041. Passenger Transit Industry—Summary: 1980 to 1991

[Includes Puerto Rico. Includes aggregate information for all transit systems in the United States. Except as noted, prior-to-1985 data exclude commuter railroad, automated guideway, urban ferry boat, and demand response, as well as most transit systems outside of urbanized areas. Nontransit services such as taxicab, school bus, unregulated jitney, sightseeing bus, intercity bus, and special application mass transportation systems (e.g., amusement parks, airports, island, and urban park ferries) are excluded. Beginning in 1985, only active vehicles are counted]

ITEM	Unit	1980	1985	1986	1987	1988	1989	1990	1991, prel.
Operating systems	Number	1,044	4,972	5,018	5,047	5,036	5,046	5,078	5,085
Motor bus systems [1]	Number	1,040	2,631	2,655	2,671	2,671	2,665	2,688	2,690
Publicly owned systems [1]	Number	576	1,435	(NA)	(NA)	(NA)	(NA)	1,580	(NA)
Passenger vehicles owned [2 3]	Number	75,388	94,368	98,709	96,127	97,209	92,293	92,961	93,232
Motor bus [2]	Number	59,411	64,258	66,218	63,017	62,572	58,919	58,714	57,865
Trolley bus	Number	823	676	680	671	710	725	832	919
Heavy rail [2]	Number	9,641	9,326	10,386	10,168	10,539	10,506	10,419	10,170
Light rail [2]	Number	1,013	717	697	766	831	755	913	1,058
Commuter rail	Number	4,500	4,035	4,440	4,686	4,649	4,472	4,415	4,550
Demand response	Number	(NA)	14,490	15,346	15,944	16,812	15,856	16,471	17,222
Total revenue	Mil. dol	6,510	12,195	13,342	14,091	14,537	14,985	16,053	16,810
Passenger revenue	Mil. dol	2,557	4,575	5,113	5,114	5,225	5,420	5,891	6,064
Other operating revenue [4]	Mil. dol	248	702	737	777	841	837	895	954
Operating assistance	Mil. dol	3,705	6,918	7,491	8,200	8,471	8,728	9,267	9,792
Federal	Mil. dol	1,094	940	941	955	901	937	970	945
Local [5]	Mil. dol	2,611	5,979	4,245	4,681	4,893	4,995	5,327	5,605
State [5]	Mil. dol	(NA)	(NA)	2,306	2,565	2,677	2,796	2,970	3,242
Total expense	Mil. dol	6,711	14,077	14,726	15,405	16,442	17,169	17,979	19,617
Operating expense	Mil. dol	6,247	12,381	12,952	13,472	14,287	14,972	15,742	16,785
Transportation	Mil. dol	3,248	5,655	5,690	5,790	6,052	6,275	6,654	6,834
Maintenance	Mil. dol	1,774	3,672	4,029	4,094	4,313	4,493	4,631	4,654
Administration	Mil. dol	1,224	2,505	2,748	2,869	3,078	3,251	3,450	3,622
Reconciling expense	Mil. dol	464	1,696	1,774	1,933	2,155	2,196	2,237	2,832
Capital expenditure, Federal	Mil. dol	2,787	2,510	3,138	2,475	2,521	2,590	2,380	2,371
Vehicle-miles operated [3]	Million	2,287	2,791	2,986	3,055	3,157	3,203	3,242	3,348
Motor bus	Million	1,677	1,863	2,002	2,079	2,097	2,109	2,130	2,182
Trolley bus	Million	13	16	15	15	15	15	14	14
Heavy rail	Million	385	451	476	490	517	532	537	525
Light rail	Million	18	17	17	18	21	21	24	28
Commuter rail	Million	179	183	189	189	202	210	213	217
Demand response	Million	(NA)	247	275	250	289	300	306	359
Passengers carried [3]	Million	8,567	8,636	8,777	8,735	8,666	8,931	8,799	8,643
Motor bus	Million	5,837	5,675	5,753	5,614	5,590	5,620	5,677	5,686
Trolley bus	Million	142	142	139	141	136	130	126	125
Heavy rail	Million	2,108	2,290	2,333	2,402	2,308	2,542	2,346	2,167
Light rail	Million	133	132	130	133	154	162	175	186
Commuter rail	Million	280	275	306	311	325	330	328	324
Demand response	Million	(NA)	59	63	64	73	70	68	72
Avg. revenue per passenger	Cents	29.8	53.0	58.3	58.5	60.3	60.7	66.9	70.2
Employees, number (avg.)	1,000	187	270	278	277	276	272	273	282
Payroll, employee	Mil. dol	3,281	5,843	6,119	6,324	6,675	6,898	7,226	7,490
Fringe benefits, employee	Mil. dol	1,353	2,868	3,126	3,267	3,529	3,737	3,986	4,056

NA Not available. [1] Includes systems with combined services including motor buses, heavy rail cars, light rail cars, trolley coaches, cable cars, and inclined plane cars. Beginning 1985, combined services also include commuter rail cars, urban ferry boats, vanpools, aerial tramways, automated guideways, and demand response vehicles. [2] Beginning 1985, includes active vehicles only. Includes other vehicles not shown separately. [3] Includes other not shown separately. [4] Includes other operating revenue, nonoperating revenue, and auxiliary income. [5] Prior to 1986, State and local combined.

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

No. 1042. Class I Intercity Motor Carriers of Passengers: 1975 to 1990

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

ITEM	Unit	1975	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Carriers reporting [1]	Number.	77	48	50	45	43	43	29	32	21	20	21
Number of employees, average	1,000	31	31	30	25	25	24	20	(NA)	(NA)	(NA)	(NA)
Compensation of employees	Mil. dol.	383	599	646	570	551	518	443	(NA)	(NA)	(NA)	(NA)
Operating revenue [2]	Mil. dol.	942	1,397	1,447	1,276	1,255	1,233	1,117	1,079	1,122	1,205	943
Passenger revenue [2]	Mil. dol.	651	947	969	876	861	836	765	751	825	890	738
Special bus revenue and other	Mil. dol.	291	215	229	180	180	184	155	165	155	165	90
Operating expenses	*Mil. dol.*	*880*	*1,318*	*1,416*	*1,283*	*1,254*	*1,168*	*1,082*	*1,081*	*1,059*	*1,133*	*1,015*
Net operating revenue	Mil. dol.	61	79	30	-7	1	65	35	-2	63	72	-72
Ordinary income:												
Before income taxes	Mil. dol.	83	107	35	16	53	65	50	-11	(NA)	(NA)	(NA)
After income taxes	Mil. dol.	56	90	37	26	43	53	36	-21	(NA)	12	-180
Passenger vehicles in service [2]	1,000	9.7	8.6	8.1	7.3	7.0	8.4	8.3	(NA)	(NA)	(NA)	(NA)
Vehicle-miles, passenger	Million.	835	781	717	591	585	567	495	(NA)	(NA)	(NA)	(NA)
Revenue passengers carried	Million.	147	134	112	94	89	88	74	82	55	54	43
Expense per vehicle-mile	Dollar	1.05	1.69	1.98	2.17	2.14	2.06	2.18	(NA)	(NA)	(NA)	(NA)

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

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

No. 1043. Intercity Bus Lines—Summary of Operations: 1970 to 1991

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991
Operating companies	Number.	1,000	950	1,330	(NA)	(NA)	(NA)	3,550	(NA)	3,628	(NA)	(NA)
Buses	1,000	22.0	20.5	21.4	20.1	20.1	19.1	18.4	(NA)	(NA)	23.5	20.6
Miles of highway served (Dec. 31) [1]	1,000	267	274	279	266	263	257	249	(NA)	(NA)	(NA)	(NA)
Employees (Dec. 31) [2]	1,000	50	47	49	44	43	41	39	42	45	41	41
Operating revenue, all services	Mil. dol.	901	1,172	1,943	1,914	1,898	1,838	1,717	(NA)	(NA)	(NA)	929
Operating expenses	Mil. dol.	812	1,103	1,811	1,896	1,839	1,781	1,669	(NA)	(NA)	(NA)	885
Net operating revenue [3]	Mil. dol.	89	69	132	18	59	57	48	(NA)	(NA)	(NA)	44

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

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

No. 1044. Warehousing Services—Revenues, Expenses, and Payroll: 1990 and 1991

[In millions of dollars]

SIC [1] code	KIND OF BUSINESS	OPERATING REVENUES		OPERATING EXPENSES		ANNUAL PAYROLL	
		1990	1991	1990	1991	1990	1991
42	Motor frgt. transport. and warehousing services	123,781	123,584	114,450	114,817	38,230	38,943
421	Trucking and courier services, except by air [2]	117,511	117,048	109,074	109,220	36,490	37,179
422	Public warehousing and storage	6,120	6,376	5,231	5,442	1,709	1,731
4212	Local trucking without storage	27,745	27,297	24,138	24,000	7,380	7,328
4213	Trucking, except local	68,962	68,516	65,738	65,642	20,709	20,724
4214	Local trucking with storage	4,083	3,992	3,856	3,805	1,370	1,349
4215	Courier services, except by air	16,721	17,243	15,342	15,773	7,031	7,778
4221	Farm product warehousing and storage	573	500	486	440	148	131
4222	Refrigerated warehousing	1,424	1,490	1,225	1,264	434	441
4225	General warehousing and storage	2,964	3,248	2,524	2,750	779	816
4226	Special warehousing and storage [3]	1,159	1,138	996	988	348	343

[1] Standard Industrial Classification. [2] Excludes private motor carriers that operate as auxiliary establishments to nontransportation companies and independent owner-operators with no paid employees. [3] Includes SIC 4224.

Source: U.S. Bureau of the Census, *Current Business Reports, 1991 Motor Freight Transportation and Warehousing Survey.*

No. 1045. Trucking Costs and Rates for Fresh Fruit and Vegetables: 1980 to 1991

[Dollars per box, except as indicated]

SELECTED ITEMS	1980	1984	1985	1986	1987	1988	1989	1990	1991
Truck costs for fleet operators [1] (dollars per mile)	0.97	1.15	1.17	1.14	1.17	1.18	1.23	1.31	1.27
Truck rates by commodity and origin/destination: [2]									
Lettuce [3], California to New York City	3.36	3.65	3.62	3.75	3.83	3.69	3.76	3.74	3.77
Citrus and vegetables, Southern California to New York City	2.77	3.18	3.06	3.16	3.23	3.14	3.20	3.23	3.22
Apples, Washington to New York City	3.09	3.19	3.20	3.21	3.28	3.30	3.31	3.36	3.36

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

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

No. 1046. Trucking Services—Operating Revenues, Operating Expenses, and Equipment, by Type of Carrier: 1985 to 1991

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

ITEM	ALL CARRIERS			SPECIALTY FREIGHT CARRIERS			GENERAL FREIGHT CARRIERS		
	1985	1990	1991	1985	1990	1991	1985	1990	1991
Operating revenues:									
Total [1]	86,858	117,511	117,048	30,435	32,835	31,918	56,423	84,676	85,130
Motor carrier	81,347	107,997	108,604	26,974	28,302	27,905	54,373	79,695	80,699
Local trucking	17,548	25,246	24,582	9,084	13,183	13,077	8,464	12,063	11,505
Intercity trucking	63,799	82,751	84,022	17,890	15,119	14,828	45,909	67,632	69,194
Operating expenses:									
Total	83,266	109,074	109,220	28,933	28,977	28,507	54,333	80,097	80,713
Annual payroll	26,722	36,490	37,179	7,600	8,242	8,123	19,122	28,248	29,056
Employer contributions to Social Security and other benefits	6,113	9,365	9,721	1428	1,937	1,881	4,685	7,428	7,840
Purchased fuels	6,825	8,647	8,719	2,191	1,653	1,667	4,634	6,994	7,052
Cost of purchased transportation	(NA)	19,630	19,321	(NA)	5,701	5,384	(NA)	13,929	13,937
Lease and rental payments	1,314	2,168	2,161	504	631	631	810	1,537	1,530
Cost of insurance	(NA)	3,898	3,998	(NA)	1,108	1,161	(NA)	2,790	2,837
Maintenance and repair costs	(NA)	6,133	6,133	(NA)	1,867	1,843	(NA)	4,266	4,290
Depreciation	4,193	5,603	5,632	1,596	1,623	1,596	2,597	3,980	4,036
Taxes and licenses	1,950	2,325	2,439	619	518	510	1,331	1,807	1,929
Other	(NA)	14,788	13,882	(NA)	5,690	5,701	(NA)	9,098	8,181
Equipment (1,000 units): [2]									
Trucks	201	226	231	94	100	100	(S)	126	131
Truck-tractors	461	525	524	167	111	108	302	414	416
Trailers, full and semi	1,055	1,179	1,191	246	214	205	765	965	986

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

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

No. 1047. Class I Intercity Motor Carriers of Property, by Carrier: 1980 to 1990

[See headnote, table 1042. Common carriers are carriers offering regular scheduled service. Contract carriers provide service at request of user. Minus sign (-) indicates loss]

ITEM	Unit	1980	1985	1989	1990	1980	1985	1989	1990
		COMMON CARRIER, GENERAL FREIGHT				COMMON CARRIER OTHER THAN GENERAL FREIGHT			
Carriers reporting	Number	298	237	192	191	441	397	337	322
Number of employees, average	1,000	413	376	461	465	101	76	84	87
Compensation of employees	Mil. dol.	9,803	10,217	12,854	13,556	1,931	1,783	2,105	2,236
Operating revenues	Mil. dol.	19,725	22,314	27,405	29,682	8,792	7,962	8,321	9,042
Intercity freight	Mil. dol.	19,480	22,080	27,289	29,517	8,339	7,664	8,024	8,762
Operating expenses	Mil. dol.	18,870	21,037	26,242	28,340	8,426	7,752	8,081	8,702
Ordinary income before taxes	Mil. dol.	701	1,198	988	1,146	230	123	117	198
Net income	Mil. dol.	−72	658	659	746	14	94	88	153
Total power units, intercity service	1,000	102	108	(NA)	(NA)	95	77	(NA)	(NA)
Trucks, tractors owned in operation, avg	1,000	73	82	(NA)	(NA)	33	29	(NA)	(NA)
Intercity vehicle-miles	Million	6,547	5,760	6,557	6,804	6,889	5,714	6,320	6,566
Tons of intercity revenue freight carried	Million	178	136	145	157	324	303	278	302
		CONTRACT CARRIER OTHER THAN GENERAL FREIGHT				CARRIERS OF HOUSEHOLD GOODS			
Carriers reporting	Number	69	64	77	87	28	40	36	36
Number of employees, average	1,000	14	22	29	34	10	11	12	13
Compensation of employees	Mil. dol.	336	630	893	1,082	157	240	276	296
Operating revenues	Mil. dol.	1,272	1,942	2,946	3,486	1,824	2,684	3,114	3,152
Intercity freight	Mil. dol.	1,172	1,792	2,693	3,209	1,676	2,388	2,703	2,702
Operating expenses	Mil. dol.	1,207	1,807	2,888	3,422	1,781	2,635	3,059	3,129
Ordinary income before taxes	Mil. dol.	48	103	15	3	74	79	41	12
Net income	Mil. dol.	28	69	3	−13	42	54	28	8
Total power units, intercity service	1,000	13	16	(NA)	(NA)	25	35	(NA)	(NA)
Trucks, tractors owned in operation, avg	1,000	7	11	(NA)	(NA)	1	1	(NA)	(NA)
Intercity vehicle-miles	Million	934	1,227	1,826	2,044	969	1,171	1,229	1,366
Tons of intercity revenue freight carried	Million	37	41	80	80	5	7	7	8

NA Not available.

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

No. 1048. Trucks—Percent Distribution, Operational Characteristics: 1977 to 1987

[See headnote, table 1049]

CHARACTERISTIC	1977	1982	1987	CHARACTERISTIC	1977	1982	1987
Total	**100.0**	**100.0**	**100.0**	Purchased used	50.0	51.5	50.1
				Leased [5]	2.4	2.8	2.6
Major use:				Fleet size: [6] 1	71.6	77.8	65.1
Agriculture [1]	17.0	12.2	8.5	2 to 5	16.3	10.9	24.9
Construction	6.7	11.2	10.0	6 to 19	6.6	5.3	5.4
Manufacturing	1.4	1.6	1.3	20 or more	5.5	6.0	4.6
Wholesale and retail trade	7.6	6.8	5.6	Truck-type:			
Personal transportation	54.4	56.7	65.7	Single-unit	96.8	95.7	96.3
All other	13.0	11.4	8.8	Combination	3.2	4.3	3.7
Body type:				Annual miles:			
Pickup and panel [2]	83.3	85.8	89.0	Less than 5,000	23.9	26.0	25.3
Platform and cattlerack	6.8	5.1	3.7	5,000 to 9,999	24.0	25.5	23.4
Van [3]	4.5	3.8	3.2	10,000 to 19,999	37.0	35.0	34.5
All other	5.5	5.2	4.0	20,000 to 29,999	9.2	8.4	10.7
Vehicle size: [4] Light	85.4	89.3	91.9	30,000 miles or more	5.9	5.0	6.1
Medium	6.0	3.5	2.3	Range of operation: [7]			
Light-heavy	3.1	2.4	1.7	Local	84.8	76.6	75.6
Heavy-heavy	5.5	4.8	4.1	Short-range	8.4	10.3	14.8
Year model:				Long-range	2.1	3.1	4.5
1 to 2 years old	17.1	8.9	17.2	Off-the-road [5]	4.7	10.0	5.1
3 to 4 years old	17.5	16.5	16.5	Fuel type:			
4 years or more	65.4	74.6	66.3	Gasoline	96.0	94.3	93.7
Vehicle acquisition:				Diesel and LPG	3.9	5.5	6.2
Purchased new	47.6	45.7	47.3	Not reported	-	0.2	0.1

- Represents zero. [1] Includes forestry and lumbering. [2] Also includes walk-in, minivan, station wagon, and utility trucks. [3] Includes multi-stop or walk-in. [4] See footnote 6, table 1049. [5] Includes not reported. [6] See footnote 8, table 1049. [7] See footnote 9, table 1049.

No. 1049. Trucks and Truck-Miles, by Vehicle and Operational Characteristics: 1987

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

ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)	ITEM	TRUCKS (1,000)		TRUCK-MILES (bil.)
	Total	Excl. pickups, panels [1]			Total	Excl. pickups, panels [1]	
Total	44,572	4,886	529.3	Range of operation: [9]			
Major use:				Local	33,685	3,027	350.9
Agriculture [2]	3,819	1,114	39.0	Short-range	6,612	920	108.3
Construction	4,479	997	63.7	Long-range	1,997	490	56.0
Manufacturing	581	241	12.5	Off-the-road [7]	2,278	449	14.1
Wholesale and retail trade	2,507	830	43.3	Products carried:			
Personal transportation	29,292	250	267.0	Farm products	1,558	769	16.2
All other	3,894	1,455	83.8	Building materials	1,141	640	18.6
Body type:				Mixed cargoes	686	325	21.1
Pickup and panel [3]	39,686	(X)	427	Craftsman's equipment	2,476	319	34.5
Platform [4]	1,668	1,668	25.0	Personal transportation	29,290	251	286.9
Van [5]	1,424	1,424	48.8	All other	9,422	2,583	152.0
All other	1,794	1,794	28.5	Hazardous materials carried:			
Vehicle size: [6] Light	40,947	1,356	439.3	Less than 10 percent of time	114	107	7.2
Medium	1,030	939	10.8	10-25 percent of time	28	19	1.2
Light-heavy	766	764	7.6	26-49 percent of time	18	15	0.7
Heavy-heavy	1,829	1,828	71.6	50-74 percent of time	25	24	1.0
Year model:				75-100 percent of time	94	89	2.8
1 to 2 years old	7,678	473	123.6	Not reported	61	25	1.7
3 to 4 years old	7,338	549	120.5				
4 years or more	29,543	3,864	285.1				
Vehicle acquisition:				Types of hazardous material: [10]			
Purchased new	21,087	2,138	292.3	Flammable liquids	198	175	9.3
Purchased used	22,325	2,511	215.2	Combustible liquids	95	95	5.8
Leased [7]	1,160	237	21.8	Corrosive liquids	70	66	4.6
Fleet size: [7] [8] 1	29,026	1,170	308.7	Flammable solids	29	28	2.3
2 to 5	11,094	1,547	122.9	Oxidizers	28	28	2.3
6 to 19	2,397	1,007	40.1	Flammable gas	26	26	2.2
20 or more	2,054	1,163	57.6	Nonflammable gas	26	26	2.2
Truck type:				Corrosive solids	21	21	1.9
Single-unit	42,917	3,587	462.0	Not reported	139	101	5.1
Combination	1,656	1,300	67.3				

X Not applicable. [1] Also excludes minivans, utilities, and station wagons. [2] Includes forestry and lumbering. [3] Also includes multi-stop, minivans, station wagon, and utilities, and station wagon. [4] Includes livestock truck. [5] Includes multi-stop or walk-in. [6] Average vehicle weight (empty-weight of the vehicle plus the average weight of load carried). Light=10,000 lbs. or less; medium=10,001-19,500 lbs.; light-heavy=19,501-26,000 lbs.; and heavy-heavy=26,001 lbs. or more. [7] Includes not reported. [8] A fleet size of one truck was assumed when no response was obtained. [9] Area in which usually operated. Local=less than 50 miles; short-range=50 to 200 miles; long-range=more than 200 miles. [10] Detail does not add to totals because items were not applicable or multiple responses were possible.

Source of tables 1048 and 1049: U.S. Bureau of the Census, *1987 Census of Transportation, TC87-T-52.*

No. 1050. Railroads, Class I—Summary: 1970 to 1991

[As of **Dec. 31**, or **calendar year** data, except as noted. Compiled from annual reports of class I railroads only, except where noted. Beginning 1983, financial data are not comparable with earlier years due to change in method of accounting for track and related structures. Minus sign (-) indicates deficit. See also *Historical Statistics, Colonial Times to 1970,* series Q 264-312, Q 319, Q 330, Q 356-378, and Q 400-401]

ITEM	Unit	1970	1980	1985	1986	1987	1988	1989	1990	1991
Class I line-hauling companies [1]	Number.	71	40	23	22	18	17	15	14	14
Employees [2]	1,000	566	459	302	276	249	236	228	216	206
Compensation	Mil. dol	5,711	11,318	10,563	9,900	9,373	9,301	9,043	8,654	8,695
Average per hour	Dollars	4.14	10.2	14.3	14.8	15.1	15.6	15.8	15.8	16.8
Average per year	Dollars	10,086	24,659	34,991	35,894	37,716	39,431	39,742	39,987	42,131
Mileage:										
Railroad line owned [3]	1,000	206	179	155	154	152	150	149	144	140
Railroad track owned [4]	1,000	336	290	257	256	254	251	249	239	234
Equipment:										
Locomotives in service	Number.	27,077	28,094	22,932	20,790	19,358	19,364	19,015	18,835	18,344
Average horsepower	1,000 lb	1,926	2,302	2,469	2,531	2,554	2,579	2,624	2,665	2,714
Cars in service:										
Passenger train	Number.	11,177	4,347	2,502	2,307	2,350	2,332	(NA)	(NA)	(NA)
Freight train [5]	1,000	1,784	1,711	1,422	1,339	1,288	1,239	1,224	1,212	1,190
Freight cars [6]	1,000	1,424	1,168	867	799	749	725	682	659	633
Average capacity [6]	Tons	67.1	78.5	83.2	84.1	85.0	86.4	87.6	87.5	87.9
Aggregate capacity [6]	Mil. tons	95.6	92.7	72.1	67.2	63.6	62.4	59.2	57.7	55.7
Box [6]	1,000	590	347	216	180	163	150	133	123	116
Gondola and hopper [6]	1,000	724	636	505	473	445	437	423	411	401
Other [6]	1,000	140	185	145	146	141	138	132	124	116
Income and expenses:										
Operating revenues	Mil. dol	11,992	28,258	27,586	26,204	26,622	27,934	27,956	28,370	27,845
Operating expenses	Mil. dol	11,478	26,355	25,225	24,896	23,878	24,811	25,038	24,652	28,061
Net revenue from operations	*Mil. dol*	*514*	*1,902*	*2,361*	*1,308*	*2,744*	*3,123*	*2,918*	*3,718*	*-216*
Income before fixed charges	Mil. dol	994	2,897	3,393	2,480	3,932	4,460	4,162	4,627	928
Provision for taxes [7]	Mil. dol	88	592	660	163	1,051	1,162	1,040	1,088	-157
Ordinary income	Mil. dol	227	1,129	1,788	747	1,965	2,286	2,009	1,961	-91
Net income	Mil. dol	227	1,129	1,882	544	2,055	2,382	2,203	1,977	-281
Net railway operating income	Mil. dol	486	1,339	1,746	507	1,756	1,980	1,894	2,648	-37
Total taxes [8]	Mil. dol	1,069	2,585	3,169	2,728	3,553	3,871	3,742	3,780	2,649
Indus. return on net investment	Percent	1.7	4.2	4.6	1.3	4.8	6.7	6.3	8.1	1.3
Gross capital expenditures	Mil. dol	1,351	3,238	4,485	3,645	3,076	3,546	3,865	3,591	3,439
Equipment	Mil. dol	993	2,280	965	893	657	1,027	1,171	996	1,068
Roadway and structures	Mil. dol	358	953	3,458	2,908	2,314	2,654	2,538	2,644	2,369
Other	Mil. dol	-	5	62	44	105	-135	156	-49	2
Balance sheet:										
Total property investment	Mil. dol	38,213	43,923	64,241	64,781	66,760	68,550	67,661	70,348	71,622
Accrued depreciation and amortization	Mil. dol	10,027	10,706	19,756	20,940	21,070	21,497	21,481	22,222	23,057
Net investment	Mil. dol	28,186	33,419	46,237	45,344	45,690	47,053	47,370	48,126	48,565
Shareholder's equity	Mil. dol	17,323	19,860	27,605	25,442	25,616	26,467	25,753	23,663	22,603
Net working capital	Mil. dol	-59	897	1,084	743	1,241	-190	-2119	-3505	-3,988
Cash dividends	Mil. dol	421	610	1,444	1,376	1,252	1,814	1,910	2,074	915
AMTRAK passenger traffic:										
Passenger revenue	Mil. dol	(NA)	(NA)	604.9	633.6	681.1	784.2	893.0	941.9	962.3
Revenue passengers carried	1,000	(NA)	21,303	20,945	20,165	20,727	21,490	21,394	22,383	21,693
Revenue passenger miles	Million	(NA)	4,645	4,977	5,015	5,368	5,686	5,912	6,125	6,249
Averages:										
Revenue per passenger	Dollars	(NA)	(NA)	28.9	31.4	32.9	36.5	41.8	42.1	44.4
Revenue per passenger mile	Cents	(NA)	(NA)	12.2	12.6	12.7	13.8	15.1	15.4	15.4
Trip per passenger	Miles	(NA)	218.1	237.6	248.7	259.0	264.6	276.3	273.7	228.0
Freight service:										
Freight revenue	Mil. dol	10,922	26,200	26,688	25,344	25,797	27,092	27,059	24,471	26,949
Per ton-mile	Cents	1.4	2.8	3.0	2.9	2.7	2.7	2.7	2.7	2.6
Per ton originated	Dollar	7.7	17.7	20.2	19.4	18.8	19.0	19.3	19.3	19.5
Revenue-tons originated	Million	1,485	1,492	1,320	1,087	1,372	1,430	1,402	1,425	1,383
Revenue-tons carried	Million	2,616	2,434	1,985	1,938	1,984	2,045	1,988	2,024	1,987
Tons carried one mile	Billion	765	919	877	868	944	996	1,014	1,034	1,039
Average miles of road operated	1,000	209	179	161	155	147	141	136	133	130
Revenue ton-miles per mile of road	1,000	3,652	5,133	5,446	5,587	6,395	7,052	7,373	7,763	8,001
Revenue per ton-mile	Cents	1.428	3	3	3	3	3	3	3	3
Train miles	Million	427	428	347	347	361	379	382	380	375
Net ton-miles per train-mile [9]	Number	1,820	2,175	2,574	2,552	2,644	2,662	2,683	2,755	2,796
Net ton-miles per loaded car-mile [9]	Number	44.9	63.5	62.7	63.2	64.0	65.5	67.0	69.1	71.6
Train-miles per train-hour	Miles	20.1	18.2	21.9	22.5	22.2	21.5	23.0	23.7	23.7
Haul per ton, U.S. as a system	Miles	490	616	664	664	688	697	723	726	751
Accident: [10]										
Persons killed	Number	2,255	1,417	1,036	1,091	1,165	1,199	1,324	1,297	1,194
Persons injured	Number	21,327	62,246	34,304	26,923	26,033	27,054	26,715	25,143	23,468

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

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

No. 1051. Railroads, Class I-Cars of Revenue Freight Loaded, 1970 to 1991, and by Commodity Group, 1990 and 1991

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

YEAR	CARLOADS		COMMODITY GROUP	CARLOADS		COMMODITY GROUP	CARLOADS	
	Total	Piggy-back		1990	1991		1990	1991
1970	27,160	1,450	Coal	6,296	6,137	Metals and products	454	442
1975	23,217	1,308	Metallic ores	506	491	Stone, clay, and glass products	489	446
1980	22,598	1,661	Chemicals, allied products	1,415	1,402	Crushed stone, gravel, sand	711	614
1985	19,574	2,863	Grain	1,429	1,374	Nonmetalic minerals, n.e.c	459	431
1987	21,133	3,294	Motor vehicles and equipment	882	797	Waste and scrap materials	414	392
1988	16,422	(NA)	Pulp, paper, allied products	485	471	Lumber, wood products, n.e.c. [1]	301	268
1989	16,030	(NA)	Primary forest products	410	373	Coke	281	244
1990	16,177	(NA)	Food and kindred prod., n.e.c.	448	456	Petroleum product	255	249
1991	15,526	(NA)	Grain mill products	520	513	All other carloads	423	426

NA Not available. [1] Excludes furniture.

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

No. 1052. Railroads, Class I Line-Haul-Revenue Freight Originated, by Commodity Group: 1970 to 1991

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

COMMODITY GROUP	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991
Carloads (1,000) [1]	**27,015**	**22,930**	**22,223**	**20,946**	**19,501**	**19,587**	**20,602**	**21,600**	**21,226**	**21,401**	**20,868**
Coal	5,296	4,844	5,789	6,061	5,684	5,433	5,430	5,621	5,672	5,912	5,683
Farm products	2,374	1,873	1,866	1,757	1,494	1,602	1,907	1,977	1,781	1,689	1,605
Chemicals, allied products	1,576	1,313	1,322	1,312	1,296	1,287	1,410	1,497	1,486	1,531	1,556
Food and kindred products	2,706	2,154	1,767	1,234	1,224	1,276	1,326	1,318	1,284	1,307	1,316
Nonmetallic minerals [2]	2,204	1,895	1,474	1,204	1,196	1,113	1,188	1,290	1,254	1,202	1,075
Transportation equipment	1,059	1,135	1,004	1,141	1,202	1,148	1,085	1,160	1,141	1,091	1,068
Lumber and wood products [3]	2,048	1,615	1,384	1,051	948	965	986	910	843	780	716
Pulp, paper, allied products	1,197	1,015	954	741	703	672	561	646	615	611	616
Petroleum and coal products	699	787	596	529	491	477	520	568	561	573	533
Stone, clay, and glass products	1,231	906	776	576	551	530	559	577	565	539	479
Metallic ores	1,602	1,338	1,258	1,001	511	508	494	582	523	508	499
Primary metal products	1,486	796	756	487	449	389	428	479	452	477	469
Waste and scrap materials	805	744	632	480	429	402	440	471	444	439	433
Machinery, exc. electrical	200	156	77	40	35	31	33	40	38	39	39
Fabricated metal products [4]	398	244	72	37	31	26	24	26	27	31	34
Tons (mil.) [1]	**1,485**	**1,395**	**1,492**	**1,429**	**1,320**	**1,306**	**1,372**	**1,429**	**1,403**	**1,425**	**1,383**
Coal	405	408	522	567	538	518	523	543	551	579	560
Farm products	134	134	156	151	127	136	163	170	154	147	144
Chemicals, allied products	92	91	108	107	106	106	116	123	123	126	127
Nonmetallic minerals [2]	163	151	125	108	108	101	109	115	111	109	99
Food and kindred products	110	100	92	72	74	78	81	81	79	81	83
Lumber and wood products [3]	102	89	86	70	63	65	67	62	57	53	48
Metallic ores	127	106	105	86	47	46	45	52	47	47	45
Stone, clay, and glass products	71	57	54	45	44	42	44	46	47	44	39
Petroleum and coal products	36	46	38	35	33	33	35	39	39	40	37
Primary metal products	82	51	53	36	34	30	33	38	36	38	37
Pulp, paper, allied products	43	41	42	38	36	36	36	35	34	33	33
Waste and scrap materials	40	38	34	29	26	25	28	30	28	28	27
Transportation equipment	24	27	24	26	27	26	24	25	24	23	22
Machinery, exc. electrical	5	4	2	1	1	1	1	1	1	1	1
Fabricated metal products [4]	11	8	2	1	1	1	1	1	1	1	1
Gross revenue (mil. dol.) [1]	**11,388**	**15,899**	**26,938**	**29,866**	**28,225**	**27,186**	**27,657**	**29,529**	**29,328**	**29,775**	**29,319**
Coal	1,381	2,146	4,956	6,965	6,556	6,089	6,097	6,430	6,581	6,954	6,903
Chemicals, allied products	1,137	1,681	2,946	3,360	3,342	3,342	3,477	3,795	3,788	3,933	4,043
Transportation equipment	734	1,283	1,917	2,859	3,110	2,997	2,866	3,218	3,269	3,100	2,633
Farm products	1,068	1,472	2,801	2,483	1,977	2,007	2,246	2,534	2,444	2,422	2,332
Food and kindred products	1,363	1,822	2,837	2,309	2,256	2,192	2,171	2,198	2,128	2,188	2,254
Pulp, paper, allied products	730	977	1,652	1,762	1,641	1,572	1,542	1,540	1,514	1,486	1,502
Lumber and wood products [3]	832	1,066	1,543	1,611	1,525	1,563	1,660	1,626	1,500	1,390	1,282
Primary metal products	813	848	1,332	955	872	787	863	1,013	972	979	977
Stone, clay, and glass products	512	651	1,025	1,024	960	907	914	965	960	931	878
Petroleum and coal products	305	573	865	913	861	800	809	903	917	918	888
Nonmetallic minerals [2]	409	596	948	997	949	839	854	890	868	885	824
Waste and scrap materials	232	359	513	496	446	425	474	526	492	504	515
Metallic ores	333	468	597	567	403	375	348	415	397	408	400
Machinery, exc. electrical	148	200	176	81	72	58	57	63	66	67	62
Fabricated metal products [4]	210	221	110	57	48	40	37	38	38	42	48

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

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

No. 1053. Railroad Freight—Producer Price Indexes: 1970 to 1992

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

COMMODITY	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total railroad freight	**29.1**	**45.3**	**75.9**	**99.3**	**99.9**	**100.7**	**100.1**	**104.8**	**106.4**	**107.5**	**109.3**	**109.9**
Coal	26.9	44.0	75.8	99.9	100.0	100.7	100.1	104.3	105.3	104.2	105.2	105.9
Farm products	29.7	45.2	75.6	98.7	99.0	99.6	99.3	105.5	108.5	110.4	111.4	111.1
Food products	28.9	44.8	75.2	99.1	100.0	99.9	98.6	103.1	103.9	105.4	108.1	108.7
Metallic ores	26.4	43.2	74.5	99.4	100.2	100.5	99.0	103.9	105.8	106.5	106.7	106.6
Chemicals or allied products	30.0	46.5	75.6	98.7	100.1	101.2	100.8	106.9	110.0	111.7	113.5	115.6
Nonmetallic minerals	25.4	40.5	72.2	98.9	100.1	101.6	101.1	106.1	108.3	111.7	115.9	117.7
Wood or lumber products	28.3	42.8	72.7	99.7	100.0	100.9	100.4	105.3	105.9	107.5	108.6	108.8
Transportation equipment	31.7	50.3	81.7	99.8	100.0	100.8	99.3	103.4	106.4	107.5	109.7	110.8
Pulp, paper, or allied products	31.5	47.1	76.7	99.9	100.0	101.0	100.6	104.0	105.1	108.0	111.5	111.8
Primary metal products	29.9	47.8	77.8	99.7	99.7	100.2	99.7	108.8	112.3	113.1	116.1	117.5
Clay, concrete, glass, or stone products	26.9	43.0	74.2	98.8	100.0	102.2	102.2	107.5	110.5	114.1	117.1	116.5

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

No. 1054. Petroleum Pipeline Companies—Characteristics: 1975 to 1991

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

ITEM	Unit	1975	1980	1985	1986	1987	1988	1989	1990	1991
Miles of pipeline, total	1,000	171	173	171	170	168	171	169	168	172
Gathering lines	1,000	40	36	35	34	35	34	33	32	31
Trunk lines	1,000	130	136	136	136	133	136	135	136	141
Total deliveries	Mil. bbl.	9,391	10,600	10,745	11,002	11,194	11,484	11,281	11,378	11,496
Crude oil	Mil. bbl.	5,729	6,405	6,239	6,286	6,278	6,509	6,435	6,563	6,685
Products	Mil. bbl.	3,662	4,195	4,506	4,716	4,917	4,974	4,847	4,816	4,811
Total trunk line traffic	Bil. bbl-miles	2,892	3,405	3,342	3,467	3,524	3,619	3,505	3,500	3,470
Crude oil	Bil. bbl-miles	1,551	1,948	1,842	1,893	1,932	1,970	1,918	1,891	1,899
Products	Bil. bbl-miles	1,341	1,458	1,500	1,573	1,592	1,649	1,587	1,609	1,571
Carrier property value	Mil. dol.	10,740	19,752	21,605	22,384	21,353	24,332	24,638	25,828	26,943
Operating revenues	Mil. dol.	1,869	6,356	7,461	7,287	7,057	6,861	6,512	7,149	6,798
Net income	Mil. dol.	456	1,912	2,431	2,051	2,475	2,505	2,227	2,340	1,788

Source: PennWell Publishing Co., Tulsa, OK, *Oil & Gas Journal*, November 25, 1991, and earlier issues (copyright).

No. 1055. Major Interstate Natural Gas Pipeline Companies—Summary: 1983 to 1990

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

ITEM	Unit	1983	1984	1985	1986	1987	1988	1989	1990
Sales	Tril. cu. ft.	12.9	13.2	11.3	7.8	6.5	6.4	5.6	4.5
Residential	Tril. cu. ft.	0.3	0.3	0.3	0.2	0.2	0.3	0.1	0.2
Commercial, industrial	Tril. cu. ft.	1.0	1.2	1.1	0.5	0.4	0.5	0.5	0.4
For resale	Tril. cu. ft.	11.6	11.6	9.9	7.1	5.8	5.6	4.9	3.9
Operating revenues	Mil. dol	56,792	56,326	49,106	33,859	27,565	27,501	25,895	22,574
From sales [1]	Mil. dol	53,710	52,529	44,996	29,508	22,942	22,512	19,786	15,981
Residential	Mil. dol	1,725	1,927	1,879	1,122	1,094	1,553	819	912
Commercial, industrial	Mil. dol	4,233	5,180	4,466	1,909	1,464	1,544	1,452	1,272
For resale	Mil. dol	47,661	45,268	38,545	26,413	20,351	19,420	17,505	13,791
From transportation of gas of others	Mil. dol	1,787	1,923	2,272	3,027	3,622	4,059	4,959	5,505
Other	Mil. dol	1,296	1,874	1,838	1,325	1,002	929	950	1,088
Operation, maintenance expenses	Mil. dol	49,391	48,411	42,528	27,460	21,794	22,742	20,829	17,446
Production	Mil. dol	43,516	42,407	36,739	22,208	16,955	17,625	15,257	12,124
Storage	Mil. dol	441	415	418	420	409	436	458	416
Transmission	Mil. dol	3,729	3,760	3,409	2,984	2,598	2,589	2,589	2,720
Distribution	Mil. dol	131	131	132	80	80	127	94	112
Administrative, general, and other	Mil. dol	1,576	1,697	1,830	1,768	1,752	1,966	2,430	2,074
Pipeline mileage:									
Transmission lines	1,000	176.7	183.4	189.7	184.6	181.2	191.6	194.1	195.5
Field lines	1,000	63.7	65.2	69.6	64.5	62.9	55.5	55.1	54.0
Storage	1,000	6.5	4.6	4.8	4.6	4.3	4.8	4.8	5.0

[1] Includes other ultimate customers not shown separately.

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

Transportation—Air and Water

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

Principal sources of these data are the annual *FAA Statistical Handbook of Aviation* issued by the Federal Aviation Administration (FAA); the annual *Waterborne Commerce of the United States* issued by the Corps of Engineers of the Department of the Army; the monthly and annual issues of *U.S. Waterborne Exports and General Imports,* and the annual *Vessel Entrances and Clearances,* and the monthly *Highlights of U.S. Export and Import Trade,* issued by the Bureau of the Census. In addition, the Bureau of the Census in its commodity transportation survey (part of the census of transportation, taken every 5 years, for years ending in "2" and "7") provides data on the type, weight, and value of commodities shipped by manufacturing establishments in the United States, by means of transportation, origin, and destination.

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

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

In Brief

SCHEDULED AIR CARRIERS

Revenue passengers enplaned:

1983	*319 million*
1991	*452 million*

Net profit:

1983	*-$188 million*
1991	*-$1,870 million*

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

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

and communications equipment, and the development of general aviation.

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

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

Air carriers and service.—The CAB previously issued "certificates of public convenience and necessity" under Section 401 of the Federal Aviation Act of 1958 for scheduled and nonscheduled (charter) passenger services and cargo services. It also issued certificates under Section 418 of the Act to cargo air carriers for domestic all-cargo service only. The DOT Office of the Secretary now issues the certificates under a "fit, willing, and able" test of air carrier operations. Carriers operating only 60 seat or less aircraft are given exemption authority to carry passengers, cargo, and mail in scheduled and nonscheduled service under Part 298 of the DOT (formerly CAB) regulations. Exemption authority carriers who offer scheduled passenger service to an essential air service point must meet the "fit, willing, and able" test.

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

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

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

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

No. 1056. U. S. Scheduled Airline Industry—Summary: 1983 to 1991

[**For calendar years or Dec. 31.** For domestic and international operations. Covers carriers certificated under Section 401 of the Federal Aviation Act. Minus sign (-) indicates loss]

ITEM	Unit	1983	1984	1985	1986	1987	1988	1989	1990	1991
SCHEDULED SERVICE										
Revenue passengers enplaned	Mil.	318.6	344.7	382.0	418.9	447.7	454.6	453.7	465.6	452.2
Revenue passenger miles	Bil.	281.8	305.1	336.4	366.5	404.5	423.3	432.7	457.9	447.8
Available seat miles	Bil.	464.5	515.3	547.8	607.4	648.7	676.8	684.4	733.4	715.0
Revenue passenger load factor	Percent	60.7	59.2	61.4	60.3	62.3	62.5	63.2	62.4	62.6
Mean passenger trip length [1]	Miles	884	885	881	875	903	931	954	984	990
Freight and express ton miles	Mil.	6,092.9	6,566.6	6,030.5	7,344.1	8,260.3	9,632.2	10,275.0	10,546.3	10,204.9
Aircraft departures	1,000	5,033.9	5,448.2	5,835.5	6,427.0	6,581.3	6,699.6	6,622.1	6,923.6	6,781.6
FINANCES										
Total operating revenue [2]	Mil. dol.	38,954	43,825	46,664	50,525	56,986	63,749	69,316	76,142	75,114
Passenger revenue	Mil. dol.	32,745	36,939	39,236	40,056	44,940	50,296	53,802	58,453	56,982
Freight and express revenue	Mil. dol.	2,593	2,859	2,681	5,628	6,398	7,478	6,893	5,432	5,516
Mail revenue	Mil. dol.	653	712	890	838	923	972	955	970	956
Charter revenue	Mil. dol.	1,075	1,112	1,280	1,269	1,612	1,698	2,052	2,877	3,783
Total operating expense	Mil. dol.	38,643	41,674	45,238	49,202	54,517	60,312	67,505	78,054	76,837
Operating profit	Mil. dol.	310	2,152	1,426	1,323	2,469	3,437	1,811	-1,912	-1,723
Interest expense	Mil. dol.	1,482	1,540	1,588	1,693	1,695	1,846	1,944	1,978	1,774
Net profit	Mil. dol.	-188	825	863	-235	593	1,686	128	-3,921	-1,870
Revenue per passenger mile	Cents	11.6	12.1	11.7	10.9	11.1	11.9	12.4	12.8	12.7
Rate of return on investment	Percent	6.0	9.9	9.6	4.9	7.2	10.8	6.3	-6.0	-0.5
Operating profit margin	Percent	0.8	4.9	3.1	2.6	4.3	5.4	2.6	-2.5	-2.3
Net profit margin	Percent	-0.5	1.9	1.8	-0.5	1.0	2.6	0.2	-5.1	-2.5
EMPLOYEES										
Total	1,000	329	345	355	422	457	481	507	546	534
Pilots, copilots, and other flight personnel	1,000	35	37	40	46	51	52	52	56	57
Flight attendants	1,000	56	60	63	68	73	76	78	83	82
Mechanics	1,000	40	43	43	48	51	55	57	61	59
Aircraft and traffic servicing personnel	1,000	95	101	101	180	199	212	225	252	237
Other	1,000	103	104	108	80	84	86	95	94	98

[1] For definition of mean, see Guide to Tabular Presentation. [2] Includes other types of revenues, not shown separately.

Source: Air Transport Association of America, Washington, DC, *Air Transport*, annual, and *Air Transport, Facts and Figures*, annual.

No. 1057. Airline Cost Indexes: 1980 to 1991

[Covers U.S. major and national service carriers. Major carriers have operating revenues of $1 billion or more; nationals have operating revenues from $75 million to $1 billion. Minus sign (-) indicates decrease]

ITEM	INDEX (1982=100)									PERCENT DISTRIBUTION OF CASH OPERATING EXPENSES [1]			
	1980	1984	1985	1986	1987	1988	1989	1990	1991	1980	1985	1990	1991
INDEX													
Composite	86.3	102.8	103.1	96.6	98.4	102.4	109.0	117.0	119.6	100.0	100.0	100.0	100.0
Labor	84.8	108.0	111.1	108.8	110.2	115.0	118.4	121.1	127.6	35.1	34.9	32.6	33.7
Interest [2]	88.7	109.0	105.5	100.8	97.5	99.6	111.5	107.3	88.3	2.9	3.5	2.5	2.3
Fuel	91.6	86.3	81.4	56.4	56.8	54.2	61.2	78.7	68.9	29.7	22.3	17.6	14.8
Passenger food	94.3	106.5	102.0	102.4	105.6	111.9	122.8	132.6	141.4	2.9	3.2	3.6	3.9
Advertising and promotion	69.5	100.0	99.8	103.4	90.9	96.9	105.0	107.6	97.9	1.7	2.3	2.1	1.9
Landing fees	90.0	101.4	101.2	112.6	121.5	129.1	137.1	148.1	161.9	1.7	1.7	1.9	2.0
Passenger traffic commissions	77.3	116.7	117.6	119.5	128.9	148.3	163.4	176.8	193.5	4.8	7.4	9.8	10.8
All other	85.6	108.7	112.7	115.7	119.3	123.9	129.4	134.7	139.7	21.3	24.6	29.9	30.6
PERCENT CHANGE [3]													
Composite	23.3	1.0	0.3	-6.3	1.9	4.1	6.4	7.3	2.2	(X)	(X)	(X)	(X)
Labor	10.0	0.2	2.9	-2.1	1.3	4.4	3.0	2.3	5.4	(X)	(X)	(X)	(X)
Interest [2]	16.9	5.1	-3.2	-4.5	-3.3	2.2	11.9	-3.8	-17.7	(X)	(X)	(X)	(X)
Fuel	55.8	-4.6	-5.7	-30.7	0.7	-4.6	12.9	28.6	-12.5	(X)	(X)	(X)	(X)
Passenger food	11.9	2.8	-4.2	0.4	3.1	6.0	9.7	8.0	6.6	(X)	(X)	(X)	(X)
Advertising and promotion	24.3	-1.9	-0.2	3.6	-12.1	6.6	8.4	2.5	-9.0	(X)	(X)	(X)	(X)
Landing fees	9.6	1.1	-0.2	11.3	7.9	6.3	6.2	8.0	9.3	(X)	(X)	(X)	(X)
Passenger traffic commissions	40.0	9.4	0.8	1.6	7.9	15.1	10.2	8.2	9.4	(X)	(X)	(X)	(X)
All other	9.3	4.5	3.7	2.7	3.1	3.9	4.4	4.1	3.7	(X)	(X)	(X)	(X)

X Not applicable. [1] Total operating expenses plus interest on long term debt, less depreciation and amortization. [2] Interest on debt. [3] Change from immediate prior year.

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

No. 1058. Aircraft in Operation and Aircraft Age, by Type of Aircraft: 1983 to 1989

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

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

X Not applicable. [1] For definition of mean, see Guide to Tabular Presentation. [2] No longer in production.
Source: AVMARK, Arlington, VA. Compiled from data by the U.S. Dept. of Transportation and Aviation Information Services Limited, London, England, *The World's Jet and Turboprop Airliner Fleet*.

No. 1059. Net New Firm Orders Booked for U.S. Civil Jet Transport Aircraft: 1985 to 1992

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

TYPE OF AIRCRAFT AND CUSTOMER	1985	1986	1987	1988	1989	1990	1991	1992
Total number [1]	**468**	**332**	**519**	**956**	**1,015**	**670**	**280**	**231**
U.S. customers	242	134	217	404	507	259	36	82
Foreign customers	226	198	302	552	508	411	244	149
Boeing 737, total	253	106	234	311	397	189	75	91
U.S. customers	146	45	105	173	216	38	-8	43
Foreign customers	107	61	129	138	181	151	83	48
Boeing 747, total	37	68	61	57	57	153	48	41
U.S. customers	13	6	15	22	4	24	-5	-
Foreign customers	24	62	46	35	53	129	53	41
Boeing 757, total	51	21	44	186	190	66	80	7
U.S. customers	39	11	18	101	137	33	42	29
Foreign customers	12	10	26	85	53	33	38	-22
Boeing 767, total	10	22	42	87	138	60	58	20
U.S. customers	4	3	11	32	40	23	28	10
Foreign customers	6	19	31	55	98	37	30	10
Boeing 777, total	-	-	-	-	-	34	52	36
U.S. customers	-	-	-	-	-	34	-	-
Foreign customers	-	-	-	-	-	-	52	36
McDonnell Douglas MD-11, total	-	-	29	59	38	52	-31	1
U.S. customers	-	-	2	11	17	16	-26	4
Foreign customers	-	-	27	48	21	36	-5	-3
McDonnell Douglas MD-80/90, total	114	112	105	254	195	116	-2	35
U.S. customers	37	68	65	65	93	91	5	-4
Foreign customers	77	44	40	189	102	25	-7	39
Total value	**14,811**	**13,948**	**18,737**	**39,806**	**47,470**	**45,485**	**23,351**	**16,640**
U.S. customers	7,869	3,394	6,999	16,308	20,304	14,828	2,144	3,200
Foreign customers	6,942	10,554	11,738	23,498	27,166	30,657	21,207	13,440

- Represents zero. [1] Includes types of aircraft not shown separately.
Source: Aerospace Industries Association of America, Washington, DC, Research Center, Statistical Series 23.

No. 1060. Top 10 Airports—Traffic Summary: 1991

[In thousands, except percent change. For calendar year. Airports ranked by revenue passengers enplaned, 1991. For scheduled carriers only; excludes charter-only carriers]

AIRPORT	Rank	AIRCRAFT DEPARTURES		REVENUE PASSENGERS ENPLANED		ENPLANED REVENUE TONS		
		Total [1]	Completed scheduled	Total	Percent change, 1990-1991	Total	Freight and express	U.S. mail
All airports [2]	(X)	**6,545**	**6,489**	**428,319**	**53.5**	**6,418**	**4,855**	**1,563**
Atlanta, Hartsfield International	4	206	204	17,691	-11.5	226	138	88
Chicago, O'Hare	1	329	328	25,872	34.6	420	289	131
Dallas/Ft. Worth International	2	269	268	22,656	117.2	225	139	86
Denver, Stapleton International	6	151	151	12,314	28.1	111	74	37
Detroit, Metro Wayne	9	132	131	9,618	91.4	85	51	34
Los Angeles International	3	199	197	18,303	29.3	405	343	62
Newark International	8	128	127	9,737	131.5	196	161	35
Phoenix, Sky Harbor International	7	145	144	10,972	224.6	66	43	23
San Francisco International	5	168	167	14,026	49.2	240	188	52
St. Louis International	10	160	159	9,352	75.8	79	47	32

X Not applicable. [1] Includes completed scheduled and unscheduled. [2] Includes other airports, not shown separately.
Source: U.S. Federal Aviation Administration and Research and Special Programs Administration, *Airport Activity Statistics*, annual.

No. 1061. Domestic Airline Markets: 1991

[**For calendar year.** Data are for the 30 top markets and include all commercial airports in each metro area. Data do not include connecting passengers]

MARKET	Passengers	MARKET	Passengers
New York to—from Los Angeles	2,966,690	Chicago to—from Detroit	1,344,280
Los Angeles to—from San Francisco	2,857,840	New York to—from West Palm Beach	1,256,930
New York to—from Boston	2,472,140	Honolulu to—from Kona, Hawaii	1,211,850
New York to—from Washington	2,453,900	New York to—from Atlanta	1,193,110
New York to—from Miami	2,340,480	Chicago to—from Los Angeles	1,166,150
New York to—from Chicago	2,326,740	San Francisco to—from San Diego	1,124,260
Dallas/Ft. Worth to—from Houston	2,140,380	Honolulu to—from Hilo, Hawaii	1,036,590
Honolulu to—from Kahului, Maui	2,121,090	New York to—from Dallas/Ft. Worth	997,020
New York to—from San Francisco	2,024,090	Boston to—from Washington	978,370
New York to—from Orlando	1,702,570	Chicago to—from St. Louis	975,900
New York to—from San Juan	1,635,320	San Francisco to—from Honolulu	899,660
Honolulu to—from Lihue, Kauai	1,632,370	Phoenix to—from San Diego	891,650
Los Angeles to—from Phoenix	1,541,950	New York to—from Tampa	879,950
New York to—from Ft. Lauderdale	1,540,760	Phoenix to—from Las Vegas	878,750
Los Angeles to—from Honolulu	1,378,430	Dallas/Ft. Worth to—from San Antonio	870,030

Source: Air Transport Association of America, Washington, DC, *Air Transport 1992.*

No. 1062. Worldwide Airline Fatalities: 1970 to 1991

[For scheduled air transport operations]

YEAR	Fatal accidents	Passenger deaths	Death rate [1]	YEAR	Fatal accidents	Passenger deaths	Death rate [1]
1970	29	700	0.29	1981	21	362	0.06
1971	32	884	0.35	1982	26	764	0.13
1972	41	1,209	0.42	1983	20	809	0.13
1973	29	862	0.27	1984	16	223	0.03
1974	21	1,299	0.38	1985	22	1,066	0.15
1975	20	467	0.13	1986 [2]	22	546	0.06
1976	24	734	0.19	1987 [2]	26	901	0.09
1977	25	516	0.12	1988 [2]	28	729	0.07
1978	31	754	0.15	1989 [2]	27	817	0.05
1979	31	877	0.16	1990 [2]	25	495	0.03
1980	22	814	0.14	1991 [2 3]	30	653	0.04

[1] Rate per 100 million passenger miles flown. [2] Includes former USSR which began reporting in 1986. [3] Preliminary.
Source: International Civil Aviation Organization, Montreal, Canada, *Civil Aviation Statistics of the World,* annual.

No. 1063. Aircraft Accidents and Hijackings: 1975 to 1991

[**For years ending December 31**]

ITEM	Unit	1975	1980	1985	1987	1988	1989	1990	1991
Aircraft accidents: [1] General aviation [2]	Number	3,995	3,590	2,737	2,464	2,369	2,216	2,187	2,143
Fatal	Number	633	618	497	431	454	424	435	414
Rate per 100,000 aircraft hours flown	Rate	2.20	1.69	1.62	1.47	1.53	1.4	1.41	1.35
Fatalities	Number	1,252	1,239	951	807	789	759	745	746
Air carrier, all services [3]	Number	(NA)	19	22	36	29	29	27	27
Fatal	Number	(NA)	1	7	5	3	11	6	4
Rate per 1,000,000 aircraft miles flown	Rate	(X)	-	0.002	0.001	-	0.002	0.001	0.001
Fatalities	Number	(NA)	1	526	232	285	278	39	62
Air carrier, scheduled services	Number	29	15	17	32	28	24	25	26
Fatal	Number	2	-	4	4	3	8	6	4
Rate per 1,000,000 aircraft miles flown	Rate	0.001	0.000	0.001	0.001	0.001	0.002	0.001	0.001
Fatalities	Number	122	-	197	231	285	131	39	62
Commuter air carriers [4]	Number	48	38	21	32	19	16	15	22
Fatal	Number	12	8	7	10	2	5	2	8
Rate per 1,000,000 aircraft miles flown	Rate	0.07	0.04	0.02	0.03	0.01	0.01	0.01	0.02
Fatalities	Number	28	37	37	59	21	31	4	99
Air taxis [5]	Number	152	171	152	97	96	107	107	84
Fatal	Number	24	46	35	30	27	25	29	26
Rate per 100,000 aircraft hours flown	Rate	0.95	1.27	1.26	1.04	0.95	0.76	0.91	0.8
Fatalities	Number	69	105	76	65	58	83	50	69
Hijacking incidents, worldwide	Number	25	39	35	15	17	24	46	36
U.S. registered aircraft	Number	12	21	4	4	3	6	4	4
Successful [6]	Number	4	13	2	-	-	-	(NA)	(NA)
Foreign-registered aircraft	Number	13	18	31	11	14	18	42	32
Successful [6]	Number	3	9	18	5	-	-	(NA)	(NA)
Bomb threats:									
U.S. airports	Number	449	268	256	376	178	487	448	488
Explosions	Number	4	1	-	-	-	-	-	-
U.S. worldwide and foreign aircraft in U.S	Number	1,853	1,179	372	898	372	479	338	388
Explosions	Number	2	1	1	1	1	2	-	-

- Represents or rounds to zero. NA Not available. X Not applicable. [1] Data from National Transportation Safety Board. [2] See text, section 22. [3] U.S. Air Carriers operating under 14 CFR 121. [4] All scheduled service of U.S. Air Carriers operating under 14 CFR 135. [5] All nonscheduled service of U.S. Air Carriers operating under 14 CFR 135. [6] Hijacker controls flight and reaches destination or objective.
Source: U.S. Federal Aviation Administration, *FAA Statistical Handbook of Aviation,* annual; and unpublished data. Includes data from U.S. Department of Transportation, Research and Special Programs Administration.

No. 1064. On-Time Flight Arrivals and Departures at Major U.S. Airports: 1991 and 1992

[**In percent.** Quarterly, based on gate arrival and departure times for domestic scheduled operations in the 48 contigious states of major U.S. airlines, per DOT reporting rule effective September 1987. All U.S. airlines with one percent or more of total U.S. domestic scheduled airline passenger revenues are required to report on-time data. A flight is considered on time if it operated less than 15 minutes after the scheduled time shown in the carrier's computerized reservation system. Cancelled and diverted flights are considered late. Excludes flight operations delayed/cancelled due to aircraft mechanical problems reported on FAA maintenance records (4-5 percent of the reporting airlines' scheduled operations). See source for data on individual airlines]

AIRPORT	ON-TIME ARRIVALS						ON-TIME DEPARTURES					
	1991		1992				1991		1992			
	3d qtr.	4th qtr.	1st qtr.	2d qtr.	3d qtr.	4th qtr.	3d qtr.	4th qtr.	1st qtr.	2d qtr.	3d qtr.	4th qtr.
Total, all airports	85.2	82.0	81.9	84.7	81.7	80.8	90.2	87.5	87.4	90.4	87.6	86.2
Total 29 major airports	83.8	80.9	80.4	83.5	80.8	80.0	88.7	86.1	85.6	89.0	85.8	85.0
Atlanta, Hartsfield International	80.7	81.1	79.0	79.9	74.2	75.3	86.4	88.1	85.2	87.4	81.2	83.0
Baltimore/Washington International	85.8	84.1	83.8	83.4	80.2	81.6	90.6	89.4	89.7	88.7	85.6	84.3
Boston, Logan International	79.6	75.4	73.6	76.3	72.6	77.4	85.6	83.3	83.8	86.7	81.1	83.0
Charlotte, Douglas	83.7	86.4	86.7	84.5	83.0	80.4	87.9	87.6	86.7	85.4	81.7	80.4
Chicago, O'Hare	85.6	77.0	78.1	85.1	80.9	80.1	89.0	80.8	82.6	88.7	84.6	84.4
Dallas/Ft. Worth International	83.7	77.1	80.1	83.6	84.2	79.4	90.7	84.3	85.6	87.9	87.5	83.2
Denver, Stapleton International	82.4	77.0	78.2	81.7	79.9	73.2	87.5	83.1	83.8	89.4	87.9	81.2
Detroit, Metro Wayne	90.8	87.9	84.0	89.2	83.8	85.2	91.9	89.8	86.6	91.1	87.9	88.8
Dulles International	85.4	85.8	84.7	83.6	81.9	84.7	90.1	88.8	90.0	91.1	85.7	88.6
Houston Intercontinental	85.3	81.3	80.6	82.7	85.6	78.6	89.4	87.1	86.7	88.6	89.7	84.9
Las Vegas, McCarran International	87.0	86.0	87.2	90.0	88.3	83.6	88.9	89.0	89.4	92.8	91.7	87.5
Los Angeles International	78.5	76.0	75.0	80.0	81.9	77.9	85.9	83.9	82.4	87.8	89.5	86.3
Miami International	78.2	77.8	82.4	81.2	73.7	83.3	89.2	88.6	88.2	90.3	83.5	90.3
Minneapolis/St. Paul International	88.6	81.1	82.8	88.7	86.1	85.0	91.0	83.8	86.6	91.8	90.1	88.4
Newark International	79.4	80.1	71.2	73.1	74.4	75.0	85.3	87.0	82.3	84.4	81.6	82.6
New York, Kennedy International	78.5	78.1	74.1	71.8	71.4	80.9	80.2	81.2	79.7	81.8	76.7	84.9
New York, LaGuardia	82.5	83.1	80.2	80.6	77.0	81.7	88.8	88.9	87.0	88.3	83.2	84.2
Orlando International	83.8	84.1	82.7	83.0	78.8	83.0	90.6	91.3	88.8	89.8	84.4	88.9
Philadelphia International	82.3	81.5	77.6	79.4	75.7	80.5	88.4	86.1	85.0	86.3	80.0	83.3
Phoenix, Sky Harbor International	88.8	85.0	87.2	91.0	90.3	85.1	88.6	85.7	87.0	91.4	91.3	86.4
Pittsburgh, Greater International	85.1	80.9	77.9	80.6	74.6	76.7	86.9	81.0	83.4	86.9	76.5	77.8
Raleigh/Durham	88.9	90.3	88.3	87.3	83.0	85.2	92.5	92.6	88.8	88.1	82.0	87.1
St. Louis, Lambert	86.7	81.2	82.7	88.0	84.2	85.2	91.2	85.7	85.3	90.8	87.7	88.7
Salt Lake City International	87.2	80.7	79.3	88.2	84.1	81.1	90.9	87.1	84.5	92.6	89.3	84.2
San Diego International, Lindbergh	85.2	82.5	82.7	87.6	84.4	79.6	88.3	86.5	86.5	91.8	92.0	88.0
San Francisco International	75.1	79.6	78.4	85.1	81.8	75.5	83.3	85.7	84.7	91.5	90.3	85.3
Seattle-Tacoma International	84.9	75.6	83.4	85.2	78.7	76.2	88.1	86.6	87.3	93.0	88.4	86.9
Tampa International	83.2	83.6	82.7	85.1	78.7	80.1	92.9	92.8	92.3	92.9	89.1	89.7
Washington National	86.3	84.9	82.3	83.6	80.1	82.5	91.3	89.9	89.8	90.0	85.9	87.5

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

No. 1065. Consumer Complaints Against U.S. Airlines: 1986 to 1992

[**Calendar year data.** See source for data on individual airlines]

COMPLAINT CATEGORY	COMPLAINTS							PERCENT		RANK	
	1986	1987	1988	1989	1990	1991	1992	1986	1992	1986	1992
Total	**10,802**	**40,985**	**21,493**	**10,553**	**7,703**	**6,106**	**5,639**	**100.0**	**100.0**	**(X)**	**(X)**
Flight problems [1]	3,390	18,019	8,831	4,111	3,034	1,877	1,624	31.4	28.8	1	1
Baggage	2,149	7,438	3,938	1,702	1,329	883	752	19.9	13.3	2	2
Refunds	1,627	3,313	1,667	1,023	701	783	721	15.1	12.8	3	3
Customer service [2]	702	3,888	2,120	1,002	758	714	695	6.5	12.3	5	4
Ticketing/boarding [3]	687	2,458	1,445	821	624	659	680	6.4	12.1	6	5
Fares [4]	468	937	455	341	312	388	573	4.3	10.2	7	6
Oversales [5]	849	2,122	1,353	607	399	301	265	7.9	4.7	4	7
Advertising	122	344	141	89	96	96	54	1.1	1.0	9	8
Smoking	311	888	546	232	74	30	25	2.9	0.4	8	9
Tours	33	90	37	22	29	23	12	0.3	0.2	11	10
Credit	40	101	35	19	5	10	10	0.4	0.2	10	11
Other	424	1,387	925	584	342	342	228	3.9	4.0	(X)	(X)

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

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

No. 1066. Commuter/Regional Airline Operations—Summary: 1980 to 1991

[**Calendar year data.** Commuter/regional airlines operate primarily aircraft of predominately 75 passengers or less and 18,000 pounds of payload capacity serving short haul and small community markets. Represents operations within all North America by U.S. Regional Carriers. Averages are means. For definition of mean, see Guide to Tabular Presentation]

ITEM	Unit	1980	1984	1985	1986	1987	1988	1989	1990	1991
Passenger carriers operating	Number	214	203	179	179	169	163	151	150	144
Passengers enplaned	Millions	14.8	26.1	[1]26.0	28.4	31.8	35.2	37.4	42.1	42.0
Average passengers enplaned per carrier	1,000	69.2	128.1	152.4	158.4	187.7	213.9	247.4	277.5	291.4
Revenue passenger miles (RPM)	Billions	1.92	4.17	[1]4.41	4.47	5.0	6.04	6.77	7.61	7.80
Average RPMs per carrier	Millions	8.97	20.46	[1]24.64	24.98	29.60	37.05	44.84	50.75	54.18
Airports served	Number	732	853	854	824	834	861	817	811	811
Average trip length	Miles	129	160	173	158	158	173	181	183	186
Passenger aircraft operated	Number	1,339	1,747	1,745	1,806	1,841	1,801	1,907	1,917	1,992
Average seating capacity (seats)	Number	13.9	18.4	19.2	18.4	19.7	20.5	21.8	22.1	22.8
Fleet flying hours	1,000	1,740	2,764	2,854	2,929	2,942	3,078	3,266	3,447	3,671
Average annual utilization aircraft	Hours	1,299	1,582	1,635	1,622	1,598	1,709	1,712	1,798	1,843

[1] Adjusted to exclude a merger in 1986.

Source: Regional Airline Association, Washington, DC, *1992 Annual Report of the Regional Airline Industry* (copyright).

No. 1067. Civil Flying—Summary: 1970 to 1991

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

ITEM	Unit	1970	1980	1985	1987	1988	1989	1990	1991
Airports in operation [1]	Number	11,261	15,161	16,318	17,015	17,327	17,446	17,490	17,581
Heliports	Number	790	2,336	3,120	3,653	3,913	4,016	4,085	4,199
Public	Number	4,260	4,814	5,861	4,984	5,043	5,084	5,078	5,090
Private	Number	7,001	10,347	10,457	12,031	12,284	12,362	12,412	12,491
Airports with runway lights	Number	3,554	4,738	4,941	4,922	4,890	4,443	4,822	4,811
Airports with paved runways	Number	3,805	5,833	6,721	7,232	7,429	7,612	7,694	7,822
Miles (nautical) of Federal airways	1,000	324.7	411.1	368.5	332.9	334.8	366.6	(NA)	(NA)
Airport Improvement Program [2]	Mil. dol.	50.5	639.0	842.1	919.4	1,278.3	1,271.2	1,244.7	1,621.6
Total civil aircraft	1,000	154.5	259.4	274.9	275.1	272.7	274.8	275.9	275.5
Active aircraft [3]	1,000	134.5	214.8	215.4	222.4	215.9	225.4	218.9	204.6
Air carriers, total [4]	1,000	2.8	3.8	4.7	5.2	5.6	5.7	6.7	6.1
General aviation aircraft [5]	1,000	131.7	211.0	210.7	217.2	210.3	219.7	212.2	198.5
Fixed-wing aircraft:									
Multi-engine	1,000	18.4	31.7	33.6	33.0	32.2	34.1	32.7	30.5
Single-engine:									
4-place and over	1,000	64.6	107.9	105.6	107.5	105.2	107.8	104.6	98.5
3-place and less	1,000	44.9	60.5	58.8	63.5	59.6	62.6	60.5	55.7
Rotorcraft [6]	1,000	2.2	6.0	6.4	6.3	6.4	7.5	7.4	6.3
Balloons, blimps, gliders, etc	1,000	1.6	5.0	6.3	6.8	6.9	7.7	7.0	7.6
Airman certificates held	1,000	1,002	1,195	1,105	1,128	1,143	1,168	1,195	1,210
Pilot [7]	1,000	733	827	710	700	694	700	703	692
Held by women	Percent	4.0	6.4	6.1	6.1	6.1	6.1	5.8	5.9
Airline transport	1,000	34	70	83	91	97	102	108	112
Commercial	1,000	187	183	152	144	143	145	149	148
Private	1,000	304	357	311	301	300	293	299	293
Student	1,000	196	200	147	146	137	143	128	120
Nonpilot [8]	1,000	269	368	395	428	449	468	492	517
Ground technicians [9]	1,000	241	321	341	367	385	401	421	444
FAA employees: Total	Number	53,125	55,340	47,245	47,907	49,210	50,977	51,269	54,119
Air traffic control specialists [10]	Number	(NA)	27,190	23,580	24,132	24,803	24,368	24,339	25,741
Full performance [11]	Number	(NA)	16,317	11,672	11,617	12,180	12,640	12,985	13,480
Developmental [11]	Number	(NA)	4,387	4,304	5,462	5,495	5,574	5,042	5,080
Assistants [11]	Number	(X)	(X)	1,465	1,481	1,283	1,316	1,153	928
Traffic management coordinators [12]	Number	(X)	(X)	(X)	278	347	350	370	448
Electronic technicians	Number	(NA)	8,871	6,856	6,788	6,627	6,508	6,458	6,641
Aviation safety inspectors	Number	(NA)	2,038	1,897	2,350	2,499	2,766	2,984	3,101
Engineers	Number	(NA)	2,436	2,457	2,579	2,640	2,657	2,745	3,073
Other	Number	(NA)	14,805	12,455	12,058	12,641	14,678	14,743	15,563
General aviation: [5]									
Hours flown	Million	26.0	41.0	34.1	33.4	33.6	35.0	34.8	30.1
Fuel consumed: [13]									
Gasoline	Mil. gal.	362	520	420	402	398	343	353	354
Jet fuel [14]	Mil. gal.	415	766	691	672	746	688	663	577

NA Not available. X Not applicable. [1] Existing airports, heliports, seaplane bases, etc. recorded with FAA. Includes military airports with joint civil and military use. Includes U.S. outlying areas. Airport-type definitions: Public—publicly owned and under control of a public agency; private—owned by a private individual or corporation. May or may not be open for public use. [2] Fiscal year data. Does not include System Planning Grants. Includes U.S. outlying areas. 1970-1980 data are obligated Federal funds for the Airport Development Aid Program. 1985-1991 data are appropriated Federal funds under the Airport and Airway Improvement Act of 1982. [3] Registered aircraft that flew one or more hours during the year. [4] Includes helicopters. [5] See text, section 22. [6] Includes autogyros; excludes air carrier helicopters. [7] Includes all active pilots. An active pilot is one with a pilot certificate and a valid medical certificate. Also includes pilots who hold only a helicopter, glider, or lighter than air certificate, not shown separately. [8] Includes dispatchers, flight navigators and engineers, and ground technicians—mechanics, parachute riggers, and ground instructors. [9] No medical examinations are required, therefore, data represent all certificates on record and include retired or otherwise inactive technicians. [10] Includes all air traffic control specialists (staff positions, managers, supervisors, and for 1970-1987 traffic management coordinators, not shown separately) and air traffic assistants. [11] Serving in-flight service stations, towers, and centers. [12] Prior to 1987, included in total air traffic control specialists. [13] Source: 1970, U.S. Bureau of Mines; thereafter, FAA General Aviation Activity and Avionics Survey. [14] Includes kerosene-type and naphtha-type jet fuels.

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

No. 1068. U.S. Aircraft Shipments, 1970 to 1992, and Projections, 1993

[Value in millions of dollars]

YEAR	TOTAL		CIVIL						MILITARY	
	Units	Value	Large transports [1]		General Aviation [2]		Helicopters		Units	Value
			Units	Value	Units	Value	Units	Value		
1970	11,632	7,511	311	3,158	7,292	337	495	49	3,534	3,967
1975	17,030	9,136	315	3,779	14,072	1,033	864	274	1,779	4,050
1980	14,681	18,950	387	9,895	11,881	2,507	1,366	656	1,047	5,892
1981	11,978	20,093	387	9,706	9,457	2,920	1,072	597	1,062	6,870
1982	6,244	19,257	232	6,246	4,266	1,999	587	365	1,159	10,647
1983	4,409	22,519	262	8,000	2,691	1,470	403	303	1,053	12,746
1984	3,935	21,933	185	5,689	2,438	1,698	376	330	936	14,216
1985	3,610	28,386	278	8,448	2,029	1,431	384	506	919	18,001
1986	3,258	34,809	330	10,308	1,495	1,262	326	287	1,107	22,952
1987	3,010	35,925	357	10,507	1,085	1,364	358	277	1,210	23,777
1988	3,254	34,875	423	13,603	1,143	1,918	383	334	1,305	19,020
1989	3,675	34,229	398	15,074	1,535	1,804	515	251	1,227	17,100
1990	3,486	39,206	521	22,215	1,144	2,007	603	254	1,218	14,730
1991 [4]	2,934	40,776	589	26,856	1,021	1,968	571	211	753	11,741
1992 [4]	2,444	42,102	567	27,000	780	1,580	460	220	637	13,302
1993 [4]	2,430	39,923	480	25,500	850	1,650	500	229	600	12,544

[1] Capacity over 70 seats. [2] Includes aircraft kits for exports. [3] Estimated. [4] Forecast.

Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1993.*

No. 1069. Employment and Earnings in Aircraft Industries: 1975 to 1992

[Annual averages of monthly figures. See headnote, table 662]

1987 SIC [1] code	ITEM	Unit	1975	1980	1985	1988	1989	1990	1991	1992
(X)	Employment: Total	1,000	592	744	794	893	906	898	838	758
3721	Aircraft	1,000	293	349	326	369	382	381	357	337
3724	Aircraft engines and engine parts	1,000	126	163	148	156	154	152	143	127
3728	Aircraft equipment, n.e.c. [2]	1,000	80	121	143	160	176	180	171	153
376	Guided missiles, space vehicles, and parts	1,000	93	111	177	208	194	185	167	141
(X)	Average weekly earnings: [3]									
3721	Aircraft	Dollars	256	404	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
3724	Aircraft engines and parts	Dollars	247	394	542	582	616	637	654	689
376	Guided missiles, space vehicles, and parts	Dollars	245	378	515	567	589	612	632	652
(X)	Average hourly earnings: [3]									
3721	Aircraft [4]	Dollars	6.21	9.66	13.18	14.18	14.89	15.66	16.72	17.70
3724	Aircraft engines and parts	Dollars	6.04	9.42	12.85	13.80	14.42	14.84	15.38	16.28
376	Guided missiles, space vehicles, and parts	Dollars	6.02	9.22	12.14	13.13	13.70	14.39	14.90	15.97

NA Not available. X Not applicable. [1] 1987 Standard Industrial Classification; see text, section 13. [2] N.e.c.=Not elsewhere classified. [3] For production workers. [4] Excludes lump-sum payments. Earnings which include proration of lump-sum payments were; $13.40 in 1985; $14.65 in 1988; $15.41 in 1989; $16.32 in 1990; $17.16 in 1991; and $18.18 in 1992.

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

No. 1070. Aerospace Industry—Summary, 1980 to 1992, and Projections, 1993

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

ITEM	Unit	1980	1985	1986	1987	1988	1989	1990	1991 [1]	1992 [1]	1993 [2]
INDUSTRY DATA											
Value of shipments	Mil. dol.	58,483	90,795	100,999	103,589	107,746	113,477	125,194	128,610	125,749	120,516
In 1987 dollars	Mil. dol.	(NA)	(NA)	(NA)	103,589	106,355	109,070	116,019	115,390	109,021	103,199
Employment, total	1,000	721	746	798	810	820	823	816	752	695	652
Production workers	1,000	387	372	400	407	399	400	396	361	330	308
Average hourly earnings	Dol	9.90	13.88	14.37	14.92	15.35	15.84	16.36	(NA)	(NA)	(NA)
Capital expenditures	Mil. dol.	1,923	3,784	4,144	3,612	3,388	3,921	3,490	(NA)	(NA)	(NA)
PRODUCT DATA											
Value of shipments	Mil. dol.	53,296	80,625	90,907	97,185	102,242	106,320	118,141	115,345	112,643	107,964
In 1987 dollars	Mil. dol.	(NA)	(NA)	(NA)	97,185	100,643	101,659	108,635	101,852	96,995	91,748

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

Source: U.S. Department of Commerce, International Trade Administration, *U.S. Industrial Outlook, 1993.*

No. 1071. Aerospace—Sales, New Orders, and Backlog: 1970 to 1991

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

ITEM	1970	1975	1980	1984	1985	1986	1987	1988	1989 [1]	1990 [1]	1991 [1]
Net sales	24.8	29.5	58.4	88.9	100.5	105.6	110.3	113.5	122.1	136.6	134.6
Percent of U.S. Government	66.3	58.7	45.6	62.7	63.2	61.9	62.2	60.0	58.0	54.0	50.0
Complete aircraft and parts [2]	10.4	11.3	22.6	28.3	34.2	38.0	37.0	35.7	38.4	49.9	53.0
Aircraft engines and parts	3.1	3.4	6.9	9.1	9.7	9.8	12.0	15.0	15.4	16.4	15.6
Missiles and space vehicles, parts	5.4	6.3	8.4	13.6	16.7	17.5	20.7	21.5	22.6	22.0	23.8
Other products, services	5.9	8.5	20.5	38.0	39.8	40.3	40.5	41.3	45.7	48.3	42.2
Net, new orders	21.2	29.0	70.4	104.9	111.0	110.8	121.2	147.1	173.6	146.0	132.6
Backlog, Dec. 31	24.7	35.0	90.5	132.5	143.0	148.2	158.7	191.5	252.4	250.1	247.6

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

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

No. 1072. Aerospace Industry Sales, by Product Group and Customer: 1980 to 1993

[In billions of dollars. Due to reporting practices and tabulating methods, figures may differ from those in table 1071]

ITEM	CURRENT DOLLARS						CONSTANT (1987) DOLLARS [3]					
	1980	1985	1990	1991	1992 [1]	1993 [2]	1980	1985	1990	1991	1992 [1]	1993 [2]
Total sales	**54.7**	**96.6**	**134.4**	**138.9**	**134.0**	**126.5**	**77.5**	**97.8**	**121.6**	**121.2**	**114.2**	**105.9**
PRODUCT GROUP												
Aircraft, total	31.5	50.5	71.4	76.1	72.8	66.0	40.4	51.1	64.6	66.4	62.1	55.3
Civil [4]	16.3	13.7	31.4	37.7	37.9	34.4	12.5	13.9	28.4	32.9	32.3	28.8
Military	15.2	36.8	40.1	38.5	34.9	31.6	27.9	37.2	36.3	33.6	29.7	26.5
Missiles	6.5	11.4	14.2	10.9	10.8	10.1	11.8	11.6	12.8	9.5	9.2	8.5
Space	7.9	18.6	26.4	28.7	29.0	29.2	12.0	18.8	23.9	25.0	24.7	24.5
Related products and services [5]	8.8	16.1	22.4	23.1	21.4	21.1	13.0	16.3	20.3	20.2	18.2	17.7
CUSTOMER GROUP												
Aerospace, total	45.9	80.5	112.0	115.7	112.6	105.4	65.0	81.5	101.3	101.0	96.0	88.3
DOD [6]	22.8	53.2	60.5	55.9	51.8	46.4	32.3	53.9	54.8	48.8	44.1	38.8
NASA [7] and other agencies	4.1	6.3	11.1	11.7	12.0	12.4	5.8	6.3	10.0	10.2	10.2	10.3
Other customers [8]	19.0	21.0	40.4	48.2	48.8	46.7	26.9	21.3	36.5	42.1	41.6	39.1
Related products and services [5]	8.8	16.1	22.4	23.1	21.4	21.1	12.5	16.3	20.3	20.2	18.2	17.7

[1] Preliminary. [2] Estimate. [3] Based on AIA's aerospace composite price deflator. [4] All civil sales of aircraft (domestic and export sales of jet transports, commuters, business and personal aircraft and helicopters). [5] Electronics, software, and ground support equipment, plus sales of non-aerospace products which are produced by aerospace-manufacturing use technology, processes, and materials derived from aerospace products. [6] Department of Defense. [7] National Aeronautics and Space Administration. [8] Includes civil aircraft sales (see footnote 4), commercial space sales, all exports of military aircraft and missiles and related propulsion and parts.

Source: Aerospace Industries Association of America, Inc., Washington, DC, *Aerospace Facts and Figures, 1992/93.*

No. 1073. Aerospace Industry—Net Profits After Taxes: 1976 to 1992

[For calendar year. Minus sign (-) indicates loss]

YEAR	AEROSPACE INDUSTRY PROFITS				MANUFACTURING CORPORATIONS PROFITS			
	Total (mil. dol.)	As percent of—			Total (mil. dol.)	As percent of—		
		Sales	Assets	Equity		Sales	Assests	Equity
1976	1,091	3.4	4.7	12.8	64,550	5.4	7.5	14.0
1977	1,427	4.2	5.7	14.9	69,306	5.3	7.6	14.2
1978	1,816	4.4	5.5	15.7	81,079	5.4	7.8	15.0
1979	2,614	5.0	6.3	18.4	98,719	5.7	8.4	16.5
1980	2,588	4.3	5.2	16.0	93,149	4.8	6.9	13.9
1981	2,966	4.4	5.2	16.0	101,330	4.7	6.7	13.6
1982	2,193	3.3	3.7	12.0	70,966	3.5	4.5	9.2
1983	2,829	3.5	4.1	12.1	85,737	4.1	5.1	10.5
1984	3,639	4.1	4.7	14.1	107,657	4.6	6.0	12.5
1985	3,274	3.1	3.6	11.1	87,809	3.8	4.6	10.1
1986	3,093	2.8	3.1	9.4	82,762	3.7	4.2	9.5
1987	4,582	4.1	4.4	14.6	115,472	4.9	5.6	12.8
1988	4,883	4.3	4.4	14.9	154,647	6.0	6.9	16.2
1989	3,866	3.3	3.3	10.7	136,412	5.0	5.6	13.7
1990	4,487	3.4	3.4	11.5	110,737	4.0	4.3	10.7
1991	[1]2,484	1.8	1.9	6.1	66,379	2.5	2.6	6.4
1992, prel.	[1]-1,836	-1.4	-1.2	-5.2	27,985	1.0	1.0	2.6

[1] Reflects unusually large nonoperating expenses totalling $3.4 billion in 1991 and $8.7 billion in 1992 due to the initial implementation of a change in accounting for future retirement benefit costs and defense-downsizing restructuring charges. Many large aerospace corporations chose to write off against first quarter earnings amounts required to comply with FSAB 106.

Source: Aerospace Industries Association of America, Washington, DC, *Aerospace Facts and Figures,* annual.

No. 1074. U.S. Exports of Aerospace Vehicles and Equipment, 1989 to 1992, and Projections, 1993

ITEM	NUMBER OF UNITS					VALUE (mil. dol.)				
	1989	1990	1991	1992 [1]	1993 [2]	1989	1990	1991	1992 [1]	1993 [2]
Aerospace vehicles and equipment	(NA)	(NA)	(NA)	(NA)	(NA)	32,884	39,030	43,783	43,423	43,089
Civilian aircraft	3,940	3,446	2,954	2,402	2,374	14,257	18,110	22,387	22,126	21,140
Under 4,536 kg. unladen weight, new	1,638	799	536	402	426	265	318	304	288	240
4,536-15,000 kg. unladen weight, new	48	79	69	64	70	164	245	279	259	282
Over 15,000 kg. unladen weight, new	260	306	385	374	319	13,122	16,691	20,881	20,589	19,555
Rotocraft, new	294	349	318	264	285	155	161	168	156	168
Other new aircraft, n.e.c. [3]	(NA)	(NA)	(NA)	(NA)	(NA)	18	15	21	19	20
Used, rebuilt, and converted	1,700	1,913	1,646	1,298	1,274	533	680	734	815	875
Military aircraft, new and used	846	445	490	340	395	892	1,481	1,764	1,987	2,330
Aircraft engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	6,629	6,870	7,039	6,719	6,872
Piston engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	438	421	417	302	348
Turbine engines and parts	(NA)	(NA)	(NA)	(NA)	(NA)	6,191	6,449	6,622	6,417	6,524
Propellers and parts	(NA)	(NA)	(NA)	(NA)	(NA)	271	343	317	287	301
Landing gear and parts	(NA)	(NA)	(NA)	(NA)	(NA)	273	276	333	414	422
Aircraft parts, n.e.c. [3]	(NA)	(NA)	(NA)	(NA)	(NA)	8,198	8,982	9,386	8,823	8,990
Guided missiles and parts	(NA)	(NA)	(NA)	(NA)	(NA)	1,042	1,306	1,204	1,660	1,585
Flight simulators	(NA)	(NA)	(NA)	(NA)	(NA)	206	255	245	180	200
Space launch equipment	(NA)	(NA)	(NA)	(NA)	(NA)	384	660	308	408	414
Avionics	(NA)	(NA)	(NA)	(NA)	(NA)	732	747	780	819	835

NA Not available. [1] Estimated. [2] Forecast. [3] N.e.c.=Not elsewhere classified.
Source: U.S. Dept. of Commerce, International Trade Administration, *U.S. Industrial Outlook*, 1993.

No. 1075. U.S. Receipts and Payments for International Transportation: 1980 to 1992

[**In millions of dollars.** Data are international transportation transactions recorded for balance of payment purposes (see table 1328). Receipts include freight on exports carried by U.S.-operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (-) indicates excess of payments over receipts. See *Historical Statistics, Colonial Times to 1970*, series U 3 and U 10, for totals]

ITEM	1980	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total receipts	**14,208**	**17,876**	**19,085**	**21,366**	**24,337**	**28,430**	**31,147**	**37,252**	**38,180**	**40,126**
Ocean transportation	7,757	8,894	8,906	9,259	10,162	11,346	11,836	12,295	12,416	12,604
Export freight earnings	2,641	2,702	2,866	2,610	2,806	3,043	3,127	3,233	2,970	2,874
Passenger fares	(NA)	45	60	90	102	128	132	154	156	173
Freight earnings on shipments between foreign countries	588	563	574	576	595	707	769	871	1,030	1,030
Port expenditures	4,435	5,457	5,274	5,843	6,514	7,315	7,609	7,815	8,020	8,268
Charter hire	93	127	132	140	145	153	199	222	240	259
Air transportation	5,946	8,467	9,698	10,912	12,844	15,639	17,792	23,318	24,254	25,798
Export freight earnings	742	645	706	783	962	1,385	1,719	2,432	2,722	2,589
Passenger fares [1]	2,591	4,022	4,351	5,492	6,901	8,847	10,482	15,144	15,698	17,180
Port expenditures	2,613	3,800	4,641	4,637	4,961	5,407	5,591	5,742	5,834	6,029
Other transportation	505	515	481	1,195	1,331	1,445	1,519	1,639	1,510	1,724
Total payments	**15,397**	**20,578**	**22,087**	**23,220**	**25,072**	**27,263**	**28,907**	**33,931**	**33,309**	**34,397**
Ocean transportation	8,447	10,406	10,852	11,507	11,265	12,344	12,420	13,326	12,582	12,221
Import freight payments	5,809	7,755	8,114	8,636	8,365	9,372	9,391	10,290	9,593	9,269
Passenger fares	268	151	154	208	235	164	193	248	279	301
Port expenditures	1,905	1,972	2,048	2,125	2,115	2,244	2,228	2,174	2,093	2,028
Charter hire	465	528	536	538	550	564	608	614	617	623
Air transportation	6,705	9,929	11,009	11,424	13,480	14,546	16,135	20,163	20,246	21,669
Import freight payments	562	1,633	1,666	2,051	2,242	2,226	2,197	2,207	2,257	2,370
Passenger fares [1]	3,339	5,584	6,290	6,297	7,048	7,565	8,055	10,282	9,733	10,642
Port expenditures	2,804	2,712	3,053	3,076	4,190	4,755	5,883	7,674	8,256	8,657
Other transportation	245	243	226	289	327	373	352	442	481	507
Balance	**-1,189**	**-2,702**	**-3,002**	**-1,854**	**-735**	**1,167**	**2,240**	**3,321**	**4,871**	**5,729**

NA Not available. [1] Beginning 1990, includes interairline settlements.

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

No. 1076. Exports and Imports, by Method of Transport: 1970 to 1990

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

ITEM	Unit	EXPORTS						IMPORTS					
		1970	1980	1985	1988	1989	1990	1970	1980	1985	1988	1989	1990
All methods [1]	Bil. dol.	43.2	220.7	213.1	320.4	363.8	393.0	40.0	240.8	345.3	441.3	473.4	495.3
Vessel	Bil. dol.	24.6	120.9	91.7	126.0	146.3	150.8	24.8	165.1	208.4	255.8	269.9	283.4
Air	Bil. dol.	6.1	46.1	52.3	91.6	101.9	110.5	3.4	28.0	51.3	77.5	84.4	90.9
Shipping weight: Vessel	Bil. kg.	218.0	363.7	317.7	361.8	390.6	372.4	271.4	443.1	361.5	466.8	494.7	496.3
Air	Bil. kg.	0.4	1.0	0.8	1.4	1.6	1.5	0.3	0.6	1.3	1.5	4.3	1.7

[1] Includes types other than vessel and air and revisions that are not distributed by method of transport.
Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, through 1988, FT 990, monthly; thereafter, U.S. Merchandise Trade: Selected Highlights, FT-920, monthly.

No. 1077. Federal Expenditures for Civil Functions of the Corps of Engineers, United States Army: 1965 to 1991

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

FISCAL YEAR	Total program [1]	Navigation	Flood control	Multiple purpose	FISCAL YEAR	Total program [1]	Navigation	Flood control	Multiple purpose
1965	1,169	426	447	283	1983	2,959	1,290	1,088	482
1970	1,128	398	379	331	1984	3,085	1,383	1,154	445
1975	2,070	694	904	439	1985	2,956	1,234	1,187	419
1977	2,340	792	918	594	1986	3,163	1,345	1,300	402
1978	2,645	951	1,069	583	1987	2,937	1,135	1,272	411
1979	2,934	1,083	1,218	577	1988	3,086	1,271	1,271	423
1980	3,061	1,225	1,228	551	1989	3,252	1,395	1,253	462
1981	3,198	1,339	1,273	527	1990	3,297	1,391	1,397	375
1982	2,940	1,331	1,083	453	1991	3,511	1,473	1,447	443

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

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

No. 1078. Freight Carried on Inland Waterways, by System: 1960 to 1989

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

ITEM	1960	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total	**220.3**	**318.6**	**406.9**	**410.2**	**351.2**	**359.0**	**399.0**	**381.7**	**392.6**	**410.7**	**438.2**	**448.7**
Atlantic coast waterways	28.6	28.6	30.4	28.3	25.4	22.5	24.7	24.8	25.7	25.9	28.1	28.2
Gulf coast waterways	16.9	28.6	36.6	35.1	31.8	32.4	36.7	36.5	39.0	37.9	44.6	42.5
Pacific coast waterways [1]	6.0	8.4	14.9	14.4	12.8	13.2	20.5	19.9	20.8	22.8	24.5	24.0
Mississippi River system [2]	69.3	136.5	228.9	234.4	218.0	223.0	234.6	224.7	239.3	251.6	257.8	268.1
Great Lakes System [3]	99.5	114.5	96.0	98.0	63.2	67.9	82.5	75.8	67.9	72.5	83.1	85.8

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

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

No. 1079. Domestic and Foreign Waterborne Commerce, by Type of Commodity: 1970 to 1989

[**In millions of short tons.** Domestic trade includes all commercial movements between United States ports and on inland rivers, Great Lakes, canals, and connecting channels of the United States, Puerto Rico, and Virgin Islands. Figures may differ from those shown in table 1080 due to minor differences in basic concepts]

COMMODITY	1970		1980		1985		1989			
	Total	Domestic	Total	Domestic	Total	Domestic	Total	Domestic	Foreign	
									Imports	Exports
Net total	**1,531.7**	**950.7**	**1,998.9**	**1,077.5**	**1,788.4**	**1,014.1**	**2,140.4**	**1,102.5**	**589.5**	**448.4**
Petroleum products [1]	394.7	287.3	423.2	339.2	368.8	259.0	441.9	289.2	108.8	43.9
Gasoline	89.3	88.7	87.3	81.0	94.0	78.0	107.9	86.2	19.8	1.9
Distillate fuel oil	78.8	76.9	74.6	72.1	70.0	55.0	75.2	58.1	12.9	4.2
Residual fuel oil	170.5	78.8	188.0	141.3	130.0	83.7	147.5	91.4	42.8	13.3
Crude petroleum	210.5	116.3	480.2	174.2	357.7	194.7	480.8	181.9	298.8	0.1
Coal and lignite	225.4	154.1	256.4	164.1	273.9	179.9	304.8	203.8	2.4	98.6
Nonmetallic minerals [1 2]	166.6	132.6	157.1	111.6	150.7	108.5	158.7	111.6	25.7	21.4
Sand and gravel [3]	78.4	73.9	65.1	60.8	66.4	62.0	58.8	54.9	2.1	1.8
Limestone	42.0	34.1	34.2	23.9	24.5	21.9	41.3	35.5	2.3	3.5
Phosphate rock	16.6	5.8	23.7	9.5	19.4	8.4	15.8	6.1	0.8	8.9
Iron and concentrates	129.3	75.2	98.4	64.9	72.7	50.0	86.5	59.6	21.4	5.5
Farm products [1]	90.4	28.5	216.8	63.4	172.8	60.0	216.3	70.5	8.7	137.1
Corn	27.2	11.7	98.6	30.8	76.3	29.0	96.4	35.8	0.1	60.5
Wheat	25.0	5.8	53.4	14.3	38.0	10.6	55.8	16.5	0.2	39.1
Soybeans	21.2	8.3	39.6	16.1	32.9	14.9	28.8	12.8	(Z)	16.0
Chemicals and allied products	62.0	39.7	91.9	49.4	108.5	53.3	123.3	61.9	15.9	45.5
Food and kindred products	35.0	11.0	54.8	20.4	52.5	17.6	54.3	20.6	11.5	22.2
Lumber and wood products [4]	49.9	27.3	52.0	22.7	47.2	18.8	56.9	21.0	4.7	31.2
Primary metal products	42.4	10.8	28.9	9.0	33.4	8.5	31.5	8.7	17.9	4.9
Waste and scrap	25.9	16.0	31.1	18.8	37.4	23.9	54.6	37.3	0.9	16.4
Other	99.7	51.9	108.1	39.8	112.8	40.0	130.8	36.4	72.8	21.6

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

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

No. 1080. Waterborne Imports and Exports—Cargo Tonnage and Value, by Coastal District: 1980 to 1991

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

DISTRICT	CARGO TONNAGE (mil. sh. tons)							VALUE (bil. dol.)						
	1980	1985	1987	1988	1989	1990	1991	1980	1985	1987	1988	1989	1990	1991
Imports:														
Atlantic	183	190	224	234	211	207	176	71.5	94.4	105.8	107.4	109.3	110.8	101.1
Gulf	243	141	184	212	217	225	217	56.4	32.8	30.5	31.2	36.1	41.0	36.4
Pacific	56	51	56	55	55	55	49	45.0	90.4	118.4	126.5	140.9	143.3	143.7
Great Lakes	16	17	14	16	16	16	13	1.9	2.8	2.0	2.5	3.7	7.6	8.4
Exports:														
Atlantic	117	93	78	92	94	101	107	51.0	35.2	38.7	48.2	56.3	62.4	70.1
Gulf	163	144	155	162	152	148	167	41.5	31.8	31.6	37.9	40.9	41.2	44.2
Pacific	78	81	95	110	103	100	102	25.2	25.8	31.9	43.3	50.1	53.7	56.6
Great Lakes	45	34	32	37	34	26	18	4.6	2.4	2.1	3.2	3.6	1.7	1.2

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

No. 1081. Vessels Entered and Cleared in Foreign Trade—Net Registered Tonnage, by Flag of Carrier Vessel: 1966 to 1991

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

YEARLY AVERAGE OR YEAR	ALL PORTS					SEAPORTS					
	Number of vessels	Tonnage, all vessels				Tonnage, all vessels			Tonnage, with cargo		
		Total	U.S.	Percent U.S.	Foreign	Total	U.S.	Foreign	Total	U.S.	Foreign
Entered:											
1966-70	53,459	232	29	12.5	203	206	27	180	157	18	139
1971-75	53,760	319	30	9.5	290	292	28	264	220	24	196
1976-80	53,700	458	40	8.7	418	425	38	387	316	30	286
1981-85	50,124	452	57	12.4	395	424	55	369	277	36	241
1986-90	61,978	548	46	8.4	502	521	45	476	346	30	315
1970	53,293	254	26	10.3	226	227	24	202	171	19	152
1975	51,443	355	32	9.9	323	326	30	297	240	26	215
1980	53,645	492	52	10.6	440	460	50	410	310	34	276
1985	53,531	451	53	11.7	398	426	52	374	283	34	249
1987	59,563	518	48	9.3	470	492	47	445	333	29	304
1988	62,097	556	47	8.5	509	527	46	481	352	30	322
1989	64,946	587	44	7.4	543	558	42	516	367	31	335
1990	66,424	589	41	7.0	548	564	40	524	367	30	337
1991	57,254	516	39	7.6	476	494	38	455	311	28	283
Cleared:											
1966-70	52,415	232	30	12.8	202	206	27	179	122	23	99
1971-75	53,039	324	31	9.9	293	296	29	267	149	21	127
1976-80	52,931	453	41	9.1	412	420	38	382	203	26	177
1981-85	50,291	460	57	12.4	403	432	55	377	251	34	217
1986-90	60,249	551	47	8.6	504	524	46	478	284	31	253
1970	52,195	253	27	10.6	226	226	25	201	132	20	112
1975	51,017	363	34	10.3	329	334	31	303	168	23	144
1980	52,928	487	54	11.1	433	456	51	405	246	33	213
1985	53,095	461	55	11.9	406	435	53	382	253	36	217
1987	58,307	521	49	9.4	472	495	48	447	269	31	238
1988	60,540	561	49	8.7	512	531	47	484	295	31	264
1989	63,042	590	45	7.6	545	561	44	517	304	30	274
1990	63,648	592	43	7.3	550	566	41	525	304	29	275
1991	55,100	521	40	7.7	480	498	39	459	282	28	253

Source: U.S. Bureau of the Census, *Vessel Entrances and Clearances*, through 1987, FT 975, annual; thereafter TA 987, annual.

No. 1082. Domestic Merchant Vessels Completed by U.S. Shipyards: 1970 to 1988

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

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

- Represents zero.

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

No. 1083. United States Flag Merchant Vessels—Number and Vessel Deadweight Tonnage: 1992

[As of **end of fiscal year**; see text, section 9. Covers ocean-going vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes vessels operating exclusively on Great Lakes, inland waterways, and those owned by the United States Army and Navy, and special types such as cable ships, tugs, etc. See also *Historical Statistics, Colonial Times to 1970*, series Q 487-502]

VESSEL TYPE	NUMBER						DEADWEIGHT TONNAGE (1,000)					
	Total	Passenger [1]	Cargo [2]	Intermodal	Bulk carrier [3]	Tanker [4]	Total	Passenger [1]	Cargo [2]	Intermodal	Bulk carrier [3]	Tanker [4]
Total	**619**	**10**	**191**	**168**	**24**	**226**	**23,254**	**92**	**2,444**	**4,711**	**1,014**	**14,993**
Active vessels	411	8	47	154	20	182	18,286	70	728	4,379	844	12,265
Privately owned	362	2	31	128	20	181	17,480	14	527	3,847	844	12,248
U.S. foreign trade	112	-	11	66	12	23	4,944	-	175	2,356	610	1,803
Foreign-to-foreign	22	-	-	8	-	14	2,136	-	-	207	-	1,929
Domestic trade	161	2	4	26	8	121	8,741	14	76	570	234	7,847
Coastal	96	-	4	4	6	82	3,559	-	76	129	179	3,175
Noncontiguous	65	2	-	22	2	39	5,182	14	-	441	55	4,672
Military Sea Lift Command	67	-	16	28	-	23	1,659	-	276	714	-	669
Government owned	49	6	16	26	-	1	806	56	201	532	-	17
Ready reserve force	40	2	14	24	-	-	716	23	180	513	-	-
Inactive vessels	208	2	144	14	4	44	4,968	22	1,716	332	170	2,728
Privately owned	32	1	6	2	3	20	2,236	16	69	44	145	1,962
Temporarily inactive	6	-	3	-	2	1	201	-	38	-	128	35
Laid-up	24	1	3	2	1	17	1,968	16	31	44	17	1,860
Laid-up (MARAD Custody) [5]	2	-	-	-	-	2	67	-	-	-	-	67
Government owned (MARAD Custody) [5]	176	1	138	12	1	24	2,732	6	1,647	288	25	766
National defense reserve fleet	165	-	131	12	-	22	2,546	-	1,558	288	-	700
Ready reserve fleet	56	-	34	9	-	13	1,132	-	486	251	-	395
Other reserve	109	-	97	3	-	9	1,414	-	1,072	37	-	305
Nonretention [6]	9	1	6	-	-	2	145	6	73	-	-	66
Other Government owned	2	-	1	-	1	-	41	-	16	-	25	-

- Represents zero. [1] Includes combination passenger and cargo vessels. [2] General cargo. [3] Includes tug barges. [4] Includes tanker barges and liquified natural gas vessels. [5] In the custody of the Maritime Administration. [6] Vessels not actively maintained.

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. 1084. Private Shipyards—Summary: 1970 to 1991

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

ITEM	Unit	1970	1980	1984	1985	1986	1987	1988	1989	1990	1991
Employment	1,000	133.4	177.3	142.0	130.3	120.6	120.4	121.0	123.4	121.8	[1]131.0
Production workers	1,000	108.5	141.8	111.0	99.0	90.3	90.8	90.9	88.6	86.4	[1]98.3
Value of work done	Mil. dol.	2,682	9,269	8,944	9,358	8,840	8,531	(NA)	(NA)	(NA)	(NA)
On ships only	Mil. dol.	2,594	8,889	8,308	9,483	8,913	8,377	(NA)	(NA)	(NA)	(NA)
Value added	Mil. dol.	1,616	5,338	5,206	5,740	5,426	5,227	(NA)	(NA)	(NA)	(NA)
Building activity:											
Merchant vessels: [2]											
Under construction [3]	Number	49	69	10	10	7	6	-	-	-	3
Ordered	Number	13	7	5	-	-	-	-	-	3	-
Delivered	Number	13	23	5	3	1	4	-	-	-	-
Cancelled	Number	-	4	-	-	-	2	-	-	-	-
Under contract [4]	Number	49	49	10	7	6	-	-	-	3	3
Naval vessels: [2]											
Under construction [3]	Number	108	99	111	100	85	79	83	105	98	91
Ordered	Number	6	11	11	11	16	20	32	16	8	12
Delivered	Number	32	19	22	26	20	16	10	23	15	14
Under contract [4]	Number	82	91	100	85	[5]79	83	105	98	91	89
Repairs/conversions:											
Commercial ships	Mil. dol.	431	1,335	1,631	852	847	806	(NA)	(NA)	(NA)	(NA)
Naval ships	Mil. dol.	359	1,134	1,641	2,311	2,008	1,930	(NA)	(NA)	(NA)	(NA)
Unfinished work: [3]											
Commercial ships	Mil. dol.	765	2,070	100	450	315	53	-	-	-	(NA)
Naval ships	Mil. dol.	1,719	7,107	14,003	12,091	9,595	8,265	10,500	16,010	(NA)	(NA)

- Represents zero. NA Not available. [1] Annual average of monthly data. [2] Vessels of 1,000 tons or larger. [3] As of Jan. 1. [4] As of Dec. 31. [5] Two ships were cancelled during 1986.

Source: Shipbuilders Council of America, Arlington, VA., *Annual Report*, through 1980; thereafter, unpublished data.

No. 1085. Employees in Government and Private Shipyards: 1960 to 1992

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

YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards	YEAR	Total	Private yards	Navy yards
1960	208	112	96	1981	265	187	78	1987	200	124	75
1970	216	134	83	1982	253	172	82	1988	197	124	73
1975	217	154	65	1983	226	143	84	1989	196	126	71
1978	244	172	72	1984	229	146	83	1990	198	130	68
1979	246	173	73	1985	219	138	80	1991	193	131	62
1980	250	178	72	1986	206	131	75	1992	182	124	59

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

No. 1086. Employment on U.S. Flag Merchant Vessels, 1970 to 1992, and Basic Monthly (January) Wage Scale for Able-Bodied Seamen, 1970 to 1993

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

YEAR	Employment [1]	YEAR	Employment [1]	YEAR	East coast wage rate [2]	West coast wage rate [2]	YEAR	East coast wage rate [2]	West coast wage rate [2]
1970	37.6	1986	11.5	1970	$470	$652	1987	$1,419	$2,132
1975	20.5	1987	10.4	1975	612	900	1988	1,419	2,175
1980	19.6	1988	10.7	1980	967	1,414	1989	1,448	2,218
1982	16.7	1989	9.9	1983	1,320	1,862	1990	1,505	2,218
1983	15.3	1990	11.1	1984	1,419	2,029	1991	1,581	2,329
1984	13.7	1991	11.7	1985	1,419	2,069	1992	1,655	2,438
1985	13.1	1992	9.2	1986	1,419	2,132	1993	1,721	2,438

[1] As of June 30, except beginning 1980, as of Sept. 30. Estimates of personnel employed on merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, U.S. Army and Navy, and special types such as cable ships, tugs, etc. [2] Basic monthly wage, over and above subsistence (board and room); excludes overtime and fringe pay benefits. West coast incorporates extra pay for Saturdays and Sundays at sea into base wages but east coast does not.

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

No. 1087. Worldwide Tanker Casualties: 1975 to 1992

[Data for **1975** and **1980** covers tankers, ore/oil carriers and bulk/oil vessels of 6,000 deadweight tons and over; beginning **1984,** 10,000 deadweight tons and over; excludes liquid gas carriers. Incident is counted in the year it is reported. Based on data from "Lloyd's List" published by Lloyd's of London. "Casualties" include weather damage, strandings, collisions and other contact, fires and explosions, machinery damage, and other mishaps]

ITEM	Unit	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991	1992
Casualties	Number	906	(NA)	(NA)	340	451	408	456	528	541	507	396
Total losses [1]	Number	22	15	14	12	8	5	3	8	10	10	10
Deaths	Number	90	132	68	53	23	12	63	74	119	205	83
Oil spills	Number	45	32	15	9	8	12	13	31	31	26	17
Amount	1,000 tons	188	136	22	80	5	9	178	188	61	439	152

NA Not available. [1] Excludes losses due to hostilities.

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

No. 1088. Merchant Vessels—World and United States: 1960 to 1991

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

YEAR	WORLD: COMPLETED		WORLD: OWNED		U.S.: COMPLETED		U.S.: REGISTERED	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)
1960	2,005	8,382	36,311	129,770	49	379	4,059	24,837
1970	2,814	20,980	52,444	227,490	156	375	2,983	18,463
1980	2,412	13,101	73,832	419,911	205	555	5,579	18,464
1985	1,964	18,157	76,395	416,269	66	180	6,447	19,518
1986	1,634	16,845	75,266	404,910	36	223	6,496	19,901
1987	1,528	12,259	75,240	403,498	29	164	6,427	20,178
1988	1,575	10,909	75,680	403,406	60	11	6,442	20,832
1989	1,593	13,236	76,100	410,481	10	4	6,375	20,588
1990	1,672	15,885	78,336	423,627	16	15	6,348	21,328
1991	1,574	16,095	80,030	436,027	17	19	6,222	20,291

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

No. 1089. Merchant Vessels—Ships and Tonnage Lost Worldwide, by Type of Ship: 1980 to 1991

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

TYPE OF SHIP	SHIPS LOST					GROSS TONNAGE LOST (1,000)				
	1980	1985	1989	1990	1991	1980	1985	1989	1990	1991
Total [1]	**387**	**307**	**211**	**188**	**258**	**1,804**	**1,651**	**657**	**1,126**	**1,548**
Tankers	24	19	13	8	13	707	776	135	138	571
Ore/bulk carriers [2]	21	22	12	15	20	458	405	182	687	574
General cargo	211	155	92	87	116	478	363	250	202	300
Container ships	2	5	2	-	1	6	41	3	-	2
Passenger [3]	9	-	1	-	2	112	-	12	-	14
Fishing	96	66	67	50	69	30	26	29	20	33

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

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

No. 1090. Merchant Fleets of the World: 1980 to 1991

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

YEAR AND COUNTRY OF REGISTRY, **1991**	TOTAL		PASSENGER/ CARGO COMB.		FREIGHTERS		BULK CARRIERS [1]		TANKERS	
	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)	Number	Average age (yr.)
1980, world total	**24,867**	**13**	**468**	**24**	**14,242**	**14**	**4,798**	**10**	**5,359**	**12**
United States	864	23	65	34	471	23	20	22	308	20
Foreign	24,003	13	403	22	13,771	13	4,778	10	5,051	11
1985, world total	**25,555**	**14**	**375**	**25**	**13,937**	**15**	**5,787**	**11**	**5,456**	**13**
United States	737	23	37	38	417	25	25	9	258	19
Foreign	24,818	14	338	23	13,520	15	5,762	11	5,198	13
1989, world total [2]	**22,983**	**14**	**320**	**23**	**12,195**	**15**	**5,335**	**12**	**5,133**	**14**
United States	655	22	19	41	371	24	26	12	239	19
Foreign	22,328	14	301	22	11,824	15	5,309	12	4,894	13
1991, world total	**23,943**	**16**	**347**	**24**	**12,581**	**17**	**5,473**	**14**	**5,542**	**15**
United States	619	24	10	40	359	25	24	15	226	21
Privately-owned	394	18	3	41	167	17	23	15	201	20
Government-owned	225	34	7	40	192	34	1	15	25	33
Foreign	23,324	16	337	23	12,222	17	5,449	14	5,316	15
Antigua and Barbuda	105	13	-	-	88	13	3	21	14	14
Argentina	108	22	-	-	56	23	12	16	40	21
Bahamas	756	13	46	21	302	13	175	12	233	13
Brazil	259	18	2	30	83	26	89	12	85	16
British Colonies	712	18	6	23	393	20	192	14	121	18
Bulgaria	117	17	2	23	59	19	37	15	19	12
China: Mainland	1,359	20	18	23	880	21	278	16	183	18
Taiwan	211	13	-	-	127	14	65	9	19	13
Cyprus	1,210	16	6	38	599	15	469	16	136	16
Denmark (DIS) [3]	269	8	-	-	171	8	15	7	83	9
Egypt	134	19	4	32	105	20	14	8	11	22
France	102	15	5	17	48	14	7	10	42	16
Germany	492	9	9	8	396	9	30	12	57	10
Greece	914	18	26	35	216	21	449	15	223	18
Honduras	200	27	3	37	152	27	8	24	37	26
India	293	14	3	22	99	16	121	13	70	11
Indonesia	389	19	8	20	267	20	18	12	96	18
Iran	126	16	-	-	40	19	49	12	37	18
Italy	493	17	17	17	189	16	61	14	226	18
Japan	944	9	15	11	382	8	266	11	281	9
Liberia	1,550	13	20	21	380	12	553	13	597	13
Malaysia	169	16	-	-	103	19	19	12	47	10
Malta	640	19	5	43	303	19	196	18	136	20
Netherlands	362	10	5	17	281	10	15	9	61	10
Norway (NIS) [3]	770	13	13	11	198	14	236	13	323	13
Panama	3,040	14	30	31	1,662	15	711	13	637	12
Philippines	536	14	10	30	236	17	250	9	40	24
Poland	230	15	3	12	134	15	88	14	5	18
Romania	282	13	-	-	202	13	63	14	17	9
Singapore	478	13	1	17	238	15	78	9	161	12
South Korea	445	15	-	-	233	15	150	14	62	16
Spain	267	15	2	17	154	15	43	14	68	16
Sweden	172	14	4	10	85	14	19	16	64	13
Thailand	154	23	1	30	106	23	4	22	43	21
Turkey	347	17	3	34	200	15	94	17	50	19
United Kingdom	166	16	15	18	68	16	20	12	63	17
Vanuatu	109	13	1	39	53	12	46	13	9	12
All others	4,414	18	54	25	2,934	19	506	14	920	16

- Represents zero. [1] Includes bulk/oil, ore/oil, and ore/bulk/oil carriers. [2] Average age for the previous year. [3] International Shipping Registry which is an open registry under which the ship flies the flag of the specified nation but is exempt from certain taxation and other regulations.

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

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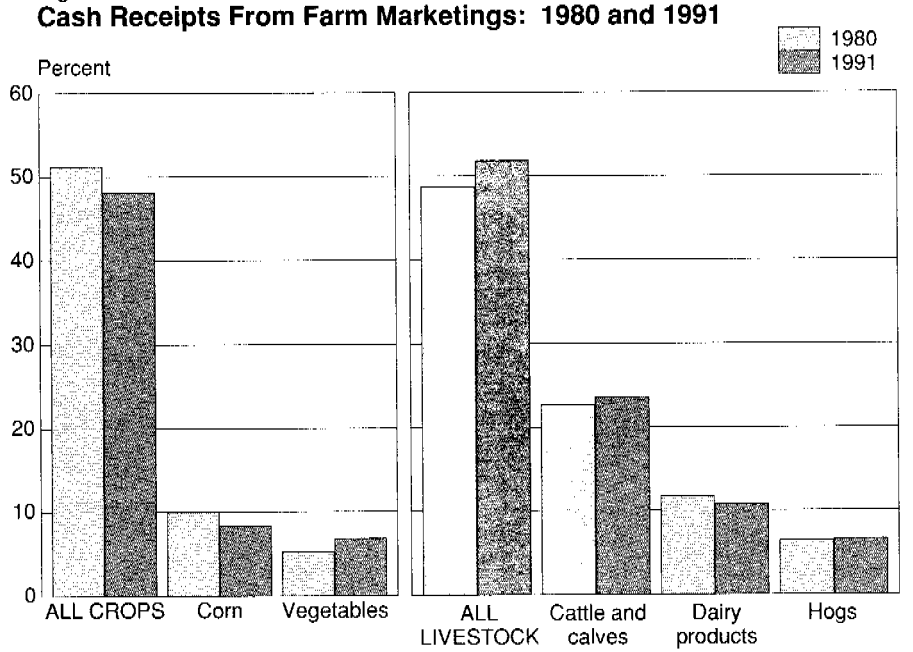
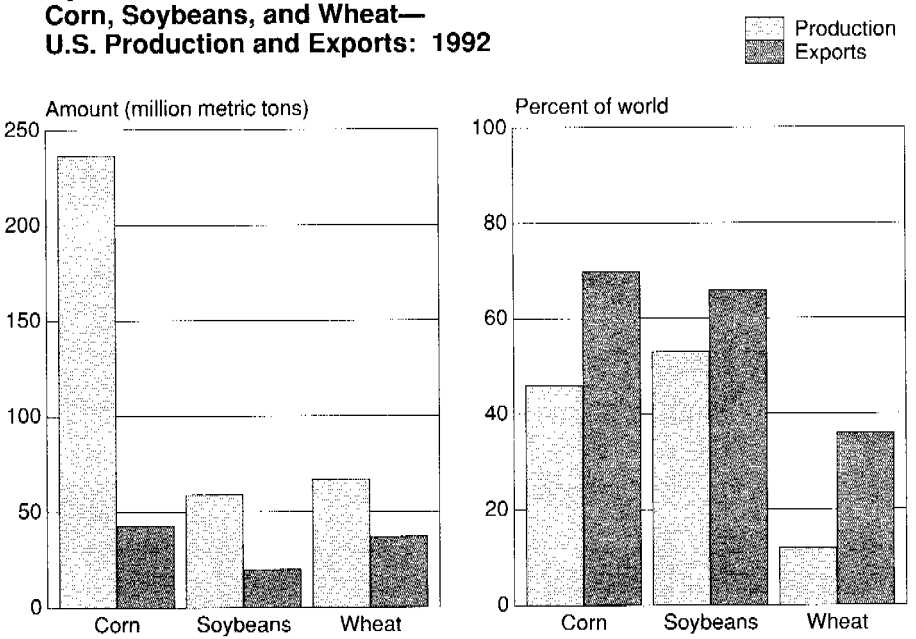
Figure 23.1
Cash Receipts From Farm Marketings: 1980 and 1991



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1111.

Figure 23.2
Corn, Soybeans, and Wheat— U.S. Production and Exports: 1992



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1122.

Agriculture

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

In Brief

Number of farms, 1992: 2.1 million
Leading States—
Texas 183,000
Missouri 107,000
Iowa 102,000
Farm marketings cash receipts, 1991: $167 billion
Leading commodities—
Cattle, calves $40 billion
Dairy products $18 billion
Corn $14 billion

The principal sources are the reports issued by the U.S. Bureau of the Census and by the National Agricultural Statistics Service (NASS) and the Economic Research Service (ERS) of the U.S. Department of Agriculture. The Bureau of the Census has taken a census of agriculture every 10 years from 1840 to 1920 and every 5 years from 1925 through 1974. Two 4-year censuses, taken for 1978 and 1982, adjusted the data reference year to coincide with the economic censuses. The 1987 Census of Agriculture is the most recent census for which reports are presently available. The Department of Agriculture publishes annually *Agricultural Statistics,* a general reference book on agricultural production, supplies, consumption, facilities, costs, and returns. The Economic Research Service publishes a series of annual reports, *Economic Indicators of the Farm Sector.* This series comprises five reports: *National Financial Summary, State Financial Summary, Production and Efficiency Statistics, Costs of Production—Livestock and Dairy,* and *Costs of Production—Major Field Crops.* Sources of current data on agricultural exports and imports include *Foreign Agricultural Trade of the United States,* published by the ERS, and the reports of the Bureau of the Census, particularly *U.S. Imports for Consumption and General Imports—HTSUSA Commodity by Country of Origin* (FT 247), *U.S. Exports, Harmonized Schedule B, Commodity by Country* (FT447), and *U.S. Merchandise Trade: Exports, General Imports, and Imports for Consumption* (FT925).

The 45 field offices of the NASS collect data on crops, livestock and products, agricultural prices, farm employment, and other related subjects mainly through sample surveys. Information is obtained on some 75 crops and 50 livestock items as well as scores of items pertaining to agricultural production and marketing. State estimates and supporting information are sent to the Agricultural Statistics Board of NASS which reviews the estimates and issues reports containing State and national data. Among these reports are annual summaries such as *Crop Production, Crop Values, Agricultural Prices,* and *Livestock Production, Disposition and Income.* For more information about concepts and methods underlying USDA's statistical series, see *Major Statistical Series of the U.S. Department of Agriculture* (Agricultural Handbook No. 671), a 12-volume set of publications.

Farms and farmland.—The Bureau of the Census has used varying definitions of a farm. Data from the census of agriculture reflect the definition of farm used for the census year. For the 1974, 1978, 1982, and 1987 Censuses of Agriculture, a farm was defined as any place from which $1,000 or more of agricultural products were produced and sold or normally would have been sold during the census year. Control may have been exercised through ownership or management, or through a lease, rental, or cropping arrangement. In the case of landowners who had one or more tenants or renters, the land operated by each was counted as a separate farm. The effect of the change in definition must be considered when comparing farms in the 1974, 1978, 1982, and

1987 censuses with those in previous censuses.

Unless otherwise stated in the specific tables of this section, the definition of a farm applicable to data originated by the Department of Agriculture is the one used by the Bureau of the Census for the agriculture census immediately preceding the year or years for which the data are shown. Farmland refers to all land under the control of a farm operator, including land not actually under cultivation or not used for pasture or grazing. Land used for pasture or grazing on a per head basis that was neither owned nor leased by a farm operator is not included except for grazing lands controlled by grazing associations leased on a per acre basis. Coverage estimates for 1978, 1982, and 1987 indicate about 3.4, 9.1, and 7.2 percent of all farms, respectively, were not included in census totals. Farms undercounted in these censuses were usually small and accounted for approximately 1 percent of the total value of agricultural products sold and approximately 2 percent of the land in farms. For more explanation about mail list compilation and census coverage, see Appendixes A and C, *1987 Census of Agriculture,* volume 1 reports, and *Coverage Evaluation, Volume 2, Part 2.*

Farm population.—Farm population consists of all persons living on farms in rural areas. Farm population data shown are based on the farm definition adopted for the 1974 Census of Agriculture.

Farm income.—Gross farm income comprises cash receipts from farm marketings of crops and livestock, Federal government payments made directly to farmers for farm-related activities, rental value of farm homes, value of farm products consumed in farm homes, and other farm-related income such as machine hire and custom work. Farm marketings represent quantities of agricultural products sold by farmers multiplied by prices received per unit of production at the local market. Information on prices received for farm products is generally obtained by the NASS Agricultural Statistics Board from surveys of firms (such as grain elevators, packers, and processors) purchasing agricultural commodities directly from producers. In some cases, the price information is obtained directly from the producers.

Crops.—Estimates of crop acreage and production by the NASS are based on current sample survey data obtained from individual producers and objective yield counts, reports of carlot shipments, market records, personal field observations by field statisticians, and reports from other sources. Prices received by farmers are marketing year averages. These averages are based on U.S. monthly prices weighted by monthly marketings during specific periods. U.S. monthly prices are State average prices weighted by marketings during the month. Marketing year average prices do not include allowances for outstanding loans, government purchases, deficiency payments or disaster payments.

All State prices are based on individual State marketing years, while U.S. marketing year averages are based on standard marketing years for each crop. For a listing of the crop marketing years and the participating States in the monthly program, see *Crop Values,* January 1992. Value of production is computed by multiplying State prices by each State's production. The U.S. value of production is the sum of State values for all States. Value of production figures shown in tables 1130-1132, 1134, and 1135 should not be confused with cash receipts from farm marketings which relate to sales during a calendar year, irrespective of the year of production.

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

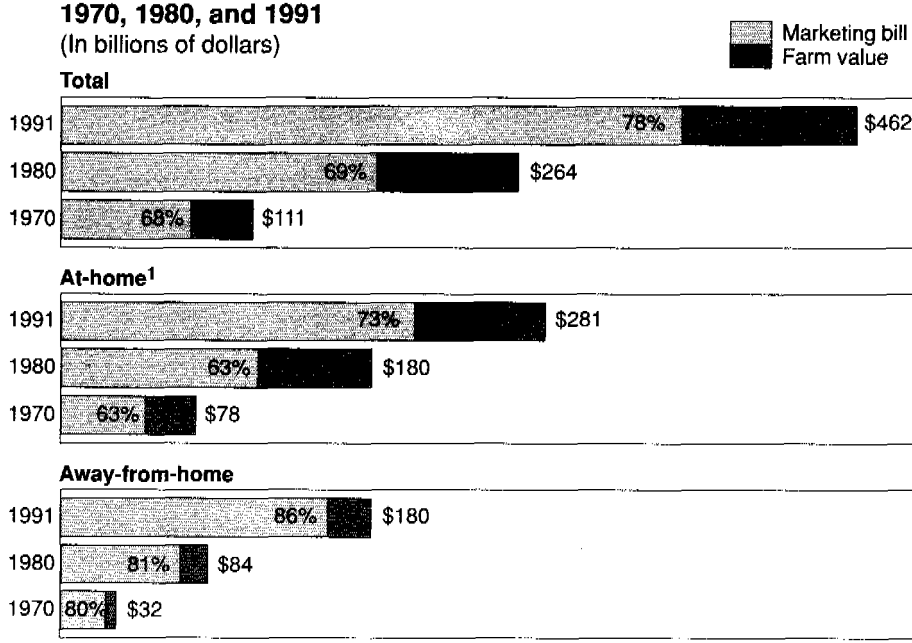
target price and loan rate, whichever is smaller.

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

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

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

Figure 23.3
Consumer Expenditures for Farm Foods: 1970, 1980, and 1991
(In billions of dollars)



[1]Food purchased from retail food stores for use at home.
Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1116.

No. 1091. Food and Fiber Sector of Domestic Economy—Employment and Value Added: 1980 to 1991

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

SECTOR	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991
EMPLOYMENT										
Food and fiber sector, total	**23.2**	**22.8**	**22.1**	**22.0**	**22.1**	**22.1**	**22.4**	**23.1**	**23.1**	**22.8**
Percent of domestic economy [1]	21.7	20.4	19.5	19.0	18.7	18.4	18.4	18.6	18.5	18.2
Farm sector	2.7	2.8	2.2	2.1	2.0	1.9	2.0	2.0	2.1	2.1
Nonfarm sector	20.5	20.0	19.9	19.9	20.0	20.2	20.4	21.1	21.0	20.8
Food processing	1.7	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5
Manufacturing	3.8	3.4	3.3	3.3	3.2	3.0	3.0	3.2	3.0	3.0
Transportation, trade, and retailing	7.1	7.1	7.2	7.3	7.4	7.4	7.5	7.8	7.8	7.7
Eating establishments	4.5	4.6	4.6	4.6	4.7	5.0	5.1	5.2	5.3	5.3
Other	3.4	3.2	3.1	3.2	3.2	3.2	3.2	3.4	3.4	3.4
VALUE ADDED [2]										
Food and fiber sector, total	**532.9**	**630.6**	**658.3**	**687.4**	**716.0**	**747.8**	**787.1**	**847.2**	**887.5**	**910.0**
Percent of domestic economy	19.7	18.5	17.4	17.0	16.8	16.5	16.1	16.1	16.1	16.0
Farm sector	48.4	46.6	48.3	52.4	48.8	51.6	52.6	59.9	64.7	61.7
Nonfarm sector	484.5	584.0	610.0	635.0	667.3	696.2	734.5	787.4	822.7	848.2
Food processing	61.4	76.6	81.1	84.5	91.5	91.8	97.1	101.9	107.2	110.2
Manufacturing	93.7	105.6	105.4	105.1	109.6	109.7	115.4	125.5	129.0	133.5
Transportation, trade, and retailing	161.3	194.2	203.4	211.2	218.1	228.0	240.0	256.9	268.7	275.3
Eating establishments	48.0	60.6	64.3	66.8	70.6	77.3	83.1	87.1	91.8	95.7
Other	120.0	147.0	155.8	167.4	177.4	189.3	198.8	215.9	226.1	233.6

[1] Based on civilian labor force. [2] Value added equals profits, rent, interest, wages, indirect business taxes, and depreciation.

Source: U.S. Dept. of Agriculture, Economic Research Service, unpublished data.

No. 1092. Farm Population and Employment: 1980 to 1992

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

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Farm population (1974 definition) [1]	6,051	5,628	5,787	5,754	5,355	5,226	4,986	4,951	4,801	4,591	4,632	(NA)
Percent of resident population	2.8	2.5	2.5	2.5	2.3	2.2	2.1	2.1	2.0	1.9	1.9	(NA)
Farm employment, total [2]	3,705	4,043	3,749	3,405	3,115	2,912	2,887	2,954	2,863	2,891	2,877	2,810
Self-employed and unpaid workers [3]	2,402	2,494	2,271	2,175	2,017	1,873	1,846	1,917	1,935	1,999	1,967	1,944
Hired workers [4]	1,303	1,549	1,478	1,230	1,098	1,039	1,051	1,037	928	892	910	866

NA Not available. [1] April-centered five-quarter averages for 1980 to 1983; annual average beginning 1984. [2] 1980 and 1989-92, average from Jan., April, July and Oct. surveys; 1982-83 based on July survey; 1984, average from July and Oct. surveys; 1985-88 average from April, July and Oct. surveys. [3] Includes farm operators doing 1 or more hours of farm work and unpaid workers doing 15 or more hours of farm work during survey week. [4] Includes all persons doing 1 or more hours of farm work for pay during survey week. Members of operators' families doing any farm work for cash wages are counted as hired workers.

Source: Population—U.S. Dept. of Agriculture, Economic Research Service and U.S. Bureau of the Census. Published in U.S. Bureau of the Census, *Current Population Reports*, P20-457, and earlier P20 and P27 reports. Farm employment—U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Labor*, periodic.

No. 1093. Farms—Number, 1974 to 1987, and Acreage, 1978 to 1987, by Size of Farm

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

SIZE OF FARM	NUMBER OF FARMS (1,000)				LAND IN FARMS (mil. acres)			CROPLAND HARVESTED (mil. acres)			PERCENT DISTRIBUTION, 1987		
	1974	1978	1982	1987	1978	1982	1987	1978	1982	1987	Number of farms	All land in farms	Cropland harvested
Total	**2,314**	**2,258**	**2,241**	**2,088**	**1,014.8**	**986.8**	**964.5**	**317.1**	**326.3**	**282.2**	**100.0**	**100.0**	**100.0**
Under 10 acres	128	151	188	183	0.6	0.7	0.7	0.2	0.3	0.2	8.8	0.1	0.1
10 to 49 acres	380	392	449	412	10.9	12.1	11.1	4.5	4.5	3.9	19.8	1.2	1.4
50 to 99 acres	385	356	344	311	25.9	24.8	22.5	10.2	9.5	7.9	14.9	2.3	2.8
100 to 179 acres	443	403	368	334	55.0	49.9	45.3	23.3	21.2	17.1	16.0	4.7	6.1
180 to 259 acres	253	234	211	192	50.6	45.7	41.5	23.7	21.7	17.2	9.2	4.3	6.1
260 to 499 acres	363	348	315	286	124.6	113.0	103.0	64.5	60.5	47.3	13.7	10.7	16.8
500 to 999 acres	207	213	204	200	146.7	140.5	138.5	75.2	77.6	67.4	9.6	14.4	23.9
1,000 to 1,999 acres	93	98	97	102	133.0	132.4	138.8	58.2	64.5	61.1	4.9	14.4	21.7
2,000 acres and over	62	63	65	67	467.4	467.5	463.2	57.3	66.6	60.2	3.2	48.0	21.3

Source: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. 1; and *1987*, vol. 1.

No. 1094. Farms—Number and Acreage, by Tenure of Operator: 1974 to 1987

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

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

No. 1095. Farm Operators—Tenure and Characteristics: 1982 and 1987

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

CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF $10,000 AND OVER		CHARACTERISTIC	ALL FARMS		FARMS WITH SALES OF $10,000 AND OVER	
	1982	1987	1982	1987		1982	1987	1982	1987
Total operators	2,241	2,088	1,143	1,060	Tenant	259	240	170	161
White	2,187	2,043	1,127	1,046					
Black	33	23	7	4	Principal occupation:				
American Indian, Eskimos, and Aleuts	7	7	2	2	Farming	1,235	1,138	901	811
Asian or Pacific Islander	8	8	5	5	Other	1,006	950	242	248
Other	6	7	2	2	Place of residence: [2]				
					On farm operated	1,581	1,488	833	776
Operators of Hispanic origin [1]	16	17	6	6	Not on farm operated	429	443	202	215
Female	122	132	37	42	Years on present farm: [2]				
					2 years or less	127	114	53	49
Under 25 years old	62	36	39	21	3 to 4 years	193	135	83	56
25 to 34 years old	294	243	173	147	5 to 9 years	360	304	167	138
35 to 44 years old	443	411	223	212	10 years or more	1,098	1,163	638	653
45 to 54 years old	505	455	264	228					
55 to 64 years old	536	496	288	263	Days worked off farm: [2]				
65 years old and over	400	447	156	188	None	862	844	591	561
Average age (years)	50.5	52.0	49.1	50.6	Less than 100 days	224	200	141	124
					100 to 199 days	189	178	77	80
Full owner	1,326	1,239	482	445	200 days or more	775	737	213	219
Part owner	656	609	491	454					

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

No. 1096. Farms—Number, Acreage, and Value, by Type of Organization: 1982 and 1987

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

ITEM	Unit	Total [1]	Individual or family	Partnership	Corporation	PERCENT DISTRIBUTION			
						Total [1]	Individual or family	Partnership	Corporation
ALL FARMS									
Number of farms: 1982	1,000	2,239	1,946	223	60	100.0	86.9	10.0	2.7
1987	1,000	2,088	1,809	200	67	100.0	86.7	9.6	3.2
Land in farms: 1982	Mil. acres	932	642	152	127	100.0	68.9	16.3	13.6
1987	Mil. acres	964	628	153	119	100.0	65.1	15.9	12.4
Value of land and buildings: [2] 1982	Bil. dol.	763	547	119	90	100.0	71.7	15.6	11.8
1987	Bil. dol.	604	424	95	69	100.0	70.1	15.7	11.4
Value of farm products sold: 1982	Bil. dol.	132	78	22	31	100.0	59.2	16.4	23.9
1987	Bil. dol.	136	77	23	35	100.0	56.3	17.1	25.6
FARMS WITH SALES OF $10,000 AND OVER									
Number of farms: 1982	1,000	1,143	934	152	52	100.0	81.7	13.3	4.6
1987	1,000	1,060	861	136	56	100.0	81.3	12.8	5.3
Land in farms: 1982	Mil. acres	811	536	141	124	100.0	66.1	17.4	15.3
1987	Mil. acres	829	525	143	116	100.0	63.3	17.3	14.0

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

Source of tables 1094-1096: U.S. Bureau of the Census, *Census of Agriculture: 1974*, vol. II; *1982*, vol. 1; and *1987*, vol. 1.

No. 1097. Farms—Number, Acreage, and Value, by State: 1987

[See also *Historical Statistics, Colonial Times to 1970,* series K 17-18]

REGION, DIVISION, AND STATE	ALL FARMS			FARMS WITH SALES OF $10,000 OR MORE			REGION, DIVISION, AND STATE	ALL FARMS			FARMS WITH SALES OF $10,000 OR MORE		
	Number of farms (1,000)	Land in farms (mil. acres)	Average size of farm (acres)	Number of farms (1,000)	Land in farms (mil. acres)	Average size of farm (acres)		Number of farms (1,000)	Land in farms (mil. acres)	Average size of farm (acres)	Number of farms (1,000)	Land in farms (mil. acres)	Average size of farm (acres)
U.S.	**2,088**	**964.5**	**462**	**1,060**	**829.0**	**782**	VA	45	8.7	194	16	5.9	377
Northeast	**123**	**21.4**	**174**	**61**	**16.0**	**261**	WV	17	3.4	196	3	1.4	431
N.E	**25**	**4.2**	**169**	**11**	**2.8**	**260**	NC	59	9.4	159	26	7.1	276
ME	6	1.3	214	3	0.9	332	SC	20	4.8	232	7	3.3	491
NH	2	0.4	169	1	0.2	283	GA	44	10.7	247	18	7.9	439
VT	6	1.4	240	3	1.1	325	FL	37	11.2	306	15	9.4	638
MA	6	0.6	99	2	0.4	153	**E.S.C**	**250**	**45.6**	**183**	**82**	**30.4**	**372**
RI	1	0.1	84	(Z)	(Z)	116	KY	92	14.0	152	34	9.4	276
CT	4	0.4	111	1	0.3	179	TN	80	11.7	147	22	7.2	329
M.A	**98**	**17.2**	**175**	**50**	**13.1**	**262**	AL	43	9.1	211	14	5.9	424
NY	38	8.4	223	21	6.7	327	MS	34	10.7	315	12	7.9	662
NJ	9	0.9	99	3	0.7	191	**W.S.C**	**335**	**184.4**	**551**	**129**	**153.3**	**1,184**
PA	51	7.9	153	26	5.7	221	AR	48	14.4	298	21	11.2	522
Midwest	**862**	**350.5**	**407**	**556**	**314.5**	**565**	LA	27	8.0	293	11	6.4	607
E.N.C	**365**	**86.6**	**237**	**219**	**76.3**	**348**	OK	70	31.5	449	29	25.1	878
OH	79	15.0	189	40	12.1	305	TX	189	130.5	691	69	110.5	1,606
IN	70	16.2	229	40	14.4	355	**West**	**278**	**311.3**	**1,118**	**139**	**277.5**	**1,999**
IL	89	28.5	321	63	27.0	431	**Mt**	**124**	**244.1**	**1,965**	**67**	**218.3**	**3,271**
MI	51	10.3	202	24	8.2	340	MT	25	60.2	2,451	16	54.4	3,427
WI	75	16.6	221	52	14.5	280	ID	24	13.9	577	14	12.0	881
W.N.C	**497**	**263.8**	**531**	**337**	**238.3**	**707**	WY	9	33.6	3,650	5	28.4	5,183
MN	85	26.6	312	58	23.8	407	CO	27	34.0	1,248	15	30.6	2,030
IA	105	31.6	301	83	30.2	365	NM	14	46.0	3,230	6	41.3	7,319
MO	106	29.2	275	50	22.7	457	AZ	8	36.3	4,732	4	33.7	9,411
ND	35	40.3	1,143	28	37.9	1,339	UT	14	10.0	710	6	8.6	1,452
SD	36	44.2	1,214	28	37.9	1,339	NV	3	10.0	3,300	1	9.3	6,288
NE	60	45.3	749	47	43.0	918	**Pac**	**154**	**67.3**	**466**	**72**	**59.2**	**821**
KS	69	46.6	680	43	42.8	1,002	WA	34	16.1	480	15	13.8	901
South	**824**	**281.2**	**341**	**304**	**221.0**	**727**	OR	32	17.8	556	12	15.4	1,319
S.A	**240**	**51.2**	**214**	**93**	**37.4**	**403**	CA	83	30.6	368	43	27.7	647
DE	3	0.6	205	2	0.5	291	AK	1	1.0	1,789	(Z)	0.6	3,411
MD	15	2.4	162	7	1.9	278	HI	5	1.7	353	2	1.6	798

Z Less than 500 farms or 50,000 acres.

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

No. 1098. Irrigated Farms and Acreage, by State: 1982 and 1987

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

STATE	IRRIGATED FARMS				LAND IN IRRIGATED FARMS				IRRIGATED LAND			
	Number (1,000)		Percent of all farms		Acreage (1,000)		Percent of all land in farms		Acreage (1,000)		Percent of all land in farms	
	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987	1982	1987
U.S. [1]	**278.3**	**291.6**	**12.4**	**13.9**	**246,603**	**241,069**	**24.9**	**24.9**	**49,002**	**46,386**	**5.0**	**4.8**
Arizona	4.4	4.2	60.4	55.3	18,871	17,167	49.9	47.3	1,098	914	2.9	2.5
California	58.4	58.9	70.8	70.7	18,402	17,567	57.2	57.4	8,461	7,596	26.3	24.8
Colorado	15.2	14.9	56.1	54.6	17,351	16,729	51.7	49.1	3,201	3,014	9.5	8.9
Florida	10.6	12.0	29.0	32.7	5,529	4,670	43.1	41.7	1,585	1,623	12.4	14.5
Idaho	17.4	16.6	70.2	68.8	9,168	9,053	65.8	64.9	3,450	3,219	24.8	23.1
Kansas	7.3	7.4	9.8	10.7	10,345	10,654	21.9	22.8	2,675	2,463	5.7	5.3
Louisiana	3.7	3.9	11.6	14.3	2,273	2,337	25.4	29.1	694	647	7.8	8.1
Montana	9.2	9.5	39.1	38.7	24,171	23,259	39.9	38.6	2,023	1,997	3.3	3.3
Nebraska	22.2	22.6	36.8	37.3	22,679	22,499	50.4	49.6	6,039	5,682	13.4	12.5
Nevada	2.2	2.2	79.2	73.3	7,881	7,806	78.9	78.1	830	779	8.3	7.8
New Mexico	6.2	7.0	45.9	49.2	14,755	12,385	31.3	26.9	807	718	1.7	1.6
North Dakota	0.8	0.8	2.2	2.2	1,416	1,497	3.5	3.7	163	168	0.4	0.4
Oklahoma	3.1	3.0	4.2	4.3	2,926	2,906	9.0	9.2	492	478	1.5	1.5
Oregon	15.3	14.4	44.9	45.0	11,382	11,340	64.1	63.6	1,808	1,648	10.2	9.3
South Dakota	1.8	1.9	4.8	5.1	4,198	3,791	9.5	8.5	376	362	0.9	0.8
Texas	19.8	19.8	10.6	10.4	22,161	20,270	16.8	15.5	5,576	4,271	4.2	3.3
Utah	11.2	11.1	79.9	79.2	7,598	7,594	77.7	76.0	1,082	1,161	11.1	11.6
Washington	16.3	15.4	45.0	45.9	6,003	5,468	36.4	33.9	1,638	1,519	9.9	9.4
Wyoming	5.3	5.2	59.6	56.7	18,132	18,207	54.1	54.1	1,565	1,518	4.7	4.5

[1] Includes other States not shown separately.

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

No. 1099. Farms—Number and Acreage: 1975 to 1992

[Based on 1974 census definition; for definition of farms and farmland, see text, section 23. Data for census years (indicated by italics) have been adjusted for underenumeration and are used as reference points along with data from acreage and livestock surveys in estimating data for other years. Minus sign (-) indicates decrease. See also *Historical Statistics, Colonial Times to 1970*, series K 4-7]

YEAR	FARMS		LAND IN FARMS		YEAR	FARMS		LAND IN FARMS	
	Number (1,000)	Annual change [1] (1,000)	Total (mil. acres)	Average per farm (acres)		Number (1,000)	Annual change [1] (1,000)	Total (mil. acres)	Average per farm (acres)
1975	2,521	(X)	1,059	420	1984	2,334	-45	1,018	436
1976	2,497	-24	1,054	422	1985	2,293	-41	1,012	441
1977	2,456	-41	1,048	427	1986	2,250	-43	1,005	447
1978	*2,436*	*-20*	*1,045*	*429*	*1987*	*2,213*	*-37*	*999*	*451*
1979	2,437	1	1,042	428	1988	2,197	-16	995	453
1980	2,440	3	1,039	426	1989	2,171	-26	991	457
1981	2,440	-	1,034	424	1990	2,140	-31	987	461
1982	*2,407*	*-33*	*1,028*	*427*	1991	2,105	-35	983	467
1983	2,379	-28	1,023	430	1992, prel.	2,096	-9	980	468

- Represents zero. X Not applicable. [1] Annual change from preceding year shown.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Numbers, 1975-80; Farms and Land in Farms, Final Estimates by States, 1979-1987*; and *Farm Numbers and Land In Farms*, July release.

No. 1100. Farms—Number and Acreage, by State: 1990 and 1992

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

STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM		STATE	FARMS (1,000)		ACREAGE (mil.)		ACREAGE PER FARM	
	1990	1992, prel.	1990	1992, prel.	1990	1992, prel.		1990	1992, prel.	1990	1992, prel.	1990	1992, prel.
U.S	**2,140**	**2,096**	**987**	**980**	**461**	**468**	Missouri	108	107	30	30	281	283
							Montana	25	25	61	60	2,449	2,439
Alabama	47	46	10	10	215	213	Nebraska	57	56	47	47	826	841
Alaska	1	1	1	1	1,724	1,778	Nevada	3	3	9	9	3,560	3,560
Arizona	8	8	36	36	4,615	4,500	New Hampshire	3	3	(Z)	(Z)	169	162
Arkansas	47	46	16	16	330	337	New Jersey	8	9	1	1	107	104
California	85	81	31	30	362	368	New Mexico	14	14	45	44	3,296	3,274
Colorado	27	26	33	33	1,249	1,286	New York	39	38	8	8	218	216
Connecticut	4	4	(Z)	(Z)	108	105	North Carolina	62	60	10	10	156	158
Delaware	3	3	1	1	197	207	North Dakota	34	33	41	40	1,191	1,224
Florida	41	39	11	11	266	269	Ohio	84	78	16	15	187	197
Georgia	48	46	13	12	260	263	Oklahoma	70	71	33	34	471	479
Hawaii	5	5	2	2	372	380	Oregon	37	38	18	18	488	487
Idaho	22	21	14	14	628	643	Pennsylvania	53	52	8	8	153	154
Illinois	83	81	29	29	343	352	Rhode Island	1	1	(Z)	(Z)	95	90
Indiana	68	65	16	16	240	246	South Carolina	25	25	5	5	208	212
Iowa	104	102	34	33	322	327	South Dakota	35	35	44	44	1,266	1,263
Kansas	69	67	48	48	694	713	Tennessee	89	88	12	13	139	143
Kentucky	93	91	14	14	152	155	Texas	186	183	132	130	710	710
Louisiana	32	30	9	9	278	290	Utah	13	13	11	11	856	856
Maine	7	7	1	1	201	200	Vermont	7	7	2	2	216	219
Maryland	15	16	2	2	148	141	Virginia	46	44	9	9	193	198
Massachusetts	7	7	1	1	99	99	Washington	37	38	16	16	432	421
Michigan	54	54	11	11	200	200	West Virginia	21	20	4	4	180	185
Minnesota	89	88	30	30	337	339	Wisconsin	80	79	18	17	220	219
Mississippi	40	38	13	13	325	337	Wyoming	9	9	35	35	3,910	3,783

Z Less than 500,000 acres.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Farm Numbers and Land in Farms* (July release).

No. 1101. Farm Real Estate—Summary: 1980 to 1992

[**1980** and **1986-89**,, value data as of **Feb. 1; 1983-85**, as of **April 1; 1990-92**, as of **January 1**. Excludes Alaska and Hawaii. Total value of land and buildings is estimated by multiplying the number of acres of farmland by the average value per acre of land and buildings. Per acre values are based on data from the census of agriculture. For intercensal years, estimates are based on surveys conducted by the U.S. Dept. of Agriculture]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Total value	**Bil. dol**	**763.3**	**803.9**	**812.9**	**719.4**	**641.1**	**597.1**	**626.9**	**653.5**	**658.2**	**667.5**	**670.8**
Average value per acre	Dollars	737	788	801	713	640	599	632	661	668	681	685
Average value, operating unit	$1,000	313.5	338.7	349.1	314.5	285.6	270.5	286.0	301.8	308.2	318.0	319.5

Source: U.S. Dept. of Agriculture, Economic Research Service, 1980-84, *Farm Real Estate Market Developments*, annual; thereafter, *Agricultural Resources, Agricultural Land Values and Markets, Situation and Outlook Report*, annual.

No. 1102. Farm Real Estate—Value of Land and Buildings, by State: 1985 to 1992

[See headnote, table 1101. 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			STATE	VALUE OF LAND AND BUILDINGS (mil. dol.)			AVERAGE VALUE OF LAND AND BUILDINGS, PER ACRE		
	1985	1990	1992	1985	1990	1992		1985	1990	1992	1985	1990	1992
U.S	**719,398**	**658,187**	**670,798**	**$713**	**$668**	**$685**	MT	14,800	14,399	15,202	243	238	252
							NE	22,911	25,905	26,790	485	550	569
AL	8,929	8,474	8,153	797	839	832	NV	2,171	1,727	2,057	244	194	231
AZ	11,062	9,468	10,879	295	263	302	NH	777	1,096	982	1,439	2,237	2,045
AR	14,425	11,625	11,219	907	750	724	NJ	2,833	4,032	4,201	2,951	4,634	4,774
CA	59,829	52,483	53,469	1,841	1,704	1,765	NM	8,324	8,722	10,582	185	196	239
CO	15,042	11,850	12,043	437	358	367	NY	7,464	8,182	8,723	820	974	1,051
CT	1,442	1,855	1,695	3,005	4,417	4,036	NC	14,373	12,251	12,136	1,331	1,263	1,264
DE	1,037	1,288	1,212	1,596	2,259	2,126	ND	15,253	13,770	14,477	373	340	358
FL	19,346	22,727	21,648	1,599	2,085	2,062	OH	19,203	18,903	19,616	1,215	1,204	1,249
GA	11,968	12,650	10,917	886	1,012	902	OK	19,691	16,401	16,296	597	497	494
ID	10,711	9,056	9,272	739	661	687	OR	11,077	10,164	10,737	615	571	603
IL	39,647	39,587	42,760	1,381	1,389	1,500	PA	12,416	14,637	14,744	1,427	1,807	1,820
IN	22,049	20,277	20,843	1,344	1,244	1,303	RI	218	352	303	2,990	5,028	4,595
IA	36,653	36,917	39,473	1,091	1,102	1,178	SC	4,939	4,727	4,747	898	909	931
KS	23,443	22,130	23,179	448	462	484	SD	12,856	14,543	16,113	289	328	365
KY	13,849	13,832	13,998	955	981	993	TN	12,650	12,350	12,219	944	996	985
LA	13,791	8,144	7,961	1,407	915	905	TX	94,025	65,340	61,066	694	495	466
ME	1,153	1,478	1,322	774	1,019	931	UT	5,947	4,396	4,801	513	389	425
MD	5,711	5,445	5,073	2,197	2,420	2,255	VT	1,515	1,797	1,642	947	1,190	1,087
MA	1,616	2,559	2,338	2,377	3,763	3,439	VA	10,566	13,492	11,998	1,112	1,516	1,363
MI	12,517	10,854	11,937	1,108	1,005	1,105	WA	15,187	12,464	12,672	943	779	792
MN	27,311	24,150	26,203	898	805	873	WV	2,186	2,268	2,659	607	613	719
MS	12,054	9,464	9,441	855	728	738	WI	16,905	14,133	15,221	944	803	870
MO	21,234	20,642	20,958	689	679	689	WY	6,287	5,185	4,819	181	149	138

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Resources, Agricultural Land Values and Markets, Situation and Outlook Report*, annual.

No. 1103. Foreign Ownership of U.S. Agricultural Land: 1991

[**In thousands of acres, except percent**. Covers "foreign persons" reporting under the Agricultural Foreign Investment Disclosure Act of 1978. As defined in the Act, a "foreign person" is any person who is not a U.S. citizen and who is not a permanent resident alien of the U.S. Foreign governments and entities are also "foreign persons." Also, each successive link in a chain of U.S. entities containing foreign interests is considered a "foreign person." An entity is deemed a "foreign person" if it is 10 percent or more foreign owned by a single foreign person or foreign persons acting in concert, or 50 percent foreign owned by a group of foreign persons not acting in concert, none of whom individually holds a 10 percent or greater interest in the entity. Therefore, acreage figures reported do not necessarily mean that they are wholly owned by foreign investors. Covers reports received and accepted as of December 31, 1991]

CHARACTERISTIC	ACREAGE OWNED [1]		ACREAGE ACQUIRED [2]		CHARACTERISTIC	ACREAGE OWNED [1]		ACREAGE ACQUIRED [2]	
	Total	Percent	Total	Percent		Total	Percent	Total	Percent
Total [3]	**14,809**	**100.0**	**227**	**100.0**	Country of foreign owner:				
Type of owner:					Canada	1,971	13.3	6	2.5
Corporation	10,762	72.7	166	73.0	Germany	757	5.1	19	8.2
Partnership	2,859	19.3	41	17.8	Netherlands Antilles	367	2.5	(Z)	(Z)
Individual	942	6.4	10	4.6	Switzerland	300	2.0	1	0.5
Other	245	1.7	11	4.6	United Kingdom	1,803	12.2	14	6.0
Size:					Through U.S. interest: [4]				
Less than 100 acres	106	0.7	3	1.1	Canada	1,691	11.4	6	2.5
100-299 acres	296	2.0	8	3.5	France	1,020	6.9	29	12.6
300-999 acres	892	6.0	20	8.7	Germany	445	3.0	1	0.3
1,000 acres or more	13,515	91.3	197	86.7	Japan	268	1.8	65	28.4
Land use:					Luxembourg	234	1.6	(Z)	(Z)
Cropland	2,495	16.9	35	15.3	Mexico	323	2.2	1	0.5
Pasture	3,904	26.4	31	13.8	Netherlands	316	2.1	2	0.8
Forest	7,316	49.4	146	64.3	Switzerland	333	2.3	46	20.0
Other agriculture	673	4.5	6	2.7	United Kingdom	1,327	9.0	6	2.8
Other nonagriculture	420	2.8	9	4.0					

Z Less than 500 acres or .05 percent. [1] Landholdings by foreign interests as of Dec. 31. [2] Acquisitions by foreign interests from Jan. 1-Dec. 31. [3] Includes other countries not shown separately. [4] Reports filed by U.S. corporations with foreign shareholders.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land Through December 31, 1991*, (Economic Research Service Staff Report AGES 9211), 1992.

No. 1104. Balance Sheet of the Farming Sector in Current and Constant (1987) Dollars: 1980 to 1991

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

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
CURRENT DOLLARS											
Assets	**1,089.0**	**1,056.2**	**1,063.6**	**975.7**	**892.8**	**847.7**	**911.3**	**951.5**	**985.8**	**1,003.6**	**1,004.1**
Physical assets:											
Real estate	850.1	819.1	829.3	735.0	657.0	613.0	658.6	682.2	703.9	711.4	705.6
Nonreal estate	199.6	194.4	189.6	193.0	186.5	181.0	196.1	212.1	223.6	231.5	232.9
Livestock and poultry [1]	60.6	53.0	49.5	49.5	46.3	47.8	58.0	62.2	66.2	70.9	68.4
Machinery, motor vehicles	86.9	92.6	92.1	91.1	88.3	86.1	84.5	86.1	89.2	88.6	88.0
Crops stored	32.7	25.8	23.6	26.1	22.9	16.3	17.5	23.3	23.4	22.8	23.6
Household furnishings, equipment	19.4	23.0	24.4	24.3	27.8	28.7	32.9	37.0	42.2	46.4	50.4
Purchased inputs	(NA)	(NA)	(NA)	2.0	1.2	2.1	3.2	3.5	2.6	2.8	2.5
Financial assets	39.3	42.8	44.6	47.7	49.3	53.8	56.7	57.2	58.3	60.8	65.6
Investment in cooperatives	19.3	21.9	22.8	24.3	24.3	24.4	25.3	25.1	26.3	27.5	28.4
Other financial assets	20.0	20.9	21.8	23.4	25.0	29.4	31.4	32.1	32.0	33.3	37.2
Claims	**1,089.0**	**1,056.2**	**1,063.6**	**975.7**	**892.8**	**847.7**	**911.3**	**951.5**	**985.8**	**1,003.6**	**1,004.1**
Debt	178.7	203.1	206.5	204.3	187.9	166.6	153.7	148.5	146.0	145.1	147.0
Real estate debt	97.5	111.3	113.7	112.3	105.7	95.9	87.7	83.0	80.5	78.4	79.1
Nonreal estate debt	81.2	91.8	92.7	92.0	82.2	70.8	66.0	65.6	65.5	66.7	67.8
Equity	910.3	853.1	857.1	771.4	704.9	681.0	757.6	802.9	839.8	858.5	857.1
Farm debt/asset ratio (percent)	**16.4**	**19.2**	**19.4**	**20.9**	**21.0**	**19.7**	**16.9**	**15.6**	**14.8**	**14.5**	**14.6**
CONSTANT (1987) DOLLARS [2]											
Assets	1,518.8	1,260.4	1,219.7	1,072.2	945.8	874.8	911.3	915.8	908.6	886.6	852.3
Debt	249.3	242.4	236.8	224.5	199.0	171.9	153.7	142.9	134.6	128.2	124.8
Equity	1,269.6	1,018.0	982.9	847.7	746.7	702.8	757.6	772.8	774.0	758.4	727.6

NA Not available. [1] Excludes horses and mules. [2] Constant dollar figures are based on gross domestic product implicit price deflators for year.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1991.*

No. 1105. Percent Distribution of Farms and Farm Debt, by Debt/Asset Ratio: 1987 to 1991

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

VALUE OF SALES AND TYPE OF FARM	FARMS					FARM DEBT				
	Total	Less than 11 percent	11 to 40 percent	41 to 70 percent	Over 70 percent	Total	Less than 11 percent	11 to 40 percent	41 to 70 percent	Over 70 percent
1987	100	58	24	11	7	100	6	34	30	29
1988	100	62	24	9	5	100	7	40	31	21
1989	100	62	24	9	4	100	8	44	31	17
1990	100	61	26	10	4	100	7	47	33	14
1991, total	**100**	**66**	**24**	**7**	**2**	**100**	**7**	**50**	**32**	**11**
Less than $10,000	100	77	17	4	2	100	9	56	26	9
$10,000 to $19,999	100	75	18	5	1	100	8	56	28	8
$20,000 to $39,999	100	70	23	5	2	100	12	52	18	18
$40,000 to $99,999	100	52	34	10	4	100	8	52	26	14
$100,000 to $249,999	100	39	41	16	4	100	5	49	33	13
$250,000 to $499,999	100	38	37	20	4	100	7	47	38	9
$500,000 and over	100	40	41	15	4	100	4	49	38	9
Cash grain	100	54	32	11	4	100	5	52	32	11
Tobacco	100	71	23	5	-	100	13	50	32	5
Cotton	100	43	34	16	7	100	5	44	32	19
Other field crops	100	72	19	6	3	100	7	48	28	17
Vegetable, fruit, and nut	100	74	20	5	2	100	7	46	40	7
Nursery, greenhouse	100	72	18	8	2	100	4	53	33	10
Beef, hog, and sheep	100	74	19	6	2	100	8	48	32	12
Poultry	100	53	32	10	5	100	6	54	27	13
Dairy	100	42	41	15	2	100	6	51	33	11
Other livestock	100	68	26	5	2	100	8	66	17	9

- Represents or rounds to zero.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Financial Characteristics of U.S. Farms*, annual.

No. 1106. Farms, Farm Income, Assets, and Debt, by Value of Sales: 1991

FARMS WITH VALUE OF SALES OF—	Number of farms [1] (1,000)	Gross cash income [2] (bil. dol.)	Cash receipts (bil. dol.)	Govt. payments (bil. dol.)	Net cash income [2] (bil. dol.)	Assets [3] (bil. dol.)	Debt [3] (bil. dol.)	Debt/asset ratio [3] (percent)	PERCENT DISTRIBUTION		
									Number of farms [1]	Gross cash income [2]	Assets [3]
Total	**2,105**	**183.2**	**167.3**	**8.2**	**58.0**	**1,004.1**	**147.0**	**14.6**	**100**	**100**	**100**
Less than $20,000	1,229	9.3	6.9	0.8	−0.1	287.8	25.6	8.9	58	5	29
$20,000 to $39,999	240	8.3	6.9	0.6	2.2	101.0	11.0	10.9	11	5	10
$40,000 to $99,999	309	23.9	20.2	2.1	7.6	184.8	26.1	14.1	15	13	18
$100,000 to $249,999	215	37.3	33.3	2.3	13.0	195.7	34.3	17.5	10	20	20
$250,000 to $499,999	69	25.9	24.0	1.2	9.1	100.9	19.1	19.0	3	14	10
$500,000 to $999,999	26	19.4	18.1	0.8	6.5	64.8	14.3	22.0	1	11	7
$1 million and over	16	59.1	57.7	0.4	19.6	69.1	16.6	24.1	1	32	7

[1] Based on 1974 census definition. See text, section 23. [2] For components of income, see table 1109. Minus sign (-) indicates loss. [3] Data as of December 31. Includes farm households.

No. 1107. Net Cash Income and Net Cash Flow From Farming: 1980 to 1991

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

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Net cash income	34.2	32.8	38.1	38.4	37.4	47.1	47.8	55.8	58.1	58.9	61.3	58.0
Gross cash income	143.3	146.0	151.3	151.1	156.1	157.9	152.8	165.2	172.7	180.2	186.4	183.2
Cash expenses	109.1	113.2	113.2	112.8	118.7	110.7	105.0	109.4	114.6	121.2	125.2	125.2
Change in loans outstanding	15.3	15.6	6.4	2.3	2.7	−16.2	−20.6	−12.6	−5.0	−2.2	−0.4	2.0
Real estate loans	10.0	9.1	3.0	1.4	3.5	−6.6	−9.7	−8.0	−4.8	−2.3	−1.7	0.7
Nonreal estate loans [1]	5.3	6.5	3.4	0.9	−0.8	9.6	−11.0	−4.6	−0.3	0.1	1.3	1.2
Net change in other financial assets	0.1	0.2	0.2	0.3	0.2	0.7	1.1	−0.2	0.5	0.1	0.4	1.0
Net rent received by nonoperator landlords	6.1	6.2	5.5	5.2	8.2	7.7	6.1	7.1	7.3	8.2	8.3	7.5
Capital expenditures	18.0	16.8	13.3	12.7	12.5	9.2	8.5	11.2	11.3	12.6	13.4	12.2
Net cash flow [2]	37.6	37.9	37.0	33.4	36.0	30.1	25.9	39.0	49.5	52.4	56.2	56.1

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

Source of tables 1106 and 1107: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary*, annual.

No. 1108. Gross Farm Product—Summary: 1980 to 1991

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

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
CURRENT DOLLARS											
Farm output, total [1]	**142.9**	**152.0**	**135.1**	**160.0**	**152.7**	**144.0**	**152.1**	**158.2**	**178.7**	**185.3**	**179.8**
Cash receipts from farm marketings	140.3	135.3	140.2	144.6	136.3	135.2	147.7	159.3	166.5	172.3	169.4
Farm housing	5.1	5.0	5.1	5.1	5.0	4.9	4.9	4.9	5.0	5.2	5.3
Other farm income	2.4	4.8	4.1	3.5	4.6	4.4	5.1	4.6	5.0	4.1	4.3
Change in farm inventories	−6.1	5.8	−15.4	5.7	5.8	−1.5	−6.4	−11.3	1.5	3.1	-
Less: Intermediate goods and services purchased [2]	86.8	86.9	85.9	91.4	85.6	81.1	86.1	90.6	97.6	100.3	100.6
Equals: **Gross farm product**	**56.1**	**65.1**	**49.2**	**68.5**	**67.1**	**62.9**	**66.0**	**67.6**	**81.1**	**85.0**	**79.1**
Less: Consumption of fixed capital	19.4	22.8	23.2	23.2	22.9	22.5	22.0	21.6	21.9	21.6	21.3
Indirect business tax [3]	3.0	3.0	3.2	3.1	3.3	3.3	3.6	3.6	3.8	4.2	4.4
Plus: Subsidies to operators	1.0	2.2	7.5	7.0	6.3	9.5	13.9	11.8	9.3	7.8	7.0
Equals: **Farm national income**	**34.7**	**41.6**	**30.3**	**49.2**	**47.2**	**46.6**	**54.3**	**54.2**	**64.7**	**67.0**	**60.4**
CONSTANT (1987) DOLLARS											
Farm output, total [1]	**137.1**	**142.2**	**133.2**	**139.0**	**146.0**	**146.4**	**152.1**	**146.5**	**151.1**	**156.8**	**155.5**
Cash receipts from farm marketings	130.7	127.9	131.2	127.8	133.1	137.9	147.7	143.9	141.9	145.5	146.4
Farm housing	6.3	5.5	5.4	5.4	5.3	5.1	4.9	4.7	4.6	4.5	4.5
Other farm income	2.3	4.5	3.8	3.1	4.3	4.6	5.1	4.1	4.2	3.7	3.8
Change in farm inventories	−3.4	3.1	−8.3	1.7	2.4	−2.1	−6.4	−7.0	−0.1	2.5	0.3
Less: Intermediate goods and services purchased [2]	86.1	82.0	79.5	83.9	81.8	82.2	86.1	83.3	84.9	86.2	86.1
Equals: **Gross farm product**	**51.0**	**60.2**	**53.7**	**55.1**	**64.2**	**64.3**	**66.0**	**63.2**	**66.2**	**70.5**	**69.4**
Less: Consumption of fixed capital	26.7	26.5	25.8	25.1	24.3	23.1	22.0	21.1	20.5	19.5	18.7
Indirect business tax [3]	2.8	3.3	2.9	3.0	3.5	3.5	3.6	3.5	3.6	3.9	3.8
Plus: Subsidies to operators	11.9	11.1	11.6	10.7	11.4	12.3	13.9	12.9	12.7	13.3	13.1
Equals: **Farm national income**	**33.4**	**41.5**	**36.5**	**37.7**	**47.8**	**49.9**	**54.3**	**51.6**	**54.8**	**60.4**	**60.0**

- Represents zero. [1] Includes farm products consumed in farm households where raised, not shown separately. [2] Includes rent paid to nonoperator landlords. [3] Includes nontax liability.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, July 1992; and *National Income and Product Accounts of the United States: Volume 2, 1959-88*.

No. 1109. Farm Income and Expenses: 1980 to 1991

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

ITEM	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Gross farm income	**149.3**	**166.3**	**164.1**	**153.9**	**168.0**	**161.2**	**156.1**	**168.5**	**175.4**	**191.1**	**196.0**	**189.5**
Cash income	143.3	146.0	151.3	151.1	156.1	157.9	152.9	165.2	172.7	180.2	186.4	182.2
Farm marketings	139.7	141.6	142.6	136.8	142.8	144.1	135.4	141.8	151.1	161.0	169.9	167.3
Crops	71.7	72.5	72.3	67.2	69.9	74.3	63.8	65.9	71.7	76.9	80.0	80.5
Livestock and products	68.0	69.2	70.3	69.6	72.9	69.8	71.6	76.0	79.4	84.1	89.9	86.7
Government payments	1.3	1.9	3.5	9.3	8.4	7.7	11.8	16.7	14.5	10.9	9.3	8.2
Other farm income [1]	2.3	2.5	5.2	5.1	4.9	6.0	5.7	6.6	6.1	8.2	7.2	7.6
Value of home consumption	1.2	1.2	1.1	1.0	1.0	0.9	0.9	0.7	0.7	0.7	0.7	0.6
Rental value of dwellings [2]	11.0	12.6	13.1	12.6	4.9	4.7	4.6	4.9	5.4	5.5	5.4	5.3
Value of inventory adjustment [3]	−6.3	6.5	−1.4	−10.9	6.0	−2.3	−2.2	−2.3	−3.4	4.8	3.5	0.4
Expenses of farm production	**133.1**	**139.4**	**140.3**	**139.6**	**141.9**	**132.4**	**125.1**	**128.8**	**134.3**	**141.2**	**145.1**	**144.9**
Intermediate products	76.1	76.6	75.4	75.8	78.0	72.3	70.6	74.8	79.7	84.3	86.6	87.6
Farm origin	34.9	33.3	31.4	32.1	32.3	29.3	30.4	32.6	36.5	37.7	39.1	38.1
Feed purchased	21.0	20.9	18.6	20.6	19.4	16.9	17.5	17.5	20.4	21.0	20.7	19.8
Livestock, poultry purchased	10.7	9.0	9.7	8.8	9.5	9.2	9.8	11.8	12.8	13.1	14.8	14.4
Seed purchased [4]	3.2	3.4	3.2	2.7	3.4	3.1	3.2	3.3	3.4	3.6	3.6	4.0
Manufactured inputs	22.4	23.9	22.1	20.1	22.4	20.2	18.2	18.1	18.7	20.0	21.1	21.7
Fertilizer and lime	9.5	9.4	8.0	7.1	8.4	7.5	6.8	6.5	6.9	7.2	7.1	7.4
Pesticides	3.5	4.2	4.3	3.9	4.7	4.3	4.3	4.5	4.6	5.4	5.7	6.3
Fuel and oil	7.9	8.6	7.7	7.2	7.3	6.4	5.3	5.0	4.9	4.8	5.7	5.5
Electricity	1.5	1.7	2.0	2.0	2.1	1.9	1.8	2.2	2.3	2.5	2.5	2.5
Repairs and maintenance [5]	7.1	7.0	6.4	6.5	6.4	6.4	6.4	6.8	6.9	7.3	7.3	7.2
Other [6]	11.8	12.4	15.5	17.1	16.9	16.5	15.5	17.4	17.6	19.2	19.0	20.5
Interest	16.3	19.9	21.8	21.4	21.1	18.6	16.5	15.0	14.7	14.7	14.5	13.9
Real estate	7.5	9.1	10.5	10.8	10.7	9.9	9.1	8.2	7.9	7.8	7.6	7.3
Nonreal estate	8.7	10.7	11.3	10.6	10.4	8.7	7.4	6.8	6.8	6.9	6.9	6.6
Contract, hired labor expenses [7]	9.3	8.9	9.4	8.9	9.4	10.0	9.5	10.0	10.4	11.1	12.5	12.6
Net rent to nonoperator landlords [8]	6.1	6.2	5.5	5.2	8.1	7.7	6.1	7.1	7.3	8.2	8.3	7.5
Capital consumption [9]	21.5	23.6	24.2	23.8	20.8	19.3	17.8	17.1	17.3	17.8	17.5	17.4
Property taxes	3.9	4.2	4.0	4.5	4.3	4.5	4.6	4.9	4.8	5.1	5.6	6.0
Net farm income	**16.1**	**26.9**	**23.8**	**14.2**	**26.1**	**28.8**	**31.1**	**39.7**	**41.1**	**49.9**	**51.0**	**44.6**

[1] Includes forest product sales. [2] Data for 1980 to 1983 are not comparable with later data. [3] Minus sign (-) indicates decrease in inventories. [4] Includes bulbs, plants, and trees. [5] Expenditures for repairs and maintenance of farm buildings, motor vehicles, and machinery. [6] Includes machine hire and customwork expenses; marketing, storage, and transportation expenses and miscellaneous expenses. [7] Includes Social Security payments and perquisites. [8] Data for years 1980-83, and 1984 and later are based on different sources, creating potential inconsistencies in estimates among these periods. [9] Depreciation and accidental damage.

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

No. 1110. Commodity Credit Corporation—Net Outlays, by Commodity and Function: 1980 to 1992

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

COMMODITY	1980	1990	1991	1992	FUNCTION	1980	1990	1991	1992
Total	**2,752**	**6,471**	**10,110**	**9,738**	**Total**	**2,752**	**6,471**	**10,110**	**9,738**
Feed grains	1,286	2,721	2,722	2,510	Price support loans [4]	−66	−399	418	584
Wheat	879	806	2,958	1,710	Direct payments [5]	418	4,370	6,341	5,847
Cotton, upland	64	−79	382	1,443	Deficiency payments	79	4,178	6,224	5,491
Dairy	1,011	505	839	232	Diversion payments	56	-	-	-
Rice	−76	667	867	715					
Wool	35	104	172	191	1988/89 crop disaster	(X)	[3]5	6	960
Honey	9	47	19	17	Emergency livestock/forage assistance	23	156	115	94
Peanuts	28	1	48	41	Purchases [6]	1,681	−48	646	321
Sugar	−405	15	−20	−19	Producer storage payments	254	185	1	14
Tobacco	−88	−307	−143	29	Processing, storage and transportation	259	317	394	185
Soybeans	116	5	40	−29	Operating expense [1]	157	618	625	6
Operating expense [1]	157	618	625	6	Interest expenditure	518	632	745	532
Interest expenditure	518	632	745	532	Export programs [2]	−669	−34	733	1,455
Export programs [2]	−669	−34	733	1,455	Other	177	669	86	−260
1988/89 disaster/livestock assistance	(X)	[3]161	121	1,054					
Other	−113	609	2	−149					

- Represents zero. X Not applicable. [1] Excludes CCC transfers to the general sales manager. [2] Covers the direct export credit sales program, the export guarantee program, and transfers to the general sales manager. [3] Approximately $1.5 billion in benefits to farmers under the Disaster Assistance Act of 1989 were paid in generic certificates and were not recorded directly as disaster assistance outlays. [4] Price support loans made less loans repaid. [5] Includes disaster payments; and, beginning 1990, dairy termination program. Cash payments only. For 1990-92 excludes generic certificates. [6] Purchases less sales proceeds.

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

No. 1111. Farm Income—Cash Receipts From Farm Marketings: 1980 to 1991

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

COMMODITY	FARM MARKETINGS (mil. dol.)								PERCENT		
	1980	1985	1986	1987	1988	1989	1990	1991	1980	1990	1991
Total	**139,737**	**144,114**	**135,361**	**141,844**	**151,102**	**161,027**	**169,920**	**167,292**	**100.0**	**100.0**	**100.0**
All crops [1]	71,746	74,293	63,807	65,851	71,663	76,879	79,999	80,547	51.3	47.1	48.1
Barley	736	1,039	835	754	862	765	802	822	0.5	0.5	0.5
Corn	13,959	16,880	12,397	9,983	8,928	11,388	13,358	13,854	10.0	7.9	8.3
Cotton lint, seed	4,447	3,687	3,371	4,189	4,546	5,033	5,489	5,589	3.2	3.2	3.3
Hay	1,917	2,390	2,246	2,533	3,132	3,388	3,286	3,044	1.4	1.9	1.8
Oats	(NA)	298	178	260	305	268	222	154	(NA)	0.1	0.1
Peanuts	607	1,005	1,074	1,027	1,116	1,117	1,258	1,393	0.4	0.7	0.8
Rice	1,519	1,042	720	720	1,096	942	1,076	1,092	1.1	0.6	0.7
Sorghum	1,392	1,981	1,332	1,100	1,068	1,240	1,016	1,132	1.0	0.6	0.7
Soybean	14,241	11,161	9,235	10,017	12,138	10,524	10,790	10,778	10.2	6.4	6.4
Sunflower/safflower	(NA)	242	254	211	224	212	219	304	(NA)	0.1	0.2
Tobacco	2,672	2,699	1,894	1,816	2,083	2,415	2,741	2,886	1.9	1.6	1.7
Wheat	8,854	7,909	4,975	5,044	6,356	7,286	6,421	5,716	6.3	3.8	3.4
Vegetables [2]	7,307	8,572	8,859	9,898	9,787	11,534	11,455	11,293	5.2	6.7	6.8
Dry beans	(NA)	439	437	444	421	688	690	512	(NA)	0.4	0.3
Snap beans	(NA)	167	150	171	166	228	205	207	(NA)	0.1	0.1
Broccoli	(NA)	239	240	240	292	276	268	242	(NA)	0.2	0.1
Carrots	(NA)	206	335	248	268	297	273	309	(NA)	0.2	0.2
Celery	(NA)	190	211	199	231	268	215	206	(NA)	0.1	0.1
Sweet corn	(NA)	368	360	372	360	468	468	494	(NA)	0.3	0.3
Cucumbers	(NA)	181	170	188	196	203	231	229	(NA)	0.1	0.1
Lettuce	(NA)	675	758	1,003	1,040	950	844	818	(NA)	0.5	0.5
Onions	(NA)	372	415	536	498	538	542	604	(NA)	0.3	0.4
Potatoes	(NA)	1,601	1,377	1,707	1,626	2,336	2,534	2,048	(NA)	1.5	1.2
Tomatoes	(NA)	1,198	1,265	1,466	1,415	1,841	1,626	1,799	(NA)	1.0	1.1
Fruits, tree nuts [2]	6,557	6,946	7,252	8,065	9,202	9,296	9,534	9,882	4.7	5.6	5.9
Apples	(NA)	892	927	1,060	1,109	1,114	1,162	1,659	(NA)	0.7	1.0
Avocados	(NA)	139	163	120	212	224	245	201	(NA)	0.1	0.1
Grapefruit	(NA)	319	358	408	471	436	362	390	(NA)	0.2	0.2
Grapes	(NA)	961	1,177	1,362	1,600	1,866	1,677	1,619	(NA)	1.0	1.0
Lemons	(NA)	237	157	226	188	223	307	259	(NA)	0.2	0.2
Oranges	(NA)	1,404	1,184	1,363	1,825	1,786	1,761	1,565	(NA)	1.0	0.9
Peaches	(NA)	295	315	311	382	364	372	393	(NA)	0.2	0.2
Pears	(NA)	193	198	196	218	259	261	272	(NA)	0.2	0.2
Plums and prunes	(NA)	196	200	207	255	252	295	258	(NA)	0.2	0.2
Strawberries	(NA)	451	504	554	536	538	580	634	(NA)	0.3	0.4
Almonds	(NA)	361	462	648	600	481	598	540	(NA)	0.4	0.3
Pecans	(NA)	163	197	140	167	179	248	307	(NA)	0.1	0.2
Walnuts	(NA)	175	194	243	194	245	236	280	(NA)	0.1	0.2
Sugar beets	(NA)	774	902	1,028	1,022	1,057	1,178	1,217	(NA)	0.7	0.7
Sugarcane	(NA)	717	742	803	854	870	820	902	(NA)	0.5	0.5
Mushrooms	(NA)	491	491	519	573	630	667	668	(NA)	0.4	0.4
Greenhouse, nursery	(NA)	5,407	5,983	6,767	7,081	7,617	8,227	8,405	(NA)	4.8	5.0
All livestock and products [1]	67,991	69,822	71,553	75,993	79,438	84,148	89,921	86,745	48.7	52.9	51.9
Cattle and calves	31,819	29,002	28,865	33,583	36,810	36,894	39,945	39,632	22.8	23.5	23.7
Dairy products	16,365	18,055	17,724	17,727	17,641	19,396	20,210	18,114	11.7	11.9	10.8
Hogs	8,942	9,033	9,734	10,336	9,207	9,475	11,552	11,061	6.4	6.8	6.6
Broilers	4,303	5,668	6,784	6,177	7,435	8,778	8,365	8,385	3.1	4.9	5.0
Eggs	3,247	3,262	3,543	3,208	3,067	3,862	4,010	3,861	2.3	2.4	2.3
Turkeys	1,273	1,820	1,949	1,703	1,951	2,234	2,379	2,344	0.9	1.4	1.4
Sheep and lambs	(NA)	514	481	558	476	487	414	399	(NA)	0.2	0.2
Horses and mules	(NA)	560	500	540	540	524	490	466	(NA)	0.3	0.3
Aquaculture	(NA)	205	230	290	324	407	541	494	(NA)	0.3	0.3

NA Not available. [1] Includes other commodities not shown separately. [2] Melons included with vegetables.

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

No. 1112. Government Payments to Farms, by Program: 1980 to 1991

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

PROGRAM	1980	1985	1986	1987	1988	1989	1990	1991
Total	**1,285**	**7,705**	**11,814**	**16,747**	**14,480**	**10,887**	**9,298**	**8,214**
Feed grain	382	2,861	5,158	8,490	7,219	3,141	2,701	2,649
Wheat	211	1,950	3,500	2,931	1,842	603	2,311	2,166
Cotton	172	1,106	1,042	1,204	924	1,184	441	407
Rice	2	577	423	475	465	671	465	550
Wool	28	98	112	144	117	81	96	154
Conservation	214	189	254	1,531	1,607	1,771	1,898	1,858
Miscellaneous [1]	276	924	1,325	1,972	2,306	3,436	1,386	431

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

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: National Financial Summary, 1991*.

No. 1113. Farm Assets, Debt, and Income, by State: 1990 and 1991

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

DIVISION AND STATE	ASSETS (mil. dol.)		DEBT (mil. dol.)		DEBT/ASSET RATIO (percent)		GROSS FARM INCOME (mil. dol.)		NET FARM INCOME (mil. dol.)	
	1990	1991	1990	1991	1990	1991	1990	1991	1990	1991
United States	**1,003,562**	**1,004,109**	**145,067**	**146,983**	**14.5**	**14.6**	**196,033**	**189,496**	**50,957**	**44,609**
New England:										
Maine	2,588	2,442	332	298	12.8	12.2	557	486	175	109
New Hampshire	1,839	1,727	76	72	4.1	4.2	178	174	43	43
Vermont	2,870	2,770	371	366	12.9	13.2	495	472	100	91
Massachusetts	4,484	4,324	317	314	7.1	7.3	505	528	171	191
Rhode Island	557	508	37	38	6.6	7.4	79	78	37	37
Connecticut	3,620	3,488	231	214	6.4	6.1	521	501	208	194
Middle Atlantic:										
New York	14,748	14,749	2,313	2,145	15.7	14.5	3,220	3,075	770	650
New Jersey	9,263	9,194	435	460	4.7	5.0	761	755	251	231
Pennsylvania	21,948	22,526	2,406	2,528	11.0	11.2	4,071	3,755	1,029	733
East North Central:										
Ohio	30,004	30,425	3,367	3,383	11.3	11.1	4,761	4,231	1,061	663
Indiana	30,476	30,330	4,632	4,842	15.2	16.0	5,466	4,763	997	465
Illinois	54,577	56,605	7,358	7,255	13.5	12.8	8,831	8,089	1,706	1,150
Michigan	19,126	19,504	2,695	2,676	14.1	13.7	3,722	3,638	922	764
Wisconsin	28,934	29,044	5,083	5,077	17.6	17.5	6,489	5,992	1,653	1,187
West North Central:										
Minnesota	41,706	41,853	6,770	6,845	16.2	16.4	8,469	7,868	2,478	1,880
Iowa	57,569	57,962	9,966	10,286	17.3	17.7	11,939	11,195	2,820	2,291
Missouri	33,487	33,654	4,731	4,714	14.1	14.0	4,748	4,660	919	810
North Dakota	22,309	22,314	3,541	3,540	15.9	15.9	3,477	3,390	769	660
South Dakota	23,052	23,909	3,399	3,592	14.7	15.0	4,047	3,948	1,321	1,223
Nebraska	38,332	38,874	6,594	6,883	17.2	17.7	10,279	9,777	2,215	1,955
Kansas	33,212	34,445	5,738	5,764	17.3	16.7	8,554	7,960	1,408	917
South Atlantic:										
Delaware	1,747	1,674	333	317	19.0	18.9	698	697	190	175
Maryland	7,199	7,303	988	1,004	13.8	13.7	1,548	1,501	457	388
Virginia	17,235	17,615	2,049	2,060	11.9	11.7	2,473	2,419	560	491
West Virginia	3,759	4,149	434	432	11.5	10.4	462	447	96	78
North Carolina	18,052	18,079	2,659	3,101	14.7	17.2	5,784	5,914	2,074	2,141
South Carolina	7,441	7,377	974	1,067	13.1	14.5	1,314	1,417	289	386
Georgia	18,314	16,704	2,901	3,103	15.8	18.6	4,353	4,617	1,168	1,471
Florida	28,517	26,935	3,764	3,960	13.2	14.7	5,940	6,389	2,285	2,721
East South Central:										
Kentucky	21,569	21,865	2,773	2,946	12.9	13.5	3,551	3,631	1,098	1,072
Tennessee	19,566	19,408	2,211	2,156	11.3	11.1	2,480	2,398	463	372
Alabama	12,216	12,460	1,489	1,502	12.2	12.1	3,311	3,500	918	1,153
Mississippi	14,522	13,965	2,730	2,661	18.8	19.1	2,913	2,992	665	735
West South Central:										
Arkansas	17,157	16,316	3,079	3,122	17.9	19.1	4,978	5,151	1,303	1,425
Louisiana	10,528	10,019	1,912	1,829	18.2	18.3	2,253	2,150	613	561
Oklahoma	24,832	25,555	3,989	3,935	16.1	15.4	4,429	4,399	1,148	940
Texas	89,227	87,630	10,139	10,213	11.4	11.7	14,206	14,209	3,294	3,061
Mountain:										
Montana	20,425	21,108	2,618	2,598	12.8	12.3	2,085	2,226	365	515
Idaho	13,618	13,663	2,511	2,602	18.4	19.0	3,333	2,922	1,082	741
Wyoming	7,542	7,033	826	901	11.0	12.8	847	1,024	134	200
Colorado	19,618	17,871	3,048	2,970	15.5	16.6	4,696	4,375	889	712
New Mexico	12,625	13,037	1,067	1,096	8.5	8.4	1,605	1,678	331	353
Arizona	11,617	12,207	1,444	1,339	12.4	11.0	2,076	1,983	625	519
Utah	6,455	6,629	698	698	10.8	10.5	898	830	244	191
Nevada	3,156	3,291	267	253	8.5	7.7	323	306	84	70
Pacific:										
Washington	18,127	18,347	3,039	3,024	16.8	16.5	4,550	4,559	1,453	1,378
Oregon	15,622	16,246	2,558	2,675	16.4	16.5	2,935	2,901	886	831
California	83,494	82,303	13,807	13,804	16.5	16.8	20,163	18,883	7,091	5,605
Alaska	713	658	25	25	3.5	3.8	33	30	7	4
Hawaii	4,004	4,011	337	303	8.4	7.5	628	616	92	76

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1991*; and unpublished data.

No. 1114. Farm Income—Farm Marketings, 1990 and 1991, Government Payments, 1991, and Principal Commodities, 1991, by State

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

DIVISION AND STATE	1990			1991				
	Farm marketings			Farm marketings			Government payments	State rank for total farm marketings and four principal commodities in order of marketing receipts
	Total	Crops	Livestock and products	Total	Crops	Livestock and products		
U.S.	**169,920**	**79,999**	**89,921**	**167,292**	**80,547**	**86,745**	**8,214**	**Cattle, dairy products, corn, hogs**
N.E.	**2,083**	**1,003**	**1,080**	**2,031**	**1,005**	**1,026**	**14**	(X)
ME	493	234	258	445	192	252	6	44-Potatoes, eggs, dairy products, aquaculture
NH	143	80	63	143	80	63	1	48-Dairy products, greenhouse, apples, cattle
VT	456	60	397	433	66	368	3	45-Dairy products, cattle, greenhouse, hay
MA	446	321	125	476	355	121	1	42-Greenhouse, cranberries, dairy products, eggs
RI	71	58	14	71	58	13	(Z)	49-Greenhouse, dairy products, eggs, potatoes
CT	474	250	223	463	255	209	1	43-Greenhouse, eggs, dairy products, tobacco
M.A	**7,365**	**2,485**	**4,880**	**7,032**	**2,584**	**4,448**	**80**	(X)
NY	2,958	986	1,971	2,868	1,087	1,782	41	24-Dairy products, greenhouse, cattle, apples
NJ	650	455	196	660	464	197	4	39-Greenhouse, dairy products, eggs, peaches
PA	3,757	1,043	2,714	3,503	1,033	2,470	34	19-Dairy products, cattle, greenhouse, mushrooms
E.N.C	**25,707**	**13,389**	**12,318**	**24,406**	**12,985**	**11,421**	**1,082**	(X)
OH	4,146	2,299	1,847	3,893	2,212	1,681	157	15-Soybeans, corn, dairy products, hogs
IN	4,911	2,871	2,040	4,475	2,582	1,893	210	11-Corn, soybeans, hogs, cattle
IL	7,789	5,338	2,452	7,509	5,165	2,344	441	5-Corn, soybeans, hogs, cattle
MI	3,126	1,720	1,407	3,081	1,793	1,288	124	22-Dairy products, corn, cattle, soybeans
WI	5,734	1,161	4,573	5,449	1,234	4,215	150	9-Dairy products, cattle, corn, hogs
W.N.C	**42,675**	**16,567**	**26,108**	**42,553**	**17,441**	**25,112**	**3,358**	(X)
MN	6,885	3,135	3,749	6,936	3,359	3,577	436	6-Corn, dairy products, soybeans, cattle
IA	10,282	4,420	5,862	10,179	4,458	5,721	645	3-Hogs, corn, cattle, soybeans
MO	3,989	1,660	2,329	3,861	1,658	2,203	269	16-Cattle, soybeans, hogs, corn
ND	2,532	1,730	801	2,556	1,857	699	534	26-Wheat, cattle, barley, sunflower
SD	3,259	965	2,294	3,264	1,088	2,176	286	20-Cattle, hogs, corn, soybeans
NE	8,708	2,632	6,076	8,821	2,888	5,934	491	4-Cattle, corn, hogs, soybeans
KS	7,020	2,024	4,996	6,935	2,133	4,802	698	7-Cattle, wheat, corn, hogs
S.A.	**20,166**	**10,462**	**9,704**	**20,646**	**11,331**	**9,315**	**291**	(X)
DE	636	176	460	620	181	438	3	40-Broilers, soybeans, corn, greenhouse
MD	1,364	542	823	1,332	554	779	15	35-Broilers, greenhouse, dairy products, soybeans
VA	2,122	739	1,383	2,095	732	1,363	27	29-Cattle, broilers, dairy products, tobacco
WV	339	70	269	330	77	253	5	46-Cattle, broilers, dairy products, turkeys
NC	4,926	2,268	2,658	4,924	2,316	2,608	53	10-Tobacco, broilers, hogs, turkeys
SC	1,169	588	581	1,225	677	549	49	36-Tobacco, cattle, broilers, greenhouse
GA	3,866	1,596	2,270	3,978	1,825	2,153	98	13-Broilers, peanuts, eggs, cattle
FL	5,744	4,483	1,261	6,141	4,969	1,172	41	8-Oranges, greenhouse, tomatoes, sugar
E.S.C	**10,422**	**4,098**	**6,324**	**10,556**	**4,313**	**6,243**	**386**	(X)
KY	3,103	1,404	1,699	3,179	1,475	1,704	73	21-Tobacco, cattle, horses, dairy products
TN	2,061	950	1,111	1,978	933	1,045	70	30-Cattle, dairy products, tobacco, cotton
AL	2,826	632	2,193	2,978	759	2,219	66	23-Broilers, cattle, greenhouse, peanuts
MS	2,433	1,111	1,322	2,422	1,147	1,275	176	28-Cotton, broilers, cattle, soybeans
W.S.C	**21,558**	**8,132**	**13,427**	**22,037**	**8,055**	**13,982**	**1,596**	(X)
AR	4,256	1,555	2,701	4,311	1,631	2,680	353	12-Broilers, cattle, soybeans, rice
LA	1,929	1,296	633	1,793	1,172	621	175	32-Cotton, cattle, sugar, soybeans
OK	3,542	1,200	2,342	3,808	1,040	2,767	291	17-Cattle, wheat, greenhouse, broilers
TX	11,831	4,081	7,751	12,126	4,212	7,914	778	2-Cattle, cotton, dairy products, greenhouse
Mt	**13,988**	**5,685**	**8,304**	**13,119**	**5,404**	**7,715**	**850**	(X)
MT	1,654	766	888	1,531	741	790	320	33-Cattle, wheat, barley, hay
ID	2,885	1,748	1,137	2,616	1,543	1,073	141	25-Cattle, potatoes, dairy products, wheat
WY	754	159	595	813	170	643	33	37-Cattle, sugar beets, hay, barley
CO	4,216	1,144	3,073	3,761	1,097	2,664	217	18-Cattle, corn, wheat, dairy products
NM	1,483	482	1,001	1,501	482	1,019	58	34-Cattle, dairy products, hay, chili peppers
AZ	1,910	1,097	813	1,890	1,104	786	40	31-Cattle, cotton, dairy products, lettuce
UT	762	175	587	731	178	553	33	38-Cattle, dairy products, hay, turkeys
NV	324	115	209	276	89	187	6	47-Cattle, hay, dairy products, potatoes
Pac	**25,957**	**18,180**	**7,777**	**24,911**	**17,428**	**7,483**	**558**	(X)
WA	3,798	2,402	1,396	3,947	2,657	1,290	206	14-Apples, dairy products, cattle, wheat
OR	2,374	1,620	753	2,454	1,631	824	89	27-Cattle, greenhouse, dairy products, wheat
CA	19,158	13,624	5,533	17,887	12,615	5,272	261	1-Dairy products, greenhouse, cattle, grapes
AK	27	19	8	27	20	6	1	50-Greenhouse, dairy products, hay, potatoes
HI	600	514	86	597	506	91	1	41-Sugar, pineapples, greenhouse, nuts

X Not applicable. Z Less than $500 thousand.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: State Financial Summary, 1991.*

No. 1115. Indexes of Prices Received and Paid by Farmers: 1980 to 1992

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

ITEM	1980	1990	1991	1992, prel.	ITEM	1980	1990	1991	1992, prel.
Prices received, all products	134	149	145	139	**Prices paid, total** [3]	138	184	189	191
Crops [1]	125	127	129	121	Production [1]	138	171	174	174
Food grains	165	127	129	121	Feed	123	128	123	123
Feed grains and hay	132	123	118	115	Feeder livestock	177	213	214	202
Cotton	114	107	108	87	Seed	118	165	163	162
Tobacco	125	152	161	155	Fertilizer	134	131	134	131
Oil-bearing crops	102	94	91	85	Agricultural chemicals	102	139	151	159
Fruits	124	186	262	183	Fuels and energy	188	204	203	199
Commercial vegetables [2]	113	142	135	151	Farm and motor supplies	134	154	154	160
Livestock and products	144	170	161	157	Interest payable per acre	174	177	172	167
Meat animals	156	193	186	176	Taxes payable per acre	115	158	160	171
Dairy products	135	141	126	135	Wage rates [4]	127	193	201	210
Poultry and eggs	112	131	124	117	**Parity ratio (1910-14=100)** [5]	65	54	51	48

[1] Includes other items not shown separately. [2] Excludes potatoes and dry beans. [3] Includes production items, interest, taxes, wage rates, and a family living component. The family living component is the Consumer Price Index for all urban consumers from the Bureau of Labor Statistics. See text, section 15, and table 756. [4] Straight average of seasonally adjusted indexes. [5] Ratio of prices received by farmers to prices paid.

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

No. 1116. Civilian Consumer Expenditures for Farm Foods—Farm Value and Marketing Bill: 1980 to 1991

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

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Consumer expenditures, total	264.4	298.9	315.0	332.0	345.4	359.6	375.5	398.8	419.4	449.8	461.8
Farm value, total	81.7	81.4	85.3	89.8	86.4	88.8	90.4	96.8	103.8	106.2	101.2
Marketing bill, total [1]	182.7	217.5	229.7	242.2	259.0	270.8	285.1	301.9	315.6	343.6	360.6
Percent of total consumer expenditures	69.1	72.8	72.9	73.0	75.0	75.3	75.9	75.7	75.3	76.4	78.1
At-home expenditures [2]	180.1	196.7	204.6	213.1	220.8	226.0	230.2	242.1	255.5	276.2	281.4
Farm value	65.9	64.1	66.5	69.5	66.6	67.6	67.5	72.5	77.9	80.2	76.3
Marketing bill [1]	114.2	132.6	138.1	143.6	154.2	158.4	162.7	169.6	177.6	196.0	205.1
Percent of at-home expenditures	63.4	67.4	67.5	67.4	69.8	70.1	70.7	70.1	69.5	71.0	72.9
Away-from-home expenditures	84.3	102.2	110.4	118.9	124.6	133.6	145.3	156.7	163.9	173.6	180.4
Farm value	15.8	17.3	18.8	20.3	19.8	21.2	22.9	24.3	25.9	26.0	24.9
Marketing bill [1]	68.5	84.9	91.6	98.6	104.8	112.4	122.4	132.4	138.0	147.6	155.5
Percent of away-from-home expenditures	81.3	83.1	83.0	82.9	84.1	84.1	84.2	84.5	84.2	85.0	86.2
Marketing bill cost components:											
Labor cost [3]	81.5	96.6	102.4	109.3	115.6	122.9	130.0	137.9	145.1	154.0	163.0
Packaging materials	21.0	23.7	24.7	26.2	26.9	27.7	29.9	32.6	35.2	36.5	38.1
Rail and truck transport [4]	13.0	14.7	15.4	15.9	16.5	16.8	17.2	17.8	18.6	19.8	20.4
Corporate profits before taxes	9.9	9.3	9.6	9.6	10.4	10.3	11.1	11.6	12.2	14.2	15.1
Fuels and electricity	9.0	11.0	11.7	12.5	13.1	13.2	13.6	14.1	14.8	15.2	16.3
Other [5]	48.3	62.2	65.9	68.7	76.5	79.9	83.3	87.9	89.7	103.9	107.7
Processing	66.3	75.6	77.8	80.8	88.4	91.0	93.9	99.7	103.8	113.4	118.6
Wholesaling	20.4	25.9	27.1	28.6	29.8	30.5	31.8	33.8	35.2	39.0	39.9
Transportation	13.0	14.9	15.4	16.0	16.6	16.8	17.6	17.7	18.6	19.6	19.8
Retailing and food service	83.0	101.1	109.4	116.8	124.2	132.5	141.8	150.8	158.0	171.6	182.3
SELECTED FOOD COMMODITY GROUPS											
Meat products:											
Total expenditures	83.3	91.9	97.9	101.7	103.2	106.3	110.0	117.6	121.5	128.4	130.0
Farm value	30.8	31.5	31.4	32.4	30.5	30.9	32.7	33.5	34.0	36.9	35.1
Percent of total	37.0	34.3	32.1	31.9	29.6	29.1	29.7	28.5	28.0	28.7	27.0
Marketing bill [1]	52.5	60.4	66.5	69.3	72.7	75.4	77.3	84.1	87.5	91.5	94.9
Poultry and eggs:											
Total expenditures	18.3	20.3	21.7	24.2	26.0	27.6	29.4	31.3	33.9	36.6	37.7
Farm value	8.4	8.5	9.3	11.0	10.2	11.5	10.3	12.1	14.2	13.9	13.2
Percent of total	45.9	41.9	42.9	45.5	39.2	41.7	35.0	38.7	41.9	38.0	35.0
Marketing bill [1]	9.9	11.8	12.4	13.2	15.8	16.1	19.1	19.2	19.7	22.7	24.5
Dairy products:											
Total expenditures	37.8	42.0	45.0	47.4	49.4	51.4	54.0	55.8	58.1	62.5	64.2
Farm value	16.0	16.7	18.0	18.1	17.7	17.8	18.2	17.9	19.6	20.5	19.6
Percent of total	42.3	39.8	40.0	38.2	35.8	34.6	33.7	32.1	33.7	32.8	30.5
Marketing bill [1]	21.8	25.3	27.0	29.3	31.7	33.6	35.8	37.9	38.5	42.0	44.6
Fruits and vegetables:											
Total expenditures	55.5	66.7	70.0	74.7	78.5	81.6	84.7	89.3	96.0	103.7	108.5
Farm value	11.7	11.5	12.9	13.5	13.3	14.6	14.3	16.2	17.8	16.5	15.8
Percent of total	21.1	17.2	18.4	18.1	16.9	17.9	16.9	18.1	18.5	15.9	14.6
Marketing bill [1]	43.8	55.2	57.1	61.2	65.2	67.0	70.4	73.1	78.2	87.2	92.7
Bakery, grain mill products:											
Total expenditures	35.2	39.6	40.6	43.3	45.5	48.3	49.9	54.7	57.7	63.3	64.8
Farm value	5.1	4.8	4.9	5.1	4.7	4.0	3.8	4.9	5.9	5.1	4.8
Percent of total	14.5	12.1	12.1	11.8	10.3	8.3	7.6	9.0	10.2	8.1	7.4
Marketing bill [1]	30.1	34.8	35.7	38.2	40.8	44.3	46.1	49.8	51.8	58.2	60.0

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

Source: U.S. Dept. of Agriculture, Economic Research Service, *Food Cost Review, 1991*, AER No. 662, August 1992; *National Food Review*, periodic; and *Agricultural Statistics*, annual.

No. 1117. Farmer Marketing and Farm Supply Cooperatives—Summary: 1980 to 1991

[Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Memberships and businesses are estimated. See also *Historical Statistics, Colonial Times to 1970*, series K 195-203]

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Cooperatives listed	6,293	6,125	5,989	5,782	5,625	5,369	5,109	4,937	4,799	4,663	4,494
Marketing [1]	3,924	3,826	3,781	3,646	3,589	3,398	3,168	3,101	2,996	2,946	2,805
Farm supply	2,369	2,299	2,208	2,136	2,036	1,971	1,941	1,836	1,803	1,717	1,689
Memberships [2] (1,000)	5,379	5,136	4,955	4,842	4,781	4,600	4,440	4,195	4,134	4,119	4,058
Marketing [1] (1,000)	2,574	2,469	2,402	2,445	2,383	2,290	2,158	2,053	2,099	2,114	2,033
Farm supply (1,000)	2,804	2,666	2,553	2,397	2,398	2,310	2,282	2,142	2,035	2,006	2,025
Business [3] (mil. dol.)	66,254	69,150	66,755	73,047	65,601	58,395	60,318	66,430	72,129	77,266	76,636
Marketing [1] (mil. dol.)	50,120	52,788	50,812	56,078	48,961	43,300	46,047	51,006	55,222	60,178	58,720
Farm supply (mil. dol.)	16,134	16,362	15,943	16,969	16,641	15,095	14,271	15,424	16,907	17,088	17,916

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

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

No. 1118. Selected Indexes of Farm Inputs: 1970 to 1990

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

INPUT	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total	**96**	**103**	**98**	**96**	**95**	**91**	**89**	**89**	**87**	**87**	**88**
Farm labor	112	96	93	97	92	85	80	78	75	76	80
Farm real estate [1]	105	103	102	101	99	97	96	95	94	93	93
Mechanical power and machinery	85	101	89	86	85	80	77	74	74	73	71
Agricultural chemicals [2]	75	123	118	102	120	115	109	111	112	119	122
Feed, seed, and livestock purchases [3]	96	114	107	103	103	102	109	116	111	113	113
Taxes and interest	102	100	94	98	90	92	93	93	89	86	89
Miscellaneous	89	96	116	101	110	116	110	135	126	122	133

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

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

No. 1119. Farm Machinery and Equipment: 1980 to 1991

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

ITEM	Unit	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Value of farm implements and machinery [1]	Bil. dol.	86.9	92.5	92.6	92.1	91.1	88.3	86.1	84.5	86.1	89.2	88.6	88.0
Farmers' expenditures:													
Motor vehicles [2]	Mil. dol.	5,813	5,652	4,436	4,724	4,583	3,699	3,227	4,275	4,812	5,266	5,409	4,614
Tractors	Mil. dol.	3,683	3,740	2,597	2,606	2,539	1,937	1,513	2,104	2,477	2,763	2,898	2,356
Machinery, equipment	Mil. dol.	6,956	6,481	5,068	4,735	4,682	3,232	3,094	4,297	4,150	4,916	5,311	5,059
Repair and maintenance	Mil. dol.	5,205	5,278	4,635	4,793	4,908	4,834	4,825	5,017	5,209	5,758	5,401	5,403
Tractors, machinery and equipment	Mil. dol.	3,746	3,771	3,557	3,616	3,592	3,442	3,428	3,540	3,591	3,961	3,761	3,783
Autos and trucks	Mil. dol.	1,459	1,507	1,079	1,178	1,316	1,392	1,397	1,477	1,618	1,797	1,640	1,620
Retail sales: [3]													
Tractors, total [4]	1,000	119.3	103.8	77.2	71.3	66.7	58.5	47.1	48.3	52.0	59.7	66.3	58.1
Two-wheel drive	1,000	108.4	94.1	70.4	66.2	62.7	55.5	45.1	46.6	49.3	55.5	61.2	54.0
Four-wheel drive	1,000	10.9	9.7	6.8	5.1	4.0	3.0	2.0	1.7	2.7	4.2	5.1	4.1
Combines	1,000	25.7	26.8	16.2	12.8	11.4	8.4	7.7	7.2	6.0	9.1	10.4	9.7
Field forage harvesters	1,000	9.5	7.6	5.1	4.1	3.5	2.5	2.2	2.3	2.4	2.8	3.3	(NA)

NA Not available. [1] Farm inventory valuations as of December 31. Includes family automobiles. [2] For farm business use. [3] Source: Equipment Manufacturers Institute, Chicago, IL, unpublished data. [4] Covers tractors over 40 hp. only.

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

No. 1120. Hired Farmworkers—Workers and Weekly Earnings: 1990 and 1991

[Represents average number of persons 15 years old and over in the civilian noninstitutional population who were employed at hired farmwork at any time during the year. Based on Current Population Survey; see text, section 1 and Appendix III. For definition of median, see Guide to Tabular Presentation]

CHARACTERISTIC	WORKERS (1,000)		MEDIAN WEEKLY EARNINGS [1]		CHARACTERISTIC	WORKERS (1,000)		MEDIAN WEEKLY EARNINGS [1]	
	1990	1991	1990	1991		1990	1991	1990	1991
All workers	**886**	**884**	**$200**	**$210**	White [2]	540	533	201	222
					Black and other races [2]	85	101	175	170
15 to 19 years old	144	128	100	100	Hispanic	260	250	213	220
20 to 24 years old	135	114	206	200					
25 to 34 years old	251	256	240	250	Years of school completed:				
35 to 44 years old	170	180	250	242	Less than 5 years	98	101	204	216
45 to 54 years old	90	95	200	216	5 to 8 years	191	187	200	200
55 years old and over	95	111	200	200	9 to 11 years	202	200	168	162
					12 years	278	274	240	240
Male	735	728	216	220	13 or more years	116	122	260	263
Female	151	156	175	181					

[1] The weekly earnings the farmworker usually earns at his farmwork job before deductions and includes any overtime pay or commissions. [2] Excludes persons of Hispanic origin.
Source: U.S. Dept. of Agriculture, Economic Research Service, unpublished data.

No. 1121. Farm Output Indexes: 1970 to 1991

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

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991, prel.
Farm output [1]	**84**	**104**	**116**	**96**	**112**	**118**	**111**	**110**	**102**	**114**	**119**	**120**
Per unit of total input	**87**	**101**	**119**	**100**	**118**	**129**	**124**	**124**	**116**	**130**	**135**	**(NA)**
Gross production:												
Livestock and products [2]	99	108	107	109	107	110	110	113	116	116	118	119
Meat animals	102	107	101	104	101	102	100	102	105	105	104	104
Dairy products	95	105	110	114	110	117	116	116	118	117	120	121
Poultry and eggs	93	115	119	120	123	128	133	144	148	153	162	168
Crops [3]	77	101	117	88	111	118	109	108	92	107	114	111
Feed grains	71	97	122	67	116	134	123	106	73	108	112	106
Hay and forage	92	98	109	100	107	106	106	102	89	101	102	103
Food grains	69	121	138	117	129	121	107	107	98	107	136	104
Vegetables	96	104	116	107	117	122	117	126	115	130	135	(NA)
Fruits and nuts	81	119	113	110	114	119	111	137	137	129	134	(NA)
Sugar crops	95	97	96	93	95	97	106	111	105	105	107	112
Cotton	72	79	85	55	91	94	69	103	107	86	109	122
Tobacco	100	93	104	75	90	81	63	62	72	71	84	87
Oil crops	66	99	121	91	106	117	110	108	89	106	107	114

NA Not available. [1] Annual production available for eventual human use. [2] Includes livestock products not shown separately and excludes horses and mules. [3] Includes crops not shown separately.
Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Outlook*, monthly.

No. 1122. Selected Farm Products—United States and World Production and Exports: 1990 to 1992

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

ITEM	Unit	AMOUNT						UNITED STATES AS PERCENT OF WORLD		
		United States			World			1990	1991	1992
		1990	1991	1992	1990	1991	1992			
PRODUCTION [1]										
Wheat	Million	74	54	67	588	542	555	12.6	10.0	12.1
Corn for grain	Million	202	190	237	477	485	520	42.3	39.2	45.6
Soybeans	Million	52	54	59	104	106	112	50.0	51.0	52.7
Rice, milled	Million	5.1	4.9	5.3	351	348	351	1.5	1.4	1.5
Tobacco, unmanufactured [2]	1,000	738	755	763	7,107	7,576	8,077	10.4	10.0	9.4
Cotton [3]	Million bales [4]	12.2	15.5	17.6	79.8	87.0	96.0	15.3	17.8	18.3
EXPORTS [5]										
Wheat [6]	Million	28.3	35.1	36.5	94.4	108.2	101.4	30.0	32.4	36.0
Corn	Million	44.5	40.6	42.5	58.8	61.5	61.0	75.7	66.0	69.7
Soybeans	Million	15.2	18.6	20.3	25.1	28.1	30.1	60.6	66.2	66.3
Rice, milled basis	Million	2.4	2.2	2.1	12.2	12.8	15.1	19.7	17.2	13.9
Tobacco, unmanufactured [7]	1,000	223	226	261	1,689	1,824	1,816	13.2	12.4	14.4
Cotton [3]	Million	1.7	1.7	1.5	5.2	5.0	4.9	32.7	34.0	30.6

[1] Production years vary by commodity. In most cases, includes harvests from July 1 of the year shown through June 30 of the following year. [2] Farm sales weight basis. [3] For production and trade years ending in year shown. [4] Bales of 480 lb. net weight. [5] Trade years may vary by commodity. [6] Includes wheat flour on a grain equivalent. [7] Dried weight basis.
Source: U.S. Department of Agriculture, Foreign Agricultural Service, *Foreign Agricultural Commodity Circular Series*, periodic.

No. 1123. Agricultural Exports and Imports—Volume, by Principal Commodities: 1980 to 1991

[In thousands of metric tons]

EXPORTS	1980	1985	1990	1991	IMPORTS	1980	1985	1990	1991
Animal products [1]	2,575	2,517	2,737	3,007	Fruits, nuts, vegetables	2,325	3,326	4,573	4,731
Wheat and products [2]	37,130	26,123	28,286	31,949	Bananas	2,352	2,969	3,094	3,229
Feed grains and products	72,970	51,735	61,397	52,369	Green coffee	1,089	1,122	1,174	1,131
Rice	3,075	1,961	2,509	2,319	Cocoa and products	325	565	765	761
Feeds and fodders	6,888	6,710	11,248	11,210	Meat and products [5]	931	1,139	1,165	1,147
Protein meal	7,427	4,849	4,868	5,907					
Oilseeds and products [3]	23,631	17,682	15,778	18,182	Vegetable oils	704	961	1,183	1,207
Vegetable oils	1,837	1,142	1,204	1,154	Rubber, crude natural	931	818	840	798
Fruits, nuts, vegetables [4]	4,147	3,255	5,552	5,442	Sugar	3,744	2,178	1,856	1,613
Cotton and linters	1,880	1,135	1,733	1,543	Spices	86	89	109	123
Tobacco, unmanufactured	272	249	223	226	Tobacco, unmanufactured	392	196	187	227

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

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, Jan./Feb. 1992 and calendar year supplements.

No. 1124. Agricultural Exports and Imports—Value: 1970 to 1991

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

YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports	YEAR	Trade balance	Exports, domestic products	Percent of all exports	Imports for consumption	Percent of all imports
1970	1.5	7.3	17	5.8	15	1983	19.5	36.1	18	16.6	7
1975	12.6	21.9	21	9.3	10	1984	18.5	37.8	17	19.3	6
1976	12.0	23.0	20	11.0	9	1985	9.1	29.0	13	20.0	6
1977	10.2	23.6	20	13.4	9	1986	4.8	26.2	13	21.5	6
1978	14.6	29.4	21	14.8	9	1987	8.3	28.7	12	20.4	5
1979	18.0	34.7	19	16.7	8	1988	16.1	37.1	12	21.0	5
1980	23.9	41.2	18	17.4	7	1989	18.2	39.9	11	21.7	5
1981	26.6	43.3	18	16.8	6	1990	16.6	39.4	10	22.8	5
1982	21.2	36.6	17	15.4	6	1991	16.5	39.2	10	22.7	5

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

No. 1125. Agricultural Imports— Value, by Selected Commodity, 1980 to 1991, and by Leading Countries of Origin, 1991

[In millions of dollars]

COMMODITY	1980	1985	1987	1988	1989	1990	1991	Leading countries of origin, 1991
Total	**17,366**	**19,968**	**20,402**	**20,951**	**21,749**	**22,770**	**22,719**	**Canada, Mexico, Brazil**
Competitive products	10,374	13,067	13,781	14,688	15,610	17,202	17,139	Canada, Mexico, Australia
Cattle, live	237	307	421	598	662	978	952	Canada, Mexico, Japan
Beef and veal	1,780	1,276	1,562	1,679	1,662	1,872	1,964	Australia, New Zealand, Argentina
Pork	486	861	1,096	933	754	938	795	Canada, Denmark, Hungary
Dairy products	488	765	831	875	828	867	772	New Zealand, Ireland, Italy
Fruits and preparations	564	1,738	1,718	1,866	1,820	2,219	2,131	Mexico, Chile, Brazil
Vegetables and preparations	864	1,385	1,535	1,615	2,047	2,266	2,211	Mexico, Canada, Spain
Wine	692	998	966	939	930	917	915	France, Italy, Spain
Malt beverages	367	633	882	918	855	923	825	Netherlands, Canada, Mexico
Grains and feeds	371	623	748	909	1,219	1,189	1,321	Canada, Thailand, Italy
Sugar and related products	2,205	1,180	630	690	956	1,172	1,065	Canada, Guatemala, Philippines
Oilseeds and products	599	756	643	919	916	949	974	Canada, Italy, Philippines
Noncompetitive products	6,992	6,902	6,621	6,263	6,139	5,568	5,580	Brazil, Indonesia, Colombia
Coffee and products	4,186	3,322	2,908	2,470	2,432	1,915	1,859	Brazil, Colombia, Mexico
Rubber, crude natural	817	654	760	1,023	958	707	663	Indonesia, Malaysia, Thailand
Cocoa and products	920	1,351	1,194	1,003	991	1,094	1,092	Brazil, Ivory Coast, Canada
Bananas and plantains	430	763	819	832	872	939	1,006	Ecuador, Costa Rica, Colombia

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

No. 1126. Spices—Imports, by Type of Spice: 1975 to 1991

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

SPICE	1975-79	1980-84	1985-89	1990	1991	SPICE	1975-79	1980-84	1985-89	1990	1991
Total [1]	**298.4**	**351.3**	**398.9**	**461.7**	**466.3**	Mace	0.5	0.6	0.6	0.7	0.4
						Mustard seed	76.1	79.5	94.5	122.6	121.9
Anise seed	1.0	1.4	2.2	2.2	2.5	Nutmeg	4.4	4.8	4.2	3.8	4.1
Capsicum	10.2	13.9	23.8	44.0	38.8	Paprika	12.3	10.5	13.1	9.1	8.6
Caraway seed	6.5	7.5	7.7	6.8	8.1	Pepper, black and white	59.0	72.5	79.4	86.9	98.5
Cassia and cinnamon	18.6	23.4	29.4	25.6	31.6	Pimento	1.5	1.7	1.9	2.2	2.3
Celery seed	4.2	4.7	5.4	4.9	5.9	Poppy seed	6.1	7.2	8.8	7.4	11.0
Cloves	2.5	2.1	2.5	4.1	2.5	Sage	2.9	3.7	4.4	3.7	5.0
Coriander seed	6.8	10.4	7.7	4.8	5.4	Sesame seed	62.5	80.4	81.1	94.5	80.4
Cumin seed	8.1	8.8	9.2	10.3	8.8	Turmeric	3.2	3.7	4.4	3.7	4.1
Fennel seed	1.9	3.4	4.8	6.4	5.5	Vanilla beans	2.3	1.6	2.4	2.2	2.9
Ginger root	7.8	9.5	11.4	15.8	18.0						

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

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, calendar year supplement, and, U.S. Bureau of the Census, *U.S. Imports for Consumption*, series FT247, annual.

No. 1127. Agricultural Exports—Value, by Principal Commodities and Selected Countries of Destination: 1980 to 1991

[See headnote, table 1124. Data by country of destination for 1980 are not adjusted for transshipments]

COMMODITY AND COUNTRY	VALUE (mil. dol.)								PERCENT		
	1980	1985	1986	1987	1988	1989	1990	1991	1980	1990	1991
Total agricultural exports [1]	**41,234**	**29,041**	**26,222**	**28,709**	**37,080**	**39,909**	**39,363**	**39,191**	**100.0**	**100.0**	**100.0**
Grains and feeds [2]	19,126	11,882	8,656	9,423	13,994	17,187	14,403	12,769	46.4	36.6	32.6
Feed grains and products	9,852	6,112	3,176	3,917	5,973	7,870	7,151	5,861	23.9	18.2	15.0
Corn	8,492	5,206	2,605	3,209	5,043	6,580	6,027	4,915	20.6	15.4	12.5
Wheat and products	6,660	3,898	3,290	3,260	5,126	6,136	4,033	3,512	16.2	10.2	9.0
Rice	1,289	665	625	576	809	971	800	752	3.2	2.1	1.9
Oilseeds and products [2]	9,394	5,794	6,467	6,446	7,695	6,313	5,684	6,358	22.8	14.5	16.2
Soybeans	5,880	3,732	4,326	4,378	4,863	3,942	3,551	3,957	14.3	9.1	10.1
Soybean oilcake and meal	1,666	870	1,229	1,211	1,580	1,181	992	1,137	4.1	2.6	2.9
Vegetable oils and waxes	1,216	870	672	626	983	872	808	768	3.0	2.1	2.0
Animals and animal products [2]	3,768	4,150	4,547	5,156	6,422	6,378	6,712	7,009	9.2	17.1	17.9
Hides and skins, incl. furskins	1,046	1,295	1,522	1,731	1,829	1,717	1,747	1,375	2.6	4.4	3.5
Cattle hides	637	1,007	1,219	1,328	1,513	1,383	1,428	1,140	1.6	3.7	2.9
Meats and meat products	890	905	1,130	1,366	1,974	2,348	2,558	2,854	2.2	6.5	7.3
Beef and veal	249	467	634	771	1,109	1,420	1,579	1,758	0.6	4.1	4.5
Fats, oils, and greases	769	619	413	431	577	512	424	442	1.9	1.1	1.2
Poultry and poultry products	603	384	504	602	689	713	954	1,094	1.5	2.5	2.8
Cotton, excluding linters	2,864	1,633	812	1,631	1,975	2,250	2,783	2,480	7.0	7.1	6.4
Tobacco, unmanufactured	1,334	1,521	1,223	1,090	1,253	1,301	1,441	1,428	3.3	3.7	3.7
Fruits and preparations	1,335	1,186	1,306	1,484	1,762	1,836	2,359	2,498	3.3	6.0	6.4
Fresh fruits	739	743	851	939	1,093	1,133	1,486	1,561	1.8	3.8	4.0
Vegetables and preparations	1,188	930	1,085	1,158	1,361	1,601	2,302	2,615	2.9	5.9	6.7
Nuts and preparations	757	683	753	804	884	846	976	1,020	1.9	2.5	2.6
Other	1,468	1,262	1,373	1,517	1,734	2,197	2,703	3,014	3.6	6.9	7.7
Asia [1]	15,046	11,191	10,617	12,535	16,858	18,828	17,640	16,451	36.5	44.9	42.0
Japan	6,133	5,409	5,141	5,723	7,640	8,162	8,104	7,729	14.9	20.6	19.8
South Korea	1,797	1,413	1,306	1,833	2,274	2,593	2,644	2,104	4.4	6.8	5.4
China: Taiwan	1,095	1,231	1,171	1,285	1,661	1,754	1,661	1,899	2.7	4.3	4.9
Mainland	2,277	157	58	362	759	1,435	814	722	5.6	2.1	1.9
Hong Kong	437	389	400	466	489	611	701	772	1.1	1.8	2.0
Western Europe [1] [3]	12,917	7,002	7,117	7,344	7,911	6,995	7,353	7,468	31.4	18.7	19.1
European Economic Community [4]	12,177	6,542	6,688	6,914	7,370	6,503	6,850	6,916	29.6	17.4	17.7
Netherlands	3,476	1,869	2,073	1,985	2,059	1,722	1,581	1,698	8.5	4.1	4.4
Germany	2,373	1,009	1,109	1,320	1,248	1,075	1,158	1,076	5.8	3.0	2.8
Spain [5]	1,488	837	703	666	883	820	937	928	3.6	2.4	2.4
United Kingdom	996	604	681	661	835	703	829	831	2.5	2.1	2.2
Italy	1,203	669	727	697	699	637	710	674	3.0	1.8	1.8
France	765	403	439	524	534	458	528	581	1.9	1.4	1.5
Latin America [1]	6,154	4,224	3,681	3,678	4,935	5,337	5,092	5,684	15.0	13.0	14.5
Mexico	2,469	1,439	1,080	1,202	2,234	2,724	2,553	2,998	6.0	6.5	7.7
Canada	1,908	1,622	1,542	1,808	2,019	2,221	4,197	4,554	4.7	10.7	11.7
Soviet Union (former)	1,138	1,923	658	938	2,252	3,597	2,271	2,495	2.8	5.8	6.4
Eastern Europe	1,644	414	373	401	464	401	537	234	4.0	1.4	0.6
Africa [1]	2,237	2,488	2,008	1,766	2,387	2,260	1,935	1,911	5.5	5.0	4.9
Algeria	195	227	287	310	596	504	513	486	0.5	1.3	1.3
Egypt	774	891	811	679	841	989	693	687	1.9	1.8	1.8

[1] Includes areas not shown separately. [2] Includes commodities not shown separately. [3] Includes Canary Islands and Madeira Islands for all years. [4] Includes Belgium, Luxembourg, Denmark, Greece, Ireland, and Portugal, not shown separately. As of Jan. 1, 1981, Greece became a member of EEC. As of Jan. 1, 1986, Spain and Portugal became members of EEC. For consistency, data for all years are shown on same basis. [5] As of Jan. 1, 1984, includes Canary Islands and Spanish Africa, not elsewhere classified.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Foreign Agricultural Trade of the United States*, Jan./Feb. 1992 and calendar year supplements. Also in *Agricultural Statistics*, annual.

No. 1128. Cropland Used for Crops and Acreages of Crops Harvested: 1980 to 1992

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

YEAR	CROPLAND USED FOR CROPS					Index of crop production per acre (1977 = 100)	ACREAGES OF CROPS HARVESTED [2]				
	Number (mil. acres)				Index (1977 = 100)		Total (mil. acres)	Used to produce goods for—			
								Domestic use		Exports	
	Total	Cropland harvested [1]	Crop failure	Cultivated summer fallow				Amount (mil. acres)	Per capita (acres) [3]	Amount (mil. acres)	Percent of total
1980	382	342	10	30	101	100	352	215	0.94	137	38.9
1985	372	334	7	31	98	120	342	263	1.10	81	23.7
1988	327	287	10	30	87	106	298	180	0.73	118	39.7
1989	341	306	8	27	90	119	318	215	0.86	103	32.4
1990	341	310	6	25	90	127	322	239	0.95	83	25.8
1991 [4]	337	306	7	24	89	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1992 [4]	343	312	8	23	91	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available. [1] Land supporting one or more harvested crops. [2] Area in principal crops harvested as reported by Crop Reporting Board plus acreages in fruits, tree nuts, and farm gardens. [3] Based on Bureau of the Census estimated total population, including Armed Forces overseas, as of July 1. [4] Preliminary.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Economic Indicators of the Farm Sector: Production and Efficiency Statistics*, annual. Also in *Agricultural Statistics*, annual. Data for 1991 and 1992 from *Agricultural Resources: Cropland, Water, and Conservation Situation and Outlook Report.*

No. 1129. Crops—Acreage and Value, by State: 1989 to 1992

STATE	ACREAGE HARVESTED (1,000)				FARM VALUE (mil. dol.)				
	1989	1990	1991	1992, prel.	1989	1990	1991	1992, prel.	
								Value	Rank
U.S. [1]	**305,072**	**308,318**	**[2]303,864**	**[2]307,314**	**80,635**	**80,855**	**79,593**	**86,480**	**(X)**
AL	2,334	2,338	2,229	2,130	575	464	584	613	33
AZ	830	802	770	736	1,003	894	891	829	32
AR	7,603	8,080	7,863	8,110	1,615	1,648	1,762	1,962	16
CA	4,892	4,789	4,396	4,433	10,397	10,642	9,934	11,194	1
CO	5,677	5,862	5,591	5,394	1,341	1,194	1,127	1,100	26
CT	128	129	125	128	95	111	92	88	47
DE	537	496	556	515	127	139	142	133	44
FL	1,128	1,076	1,048	1,093	3,603	2,768	3,348	3,905	5
GA	4,200	3,788	3,777	3,690	1,400	1,273	1,593	1,613	21
HI	81	79	74	71	407	411	367	361	37
ID	4,226	4,175	4,079	4,006	1,964	1,735	1,665	1,758	19
IL	22,877	22,759	22,906	23,237	6,053	5,812	5,357	6,264	2
IN	11,631	11,485	11,527	11,709	3,152	3,023	2,564	3,190	8
IA	24,097	23,276	23,356	23,816	5,764	5,816	5,634	6,219	3
KS	18,794	20,978	20,712	20,255	2,268	2,610	2,485	2,934	9
KY	5,487	5,505	5,495	5,415	1,677	1,721	1,771	2,013	15
LA	4,075	4,346	3,665	4,029	1,094	1,184	1,126	1,165	24
ME	364	361	351	374	220	180	152	199	41
MD	1,601	1,551	1,562	1,620	360	386	374	426	35
MA	136	135	136	135	167	147	169	169	42
MI	6,360	6,510	6,733	6,797	1,839	1,839	1,942	1,929	17
MN	18,652	18,765	18,692	19,301	4,168	4,177	4,007	3,923	4
MS	4,611	4,719	4,478	4,855	1,042	1,149	1,194	1,269	23
MO	13,249	12,685	12,900	12,904	2,274	2,083	2,122	2,543	13
MT	9,475	8,926	8,687	8,369	1,071	881	1,052	1,028	29
NE	17,450	18,044	18,366	18,330	3,420	3,621	3,667	3,666	7
NV	554	520	495	403	170	154	102	101	46
NH	93	91	92	103	27	29	23	37	48
NJ	378	361	380	391	164	170	186	265	39
NM	968	880	1,042	1,053	404	395	395	390	36
NY	3,560	3,538	3,443	3,185	904	916	964	953	30
NC	4,492	4,336	4,397	4,519	1,852	1,981	2,144	2,033	14
ND	20,520	21,014	20,655	21,011	1,853	2,082	2,188	2,630	12
OH	10,259	10,132	9,972	10,137	2,540	2,597	2,278	2,693	10
OK	9,396	9,688	8,518	9,397	1,167	1,142	913	1,098	27
OR	2,337	2,290	2,260	2,145	1,073	1,035	1,034	1,097	28
PA	4,198	4,094	4,067	4,065	1,270	1,358	1,174	1,414	22
RI	10	10	10	11	5	5	4	6	49
SC	2,280	2,046	1,824	1,887	627	517	639	554	34
SD	15,196	15,528	15,606	15,858	1,455	1,638	1,611	1,822	18
TN	4,569	4,477	4,379	4,324	905	954	956	1,122	25
TX	16,690	18,544	17,714	18,772	3,455	4,023	3,707	3,803	6
UT	983	992	973	990	252	257	220	233	40
VT	442	441	434	463	78	77	78	105	45
VA	2,767	2,725	2,656	2,705	808	846	800	907	31
WA	3,876	3,999	3,861	3,950	2,227	2,529	2,625	2,632	11
WV	664	668	615	639	107	114	114	138	43
WI	8,615	8,550	8,449	8,096	1,911	1,830	2,019	1,672	20
WY	1,628	1,735	1,899	1,706	285	294	300	282	38

X Not applicable. [1] Excludes Alaska. [2] Includes sunflower and sugarbeet acreage unallocated by State.

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

No. 1130. Principal Crops—Production, Supply, and Disappearance: 1988 to 1992

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

CROP AND YEAR	ACREAGE (mil.)—			Yield per acre	Production	Farm price [2]	Farm value (mil. dol.)	Total supply [3]	DISAPPEARANCE		Ending stocks
	Set aside [1]	Planted	Harvested						Total [4]	Exports	
Corn for grain:				Bu.	Mil. bu.	$/bu.			Mil. bu.		
1988	20.5	67.7	58.3	84.6	4,929	2.54	12,661	9,191	7,260	2,026	1,930
1989	10.8	72.2	64.7	116.3	7,525	2.36	17,897	9,458	6,113	2,368	1,344
1990	10.7	74.2	67.0	118.5	7,934	2.28	18,192	9,282	7,761	1,725	1,521
1991	7.4	76.0	68.8	108.6	7,475	2.37	17,864	9,015	7,915	1,584	1,100
1992, prel	5.3	79.3	72.1	131.4	9,479	2.05	19,378	10,439	8,285	1,600	2,154
Soybeans:				Bu.	Mil. bu.	$/bu.			Mil. bu.		
1988	-	58.8	57.4	27.0	1,549	7.42	11,488	1,655	1,673	527	182
1989	-	60.8	59.5	32.3	1,924	5.69	10,732	2,108	1,869	623	239
1990	-	57.8	56.5	34.1	1,926	5.74	11,042	2,168	1,839	557	329
1991	-	59.2	58.0	34.2	1,987	5.58	11,092	2,319	2,041	685	278
1992, prel	-	59.3	58.4	37.6	2,197	5.40	11,843	2,447	2,097	730	350
Hay:				Sh. tons	Mil. sh. tons	$/ton			Mil. sh. tons		
1988	-	(NA)	65.1	1.94	126	[5][6]85.20	10,457	153	136	(NA)	18
1989	-	(NA)	63.3	2.30	146	[5][6]87.40	11,514	163	136	(NA)	27
1990	-	(NA)	61.4	2.39	147	[5][6]80.60	10,462	174	147	(NA)	27
1991	-	(NA)	62.5	2.45	153	[5][6]71.20	10,006	181	152	(NA)	29
1992, prel	-	(NA)	59.6	2.50	149	[5][6]72.10	10,506	(NA)	(NA)	(NA)	(NA)
Wheat:				Bu.	Mil. bu.	$/bu.			Mil. bu.		
1988	22.4	65.5	53.2	34.1	1,812	3.72	6,684	3,096	2,394	1,415	702
1989	9.6	76.6	62.2	32.7	2,037	3.72	7,542	2,762	2,225	1,232	536
1990	7.5	77.2	69.3	39.5	2,736	2.61	7,184	3,309	2,443	1,068	866
1991	15.9	69.9	57.7	34.3	1,981	3.00	5,957	2,888	2,416	1,281	472
1992, prel	7.0	72.3	62.4	39.4	2,459	3.25	7,979	2,981	2,458	1,275	523
Cotton:				Lb.	Mil. bales [7]	cents/lb.			Mil. bales [7]		
1988	2.2	12.5	11.9	619	[8]15.4	56.6	4,190	21.2	13.9	6.1	[9]7.1
1989	3.5	10.6	9.5	614	[8]12.2	66.2	3,877	19.3	16.5	7.7	[9]3.0
1990	2.0	12.3	11.7	634	[8]15.5	67.1	5,076	18.5	16.5	7.8	[9]2.3
1991	1.2	14.1	13.0	652	[8]17.6	58.1	4,913	20.0	16.2	6.8	[9]3.9
1992, prel	1.6	13.3	11.2	700	[8]16.2	[10]54.6	[10]4,248	19.9	15.7	6.0	[9]4.3
Tobacco: [11]				Lb.	Mil. lb.	$/lb.			Mil. lb.		
1988	(NA)	(NA)	0.6	2,160	1,370	[6]1.65	2,261	4,279	1,565	555	[12]2,714
1989	(NA)	(NA)	0.7	2,016	1,367	[6]1.71	2,338	4,081	1,677	582	[12]2,401
1990	(NA)	(NA)	0.7	2,218	1,626	[6]1.74	2,827	4,026	1,794	631	[12]2,232
1991	(NA)	(NA)	0.8	2,179	1,664	[6]1.77	2,951	3,895	1,615	639	[12]2,280
1992, prel	(NA)	(NA)	0.8	2,171	1,697	[6]1.78	2,996	3,968	(NA)	(NA)	(NA)
Potatoes:				Cwt.	Mil. cwt.	$/cwt.			Mil. cwt.		
1988	(NA)	1.3	1.3	283	356	6.02	2,144	558	[13]300	[14]16	(NA)
1989	(NA)	1.3	1.3	289	370	7.36	2,717	555	[13]315	[14]16	(NA)
1990	(NA)	1.4	1.4	293	402	6.08	2,431	582	[13]319	[14]17	(NA)
1991	(NA)	1.4	1.4	304	418	4.96	2,043	618	[13]330	[14]19	(NA)
1992, prel	(NA)	1.4	1.3	316	412	5.28	2,160	629	[13]347	[14]22	(NA)
Sorghum for grain:				Bu.	Mil. bu.	$/bu.			Mil. bu.		
1988	3.9	10.3	9.0	63.8	577	2.27	1,337	1,239	800	311	440
1989	3.3	12.6	11.1	55.4	615	2.10	1,288	1,055	835	303	220
1990	3.3	10.5	9.1	63.1	573	2.12	1,221	793	650	232	143
1991	2.5	11.1	9.9	59.3	585	2.25	1,331	722	669	291	53
1992, prel	1.9	13.3	12.2	72.8	884	1.90	1,693	931	810	300	121
Rice, rough:				Lb.	Mil. cwt.	$/cwt.			Mil. cwt.		
1988	1.1	2.9	2.9	5,514	160	6.83	1,092	195	168	86	27
1989	1.2	2.7	2.7	5,749	155	7.35	1,134	186	159	77	26
1990	1.0	2.9	2.8	5,529	156	6.70	1,047	187	163	71	25
1991	0.9	2.9	2.8	5,674	157	7.58	1,201	184	157	66	27
1992, prel	0.4	3.2	3.1	5,722	179	6.20	1,099	201	168	74	32

- Represents zero. NA Not available. [1] Acreage set aside under diversion, PIK (payment-in-kind) and acreage reduction programs. [2] Except as noted, marketing year average price. U.S. prices are computed by weighting U.S. monthly prices by estimated monthly marketings and do not include an allowance for outstanding loans and government purchases and payments. [3] Comprises production, imports, and beginning stocks. [4] Includes feed, residual, and other domestic uses not shown separately. [5] Prices are for hay sold baled. [6] Season average prices received by farmers. U.S. prices are computed by weighting State prices by estimated sales and include an allowance for outstanding loans and government purchases, if any, for crops under government programs. [7] Bales of 480 pounds, net weight. [8] State production figures, which conform with U.S. Bureau of the Census annual ginning enumeration with allowance for cross-State ginnings, rounded to thousands and added for U.S. totals. [9] Stock estimates based on Census Bureau data which results in an unaccounted difference between supply and use estimates and changes in ending stocks. [10] Average to April 1, 1993. [11] Flue-cured and cigar wrapper, crop year July-June; all other types October-September. Farm-sales-weight basis. [12] Includes tobacco carried over on farms. [13] Covers potatoes used for table use, frozen and canned products, chips, and dehydration. [14] Covers fresh potatoes, chips, frozen and dehydrated products.

Source: Production—U.S. Dept. of Agriculture, National Agricultural Statistics Service. In *Crop Production*, annual; and *Crop Values*, annual. Supply and disappearance—U.S. Dept. of Agriculture, Economic Research Service, *Feed Situation*, quarterly; *Fats and Oils Situation*, quarterly; *Wheat Situation*, quarterly; *Tobacco Situation*, quarterly; *Cotton and Wool Outlook Statistics*, periodic; and *Agricultural Supply and Demand Estimates*, periodic. All data are also in *Agricultural Statistics*, annual; and *Agricultural Outlook*, monthly.

No. 1131. Selected Crops—Acreage, Production, and Value, by Leading States: 1990 to 1992

[One bushel of corn = 56 pounds; one bushel of soybeans or wheat = 60 pounds. See also *Historical Statistics, Colonial Times to 1970*, series K 502-508, 521, 553-558, and 561-563]

STATE	ACREAGE HARVESTED (1,000 acres)			YIELD PER ACRE			PRODUCTION			PRICE			FARM VALUE (mil. dol.)		
	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992	1990	1991	1992
CORN				(bu.)			(mil. bu.)			($/bu.)					
U.S. [1]	**66,952**	**68,847**	**72,144**	**119**	**109**	**131**	**7,934**	**7,475**	**9,479**	**2.28**	**2.37**	**2.05**	**18,192**	**17,864**	**19,378**
IA	12,400	12,200	12,950	126	117	147	1,562	1,427	1,904	2.21	2.30	1.95	3,453	3,283	3,712
IL	10,400	11,000	11,050	127	107	149	1,321	1,177	1,646	2.36	2.46	2.05	3,117	2,895	3,375
NE	7,300	7,800	7,900	128	127	135	934	991	1,067	2.28	2.34	2.05	2,130	2,318	2,186
IN	5,450	5,550	5,970	129	92	147	703	511	878	2.31	2.45	2.00	1,624	1,251	1,755
MN	6,150	6,000	6,500	124	120	114	763	720	741	2.17	2.22	1.90	1,655	1,598	1,408
OH	3,450	3,400	3,550	121	96	143	417	326	508	2.32	2.48	2.00	968	809	1,015
MO	1,960	2,200	2,400	105	97	135	206	213	324	2.38	2.45	2.15	490	523	697
WI	3,000	3,200	2,950	118	119	104	354	381	307	2.18	2.30	2.10	772	876	644
SD	3,000	3,250	3,300	78	74	84	234	241	277	2.08	2.16	1.85	487	519	513
KS	1,450	1,650	1,730	130	125	150	189	206	260	2.25	2.42	2.15	424	499	558
MI	2,070	2,300	2,300	115	110	105	238	253	242	2.21	2.34	2.00	526	592	483
TX	1,450	1,500	1,620	90	110	125	131	165	203	2.51	2.68	2.45	328	442	496
KY	1,200	1,250	1,300	100	89	132	120	111	172	2.48	2.58	2.20	298	287	378
CO	830	840	835	155	153	148	129	129	124	2.36	2.43	2.20	304	312	272
PA	970	860	990	113	75	120	110	65	119	2.62	2.87	2.20	287	185	261
NC	1,070	950	1,040	68	90	95	73	86	99	2.53	2.63	2.20	184	225	217
SOYBEANS				(bu.)			(mil. bu.)			($/bu.)					
U.S. [1]	**56,512**	**58,011**	**58,383**	**34**	**34**	**38**	**1,926**	**1,987**	**2,197**	**5.74**	**5.58**	**5.40**	**11,042**	**11,092**	**11,843**
IL	9,100	9,100	9,430	39	36	43	355	341	405	5.85	5.70	5.45	2,076	1,945	2,210
IA	7,900	8,630	8,270	42	41	44	328	350	364	5.63	5.51	5.35	1,846	1,926	1,947
IN	4,180	4,400	4,520	41	39	43	171	172	194	5.81	5.68	5.40	996	975	1,050
MN	4,600	5,350	5,400	39	37	32	179	195	173	5.55	5.41	5.35	996	1,056	924
MO	4,150	4,430	4,250	30	31	38	125	135	162	5.73	5.59	5.30	713	755	856
OH	3,480	3,770	3,680	39	36	40	136	136	147	5.81	5.69	5.45	789	772	802
AR	3,350	3,200	3,160	27	28	33	90	90	104	5.91	5.71	5.60	535	512	584
NE	2,360	2,460	2,460	35	34	42	81	82	103	5.59	5.47	5.25	455	451	542
KS	1,950	1,900	1,850	24	23	37	47	44	68	5.67	5.55	5.30	265	243	363
SD	1,920	2,160	2,250	28	27	28	54	58	63	5.54	5.33	5.10	298	311	321
MS	1,900	1,800	1,750	21	26	34	40	47	60	5.88	5.74	5.60	235	269	333
MI	1,140	1,390	1,440	38	38	33	43	53	48	5.63	5.52	5.45	244	292	259
KY	1,220	1,130	1,160	32	33	38	39	37	44	5.86	5.78	5.50	229	212	242
NC	1,350	1,310	1,350	24	30	27	32	39	36	5.68	5.56	5.45	184	215	199
WHEAT				(bu.)			(mil. bu.)			($/bu.)					
U.S. [1]	**69,283**	**57,703**	**62,407**	**40**	**34**	**39**	**2,736**	**1,981**	**2,459**	**2.61**	**3.00**	**3.25**	**7,184**	**5,957**	**7,979**
ND	10,910	9,790	11,420	35	31	41	385	304	470	2.46	3.04	3.15	945	926	1,485
KS	11,800	11,000	10,700	40	33	34	472	363	364	2.51	2.81	3.10	1,185	1,020	1,128
OK	6,300	5,000	5,900	32	28	29	202	140	171	2.57	2.85	3.15	518	399	539
MN	2,865	2,155	2,805	48	31	50	139	67	140	2.53	3.21	3.15	349	215	440
MT	5,185	4,379	4,707	28	36	30	146	160	140	2.65	3.17	3.45	384	506	481
TX	4,200	2,800	3,800	31	30	34	130	84	129	2.74	2.69	3.20	357	226	413
WA	2,480	2,150	2,420	61	46	49	150	99	120	2.73	3.73	3.85	409	367	461
SD	3,789	3,117	3,733	34	31	32	128	96	120	2.52	3.06	3.20	321	295	384
ID	1,370	1,160	1,440	73	70	69	100	82	100	2.53	3.56	3.60	252	290	358
CO	2,590	2,336	2,347	34	32	31	87	74	73	2.46	3.07	3.15	214	227	228
MO	2,000	1,500	1,350	38	32	48	76	48	65	2.69	2.37	3.10	204	114	201
IL	1,850	1,400	1,150	48	32	54	89	45	62	2.75	2.56	3.25	244	115	202
OH	1,350	1,080	1,115	59	49	53	80	53	59	2.70	2.93	3.05	215	155	180
COTTON				(lb.)			(1,000 bales) [2]			(cents/lb.)					
U.S. [1]	**11,732**	**12,960**	**11,153**	**634**	**652**	**700**	**15,505**	**17,614**	**16,218**	**68.2**	**58.1**	**54.6**	**5,076**	**4,913**	**4,248**
TX	5,057	5,457	3,585	479	419	449	5,046	4,758	3,322	63.9	54.0	49.5	1,547	1,233	790
CA	1,116	1,041	1,105	1,201	1,242	1,338	2,791	2,694	3,111	77.5	68.2	62.4	1,039	882	931
MS	1,221	1,231	1,345	728	888	767	1,852	2,276	2,131	65.4	55.2	50.9	581	603	521
AR	750	980	980	692	772	833	1,081	1,576	1,681	65.7	57.1	55.3	341	432	446
LA	790	820	870	715	826	712	1,177	1,414	1,299	66.1	53.1	51.5	373	360	321
AZ	472	462	425	1,022	1,125	968	1,005	1,083	863	75.9	66.7	58.4	366	347	242
TN	515	610	618	461	522	649	495	701	834	66.3	53.9	52.6	158	181	211
TOBACCO				(lb.)			(mil. lb.)			($/lb.)					
U.S. [1]	**733**	**764**	**782**	**2,218**	**2,179**	**2,171**	**1,626**	**1,664**	**1,697**	**1.74**	**1.77**	**1.78**	**2,827**	**2,951**	**2,996**
NC	284	275	270	2,251	2,308	2,204	640	635	596	1.68	1.73	1.74	1,076	1,099	1,034
KY	194	223	231	2,278	2,151	2,203	442	480	509	1.76	1.80	1.83	779	863	933
TN	54	62	67	2,094	1,969	2,016	112	122	135	1.78	1.83	1.85	200	223	250
SC	51	51	52	2,155	2,180	2,160	110	111	112	1.59	1.72	1.70	174	191	191
VA	53	54	51	2,074	2,184	2,166	110	117	111	1.71	1.72	1.77	188	201	196
GA	43	40	44	2,415	2,015	2,300	104	81	101	1.68	1.69	1.69	175	137	171

[1] Includes other States, not shown separately. [2] Bales of 480 lb. net weight.

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

No. 1132. Sugar Beets, Sugarcane, and Sugar—Summary: 1990 to 1992

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

ITEM	Unit	SUGAR BEETS			SUGARCANE FOR SUGAR AND SEED			YEAR	SUGAR PRODUCTION (1,000 tons)	
		1990	1991	1992	1990	1991	1992		Raw value [1]	Refined basis [2]
Acreage harvested	1,000 acres	1,377	1,387	1,411	794	897	935	**Beet:** 1990	3,842	3,591
Yield per acre	Sh. tons	20.0	20.3	20.4	35.4	33.7	33.0	1991	3,729	3,485
Production	Mil. tons	27.5	28.2	28.8	28.1	30.3	30.9	1992	4,147	3,876
Price per ton [3]	Dollars	43.00	38.50	(NA)	[4]30.80	[4]29.00	(NA)	**Cane:** 1990	3,152	2,945
Farm value	Mil. dol	1,182	1,086	(NA)	[5]863	[5]876	(NA)	1991	3,430	3,206
								1992	3,416	3,193

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

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

No. 1133. Fruits and Planted Nuts—Bearing Areas, by Type: 1980 to 1992

[In thousands of acres]

TYPE	1980	1984	1985	1986	1987	1988	1989	1990	1991	1992, prel.
Total [1]	**3,556**	**3,545**	**3,494**	**3,432**	**3,458**	**3,485**	**3,497**	**3,501**	**3,459**	**3,455**
Citrus fruit [1]	1,143	1,008	899	819	826	833	848	852	850	884
Major deciduous fruits [2]	1,608	1,704	1,725	1,728	1,739	1,748	1,751	1,754	1,748	1,746
Miscellaneous noncitrus [3]	242	210	212	216	217	217	213	206	200	[4]167
Planted nuts [5]	563	624	657	670	675	686	687	689	660	659

[1] Grapefruit, lemons, limes, oranges, tangelos, tangerines, and temples. Acreage is for the year harvest was completed. [2] Commercial apples, apricots, cherries, grapes, nectarines, peaches, pears, plums, and prunes. [3] Avocados, bananas, berries (beginning 1992), cranberries (beginning 1984), dates, figs, guavas (beginning 1988), kiwifruit, olives, papayas, pineapples, and pomegranates (until 1989). [4] Excludes avocados and guavas. [5] Almonds, hazelnuts, macadamia nuts, walnuts, and pistachios.

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

No. 1134. Fruits and Nuts—Utilized Production and Value, 1989 to 1991, and Leading Producing States, 1991

FRUIT OR NUT	UTILIZED PRODUCTION [1]				FARM VALUE (mil. dol.)			Leading States in order of production, 1991
	Unit	1989	1990	1991	1989	1990	1991	
Apples (35 States) [2]	Mil. lb	9,917	9,658	9,837	1,034	1,457	1,778	WA, NY, MI
Apricots	1,000 tons	119	120	92	40	41	37	CA, WA, UT
Avocados	1,000 tons	139	156	179	251	206	179	CA, FL, HI
Bananas	Mil. lb	12	11	11	4	4	5	HI
Cherries, sweet	1,000 tons	191	132	143	136	118	138	WA, OR, CA
Cherries, tart	Mil. lb	243	203	190	35	37	85	MI, UT, NY
Cranberries	1,000 bbl. [3]	3,747	3,391	4,178	165	156	207	MA, WI, NJ
Dates	1,000 tons	22	24	22	23	20	21	CA
Figs (fresh)	1,000 tons	48	49	37	18	17	13	CA
Grapefruit (4 States)	Mil. boxes [4]	70	49	56	416	372	393	FL, CA, AZ
Grapes (13 States)	1,000 tons	5,930	5,660	5,555	1,863	1,670	1,732	CA, WA, NY
Kiwifruit	1,000 tons	37	34	29	15	14	24	CA
Lemons (2 States)	Mil. boxes [5]	20	19	19	235	280	289	CA, AZ
Limes (FL)	Mil. boxes [6]	2	2	1	21	23	28	FL
Nectarines	1,000 tons	220	232	215	88	110	86	CA
Olives	1,000 tons	123	132	65	57	56	36	CA
Oranges and tangerines (4 States)	Mil. boxes [7]	215	188	183	1,932	1,537	1,657	FL, CA, AZ
Papayas	Mil. lb	74	69	55	14	15	16	HI
Peaches (32 States)	Mil. lb	2,230	2,140	2,492	365	372	393	CA, SC, GA
Pears	1,000 tons	916	964	904	254	270	274	WA, CA, OR
Pineapples	1,000 tons	580	575	555	98	106	108	HI
Plums and prunes (fresh)	1,000 tons	1,017	734	832	281	271	283	CA, WA, MI
Tangelos (FL)	Mil. boxes [8]	3	3	3	31	21	21	FL
Temples (FL)	Mil. boxes [8]	4	1	3	28	11	21	FL
Almonds (shelled basis)	Mil. lb	490	660	490	481	598	540	CA
Hazelnuts (in the shell)	1,000 tons	13	22	26	11	17	19	OR, WA
Macadamia nuts	Mil. lb	51	50	50	45	41	35	HI
Pecans (in the shell) (11 States)	Mil. lb	251	205	299	179	248	310	GA, TX, NM
Pistachios	Mil. lb	39	120	77	64	122	96	CA
Walnuts, English (in the shell)	1,000 tons	229	227	259	245	236	280	CA

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

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

No. 1135. Commercial Vegetable and Other Specified Crops—Area, Production, and Value, 1989 to 1991, and Leading Producing States, 1991

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

CROP	AREA [1] (1,000 acres)			PRODUCTION [2] (1,000 short tons)			VALUE [3] (mil. dol.)			Leading States in order of production, 1991
	1989	1990	1991	1989	1990	1991	1989	1990	1991	
Asparagus [4]	99	96	92	125	122	113	150	148	150	WA, CA, MI
Beans, snap [4]	249	246	235	870	796	779	151	146	137	WI, OR, MI
Beans, dry edible	1,651	2,084	1,863	1,186	1,619	1,648	677	599	524	ND, MI, NE
Broccoli	117	111	101	676	617	560	276	268	242	CA, AZ, OR
Carrots	102	94	97	1,449	1,462	1,391	297	273	309	CA, WA, MI
Cauliflower	68	66	56	392	393	352	205	190	188	CA, AZ, OR
Celery	35	38	33	1,014	991	955	268	215	206	CA, FL, MI
Corn, sweet	643	676	719	3,756	3,958	4,131	470	468	493	WI, MN, WA
Cucumbers [4]	124	115	104	643	653	623	131	136	131	MI, NC, WI
Honeydew melons	30	26	26	257	225	187	62	61	69	CA, TX, AZ
Lettuce	243	231	222	3,762	3,660	3,539	950	844	810	CA, AZ, FL
Peppermint	101	102	111	3.3	3.5	3.2	87	97	87	OR, WA, ID
Spearmint	26	34	41	0.9	1.3	1.5	26	38	42	WA, WI, ID
Mushrooms [5]	133	138	140	334	357	375	596	645	648	PA, CA, FL
Onions [4]	133	138	134	2,395	2,639	2,535	497	489	581	OR, CA, CO
Peas, green [4]	317	341	333	505	528	491	120	131	128	WI, WA, MN
Potatoes	1,282	1,371	1,375	18,522	20,106	20,911	2,717	2,431	2,095	ID, WA, ND
Strawberries	46	46	47	571	627	684	538	580	634	CA, FL, OR
Sweet potatoes	86	90	78	568	630	575	186	122	142	NC, LA, CA
Tomatoes	462	489	488	11,280	12,041	12,560	1,848	1,626	1,797	CA, FL, OH

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

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

No. 1136. Fresh Fruits and Vegetables—Consumption and Imports: 1990

[Data for vegetables may include some vegetables for processing]

FRUIT	Total U.S. consumption (mil. lb.)	PERCENT OF CONSUMPTION		VEGETABLE	Total U.S. consumption (mil. lb.)	PERCENT OF CONSUMPTION	
		Imported	Imported from Mexico			Imported	Imported from Mexico
All fruits, total	**23,124**	**35.3**	**3.3**	**All vegetables, total**	**49,337**	**8.4**	**5.4**
Excluding bananas	17,035	12.3	2.5				
Citrus fruits	5,641	3.3	2.1	Asparagus	148	29.6	22.0
Oranges	3,345	0.8	0.2	Beans, snap	267	11.2	10.9
Grapefruit	1,119	0.9	-	Beans, dry edible	1,507	3.7	-
Tangerines	238	15.7	11.5	Broccoli	842	2.5	2.1
Lemons	655	3.5	-	Cantaloupe	2,278	23.3	14.2
Limes	185	47.1	44.8	Carrots	2,004	6.1	1.6
Tangelos	100	-	-	Cabbage	2,178	4.1	1.8
Noncitrus fruits	17,587	44.4	3.0	Celery	1,800	2.3	1.7
Apples	4,979	4.8	-	Cauliflower	556	4.0	3.3
Grapes	1,962	36.7	2.9	Corn, sweet	1,615	0.9	0.9
Pears	815	11.9	-	Cucumbers	1,169	33.7	31.4
Apricots	41	5.3	-	Eggplant	100	35.9	35.8
Avocados	271	10.9	-	Garlic	360	15.2	6.5
Bananas	6,089	99.8	5.5	Honeydew melons	516	22.3	12.6
Cherries, sweet	95	3.3	-	Lettuce	6,940	0.2	0.2
Cherries, tart	4	15.8	-	Mushrooms	497	0.7	-
Cranberries	28	-	-				
Figs	3	5.9	-	Onions	4,643	8.2	6.9
Kiwifruit	124	59.2	-	Peas, green	487	4.1	2.2
Mangoes [1]	104	95.3	82.0	Peppers	1,069	20.6	18.8
Nectarines	376	-	-	Potatoes	11,372	6.0	-
Peaches	933	12.2	-	Squash	340	50.9	48.4
Pineapple	520	48.3	1.7	Sweet potatoes	1,241	4.8	-
Plums and prunes	384	13.5	-	Tomatoes	3,874	20.5	20.1
Strawberries	814	4.0	3.4	Watermelon	3,534	6.5	6.2
Papayas	45	25.5	14.4				

- Represents zero. [1] Data for 1989.

Source: U.S. Dept. of Agriculture, Economic Research Service, *Agricultural Outlook*, December 1992.

No. 1137. Greenhouse and Nursery Crops—Summary, by Type of Product: 1988 to 1992

[In millions of dollars, except per capita. Based on a survey of 28 commercial floriculture States and estimates by source]

ITEM	Total	Cut flowers	Potted flowering plants	Foliage plants	Bedding plants	Cut cultivated greens	Other [1]
Domestic production: [2]							
1988	7,069	514	643	567	839	102	4,404
1989	7,617	542	681	575	996	111	4,711
1990	8,227	572	872	608	1,003	130	5,040
1991	8,405	552	929	575	1,076	135	5,138
1992, prel	8,800	529	990	569	1,150	140	5,422
Imports: [2]							
1988	429	284	16	22	(NA)	22	86
1989	498	316	20	22	(NA)	13	128
1990	529	326	18	25	(NA)	14	147
1991	533	322	22	27	(NA)	13	150
1992, prel	555	335	23	28	(NA)	14	155
RETAIL CONSUMER EXPENDITURES [3]							
Total:							
1988	32,848	4,778	2,568	2,319	3,357	619	19,208
1989	35,732	5,232	2,880	2,406	3,985	579	20,651
1990	38,195	5,379	3,629	2,418	4,013	670	22,085
1991	38,904	5,229	3,888	2,308	4,304	710	22,464
1992, prel	40,683	5,259	4,139	2,263	4,600	721	23,681
Per capita (dol.): [4]							
1988	134	20	11	9	14	3	79
1989	145	21	12	10	16	2	84
1990	153	22	15	10	16	3	89
1991	154	21	15	9	17	3	89
1992, prel	160	21	16	9	18	3	93

NA Not available. [1] Includes turfgrass (sod), bulbs, nursery stock, groundcovers, and other greenhouse and nursery products except the following: seeds, cut Christmas trees, and food crops grown under cover. [2] Equivalent wholesale values. [3] Excludes services such as landscaping, installation, and maintenance. [4] Based on U.S. Bureau of the Census estimated resident population as of July 1.

Source: U.S. Dept. of Agriculture, Economic Research Service, unpublished data.

No. 1138. Red Meats—Slaughtering, Supply, and Use: 1980 to 1992

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

YEAR AND TYPE OF MEAT	Animals slaughtered (mil. head)	Production	Imports	Supply, [1] total	Consumption [2]	Exports	Ending stocks
All red meats:							
1980	139.7	38,978	2,668	42,480	41,170	429	881
1985	131.3	39,408	3,255	43,503	42,310	462	732
1989	130.9	39,602	3,137	43,609	41,662	1,287	660
1990	126.4	38,787	3,313	42,760	40,806	1,247	707
1991	128.6	39,585	3,241	43,533	41,234	1,474	825
1992	135.4	41,081	3,126	45,032	42,475	1,758	799
Beef:							
1980	34.1	21,643	2,064	24,166	23,561	173	432
1985	36.6	23,728	2,071	26,271	25,523	328	420
1989	34.1	23,087	2,178	25,687	24,329	1,023	335
1990	33.4	22,743	2,356	25,434	24,031	1,006	397
1991	32.9	22,917	2,406	25,720	24,113	1,188	419
1992	33.1	23,150	2,410	25,979	24,234	1,345	400
Pork:							
1980	97.2	16,617	550	17,521	16,838	252	431
1985	84.9	14,807	1,128	16,282	15,866	128	288
1989	89.0	15,813	896	17,146	16,571	262	313
1990	85.4	15,354	898	16,565	16,031	238	296
1991	88.4	15,999	775	17,070	16,394	283	393
1992	95.3	17,265	650	18,308	17,513	410	385
Veal:							
1980	2.7	400	21	431	420	2	9
1985	3.5	515	20	549	534	5	11
1989	2.2	355	(NA)	360	356	(NA)	4
1990	1.8	327	(NA)	331	325	(NA)	6
1991	1.5	306	(NA)	312	305	(NA)	7
1992	1.4	313	(NA)	320	314	(NA)	6
Lamb and mutton:							
1980	5.7	318	33	362	351	2	9
1985	6.3	358	36	401	387	1	13
1989	5.6	347	63	416	406	2	8
1990	5.8	363	59	430	419	3	8
1991	5.8	363	60	431	422	3	6
1992	5.6	353	66	425	414	3	8

NA Not available. [1] Total supply equals production plus imports plus ending stocks of previous year. [2] Includes shipments to territories.

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

No. 1139. Livestock Inventory and Production: 1980 to 1992

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

TYPE OF LIVESTOCK	Unit	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
ALL CATTLE [1]												
Inventory: [2] Number on farms	Mil	111.2	115.0	113.4	109.6	105.4	102.1	99.6	98.1	98.2	98.9	100.1
Total value	Bil. dol.	55.8	46.7	44.8	44.0	41.2	41.6	52.1	56.9	60.3	64.7	63.0
Value per head	Dol	502	406	396	402	391	407	523	580	614	654	629
Production: Quantity	Bil. lb	40.3	40.4	40.1	40.1	40.6	40.5	40.6	40.2	40.4	41.4	(NA)
Beef, price per 100 lb	Dol	62.40	55.50	57.30	53.70	52.60	61.10	66.60	69.50	74.60	72.70	(NA)
Calves, price per 100 lb	Dol	76.80	61.70	59.90	62.10	61.10	78.50	89.20	90.80	95.60	98.00	(NA)
Value of production	Bil. dol.	25.5	22.0	22.1	21.2	21.0	24.8	27.2	28.0	30.2	30.6	(NA)
HOGS AND PIGS												
Inventory: [3] Number on farms	Mil	67.3	54.5	56.7	54.1	52.3	51.0	54.4	55.5	53.8	54.5	57.0
Total value	Bil. dol.	3.8	4.9	3.3	4.1	3.6	4.7	4.1	3.7	4.3	4.7	3.9
Value per head	Dol	56.00	89.90	58.80	75.00	69.60	91.90	76.00	66.30	79.10	85.40	69.10
Production: Quantity	Bil. lb	23.4	21.2	20.2	20.2	19.5	20.4	21.7	21.9	21.3	22.8	(NA)
Price per 100 lb	Dol	38.00	46.80	47.10	44.00	49.30	51.20	42.30	42.50	53.70	48.10	(NA)
Value of production	Bil. dol.	8.9	9.9	9.5	8.9	9.6	10.4	9.1	9.3	11.4	11.1	(NA)
SHEEP AND LAMBS												
Inventory: [2] Number on farms	Mil	12.7	12.1	11.6	10.7	10.1	10.6	10.9	10.9	11.4	11.2	10.9
Total value	Mil. dol	993	629	603	654	684	799	985	895	902	735	666
Value per head	Dol	78.20	51.80	52.10	61.10	67.40	75.70	90.00	82.40	79.30	65.60	61.40
Production: Quantity	Mil. lb	746	769	700	704	726	733	707	776	758	768	(NA)
Sheep, price per 100 lb	Dol	21.30	15.70	16.40	23.90	25.60	29.50	25.60	24.40	23.20	19.70	(NA)
Lambs, price per 100 lb	Dol	63.60	53.90	60.10	67.70	69.00	77.60	69.10	66.10	55.50	52.20	(NA)
Value of production	Mil. dol	403	356	378	434	445	503	420	446	362	342	(NA)

NA Not available. [1] Includes milk cows. [2] As of Jan. 1. [3] As of Dec. 1 of preceding year.
Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals—Production, Disposition, and Income*, annual; and annual livestock summaries. Also in *Agricultural Statistics*, annual.

No. 1140. Cattle and Calves; and Hogs and Pigs—Number, Production, and Value, by State: 1989 to 1992

[See headnote, table 1139]

STATE	NUMBER ON FARMS [1] (1,000)			QUANTITY PRODUCED (mil. lb.)			VALUE OF PRODUCTION (mil. dol.)			COMMERCIAL SLAUGHTER [2] (mil. lb.)		
	1990	1991	1992	1989	1990	1991	1989	1990	1991	1989	1990	1991
CATTLE AND CALVES [3]												
U.S. [4]	**98,162**	**98,896**	**100,110**	**40,241**	**40,386**	**41,412**	**28,031**	**30,229**	**30,551**	**38,467**	**37,758**	**38,029**
AL	1,750	1,800	1,800	647	767	786	440	548	611	297	288	(5)
AR	1,700	1,690	1,710	648	575	683	440	414	466	39	32	30
CA	4,800	4,600	4,500	2,025	1,943	1,979	1,274	1,273	1,272	1,362	1,408	1,338
CO	2,900	2,750	2,950	1,791	1,905	1,899	1,320	1,498	1,434	2,542	2,363	2,634
ID	1,660	1,740	1,760	810	848	836	527	585	552	825	763	(5)
IL	1,950	2,000	1,980	760	786	773	578	617	577	1,389	(5)	(5)
IA	4,500	4,700	4,450	2,078	1,899	1,931	1,467	1,446	1,384	2,162	2,134	1,952
KS	5,700	5,700	5,650	3,083	3,122	3,144	2,262	2,428	2,370	7,001	7,091	6,937
KY	2,420	2,500	2,580	697	744	793	499	568	611	105	100	94
MN	2,600	2,760	2,800	1,233	1,115	1,161	812	798	792	1,209	1,264	1,344
MO	4,400	4,400	4,550	1,242	1,158	1,119	959	969	953	390	351	299
MT	2,300	2,330	2,550	955	974	1,029	671	719	749	16	30	21
NE	5,800	6,000	5,800	3,714	3,784	3,741	2,728	2,895	2,782	6,698	6,804	7,424
ND	1,700	1,700	1,850	660	637	663	513	532	542	238	215	(5)
OK	5,250	5,550	5,500	2,033	1,928	1,959	1,371	1,437	1,533	82	62	44
SD	3,380	3,400	3,550	1,792	1,756	1,762	1,272	1,385	1,387	751	702	625
TN	2,300	2,250	2,290	652	665	654	426	455	456	105	(5)	(5)
TX	13,200	13,300	13,600	5,639	5,900	6,691	3,982	4,544	5,032	6,282	6,100	6,156
WI	4,170	4,170	4,000	1,244	1,210	1,228	800	879	834	1,436	1,368	1,347
HOGS AND PIGS												
U.S. [4]	**53,821**	**54,477**	**56,974**	**21,942**	**21,347**	**22,791**	**9,294**	**11,376**	**11,095**	**22,027**	**21,230**	**22,200**
IL	5,700	5,700	5,800	2,324	2,225	2,435	986	1,192	1,174	2,178	2,250	2,221
IN	4,350	4,400	4,550	1,666	1,666	1,742	696	870	824	919	876	924
IA	13,500	13,800	14,800	5,544	5,394	5,863	2,379	2,913	2,942	6,421	6,571	7,121
MN	4,450	4,500	4,900	1,787	1,714	1,811	780	948	915	1,228	1,382	1,827
MO	2,700	2,800	2,650	1,078	1,040	1,082	460	572	529	899	685	(5)
NE	4,200	4,300	4,400	1,657	1,624	1,763	707	882	863	1,243	1,299	1,355
NC	2,570	2,800	3,550	1,178	1,190	1,473	493	607	688	698	654	(5)
SD	1,720	1,770	1,950	771	753	817	328	410	406	998	1,154	1,247

[1] Cattle and calves, as of January 1; hogs and pigs as of December 1 of preceding year. [2] Data for cattle and calves cover cattle only. Includes slaughter in federally inspected and other slaughter plants; excludes animals slaughtered on farms. [3] Includes milk cows. [4] Includes other States not shown separately. [5] Included in U.S. total. Not printed to avoid disclosing individual operation.
Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *Meat Animals-Production, Disposition and Income*, annual.

No. 1141. Milk Production and Commercial Use: 1980 to 1992

[In billions of pounds milkfat basis]

YEAR	Production	Farm use	COMMERCIAL		Imports	Commercial supply, total	CCC net removals [1]	COMMERCIAL		Milk price per 100 lb. [2] (dol.)
			Farm marketings	Beginning stock				Ending stock	Disappearance	
1980	128.4	2.3	126.1	5.3	2.1	133.5	9.0	5.6	118.8	13.1
1985	143.0	2.5	140.6	4.8	2.8	148.2	13.4	4.5	130.3	12.8
1988	145.2	2.2	142.9	4.6	2.4	149.9	9.1	4.3	136.5	12.3
1989	144.2	2.1	142.2	4.3	2.5	148.9	9.4	4.1	135.4	13.6
1990	148.3	2.0	146.3	4.1	2.7	153.1	9.0	5.1	138.9	13.7
1991	148.5	2.0	146.5	5.1	2.6	154.3	10.4	4.5	139.4	12.2
1992	151.8	2.0	149.8	4.5	2.5	156.8	10.2	4.5	142.1	13.2

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

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

No. 1142. Milk Production and Manufactured Dairy Products: 1980 to 1991

[See also *Historical Statistics, Colonial Times to 1970*, series K 595-601]

ITEM	Unit	1980	1984	1985	1986	1987	1988	1989	1990	1991
Number of farms with milk cows	1,000	334	282	269	249	228	217	204	194	182
Cows and heifers that have calved, kept for milk	Mil. head	10.8	10.8	11.0	10.8	10.3	10.3	10.1	10.1	10.0
Milk produced on farms	Bil. lb	128	135	143	143	143	145	144	148	149
Production per cow	1,000 lb.	11.9	12.5	13.0	13.3	13.8	14.1	14.2	14.6	14.9
Whole milk sold from farms [1]	Bil. lb	126	132	141	141	140	143	142	146	146
Sales to plants and dealers	Bil. lb	125	131	139	140	139	142	141	145	145
Value of milk produced	Bil. dol.	16.9	18.3	18.4	18.0	18.0	17.9	19.7	20.5	18.3
Gross farm income, dairy products	Bil. dol.	16.7	18.0	18.1	17.8	17.8	17.7	19.5	20.3	18.1
Cash receipts from marketing of milk and cream [1]	Bil. dol.	16.6	17.9	18.1	17.7	17.7	17.6	19.4	20.2	18.1
Sales to plants and dealers	Bil. dol.	16.3	17.7	17.8	17.5	17.5	17.4	19.1	20.0	17.8
Number of dairy manufacturing plants	Number	2,257	2,059	2,061	1,998	1,933	1,846	1,754	1,723	1,676
Manufactured dairy products:										
Butter (incl. whey butter)	Mil. lb	1,145	1,103	1,248	1,202	1,104	1,208	1,295	1,302	1,336
Cheese, total [2]	Mil. lb	3,984	4,674	5,081	5,209	5,344	5,572	5,615	6,059	6,091
American (excl. full-skim American)	Mil. lb	2,376	2,648	2,855	2,798	2,717	2,757	2,674	2,894	2,805
Cream and Neufchatel	Mil. lb	229	276	294	322	342	376	401	431	447
All Italian varieties	Mil. lb	983	1,319	1,491	1,633	1,800	1,937	2,043	2,207	2,329
Cottage cheese: Creamed [3]	Mil. lb	825	736	716	705	675	647	572	531	498
Curd, pot, and bakers	Mil. lb	667	606	599	600	574	557	527	493	491
Condensed bulk milk	Mil. lb	952	1,159	1,232	1,362	1,383	1,364	1,417	1,426	1,433
Evaporated and condensed canned milk	Mil. lb	740	668	656	602	597	612	545	615	543
Nonfat dry milk [4]	Mil. lb	1,168	1,168	1,398	1,294	1,077	998	893	902	885
Dry whey [5]	Mil. lb	690	898	987	1,031	1,097	1,137	1,069	1,143	1,167
Ice cream of all kinds	Mil. gal	830	894	901	924	928	882	831	824	863
Ice milk	Mil. gal	293	300	301	315	328	355	377	352	335

[1] Comprises sales to plants and dealers, and retail sales by farmers direct to consumers. [2] Includes varieties not shown separately. [3] Includes partially creamed (low fat). [4] Includes dry skim milk for animal feed. [5] Includes animal but excludes modified whey production.

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

No. 1143. Milk Cows—Number, Production, and Value, by State: 1989 to 1991

STATE	NUMBER ON FARMS [1] (1,000)			MILK PRODUCED ON FARMS (mil. lb.)			VALUE OF PRODUCTION [2] (mil. dol.)		
	1989	1990	1991	1989	1990	1991	1989	1990	1991
United States [3]	**10,126**	**10,127**	**9,990**	**144,239**	**148,313**	**148,526**	**19,688**	**20,495**	**18,326**
California	1,104	1,135	1,155	19,420	20,947	21,509	2,446	2,561	2,460
Idaho	171	179	178	2,669	2,949	2,919	328	360	324
Iowa	309	305	303	4,202	4,233	4,151	555	563	494
Michigan	345	344	341	5,152	5,233	5,256	702	739	654
Minnesota	734	710	683	10,108	10,030	9,772	1,322	1,326	1,164
Missouri	228	230	226	2,975	3,040	2,865	396	413	341
New York	776	768	758	11,071	11,067	11,094	1,576	1,621	1,414
Ohio	349	342	337	4,535	4,668	4,695	610	649	563
Pennsylvania	698	683	669	9,998	9,933	10,106	1,469	1,513	1,362
Texas	386	386	380	5,170	5,539	5,418	741	814	688
Washington	225	237	237	4,097	4,392	4,459	559	603	560
Wisconsin	1,739	1,753	1,714	24,000	24,400	24,065	3,228	3,287	2,891

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

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

No. 1144. Poultry—Number on Farms, Value, Production, and Prices: 1980 to 1991

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

ITEM	Unit	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Chickens:[1] Number[2]	Million	392	379	365	374	370	373	380	358	356	352	359
Value per head[2]	Dollars	1.88	1.85	1.96	2.02	1.90	1.87	1.87	2.04	2.16	2.29	2.30
Value, total[2]	Mil. dol.	737	701	717	757	704	698	711	726	771	805	826
Number sold[3]	Million	238	242	237	225	220	218	218	224	199	208	198
Price per lb.[3]	Cents	11.0	10.3	12.7	15.9	14.8	12.5	11.0	9.2	14.9	9.3	7.2
Value of sales[3]	Mil. dol.	129	121	145	170	152	128	112	95	138	90	68
PRODUCTION												
Broilers:[4] Number	Million	3,963	4,149	4,184	4,283	4,470	4,649	5,004	5,238	5,517	5,864	6,138
Weight	Bil. lb.	15.5	16.8	17.0	17.9	18.9	19.7	21.5	22.5	24.0	25.6	27.2
Price per lb	Cents	27.7	26.9	28.6	33.7	30.1	34.5	28.7	33.1	36.6	32.6	30.8
Production value	Mil. dol.	4,303	4,502	4,873	6,020	5,668	6,784	6,177	7,435	8,778	8,365	8,385
Turkeys: Number	Million	165	165	171	171	185	207	240	242	261	282	285
Weight	Bil. lb.	3.1	3.2	3.3	3.4	3.7	4.1	4.9	5.1	5.5	6.0	6.1
Price per lb	Cents	41.3	39.5	38.0	48.9	49.1	47.1	34.8	38.6	40.9	39.4	38.4
Gross income	Mil. dol.	1,272	1,255	1,269	1,655	1,819	1,948	1,703	1,951	2,234	2,379	2,344

[1] Excludes commercial broilers. [2] As of December 1. [3] 1980-84, represents number produced and production value. [4] Young chickens of the heavy breeds and other meat-type birds, to be marketed at 2-5 lbs. live weight and from which no pullets are kept for egg production. Not included in sales of chickens.

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

No. 1145. Poultry—Production, by State: 1989 to 1991

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

STATE	BROILERS			TURKEYS			STATE	BROILERS			TURKEYS		
	1989	1990	1991	1989	1990	1991		1989	1990	1991	1989	1990	1991
U.S.[1]	**23,979**	**25,631**	**27,209**	**5,465**	**6,030**	**6,109**	MO	308	362	479	353	360	452
AL	3,150	3,642	3,764	(NA)	(NA)	(NA)	NC	2,444	2,593	2,679	992	1,160	1,166
AR	3,866	3,995	4,214	412	453	490	OH	72	96	129	110	135	126
CA	1,049	1,109	1,152	664	712	653	OK	527	540	592	(NA)	(NA)	(NA)
DE	1,132	1,159	1,206	(NA)	(NA)	(NA)	OR	92	107	107	38	44	42
FL	519	490	506	(NA)	(NA)	(NA)	PA	549	520	544	168	169	168
GA	3,573	3,760	3,816	54	61	56	SC	308	343	395	153	168	178
IL	(NA)	(NA)	(NA)	86	99	64	SD	(NA)	(NA)	(NA)	63	80	81
IN	(NA)	(NA)	(NA)	280	288	320	TN	427	436	476	(NA)	(NA)	(NA)
IA	33	63	92	186	228	226	TX	1,254	1,454	1,496	(NA)	(NA)	(NA)
KY	10	6	89	(NA)	(NA)	(NA)	UT	(NA)	(NA)	(NA)	85	90	90
MD	1,108	1,141	1,183	2	2	3	VA	802	882	984	319	316	324
MI	3	3	3	102	125	141	WA	140	157	166	(NA)	(NA)	(NA)
MN	181	198	237	784	852	805	WV	131	156	177	55	72	77
MS	1,627	1,694	1,963	(NA)	(NA)	(NA)	WI	54	62	66	(NA)	(NA)	(NA)

NA Not available. [1] Includes other States not shown separately.

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

No. 1146. Egg Production, Supply, and Use: 1980 to 1992

YEAR	PRODUCTION[1]			SUPPLY (mil. dozen)			USE (mil. dozen)			
	Number produced (bil.)	Price per dozen (cents)	Production value (mil. dol.)	Total[2]	Production	Imports	Total	Consumption[3]	Hatching use	Exports
1980	69.7	56.3	3,268	5,830	5,806	5	5,811	5,169	499	143
1985	68.4	57.2	3,262	5,734	5,710	13	5,723	5,104	548	71
1988	69.7	52.8	3,067	5,804	5,784	5	5,789	5,041	606	142
1989	67.2	68.9	3,861	5,639	5,598	25	5,623	4,892	644	92
1990	67.9	70.9	4,011	5,685	5,665	9	5,674	4,894	679	101
1991	69.0	67.6	3,887	5,772	5,758	2	5,760	4,896	708	154
1992	(NA)	(NA)	(NA)	5,888	5,871	3	5,875	4,995	728	151

NA Not available. [1] For year ending November 30. [2] Includes beginning stocks, not shown separately. [3] Includes shipments to territories.

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

Forests and Fisheries

This section presents data on the area, ownership, and timber resource of commercial timberland; forestry statistics covering the National Forests and Forest Service cooperative programs; product data for lumber, pulpwood, woodpulp, paper, and paperboard; and similar data. In addition, data are presented on commercial fishing and the fish processing industry.

In Brief

	1992
Production:	
Paper and board	83.7 mil. sh. tns
Consumption:	
Recovered paper	26.2 mil. sh. tns

The principal sources of data relating to forests and forest products are *An Analysis of the Timber Situation in the United States, 1989-2040,1990; Forest Statistics of the United States, 1987, 1989; U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88; Land Areas of the National Forest System,* issued annually by the Forest Service of the Department of Agriculture; *Agricultural Statistics* issued by the Department of Agriculture; and reports of the census of manufactures (taken every 5 years) and the annual *Current Industrial Reports,* issued by the Bureau of the Census. Additional information is published in the monthly *Survey of Current Business* of the Bureau of Economic Analysis; and the annual *Wood Pulp and Fiber Statistics* and *The Statistics of Paper, Paperboard, and Wood Pulp* of the American Forest and Paper Association, New York, NY.

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

The completeness and reliability of statistics on forests and forest products vary considerably. The data for forest land area and stand volumes are much more reliable for areas recently surveyed than for those for which only estimates are available. In general, more data are available for lumber and other manufactured products such as particleboard and softwood panels, etc., than for the primary forest products such as poles and piling and fuelwood.

The principal sources of data relating to fisheries are *Fishery Statistics of the United States,* and *Fisheries of the United States,* both issued annually by the National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA).

The NMFS collects and disseminates data on commercial landings of fish and shellfish. 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, etc. Reports for the fish-processing industry include annual output of canned, packaged, and industrial products and, for the wholesaling and fish processing establishments, annual and seasonal employment, and number of firms, by product and State.

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

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

No. 1147. National Forest System Land and Purchases: 1970 to 1990

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

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990
Gross area [1]	Mil. acres.	226	226	226	230	230	230	230	230	231	231
National forest system [2]	Mil. acres.	187	188	187	191	191	191	191	191	191	191
Approved for purchase	1,000 acres	92	12	42	8	16	23	87	42	99	51
Average price per acre	Dollars	125	275	664	544	431	308	437	561	346	464
Total price	Mil. dol	11.5	3.3	27.9	4.2	6.9	7.0	38.0	23.5	34.0	24.0
Purchases completed	1,000 acres	113	34	27	35	7	33	53	18	46	38
Average price per acre	Dollars	96	267	617	407	653	295	360	153	428	556
Total price	Mil. dol	10.9	9.1	17.1	14.0	4.2	9.8	19.0	7.2	20.0	21.0
Gross area of purchase units	Mil. acres.	56	56	56	58	58	58	58	58	58	58
Purchase completed, net area [3]	Mil. acres.	20	20	20	20	20	20	20	20	20	20
Average price per acre	Dollars	6	9	12	15	15	16	17	17	17	19
Total price	Mil. dol	125	179	250	298	305	314	333	340	360	381

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

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

No. 1148. National Forest System—Summary: 1970 to 1991

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

ITEM	Unit	1970	1980	1985	1986	1987	1988	1989	1990	1991
Timber cut, total value	Mil. dol.	309	737	725	790	1,019	1,243	1,313	1,191	1,012
Commercial and cost sales: [1]										
Volume	Mil. bd..	11,527	9,178	10,941	11,786	12,712	12,649	11,951	10,500	8,475
Value	Mil. dol.	308	730	721	787	1,016	1,240	1,310	1,188	1,009
Free use:										
Volume	Mil. bd..	179	2,070	399	308	209	223	214	151	121
Value [2]	Mil. dol.	0.3	5.7	2.2	1.4	1.1	1.2	1.2	1.0	1.0
Misc. forest products:										
Value	Mil. dol.	0.7	1.1	1.7	1.6	1.9	2.0	2.2	2.6	2.7
Livestock grazing: [3]										
Cattle and horses [4]	1,000	1,607	1,521	1,545	1,491	1,410	1,313	1,526	1,206	1,265
Sheep and goats	1,000	2,105	1,328	1,183	1,168	1,134	1,067	972	974	1,029
Roads and trails:										
Road construction [5]	Miles	942	925	1,903	1,252	2,394	1,352	866	857	910
Trail construction [5 6]	Miles	278	2,419	987	1,092	1,046	1,834	1,944	1,637	1,921
Receipts, total	Mil. dol.	300	703	636	832	898	980	1,051	971	772
Timber use	Mil. dol.	284	625	515	745	808	888	910	850	667
Grazing use	Mil. dol.	4	16	9	9	8	9	11	10	11
Special land use, etc	Mil. dol.	11	62	112	78	82	83	130	112	93
Payments to local govt. [7]	Mil. dol.	73	240	229	271	295	325	368	368	335
25-percent fund [8]	Mil. dol.	72	234	212	262	285	317	354	358	327
Other [9]	Mil. dol.	1	7	17	9	10	8	15	10	8
Allotments to Forest Service, total [10]	Mil. dol.	30	73	60	82	88	104	111	106	88
Roads and trails	Mil. dol.	29	65	55	78	84	92	96	91	73
Other	Mil. dol.	1	8	5	4	4	12	15	14	16

[1] Includes land exchanges. [2] Includes some free use timber not reducible to board feet. [3] For 1970, data for livestock permitted to graze; 1980-91 for number actually grazed. Calendar-year data, prior to 1980. Excludes Puerto Rico. [4] Excludes animals under 6 months of age. 1970 includes swine. Includes burros beginning in 1980. [5] Includes reconstruction. [6] Beginning 1980, includes work accomplished by Human Resource Programs and volunteers. [7] Payments made in following year. [8] Includes Tongass Alaska suspense account. [9] Includes Arizona and New Mexico School Fund (through 1982), State of Minnesota, and receipts paid to counties under Bankhead-Jones Farm Tenant Act. [10] For use in following year.

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

No. 1149. National Forest System Land—States and Other Areas: 1991

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

STATE	Gross area within unit boundaries [1]	National forest system land [2]	Other lands within unit boundaries	STATE	Gross area within unit boundaries [1]	National forest system land [2]	Other lands within unit boundaries
United States	231,443	191,324	40,119	Missouri	3,082	1,475	1,606
Alabama	1,280	658	622	Montana	19,101	16,806	2,295
Alaska	24,345	22,220	2,126	Nebraska	442	352	90
Arizona	11,880	11,239	642	Nevada	6,275	5,797	478
Arkansas	3,490	2,509	981	New Hampshire	825	720	105
California	24,401	20,619	3,782	New Jersey	-	-	-
Colorado	16,039	14,462	1,577	New Mexico	10,367	9,321	1,046
Connecticut	-	-	-	New York	13	13	-
Delaware	-	-	-	North Carolina	3,165	1,232	1,934
District of Columbia	-	-	-	North Dakota	1,106	1,106	-
Florida	1,246	1,128	118	Ohio	833	203	630
Georgia	1,846	859	987	Oklahoma	461	297	165
Hawaii	-	-	-	Oregon	17,502	15,651	1,851
Idaho	21,674	20,438	1,236	Pennsylvania	744	513	231
Illinois	840	266	573	Rhode Island	-	-	-
Indiana	644	188	456	South Carolina	1,376	607	768
Iowa	-	-	-	South Dakota	2,344	1,996	349
Kansas	116	108	8	Tennessee	1,212	628	585
Kentucky	2,102	670	1,431	Texas	1,994	753	1,241
Louisiana	1,022	601	422	Utah	9,186	8,099	1,087
Maine	93	53	40	Vermont	815	340	475
Maryland	-	-	-	Virginia	3,223	1,645	1,578
Massachusetts	-	-	-	Washington	10,050	9,151	899
Michigan	4,685	2,816	2,069	West Virginia	1,863	1,025	838
Minnesota	5,467	2,810	2,657	Wisconsin	2,023	1,517	506
Mississippi	2,310	1,150	1,160	Wyoming	9,704	9,255	449

- Represents zero. [1] Comprises all publicly and privately owned land within authorized boundaries of national forests, purchase units, national grasslands, Land utilization projects, research and experimental areas, and other areas. [2] Federally owned land within the "gross area within unit boundaries."

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

No. 1150. Forest Land—Total and Timberland Area, Volume of Sawtimber, and Growing Stock: 1952 to 1987

[As of Jan. 1. See table 31 for composition of regions]

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

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

Source: U.S. Forest Service, *Forest Statistics of the United States, 1987*.

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No. 1151. Timber-Based Industries—Summary of Manufactures: 1989 to 1991

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

SIC [1] code	INDUSTRY	1989			1990			1991 [2]		
		All employees		Value of shipments (bil. dol.)	All employees		Value of shipments (bil. dol.)	All employees		Value of shipments (bil. dol.)
		Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)		Number (1,000)	Payroll (mil. dol.)	
241/242	Logging and sawmills	256.8	5,040	32.5	254.2	5,076	32.2	207.6	4,307	28.9
2411	Logging	81.7	1,596	12.0	83.4	1,647	12.2	78.1	1,561	11.4
2421	Sawmills and planing mills, general	143.7	2,937	18.5	138.9	2,913	17.9	129.5	2,747	17.5
2426	Hardwood dimension and flooring mills	29.2	472	1.8	29.3	475	1.8	26.1	462	1.7
2429	Special product sawmills, n.e.c.	2.3	36	0.2	2.5	41	0.2	2.0	36	0.2
243	Millwork and veneer [3]	233.0	4,866	23.7	229.4	4,823	23.2	209.9	4,487	21.4
2431	Millwork	90.9	1,977	9.7	90.5	1,961	9.5	84.9	1,836	9.0
2434	Wood kitchen cabinets	61.6	1,197	4.4	62.8	1,217	4.6	57.1	1,139	4.2
2435	Hardwood veneer and plywood	20.1	356	2.2	18.7	335	2.1	17.3	320	1.9
2436	Softwood veneer and plywood	36.5	888	5.3	35.6	881	5.0	31.7	810	4.6
2439	Structural wood members, n.e.c.	23.9	449	2.1	21.8	429	2.0	18.9	382	1.8
244	Wood containers	42.2	600	2.6	41.5	636	2.9	39.8	634	2.9
2441	Nailed and lock corner wood boxes	6.2	95	0.4	6.0	98	0.4	6.2	100	0.4
2448	Wood pallets and skids	29.1	395	1.8	28.3	417	1.9	27.1	413	2.0
2449	Wood containers, n.e.c	6.9	111	0.4	7.2	122	0.5	6.5	120	0.4
245	Wood buildings, mobile homes	62.8	1,211	6.4	61.4	1,217	6.5	54.1	1,106	6.0
2451	Mobile homes	39.9	769	4.1	38.8	769	4.2	35.1	714	3.9
2452	Prefabricated wood buildings and components	22.9	442	2.3	22.6	448	2.3	19.0	392	2.0
249	Miscellaneous wood products	91.0	1,643	9.2	96.4	1,745	9.6	90.9	1,706	9.5
2491	Wood preserving	12.1	223	2.4	13.0	246	2.6	11.7	233	2.6
2493	Reconstituted wood products	22.2	547	3.2	22.3	554	3.0	21.0	537	3.0
2499	Wood products, n.e.c	56.6	873	3.6	61.1	945	3.9	58.1	936	3.8
261	Pulp mills	15.2	603	6.4	16.1	668	6.2	16.8	697	5.3
262	Paper mills	130.1	4,927	35.4	130.1	5,062	35.3	130.3	5,224	33.3
263	Paperboard mills	52.1	1,958	16.3	53.1	2,049	15.9	50.6	2,027	15.0
265	Paperboard containers and boxes	202.3	5,144	30.5	200.3	5,245	30.5	198.6	5,392	30.6
2652	Setup paperboard boxes	8.7	141	0.5	8.8	146	0.6	8.7	150	0.6
2653	Corrugated and solid fiber boxes	111.1	2,928	18.9	110.1	2,984	18.6	108.7	3,047	18.0
2655	Fiber cans, tubes, drums, and similar products	13.3	329	1.8	13.3	341	1.9	12.9	341	1.9
2656	Sanitary food containers, except folding	17.2	383	2.5	17.5	392	2.5	17.6	411	2.7
2657	Folding paperboard boxes, including sanitary	51.8	1,364	6.7	50.7	1,382	7.0	50.7	1,443	7.4
267	Converted paper and paperboard products [4]	229.9	5,765	42.8	228.5	5,923	43.5	224.3	6,043	44.6
2671	Packaging paper and plastics film, coated and laminated	16.3	458	2.9	16.4	489	3.0	15.4	492	3.1
2672	Coated and laminated paper, n.e.c.	35.9	973	7.1	35.0	985	7.1	34.2	992	7.4
2673	Plastics, foil, and coated paper bags	39.0	882	5.6	37.4	870	5.5	35.4	875	5.1
2674	Uncoated paper and multiwall bags	17.0	358	2.8	16.9	374	2.8	17.9	398	2.7
2675	Die-cut paper and paperboard and cardboard	16.1	384	2.0	16.8	395	2.1	17.0	408	2.3
2676	Sanitary paper products	37.8	1,235	14.3	39.0	1,299	14.7	38.8	1,343	15.6
2677	Envelopes	27.3	645	2.8	26.1	648	2.8	24.5	616	2.7
2678	Stationery, tablets, and related products	10.5	203	1.3	10.1	203	1.3	10.1	209	1.4
2679	Converted paper and paperboard products, n.e.c	30.1	627	3.8	30.7	659	4.1	30.9	711	4.3

[1] Standard Industrial Classification code; see text, section 13. [2] Source: U.S. Bureau of the Census, *Annual Survey of Manufactures*. [3] Includes plywood and structural members. [4] Except containers and boxes.

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

No. 1152. Timber-Based Industries—Employment and Average Hourly Earnings: 1980 to 1992

[Data for production workers]

SIC [1] code	ITEM	EMPLOYEES (1,000)						EARNINGS (dollars)					
		1980	1985	1989	1990	1991	1992	1980	1985	1989	1990	1991	1992
24	Lumber and wood products [2]	587	593	628	605	556	563	6.57	8.25	8.84	9.08	9.24	9.43
241	Logging	71	67	72	70	64	76	8.64	10.92	11.13	11.22	11.08	11.24
242	Sawmills and planing mills	190	172	177	173	160	182	6.70	8.52	9.03	9.22	9.37	9.60
243	Millwork, plywood, and structural members	170	195	220	211	189	245	6.44	8.09	8.73	9.04	9.27	9.47
26	Paper and allied products	519	509	522	524	518	688	7.84	10.83	11.96	12.31	12.73	13.09
25	Furniture and fixtures	376	394	419	401	371	465	5.49	7.17	8.25	8.52	8.76	9.00

[1] 1987 Standard Industrial Classification; see text, section 27. [2] Includes other industries, not shown separately.

Source: U.S. Bureau of Labor Statistics, Bulletin 2370 Supplement to Employment and Earnings, July 1991, and

No. 1153. Timber Products—Production, Foreign Trade, and Consumption, by Type of Product: 1970 to 1988

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

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

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

No. 1154. Timber Products—Per Capita Consumption: 1970 to 1988

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

PRODUCT	Unit	1970	1975	1980	1982	1983	1984	1985	1986	1987	1988, prel.
All products	**Cu. ft**	**61.1**	**54.0**	**70.8**	**65.7**	**72.0**	**77.9**	**76.2**	**78.8**	**81.0**	**79.5**
Industrial roundwood	Cu. ft	58.5	51.4	57.2	51.3	58.2	62.6	61.8	65.9	68.0	65.9
Lumber	Cu. ft	29.1	25.8	28.3	24.9	29.5	31.9	32.2	35.0	36.3	34.2
Plywood and veneer	Cu. ft	5.7	5.9	5.5	5.2	6.2	6.3	6.5	6.7	7.2	6.9
Pulp products	Cu. ft	21.4	17.9	21.4	19.3	20.5	22.3	21.1	22.2	22.4	22.7
Other products	Cu. ft	2.1	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	2.1
Fuelwood	Cu. ft	2.6	2.6	13.6	14.4	13.8	15.3	14.4	12.9	12.9	13.6
Lumber	Bd. ft	193	171	188	161	190	205	207	224	233	221
Plywood and veneer	Bd. ft	34	32	30	28	34	34	35	37	39	37
Pulp products	Cords (128 cu. ft.)	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3

Source of tables 1153 and 1154: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-88,* annual.

No. 1155. Lumber Consumption, by Species Group and End Use: 1962 to 1986

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

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

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

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

No. 1156. Selected Timber Products—Producer Price Indexes: 1980 to 1992

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

PRODUCT	Unit	1980	1985	1989	1990	1991	1992
Lumber and wood products, except furniture	Dec. 1984=100	(NA)	100.3	115.3	117.0	119.4	129.6
Logging camps and logging contractors	Dec. 1981=100	(NA)	94.8	128.0	135.6	135.0	151.3
Sawmills and planing mills	Dec. 1984=100	(NA)	99.7	114.6	113.7	115.3	131.1
Millwork, veneer, and plywood [1]	Dec. 1984=100	(NA)	99.9	114.1	115.4	118.3	128.3
Softwood plywood	Dec. 1980=100	91.4	90.0	104.6	102.5	103.5	124.2
Wood containers	June 1985=100	(NA)	(NA)	109.7	113.9	115.8	123.4
Wood buildings and mobile homes	Dec. 1984=100	(NA)	100.6	112.1	115.5	118.9	121.4
Particleboard	Dec. 1982=100	92.1	110.0	127.8	117.1	117.0	121.0
Paper and allied products	Dec. 1984=100	(NA)	98.8	120.8	121.9	121.1	121.2
Pulp mills	Dec. 1982=100	105.5	100.9	161.3	153.8	121.8	119.3
Paper mill products; except building paper	June 1981=100	93.5	109.5	134.6	134.0	131.0	126.6
Paperboard mills	Dec. 1982=100	97.3	112.0	149.9	146.0	140.7	142.8
Converted paper and paperboard products [2]	June 1985=100	(NA)	(NA)	110.5	111.3	112.9	114.1
Paperboard containers and boxes	Dec. 1984=100	(NA)	98.4	117.2	117.7	116.6	118.6
Building paper and building board mills	Dec. 1985=100	(NA)	(NA)	114.4	(NA)	(NA)	(NA)

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

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

No. 1157. Selected Species—Stumpage Prices In Current and Constant (1982) Dollars: 1980 to 1991

[**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	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
CURRENT DOLLARS												
Softwoods:												
Douglas fir [1] [2]	432	350	118	162	133	126	161	190	256	390	466	395
Southern pine [2]	155	172	127	141	139	91	104	136	142	131	127	166
Sugar pine [3] [4]	667	225	72	138	84	110	170	288	260	289	285	(NA)
Ponderosa pine [3] [4]	206	195	67	104	123	101	157	209	182	292	252	238
Western hemlock [5]	213	163	45	62	62	51	75	105	163	223	203	164
Hardwoods:												
All eastern hardwoods [6]	52	51	56	60	90	65	70	88	151	136	146	160
Oak, white, red, and black [6]	66	63	71	88	145	95	108	147	146	179	188	164
Maple, sugar [7]	70	68	71	55	81	70	66	81	108	129	135	121
CONSTANT (1982) DOLLARS [8]												
Softwoods:												
Douglas fir [1] [2]	481	357	118	160	128	122	160	185	240	347	401	339
Southern pine [2]	173	176	127	139	134	88	103	132	133	117	109	143
Sugar pine [3] [4]	742	230	72	136	81	106	169	280	244	258	245	(NA)
Ponderosa pine [3] [4]	230	199	67	103	118	98	156	204	170	260	217	204
Western hemlock [5]	237	167	45	61	60	49	75	103	152	199	175	141
Hardwoods:												
All eastern hardwoods [6]	58	52	56	59	87	63	70	86	142	121	126	137
Oak, white, red, and black [6]	73	65	71	87	140	92	108	143	137	159	162	140
Maple, sugar [7]	78	69	71	54	78	68	66	78	101	115	116	104

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

Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-89*, annual, forthcoming.

No. 1158. Lumber Production and Consumption, by Kind of Wood: 1980 to 1991

[**In millions of board feet, except as indicated.** Based on sample survey; see source for sampling variability. See also *Historical Statistics, Colonial Times to 1970*, series L 98-112 and L 122-137]

ITEM	1980	1983	1984	1985	1986	1987	1988	1989	1990 [1]	1991 [1]
Total production	**35,354**	**34,572**	**37,065**	**38,445**	**41,999**	**44,886**	**44,576**	**43,576**	**43,466**	**40,031**
Softwoods [2]	26,239	26,927	30,801	30,479	34,815	37,410	36,845	36,040	36,224	33,250
Cedar	722	744	752	759	860	924	863	828	959	863
Douglas fir	6,853	6,434	7,809	7,751	9,600	10,422	9,986	10,045	8,831	7,816
Hemlock	1,855	1,316	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Ponderosa pine	3,269	2,869	3,679	3,773	3,967	4,125	3,940	3,914	3,645	3,304
Redwood	770	852	999	1,155	984	1,157	1,157	1,048	1,077	887
Southern yellow pine	8,217	10,181	10,648	10,230	11,443	12,043	12,474	12,031	12,989	12,436
White fir [3]	1,643	1,316	2,017	2,272	2,659	2,899	2,919	3,296	3,272	2,900
Hardwoods [2]	7,115	5,644	6,264	5,966	7,184	7,476	7,731	7,536	7,242	6,781
Ash	(S)	224	219	218	257	265	293	278	210	184
Beech	183	112	111	89	125	116	120	105	82	72
Cottonwood and aspen	303	197	133	216	247	235	234	217	167	154
Elm	149	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Maple [4]	225	524	538	532	587	636	619	589	543	517
Oak	3,356	2,163	2,786	2,793	3,410	3,804	3,790	3,546	2,615	2,434
Sweet gum [5]	371	278	300	293	375	330	356	306	219	167
Yellow poplar	661	475	569	544	724	805	828	802	666	629
Domestic consumption	**44,536**	**48,674**	**52,661**	**53,468**	**57,448**	**61,754**	**58,834**	**58,847**	**54,482**	**(NA)**
Percent net imports [6]	16.8	20.6	21.9	24.4	21.3	19.4	16.5	16.7	15.7	(NA)
Softwoods	33,812	39,611	42,832	44,240	47,492	50,558	48,513	47,975	45,003	(NA)
Mill stocks, yearend	4,228	4,606	4,594	4,765	4,905	4,840	4,999	4,888	4,854	(NA)
Exports	1,956	1,745	1,598	1,515	1,877	2,423	3,264	3,319	2,970	(NA)
Imports	9,540	11,977	13,270	14,808	14,238	14,680	13,806	13,638	12,148	(NA)
Hardwoods	10,724	9,063	9,829	9,228	9,956	11,196	10,321	10,872	9,480	(NA)
Mill stocks, yearend	1,572	1,334	1,561	1,719	1,636	(NA)	(NA)	(NA)	(NA)	(NA)
Exports	379	478	467	397	498	775	1,232	856	878	(NA)
Imports	293	261	328	364	347	511	390	375	255	(NA)

NA Not available. S Figure does not meet publication standards. [1] New sample, based on the new MA-24T sample. [2] Includes types not shown separately. [3] Beginning 1988, also includes hemfir, and other western true firs. [4] Includes both hard and soft maple, except data for 1980 excludes hard maple. [5] Includes black, tupelo, and sweet gum. [6] Imports minus exports.

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

No. 1159. Lumber Production, by Geographic Area: 1970 to 1991

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

SECTION AND DIVISION	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991
United States	**34.7**	**32.6**	[1]**35.4**	**34.6**	**37.1**	**36.4**	**42.0**	**44.9**	**44.7**	**43.6**	**43.5**	**40.0**
North [2 3]	4.4	4.1	(NA)	4.3	4.5	4.2	4.9	5.3	5.2	5.0	5.4	5.3
Hardwood	3.4	3.0	(NA)	3.0	3.3	3.0	3.6	3.8	3.9	3.8	3.7	3.5
Softwood	1.0	1.1	(NA)	1.3	1.2	1.2	1.4	1.5	1.4	1.3	1.7	1.7
South [2]	10.8	9.7	(NA)	12.7	13.4	13.0	15.1	15.7	16.3	15.8	16.5	15.6
Hardwood	3.6	2.7	(NA)	2.4	2.8	2.7	3.4	3.4	3.6	3.4	3.2	2.9
Softwood	7.2	7.0	(NA)	10.3	10.7	10.2	11.7	12.3	12.7	12.4	13.3	12.8
West [2]	19.4	18.8	17.2	17.6	19.1	19.3	22.0	23.9	23.2	22.7	21.6	19.1
Hardwood	0.1	0.1	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4
Softwood	19.3	18.6	16.9	17.4	19.0	19.1	21.7	23.6	22.9	22.4	21.2	18.7
New England	0.7	0.8	1.1	1.2	1.1	1.1	1.2	1.2	1.2	1.1	1.3	1.3
Middle Atlantic	0.8	0.7	0.9	0.8	0.8	0.7	0.9	0.9	0.9	0.9	1.0	1.0
East North Central	1.2	1.1	1.3	1.2	1.3	1.3	1.5	1.6	1.5	1.4	1.5	1.4
West North Central	0.6	0.5	0.6	0.4	0.4	0.6	0.7	0.6	0.8	0.8	0.6	0.6
South Atlantic	5.2	4.7	5.2	6.5	6.7	6.4	7.4	7.7	8.2	8.0	8.1	7.6
East South Central	3.4	3.0	3.2	3.8	4.2	4.1	5.0	5.3	5.4	5.2	5.3	5.3
West South Central	3.2	3.0	2.9	3.1	3.3	3.1	3.4	3.7	3.8	3.6	4.2	3.9
Mountain	4.2	3.9	3.8	3.8	4.4	4.3	4.8	(4)	(4)	(4)	(4)	(4)
Pacific	15.3	14.8	13.4	13.6	14.8	14.8	17.0	[5]23.9	[5]23.2	22.5	21.4	19.0

NA Not available. [1] Includes amounts not specified by division. [2] Source: U.S. Forest Service, *U.S. Timber Production, Trade, Consumption, and Price Statistics, 1960-89*, annual. Sections are as defined by the Forest Service. [3] Includes Kentucky. [4] Included with Pacific. [5] Includes Mountain.

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

No. 1160. Wood Products—Production: 1970 to 1990

ITEM	Unit	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990, prel.
Hardwood flooring	Mil. bd. ft	307	99	78	98	110	122	145	174	193	206	205
Softwood plywood	Bil. sq. ft., 3/8"	14.1	15.1	15.5	18.3	18.9	19.3	20.4	21.1	22.9	21.4	20.7
Insulation boards [1]	1,000 short tons	1,219	1,249	1,051	713	785	735	732	605	529	460	474
Hardboard [1]	Mil. sq. ft., 1/8"	4,340	5,681	6,140	7,303	6,837	6,300	5,822	5,458	5,118	5,196	5,025
Particleboard	Mil. sq. ft., 3/4"	1,731	2,503	2,950	3,009	3,196	3,331	3,603	3,706	3,829	3,858	3,806

[1] Beginning 1983, data are for shipments.

Source: U.S. Dept. of Commerce, International Trade Administration, *Forest Products Review*, monthly (discontinued April 1983); and unpublished data. Based on reports of U.S. Bureau of the Census, National Oak Flooring Manufacturers Association and National Particleboard Association.

No. 1161. Paper and Paperboard—Production and Consumption: 1970 to 1992

[In millions of short tons. See also *Historical Statistics, Colonial Times to 1970*, series L 172, L 174, and L 178-191]

ITEM	PRODUCTION						CONSUMPTION [1]					
	1970	1980	1985	1990	1991	1992	1970	1980	1985	1990	1991	1992
Total paper and paperboard	**51.7**	**63.6**	**68.7**	**80.3**	**81.1**	**83.7**	**56.0**	**67.2**	**76.1**	**86.7**	**84.9**	**87.3**
Paper: Newsprint	3.5	4.7	5.4	6.6	6.8	7.1	9.8	11.4	12.8	13.3	12.5	12.6
Coated printing, converting	3.2	4.6	5.9	7.5	7.4	7.6	3.2	4.6	6.3	8.3	7.8	8.1
Uncoated free sheet	5.1	8.0	9.7	11.5	11.5	11.9	5.1	8.0	10.0	12.0	11.9	12.2
Other printing, writing, etc	2.6	2.9	2.9	3.3	3.2	3.1	2.8	3.5	4.4	5.2	5.0	4.8
Packaging and industrial converting	5.3	5.5	5.2	4.6	4.5	4.7	5.1	5.2	5.2	4.7	4.6	4.8
Tissue and other machine creped	3.7	4.4	4.9	5.8	5.7	5.8	3.7	4.4	5.0	5.9	5.7	5.8
Paperboard: Unbleached kraft	11.5	15.3	16.4	20.4	21.0	21.7	9.9	13.0	14.6	17.8	17.8	18.5
Bleached kraft	3.3	3.8	3.9	4.4	4.6	4.5	3.2	3.3	3.4	3.7	3.8	5.9
Semichemical	3.5	4.7	5.1	5.7	5.7	5.9	3.4	4.4	5.0	5.7	5.6	3.7
Recycled finish	7.0	7.1	7.6	8.9	9.2	9.9	7.0	7.0	7.6	9.3	9.5	10.4
Construction paper and board [2]	**3.0**	**2.6**	**1.7**	**1.6**	**1.6**	**1.6**	**3.0**	**3.0**	**2.0**	**1.7**	**1.6**	**1.7**

[1] Total consumption of paper and paperboard includes net imports of paper and paperboard converted products; not available by grade. [2] Beginning 1985, estimated. Source: 1970-80, U.S. Bureau of the Census, *Current Industrial Reports*. Includes wet machine board, approximately 100,000-160,000 tons per year.

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

No. 1162. Newsprint—Production, Stocks, Consumption, Imports, and Price Index: 1970 to 1991

[In thousands of metric tons, except price index and imports (imports in short tons). See also *Historical Statistics, Colonial Times to 1970*, series L 192-198]

COUNTRY AND ITEM	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Canada: Production	7,808	6,966	8,625	8,988	9,289	9,669	9,840	9,640	9,068	8,977
Shipments from mills	7,795	7,010	8,622	8,996	9,302	9,757	9,740	9,607	9,074	8,756
Stocks at mills, end of year	236	96	165	280	277	189	288	321	315	536
United States:										
Estimated consumption [1]	8,805	8,395	10,088	11,507	11,873	12,303	12,244	12,241	12,127	(NA)
Production	3,142	3,348	4,239	4,924	5,107	5,300	5,427	5,523	5,997	6,206
Shipments from mills	3,136	3,347	4,234	4,927	5,115	5,310	5,415	5,515	6,007	6,154
Stocks, end of year: At mills	33	21	21	57	49	36	48	56	46	98
At and in transit to publishers	749	734	732	910	849	900	933	749	802	816
Imports [2]	6,635	5,847	7,280	8,472	8,589	8,976	8,592	8,765	7,672	6,986
Producer price index (1982=100)	34.1	58.3	[3]88.5	105.3	103.3	112.3	127.6	122.5	119.5	120.9

NA Not available. [1] By all users. Based on American Paper Institute data. [2] Source: Reports of U.S. Bureau of the Census. Includes Puerto Rico and beginning 1985, Virgin Islands. [3] Average for 11 months.

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

No. 1163. Recovered Paper Utilization and Recovery Rates: 1970 to 1992

[In millions of short tons, except percent. Recovery rate is ratio of total recovered paper to new supply. Recovered paper utilization is the ratio of recovered paper consumption at paper and board mills to paper and board production. See *Historical Statistics, Colonial Times to 1970*, series L 175, for U.S. wastepaper consumption]

ITEM	1970	1980	1985	1986	1987	1988	1989	1990	1991	1992
Paper and board, production [1]	51.7	63.6	68.7	72.5	75.9	78.1	78.4	80.3	81.1	83.7
Recovered paper consumption	11.8	14.9	16.4	17.9	18.7	19.7	20.2	21.7	23.7	26.2
Recovered paper utilization rate (percent)	22.8	23.5	23.8	24.7	24.6	25.2	25.8	27.1	29.2	31.3
Other recovered paper uses [2]	0.42	0.47	0.53	0.59	0.66	0.70	0.72	1.00	1.08	1.10
Recovered paper exports	0.41	2.64	3.56	4.09	4.81	5.95	6.31	6.51	6.60	6.40
Total paper recovered	12.6	17.9	20.4	22.5	24.0	26.2	27.1	29.1	31.2	33.6
Paper and board, new supply [3]	56.0	67.2	76.1	79.8	83.5	85.5	85.2	86.7	84.9	87.3
Recovery rate (percent)	22.4	26.7	26.8	28.2	28.8	30.6	31.8	33.6	36.8	38.5

[1] Excludes hard pressed board; includes construction paper and board, and wet machine board. [2] Estimated. [3] Excludes production of hard pressed board.

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

No. 1164. Selected Wood Products—Production and Consumption: 1970 to 1989

[See also *Historical Statistics, Colonial Times to 1970*, series L 151-170]

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989
PULPWOOD										
Receipts, total	Mil. cords [1]	68.9	65.4	81.0	88.0	85.4	90.6	93.9	95.1	97.0
Softwood	Mil. cords [1]	52.4	49.3	60.2	62.9	60.2	63.3	65.3	65.8	67.1
Hardwood	Mil. cords [1]	16.5	16.2	20.8	25.2	25.1	27.3	28.6	29.3	29.9
Consumption, total	Mil. cords [1]	67.6	65.4	79.7	87.0	84.8	91.1	92.4	95.3	96.1
Softwood	Mil. cords [1]	51.3	48.9	58.8	62.0	59.7	63.1	64.2	65.9	66.3
Hardwood	Mil. cords [1]	16.3	16.5	20.9	24.9	25.1	28.1	28.2	29.4	29.7
Inventories [2]	Mil. cords [1]	6.6	6.6	6.7	5.2	5.1	4.7	5.6	5.3	5.8
WOODPULP										
Production	Mil. short tons	43.9	43.1	53.0	57.8	57.7	60.6	62.4	64.1	64.6
Consumption, [3] total	Mil. short tons	43.2	42.4	52.4	57.5	56.6	60.0	61.2	62.8	62.7
Own pulp	Mil. short tons	38.9	38.5	46.6	50.3	49.7	52.6	53.8	54.9	54.9
Purchased pulp	Mil. short tons	4.3	3.9	5.9	7.2	7.0	7.5	7.4	7.9	7.8
PLYWOOD										
Softwood:										
Production	Mil. sq. ft. [4]	14,149	15,706	15,483	18,865	19,341	20,363	22,312	22,233	20,919
Consumption, total	Mil. sq. ft. [4]	(NA)	(NA)	15,145	18,526	19,122	19,880	21,503	22,277	20,904
Value	Mil. dol.	949	(NA)	2,582	2,995	3,080	3,237	3,483	3,513	3,734
Hardwood:										
Production	Mil. sq. ft. [5]	1,904	1,280	1,311	1,185	1,016	1,088	1,256	1,217	1,213
Consumption, total	Mil. sq. ft. [5]	5,772	4,970	3,416	3,831	4,311	4,884	4,918	4,193	(NA)
Value	Mil. dol.	516	586	977	1,199	1,192	1,320	1,471	1,405	1,392

NA Not available. [1] Standard cords. 128 cubic feet roughwood bases. [2] As of Dec. 31. [3] In the manufacture of paper and board. [4] 3/8-inch basis. [5] Surface measure.

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

No. 1165. Selected Timber Products—Imports and Exports: 1970 to 1991

ITEM	Unit	1970	1980	1984	1985	1986	1987	1988	1989	1990	1991, prel.
IMPORTS [1]											
Lumber, total [2]	Mil. bd. ft.	6,114	9,866	13,632	14,996	14,619	15,234	14,226	15,277	12,159	11,756
From Canada	Percent	96.0	97.5	97.9	97.6	97.5	96.9	97.5	91.3	98.5	98.3
Softwoods	Mil. bd. ft.	5,778	9,573	13,304	14,632	14,272	14,723	13,841	14,928	11,927	11,545
Value	Mil. dol.	434	1,826	2,681	2,898	2,969	3,060	2,939	2,875	2,534	2,507
Hardwoods	Mil. bd. ft.	337	293	328	364	347	511	386	349	232	210
Value	Mil. dol.	62	152	173	180	168	273	238	152	141	142
Logs, total	Mil. bd. ft. [3]	144	128	147	99	78	83	68	42	28	15
From Canada	Percent	79.6	97.4	97.4	81.8	77.9	91.6	91.9	61.5	67.5	74.5
Softwoods	Mil. bd. ft. [3]	107	114	117	71	52	69	56	24	18	9
Value	Mil. dol.	9	17	15	17	7	19	15	12	7	6
Hardwoods	Mil. bd. ft. [3]	38	13	30	28	26	14	12	18	10	6
Value	Mil. dol.	5	3	5	4	4	3	3	17	10	6
Paper and board [4]	1,000 tons	7,115	8,780	11,075	11,522	11,936	12,837	13,110	13,100	13,148	12,167
Value	Mil. dol.	1,039	3,418	5,324	5,698	6,036	6,928	8,002	8,330	8,427	7,929
Woodpulp	1,000 tons	3,518	4,051	4,490	4,466	4,594	4,848	4,938	5,105	4,893	4,997
Value	Mil. dol.	483	1,684	1,845	1,521	1,606	2,069	2,608	3,037	2,831	2,132
Plywood	Mil. sq. ft. [5]	2,049	1,235	1,538	1,817	2,002	2,083	1,698	1,955	1,687	1,457
Value	Mil. dol.	208	409	438	463	519	638	577	516	537	457
EXPORTS											
Lumber, total [2]	Mil. bd. ft.	1,243	2,494	2,150	1,945	2,427	3,217	4,527	4,243	3,802	3,997
To: Canada	Percent	21.7	25.3	25.8	23.7	22.0	20.9	17.6	15.6	18.1	15.1
Japan	Percent	30.8	26.0	28.0	32.1	36.4	36.8	34.5	38.1	33.5	30.5
Europe	Percent	24.1	23.8	16.0	15.1	16.6	16.9	20.5	16.6	19.1	19.6
Softwoods	Mil. bd. ft.	1,115	2,007	1,624	1,518	1,878	2,424	3,266	3,379	2,941	3,055
Value	Mil. dol.	163	789	541	497	644	856	1,143	1,404	1,336	1,358
Hardwoods	Mil. bd. ft.	128	487	527	427	548	793	1,261	863	861	942
Value	Mil. dol.	31	272	300	263	350	493	683	659	818	879
Logs, total	Mil. bd. ft. [3]	2,741	3,261	3,495	3,843	3,627	4,110	4,798	4,745	4,262	3,816
To: Canada	Percent	10.6	9.7	12.1	11.6	12.2	10.3	7.9	5.8	9.3	11.2
Japan	Percent	86.3	78.0	50.4	49.4	57.3	58.3	50.3	63.5	62.5	56.7
China: Mainland	Percent	(NA)	2.7	24.8	27.8	17.0	14.1	23.4	9.6	8.5	9.7
Softwoods	Mil. bd. ft. [3]	2,672	3,109	3,369	3,732	3,488	3,960	4,594	4,532	4,044	3,532
Value	Mil. dol.	320	1,452	1,079	1,169	1,129	1,526	2,090	2,176	2,170	1,870
Hardwoods	Mil. bd. ft. [3]	69	152	126	111	139	149	204	214	218	283
Value	Mil. dol.	36	129	101	91	97	118	160	223	251	234
Paper and board [4]	1,000 tons	2,817	5,214	4,387	4,071	4,687	5,304	5,691	6,300	6,796	6,331
Value	Mil. dol.	602	2,773	2,552	2,266	2,540	3,104	3,753	4,261	5,035	6,006
Woodpulp	1,000 tons	3,095	3,806	3,594	3,796	4,459	4,869	5,528	6,231	5,906	6,337
Value	Mil. dol.	464	1,652	1,502	1,354	1,663	2,251	2,915	3,513	3,156	2,800
Plywood	Mil. sq. ft. [5]	172	413	402	358	647	846	1,093	1,562	1,767	1,552
Value	Mil. dol.	16	108	94	86	145	194	247	292	338	295

NA Not available. [1] Customs value of imports; see text, section 29. [2] Includes railroad ties. [3] Log scale. [4] Includes paper and board products. Excludes hardboard. [5] 3/8-inch basis.

Source: U.S. Forest Service, *U.S. Timber Production*,

No. 1166. Fishery Products—Domestic Catch and Imports, Summary: 1970 to 1991

[**Live weight, in millions of pounds, except percent.** 1979-1991 preliminary. For data on commercial catch for selected countries, see table 1478, section 31. See *Historical Statistics, Colonial Times to 1970,* series L 224-226, for domestic cat

ITEM	1970	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	11,474	11,357	12,011	12,352	12,552	15,150	14,368	15,744	14,628	15,485	16,349	16,364
For human food	6,213	8,006	7,968	8,413	8,498	9,337	9,620	10,561	10,505	12,268	12,662	13,020
Finfish	(NA)	6,139	6,090	6,358	6,303	6,991	7,087	7,919	7,786	9,735	10,120	10,186
Shellfish [1]	(NA)	1,867	1,878	2,055	2,195	2,346	2,533	2,642	2,719	2,533	2,542	2,834
For industrial use	5,261	3,351	4,043	3,939	4,054	5,813	4,748	5,183	4,123	3,217	3,687	3,344
Domestic catch	4,917	6,482	6,367	6,439	6,438	6,258	6,031	6,896	7,192	8,463	9,404	9,404
Percent of total	42.8	57.1	53.0	52.1	51.3	41.3	42.0	43.8	49.2	54.7	57.5	58.0
For human food	2,537	3,654	3,285	3,238	3,320	3,294	3,393	3,946	4,588	6,204	7,041	7,031
Finfish	(NA)	2,516	2,324	2,351	2,348	2,273	2,240	2,769	3,306	4,697	5,747	5,564
Shellfish [1]	(NA)	1,138	961	887	972	1,021	1,153	1,177	1,282	1,307	1,294	1,467
For industrial use	2,380	2,828	3,082	3,201	3,118	2,964	2,638	2,950	2,604	2,259	2,363	2,453
Imports [2]	6,557	4,875	5,644	5,913	6,114	8,892	8,337	8,848	7,436	7,022	6,945	6,879
Percent of total	57.2	42.9	47.0	47.9	48.7	58.7	58.0	56.2	50.8	45.3	42.5	42.0
For human food	3,676	4,352	4,683	5,175	5,178	6,043	6,227	6,615	5,917	6,064	5,621	5,989
Finfish	(NA)	3,623	3,766	4,007	3,955	4,718	4,847	5,150	4,480	4,838	4,373	4,622
Shellfish [1]	(NA)	729	917	1,168	1,223	1,325	1,380	1,465	1,437	1,226	1,248	1,367
For industrial use [3]	2,881	523	961	738	936	2,849	2,110	2,233	1,519	958	1,324	890

NA Not available. [1] For univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.), the weight of meats, excluding the shell, is reported. [2] Excludes imports of edible fishery products consumed in Puerto Rico; includes landings of tuna caught by foreign vessels in American Samoa. [3] Fish meal and sea herring.

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

No. 1167. Fisheries—Employment, Fishing Craft, and Establishments: 1970 to 1990

[**In thousands.** As of **Dec. 31.** 1979-89 preliminary. Data for employment and establishments exclude Alaska. See also *Historical Statistics, Colonial Times to 1970,* series L 254-261]

ITEM	1970	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989 [1]	1990 [1]
Persons employed in U.S.	227	296	303	314	333	340	351	347	359	364	(NA)	(NA)
Fishermen	140	193	198	216	223	230	239	247	256	274	(NA)	(NA)
Shore workers [2]	87	103	105	98	110	110	112	100	103	90	73	72
Craft used	88	113	115	123	127	127	130	128	[3]93	[3]110	111	95
Vessels, 5 net tons and over	14	19	20	20	21	24	24	38	[3]23	[3]32	36	32
Motorboats	72	93	93	102	105	102	104	88	[3]68	[3]78	75	63
Other boats	2	1	2	1	1	1	2	2	[3]2	(NA)	(NA)	(NA)
Fishery shore establishments.	3.7	3.6	3.6	3.6	3.9	4.0	4.0	4.0	4.2	4.6	4.5	(NA)

NA Not available. [1] Estimated and excludes Mississippi River. Maryland and Virginia represent only Federal collected data. [2] Seasonal average for processors and wholesaling plants. [3] Excludes Maryland and Virginia.

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

No. 1168. Fisheries—Quantity and Value of Domestic Catch: 1960 to 1991

[1979-1991 preliminary. See also *Historical Statistics, Colonial Times to 1970,* series L 224-226, L 229, and L 310]

YEAR	QUANTITY (mil. lb. [1])			Value (mil. dol.)	Average price per lb. (cents)	YEAR	QUANTITY (mil. lb. [1])			Value (mil. dol.)	Average price per lb. (cents)
	Total	For human food	For industrial products [2]				Total	For human food	For industrial products [2]		
1960	4,942	2,498	2,444	354	7.2	1981	5,977	3,547	2,430	2,388	40.0
1965	4,777	2,587	2,190	446	9.3	1982	6,367	3,285	3,082	2,390	37.5
1970	4,917	2,537	2,380	613	12.5	1983	6,439	3,238	3,201	2,355	36.6
1972	4,806	2,435	2,371	748	15.6	1984	6,438	3,320	3,118	2,350	36.5
1973	4,858	2,398	2,460	937	19.3	1985	6,258	3,294	2,964	2,326	37.2
1974	4,967	2,496	2,471	932	18.7	1986	6,031	3,393	2,638	2,763	45.8
1975	4,877	2,465	2,412	977	20.0	1987	6,896	3,946	2,950	3,115	45.2
1976	5,388	2,775	2,613	1,349	25.0	1988	7,192	4,588	2,604	3,520	48.9
1977	5,271	2,952	2,319	1,554	29.5	1989	8,463	6,204	2,259	3,238	38.3
1978	6,028	3,177	2,851	1,854	30.7	1990	9,404	7,041	2,363	3,522	37.5
1979	6,267	3,318	2,949	2,234	35.6	1991	9,484	7,031	2,453	3,308	34.9
1980	6,482	3,654	2,828	2,237	34.5						

[1] Live weight. [2] Meal, oil, fish solubles, homogenized condensed fish, shell products, bait, and animal food.

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

No. 1169. Fisheries—Quantity and Value of Catch, by State, and Catch of Principal Species, by Area: 1980 to 1991

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

AREA, STATE, CATCH, AND VALUE	1980	1985	1990	1991
Total:				
Catch	6,482	6,258	9,403	9,484
Value	2,237	2,326	3,522	3,308
New England:				
Catch	788	590	649	646
Value	327	419	543	594
Maine:				
Catch	245	175	169	192
Value	93	101	130	155
New Hampshire:				
Catch	19	8	11	11
Value	5	5	10	13
Massachusetts:				
Catch	438	296	328	289
Value	178	232	303	296
Rhode Island:				
Catch	81	104	132	139
Value	46	70	73	85
Connecticut:				
Catch	5	7	9	15
Value	5	12	27	45
Catch for certain species:				
Clams	15	22	15	12
Cod	118	83	95	92
Crabs	7	8	9	9
Flounder	118	98	60	50
Haddock	55	14	5	4
Herring, sea	184	52	113	106
Lobster, American	36	44	55	56
Ocean perch, Atlantic	24	10	1	1
Pollock	40	43	21	17
Scallops, sea	17	10	25	24
Squid	6	15	36	42
Whiting	18	31	28	26
Middle Atlantic:				
Catch	244	151	207	234
Value	97	101	150	154
New York:				
Catch	39	39	49	51
Value	45	38	56	53
New Jersey:				
Catch	201	108	149	175
Value	50	61	89	97
Delaware:				
Catch	4	5	9	8
Value	2	2	4	4
Catch for certain species:				
Clams (meats)	40	73	93	97
Scup or porgy	8	2	4	7
Squid	3	6	6	26
Chesapeake Bay:				
Catch	717	815	867	770
Value	130	124	160	142
Maryland:				
Catch	80	92	81	89
Value	45	47	54	47
Virginia:				
Catch	637	723	787	681
Value	85	76	107	95
Catch for certain species:				
Crabs	65	91	91	98
Clams	36	47	27	21
Scallops, sea	6	3	9	9
Flounder	10	6	2	4
Oysters	21	8	4	3
South Atlantic:				
Catch	473	311	262	293
Value	148	156	170	169
North Carolina:				
Catch	356	215	176	213
Value	69	65	72	67
South Carolina:				
Catch	21	13	14	19
Value	20	14	24	28
Georgia:				
Catch	19	17	13	16
Value	20	21	20	24
Florida (east coast):				
Catch	77	66	58	45
Value	39	57	54	50
Catch for certain species:				
Menhaden	218	105	74	113
Shrimp	33	28	28	37
Crabs	55	48	54	57
Scallops	1	13	2	1
Gulf States:				
Catch	1,979	2,412	1,625	1,679
Value	463	597	640	641
Florida (west coast):				
Catch	115	117	122	117
Value	86	114	116	112
Alabama:				
Catch	25	30	23	22
Value	25	41	36	37
Mississippi:				
Catch	334	471	320	239
Value	25	40	42	34
Louisiana:				
Catch	1,412	1,693	1,081	1,193
Value	174	225	263	244
Texas:				
Catch	94	103	99	108
Value	153	177	182	214
Catch for certain species:				
Crabs	45	53	51	65
Mullet	31	17	24	25
Oysters (meats)	17	25	11	13
Shrimp	208	263	247	229
Great Lakes: [1]				
Catch	44	54	45	39
Value	14	15	20	21
Mississippi River and tributaries:				
Catch	85	92	(NA)	(NA)
Value	21	29	(NA)	(NA)
Pacific Coast:				
Catch	2,140	1,816	5,722	5,795
Value	1,025	863	1,775	1,529
Washington:				
Catch	156	167	137	152
Value	86	93	118	110
Oregon:				
Catch	126	101	139	150
Value	56	46	70	63
California:				
Catch	804	363	347	348
Value	323	133	127	140
Alaska:				
Catch	1,054	1,185	5,099	5,145
Value	560	591	1,459	1,216
Catch for certain species:				
Anchovies	107	15	13	19
Bonito	14	5	8	1
Cod	20	120	526	554
Crabs	347	129	281	(NA)
Flounder	60	68	182	330
Hake	12	16	21	56
Halibut	19	61	70	66
Herring, sea	107	142	108	123
Jack mackerel	44	21	9	4
Mackerel	65	75	84	63
Oysters	7	8	11	(NA)
Pollock	3	93	3,108	2,855
Rockfish	106	82	132	97
Sablefish	22	63	90	84
Salmon	614	727	733	733
Shrimp	98	35	59	47
Tuna	387	64	34	13
Hawaii:				
Catch	11	17	26	28
Tuna catch	7	11	14	9
Value	12	22	65	58

NA Not available. [1] Collected largely by State fishery agencies and compiled by State fishery agencies and National Marine Fisheries Service. Includes, in addition to the Great Lakes, small amounts for Lake St. Clair, Lake of the Woods, Namakan Lake, and Rainy Lake.

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

No. 1170. Domestic Fisheries—Catch by Selected Ports: 1985 to 1991

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

PORT	CATCH (mil. lb.)					VALUE (mil. dol.)				
	1985	1988	1989	1990	1991	1985	1988	1989	1990	1991
New Bedford, MA	90.6	90.3	90.4	114.8	106.4	103.2	140.9	141.0	160.4	157.7
Dutch Harbor-Unalaska, AK	106.3	377.3	504.3	509.9	731.7	21.3	100.9	107.0	126.2	130.6
Kodiak, AK	96.1	304.6	213.2	272.5	287.3	65.8	[1]166.3	100.2	101.7	96.9
Dulac-Chauvin, LA	396.6	244.1	210.9	164.4	166.3	59.9	56.5	50.0	52.7	48.8
Empire-Venice, LA	224.5	297.2	272.7	244.2	308.6	34.3	67.7	49.2	46.3	43.5
Gloucester, MA	116.5	107.4	98.5	126.2	107.2	37.1	30.8	30.0	40.5	40.0
Petersburg, AK	(NA)	50.4	113.5	67.5	90.3	(NA)	58.5	61.4	39.4	34.6
Cordova, AK	(NA)	42.5	55.3	70.8	47.5	(NA)	46.4	35.3	36.8	19.5
Cape May-Wildwood, NJ	30.3	47.9	54.0	69.2	93.1	18.1	28.4	30.8	34.4	40.1
Point Judith, RI	56.8	49.6	48.3	58.7	64.7	28.0	25.4	23.6	32.2	37.5
Portland, ME	36.1	43.9	49.0	48.9	63.4	17.2	30.4	34.4	31.7	44.1
Ketchiken, AK	(NA)	28.3	91.6	52.6	68.5	(NA)	43.5	45.6	28.3	21.9
Beaufort-Morehead City, NC	133.2	110.0	95.0	102.0	137.0	22.7	27.0	25.0	23.0	23.0
Cameron, LA	673.6	438.9	352.7	232.6	288.4	29.9	33.2	20.5	20.6	20.3
Morgan City-Berwick, LA	7.7	43.3	68.1	146.5	112.3	(NA)	16.7	17.8	19.7	(NA)
Pascagoula-Moss Point, MS	423.2	292.0	282.1	303.9	227.3	18.4	28.2	16.9	18.8	15.1
Los Angeles, CA	150.3	232.0	177.6	133.8	115.7	32.5	34.0	20.3	17.6	15.0
Astoria, OR	25.5	44.2	51.0	41.2	53.0	9.5	24.3	20.0	16.2	17.0
Port Hueneme-Oxnard-Ventura, CA	19.9	55.0	65.3	39.4	44.0	5.4	10.0	12.0	12.5	13.2
Intercoastal City, LA	(NA)	209.7	207.2	173.0	211.4	(NA)	14.7	9.5	(NA)	(NA)

NA Not available. [1] Record.

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

No. 1171. Domestic Fish and Shellfish Catch and Value, by Species: 1985 to 1991

SPECIES	QUANTITY (1,000 lb.)				VALUE ($1,000)		
	1986-90 5-year average	1985	1990	1991	1985	1990	1991
Total	(X)	**6,257,642**	**9,403,571**	**9,484,194**	**2,326,237**	**3,521,995**	**3,308,272**
Fish, total [1]	(X)	**5,214,363**	**8,091,068**	**7,993,274**	**1,193,427**	**1,900,097**	**1,679,911**
Anchovies	13,059	14,566	13,189	19,245	2,704	2,723	6,813
Bluefish	14,056	13,743	13,802	13,232	2,363	3,239	2,731
Butterfish	7,844	10,338	6,532	6,181	3,537	3,334	3,171
Cod: Atlantic	74,122	82,823	95,881	92,636	35,140	61,329	74,093
Pacific	288,158	120,275	526,396	553,716	18,556	91,384	122,934
Croaker	9,807	11,088	6,720	4,761	3,658	3,390	2,146
Flounder	210,878	195,718	254,519	404,955	129,121	112,921	144,789
Haddock	6,664	14,416	5,440	4,053	13,545	5,967	4,581
Halibut	76,206	61,032	70,454	66,339	38,376	96,700	99,532
Herring, sea; Atlantic	91,413	57,133	113,095	107,067	2,968	5,746	6,339
Herring, sea; Pacific	122,452	142,074	108,120	123,141	47,025	32,178	30,832
Jack mackerel	22,054	20,852	8,959	3,618	1,770	535	24,433
Mackerel, Pacific	90,386	75,453	83,721	63,336	6,324	5,081	4,872
Menhaden	2,228,120	2,739,401	1,962,160	1,977,060	100,680	93,896	77,694
Mullet	28,912	21,205	28,554	12,717	5,720	12,738	10,569
Ocean perch, Atlantic	3,168	9,666	1,322	1,176	3,179	703	543
Ocean perch, Pacific	26,158	9,034	60,972	29,994	1,757	8,494	6,445
Pollock, Atlantic	35,491	43,477	21,042	17,344	6,978	10,516	9,901
Pollock, Alaska	1,481,948	92,833	3,108,031	2,855,316	5,409	268,344	241,551
Rockfish	119,821	82,109	131,545	97,466	23,107	38,504	109,934
Sablefish	96,494	63,380	89,802	83,610	28,692	58,865	78,166
Salmon	669,140	726,946	733,146	783,285	439,795	612,367	359,720
Scup or porgy	13,174	15,996	11,452	16,145	9,338	8,677	9,127
Sea trout, gray	16,626	16,400	9,880	8,668	7,330	5,777	4,854
Shark, Dogfish	16,790	11,563	35,793	34,376	842	3,801	3,444
Snapper, red	3,887	5,181	3,101	2,358	10,661	8,411	5,681
Swordfish	11,563	12,258	13,797	17,963	33,191	40,851	50,155
Tuna	90,205	83,054	62,393	35,695	52,515	105,040	75,053
Whiting	38,804	44,545	44,500	36,533	8,274	11,281	11,219
Shellfish, total [1]	(X)	**1,043,279**	**1,312,503**	**1,490,920**	**1,132,810**	**1,621,898**	**1,628,361**
Clams	137,771	150,551	139,198	134,243	128,349	130,194	125,266
Crabs	431,090	337,632	499,416	649,993	203,044	483,837	414,835
Lobsters: American	50,839	46,152	61,017	63,337	114,895	154,677	165,026
Oysters	34,272	44,173	29,193	31,859	70,053	93,718	97,996
Scallops: Calico	5,871	12,513	1,135	286	12,524	1,281	858
Sea	31,252	15,829	39,917	39,302	74,562	153,696	158,932
Shrimp	358,442	333,691	346,494	320,087	472,850	491,433	512,848
Squid: Atlantic	49,081	7,157	59,809	70,929	7,256	21,178	30,346
Pacific	52,489	22,276	36,082	68,640	4,047	2,636	5,288

X Not applicable. [1] Includes other types of fish and shellfish, not shown separately.

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

No. 1172. Disposition of U.S. Domestic Catch: 1970 to 1991

[**Live weight catch in millions of pounds.** 1980-90 preliminary. In addition to whole fish, a large portion of waste (400-500 million lb.) derived from canning, filleting, and dressing fish and shellfish utilized in production of fish meal and oil in each year shown. See *Historical Statistics, Colonial Times to 1970,* series L 305-310, for similar but not entirely comparable data]

DISPOSITION	1970	1975	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total	**4,917**	**4,877**	**6,482**	**6,439**	**6,438**	**6,258**	**6,031**	**6,696**	**7,192**	**8,463**	**9,404**	**9,484**
Fresh and frozen	1,595	1,744	2,621	2,304	2,336	2,242	2,487	3,157	3,813	5,585	6,501	6,541
Canned	1,150	907	1,161	1,087	1,128	1,232	1,134	1,009	1,017	798	751	674
Cured	71	55	96	80	82	70	60	89	86	128	126	119
Reduced to meal, oil, etc.	2,101	2,171	2,604	2,968	2,892	2,714	2,350	2,641	2,276	1,952	2,026	2,150

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

No. 1173. Joint Venture Catches in the U.S. Exclusive Economic Zone (EEZ), by Species: 1985 to 1990

[**Joint venture**—An operation authorized under the Magnuson Fishery Conservation and Management Act (MFCMA) in which a permitted foreign vessel receives fish in the U.S. Exclusive Economic Zone (EEZ) from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest]

SPECIES	QUANTITY (1,000 lb.)				VALUE ($1,000)			
	1985	1988	1989	1990	1985	1988	1989	1990
Total	**2,008,889**	**3,201,487**	**1,700,293**	**800,565**	**104,320**	**221,090**	**112,165**	**51,341**
Atka mackerel	88,047	43,253	-	-	6,109	3,571	-	-
Cod	80,189	245,871	97,937	17,809	7,799	30,429	12,495	1,763
Flounder	396,084	727,778	426,436	219,547	24,833	53,763	34,179	23,527
Hake, Pacific	(D)	299,343	448,808	376,927	(D)	14,660	21,628	18,429
Ocean perch	619	-	-	-	56	-	-	-
Mackerel, Atlantic	8,350	12,533	(Z)	(D)	584	760	(Z)	(D)
Pollock, Alaska	1,354,368	1,822,242	634,385	49,376	59,730	116,102	40,378	2,139
Rockfish	154	4,636	-	-	14	705	-	-
Sablefish	207	112	-	-	30	14	-	-
Squid	7,987	(D)	-	-	1,194	(D)	-	-
Other	72,884	45,719	92,727	136,906	3,971	1,086	3,485	5,483

- Represents zero. D Figure withheld to avoid disclosure. Z Less than $500.

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

No. 1174. U.S. Catch and Value of Fish and Shellfish, by Distance Caught Off U.S. Shores—Selected Species: 1991

[Preliminary. **Catch** is shown in **live weight,** except as indicated. Includes landings by U.S. flag vessels at Puerto Rico and other ports outside the 50 States and joint venture catches, therefore will not agree with other tables; see table 1173]

SPECIES	Total U.S. catch (mil. lb.)	BY DISTANCE FROM U.S. SHORES						Value of U.S. catch [1] (mil. dol.)
		Catch (mil. lb.)			Percent of U.S. catch			
		3 miles or less [1]	3 to 200 miles	International waters [2]	3 miles or less [1]	3 to 200 miles	International waters [2]	
Total	**10,141**	**3,857**	**5,781**	**503**	**38**	**57**	**5**	**3,522**
Fish [3]	**8,645**	**3,151**	**4,991**	**503**	**36**	**58**	**6**	**1,883**
Cod	646	40	606	(Z)	6	94	(Z)	196
Flounder	405	22	383	(Z)	5	95	(Z)	145
Halibut	66	18	48	-	27	73	-	100
Herring, sea	257	187	70	-	73	27	-	40
Mackerel	112	63	49	-	56	44	-	19
Menhaden	2,091	1,739	352	-	83	17	-	80
Pollock	2,873	40	2,833	-	1	99	-	251
Salmon, Pacific	783	775	8	-	99	1	-	360
Tuna	520	1	22	497	(Z)	4	96	274
Shellfish [3]	**1,496**	**706**	**790**	**-**	**47**	**53**	**-**	**1,639**
Clams (meats)	134	39	95	-	29	71	-	125
Crabs	650	255	395	-	39	61	-	415
Lobsters	70	56	14	-	80	20	-	197
Scallops (meats)	40	2	38	-	5	95	-	162
Shrimp	320	149	171	-	47	53	-	513
Squid	140	75	65	(Z)	54	46	(Z)	36

- Represents or rounds to zero. Z Less than 500,000 pounds or .05 percent. [1] Includes all landings in Great Lakes and other inland waters. [2] Greater than 200 nautical miles seaward from the U.S. shores except for two States. The boundaries for the Gulf Coast of Florida and Texas are 9 nautical miles. [3] Includes other species, not shown separately.

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

No. 1175. U.S. Private Aquaculture—Production and Value: 1980 to 1987

[Production is shown in live weight, except as indicated. Aquaculture is the commercial growing of fish or other aquatic life in a controlled environment]

SPECIES	PRODUCTION (1,000 lbs.)					VALUE ($1,000)				
	1980	1984	1985	1986	1987	1980	1984	1985	1986	1987
Total	**203,178**	**455,733**	**535,764**	**619,959**	**721,089**	**191,977**	**398,168**	**422,736**	**496,329**	**613,653**
Baitfish [1]	22,046	23,598	24,807	25,247	26,000	44,000	47,045	51,280	51,522	71,500
Catfish	76,842	239,800	271,357	320,979	372,000	53,572	191,840	189,194	228,886	277,000
Clams [2]	561	1,698	1,588	2,506	2,215	2,295	4,178	4,717	6,307	9,243
Crawfish	23,917	59,400	64,999	97,500	95,000	12,951	29,700	32,500	48,750	35,525
Freshwater prawns	300	317	267	178	200	1,200	1,698	1,540	893	1,250
Mussels [2]	(NA)	917	928	1,206	1,077	(NA)	1,584	1,248	1,725	1,746
Oysters [2]	23,755	24,549	22,473	24,090	24,315	37,085	38,970	39,977	42,797	43,756
Pacific salmon	7,616	45,086	84,305	74,398	124,308	3,400	17,252	25,439	32,751	55,906
Shrimp	-	528	440	1,354	2,655	-	1,566	1,687	3,408	7,206
Trout	48,141	49,940	50,600	51,000	56,247	37,474	54,435	55,154	55,590	57,336
Other species	(NA)	9,900	14,000	15,500	[3]17,072	(NA)	9,900	20,000	21,700	[3]53,285

- Represents or rounds to zero. NA Not available. [1] Not used for food consumption. [2] Production is shown in meat weight. [3] Includes tropical fish or ornamentals; production of 22,000 pounds and value of $21 million.

Source: U.S. Dept. of Agriculture, Office of Aquaculture, *Agricultural Outlook,* June 1989.

No. 1176. Supply of Selected Fishery Items: 1980 to 1991

[In millions of pounds. Totals available for U.S. consumption are supply minus exports plus imports. Round weight is the complete or full weight as caught. Data are preliminary]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991
Tuna, canned	Canned weight	666	713	777	759	873	866	843	1,034	865	945
Shrimp	Heads-off weight	425	541	584	633	706	773	767	743	734	744
Clams	Meat weight	102	126	144	164	162	151	145	150	152	144
Salmon, canned	Canned weight	126	127	150	113	87	76	59	159	148	131
American lobster	Round weight	69	93	100	108	113	115	121	94	111	128
Spiny lobster	Round weight	127	137	153	154	152	151	139	106	95	88
Scallops	Meat weight	51	67	87	72	70	81	75	81	81	70
Sardines, canned	Canned weight	69	46	58	76	68	77	63	61	61	52
Oysters	Meat weight	71	81	84	90	91	92	78	67	57	48
Crab meat, canned	Canned weight	9	8	7	8	9	8	8	8	9	11
Snow crab	Round weight	54	30	23	45	49	29	31	(NA)	(NA)	205
King crab	Round weight	133	23	13	11	19	14	10	(NA)	(NA)	13

NA Not available.

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

No. 1177. Canned, Fresh, and Frozen Fishery Products: 1980 to 1991

[Fresh fishery products exclude Alaska and Hawaii. Canned fishery products data are for natural pack only. See also *Historical Statistics, Colonial Times to 1970,* series L 338-357 (production data in cases) and L 358]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1985	1988	1989	1990	1991 [1]	1980	1985	1988	1989	1990	1991 [1]
Canned, [2]	**1,516**	**1,161**	**1,131**	**1,455**	**1,178**	**1,386**	**1,928**	**1,360**	**1,481**	**1,992**	**1,562**	**1,644**
Tuna	602	545	598	686	581	593	1,144	821	960	1,058	902	877
Salmon	200	159	88	197	196	196	376	228	219	514	366	413
Clam products	77	117	127	135	110	129	66	109	98	91	76	84
Mackerel [3]	38	15	18	18	23	9	12	7	9	7	11	3
Sardines, Maine	20	20	19	13	13	14	32	38	24	17	17	19
Shrimp	16	4	4	3	1	1	80	19	25	9	3	4
Crabs	5	1	(Z)	1	1	(Z)	19	2	2	3	4	(Z)
Oysters [4]	(Z)	2	3	4	1	1	(Z)	2	2	1	1	2
Fish fillets and steaks [5]	**202**	**246**	**378**	**371**	**441**	**402**	**261**	**440**	**767**	**724**	**843**	**823**
Cod	31	57	62	73	65	72	43	89	137	136	132	179
Flounder	49	69	53	44	54	42	87	157	163	142	154	130
Haddock	17	8	8	7	7	7	29	19	30	26	24	26
Ocean perch, Atlantic	7	2	2	2	1	1	9	3	5	3	1	1
Rockfish	14	18	36	25	33	16	13	25	57	40	53	25
Pollock, Atlantic	9	15	14	11	12	7	9	17	21	18	21	18
Pollock, Alaska	(NA)	11	110	106	164	161	(NA)	24	110	98	174	209
Other	74	66	93	103	105	96	71	106	244	279	284	235

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

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

No. 1178. Processed Fishery Products—Production and Value: 1980 to 1991

[Includes Puerto Rico and American Samoa. See *Historical Statistics, Colonial Times to 1970*, series L 362-365, for meal, scrap, and oil]

PRODUCT	PRODUCTION (mil. lb.)						VALUE (mil. dol.)					
	1980	1985	1988	1989	1990 [1]	1991 [1]	1980	1985	1988	1989	1990 [1]	1991 [1]
Total [2]	(X)	(X)	(X)	(X)	(X)	(X)	**4,456**	**4,936**	**5,369**	(X)	(X)	(X)
Fresh and frozen [3]	(X)	(X)	(X)	(X)	(X)	(X)	2,110	3,242	3,562	(X)	(X)	(X)
Fillets	197	232	362	345	414	388	247	408	707	656	764	773
Steaks	5	13	22	26	26	14	14	32	70	86	80	49
Fish sticks	88	96	80	89	65	63	89	111	114	116	75	78
Fish portions	344	330	301	280	294	184	388	368	439	400	414	277
Breaded shrimp	83	95	99	121	114	116	254	355	293	404	371	335
Canned products [4]	1,516	1,161	1,130	1,455	1,178	1,386	1,928	1,360	1,481	1,992	1,562	1,644
Fish and shellfish	1,009	913	907	1,110	957	981	1,782	1,269	1,388	1,754	1,415	1,439
Animal food	507	248	223	345	221	405	146	91	93	238	147	205
Industrial products	(X)	(X)	(X)	(X)	(X)	(X)	270	182	236	206	207	208
Meal and scrap	724	722	644	618	577	613	134	84	131	115	121	126
Oil (body & liver)	312	285	225	225	282	267	58	42	44	24	29	30
Solubles	267	323	223	233	186	170	14	19	15	18	14	12
Other	(X)	(X)	(X)	(X)	(X)	(X)	64	37	47	50	43	38

X Not applicable. [1] Preliminary. [2] Includes cured fish. [3] Includes items not shown (dressed fish, shellfish not breaded, specialties). [4] Includes salmon eggs for bait.

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

No. 1179. Imports and Exports: 1970 to 1991

[Imports include landings of tuna by foreign vessels at American Samoa. See also *Historical Statistics, Colonial Times to 1970*, series L 227-235]

YEAR	IMPORTS					EXPORTS				
	Total U.S. value (mil. dol.)	Fishery products				Total U.S. value (mil. dol.)	Fishery products			
		Total value (mil. dol.)	Edible products		Nonedible, value (mil. dol.)		Total value (mil. dol.)	Edible products		Nonedible, value (mil. dol.)
			Quantity (mil. lb.)	Value (mil. dol.)				Quantity (mil. lb.)	Value (mil. dol.)	
1970	39,756	1,037	1,873	813	225	43,224	118	140	94	24
1980	244,007	3,648	2,145	2,687	962	220,783	1,006	574	904	102
1985	343,553	6,679	2,754	4,064	2,614	213,146	1,084	648	1,010	73
1986	368,857	7,626	2,979	4,813	2,813	217,304	1,356	735	1,290	66
1987	402,066	8,818	3,201	[1]5,711	3,106	252,866	1,660	783	1,577	83
1988	437,140	8,872	2,968	5,442	3,430	320,385	2,275	1,060	2,156	119
1989	472,977	9,604	3,243	5,498	4,107	(NA)	4,707	1,374	2,283	2,424
1990	490,554	9,048	2,885	5,233	3,815	(NA)	5,639	1,910	2,777	2,862
1991	483,028	9,435	3,015	5,672	3,763	(NA)	[1]6,162	[1]2,020	[1]3,037	3,125

NA Not available. [1] Record.

No. 1180. Selected Fishery Products—Imports and Exports: 1985 to 1991

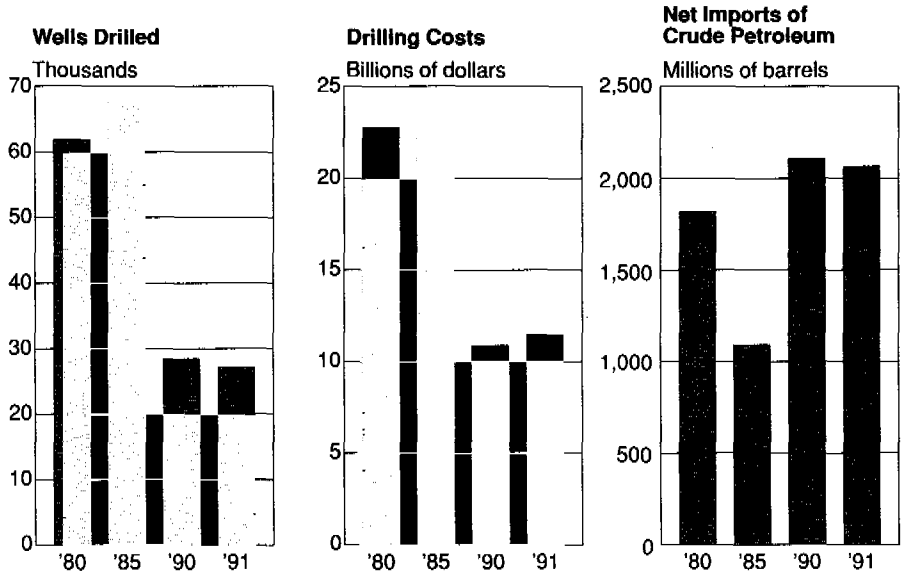
[See *Historical Statistics, Colonial Times to 1970*, series L 312-318, for selected imports]

PRODUCT	QUANTITY (mil. lb.)					VALUE (mil. dol.)				
	1985	1988	1989	1990, prel.	1991, prel.	1985	1988	1989	1990, prel.	1991, prel.
Imports, edible [1]	**2,754**	**2,968**	**3,243**	**2,885**	**3,015**	**4,064**	**5,442**	**5,498**	**5,233**	**5,672**
Fresh or frozen [1]	2,229	2,473	2,612	2,336	2,419	3,462	4,780	4,695	4,521	4,859
Salmon [2]	27	50	99	104	107	76	155	229	253	243
Tuna [3]	479	550	650	454	496	266	372	402	339	341
Groundfish fillets, blocks [4]	640	501	484	442	420	655	759	702	693	770
Other fillets and steaks	231	320	253	257	310	334	533	490	458	533
Scallops (meats)	42	32	41	40	30	147	116	139	131	111
Lobster, American, spiny	77	78	72	74	66	465	547	453	440	420
Shrimp and prawn	343	490	492	492	530	1,121	1,726	1,685	1,639	1,836
Canned [1]	414	424	533	458	513	466	551	642	543	642
Sardines and herring [5]	40	37	41	42	35	30	33	34	31	28
Tuna	214	245	348	285	352	209	299	376	294	359
Oysters	29	27	20	14	12	30	40	37	27	32
Pickled or salted	57	56	51	45	45	53	67	55	49	56
Cod, haddock, hake, pollock, cusk	35	31	17	11	11	41	53	25	18	22
Nonedible scrap and meal	**511**	**265**	**171**	**239**	**159**	**62**	**49**	**32**	**39**	**32**
Exports: Canned salmon	48	33	40	49	66	83	92	90	104	134
Fish oil, nonedible	**279**	**149**	**195**	**222**	**254**	**37**	**22**	**20**	**24**	**35**

[1] Includes products not shown separately. [2] Excludes fillets. [3] Includes landings of tuna by foreign vessels at American Samoa. [4] Includes cod, cusk, haddock, hake, pollock, Atlantic ocean perch, and whiting. [5] Not in oil.

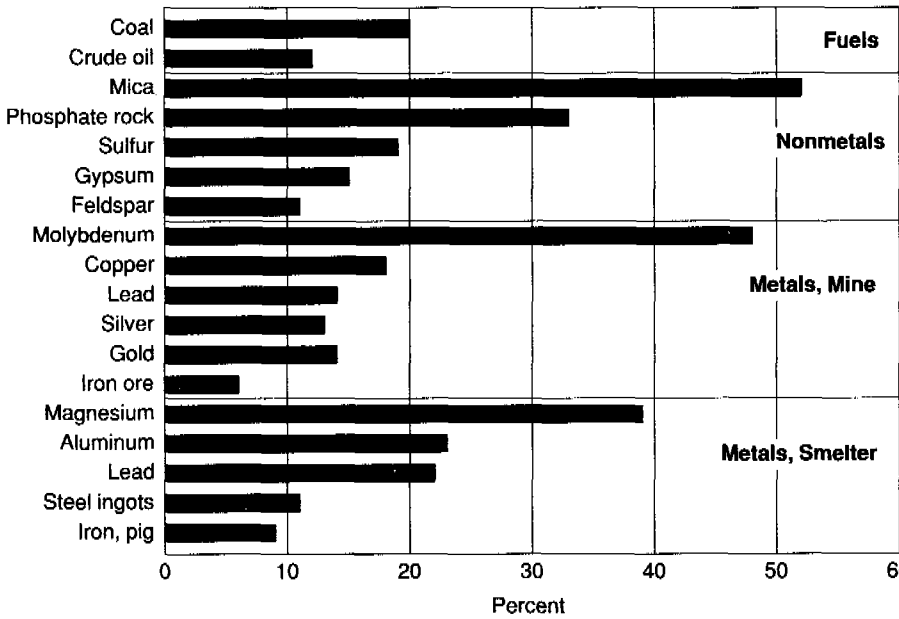
Source of tables 1179 and 1180: U.S. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, *Fisheries of the United States*, annual. Compiled from U.S. Bureau of the Census data.

Figure 25.1
Wells Drilled and Drilling Costs for Crude Petroleum and Natural Gas: 1980 to 1991



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1199 and 1204.

Figure 25.2
U.S. Mineral Production as a Percentage of World: 1991



Source: Chart prepared by U.S. Bureau of the Census. For data, see table 1191.

Mining and Mineral Products

This section presents data relating to mineral industries and their products, general summary measures of production, and employment and more detailed data on production, prices, imports and exports, consumption, and distribution for specific industries and products. Data on mining and mineral products may also be found in sections 27 and 31 of this *Abstract;* data on mining employment may be found in section 13.

In Brief

Petroleum balance, 1991:

Production	6.1 billion barrels
Net imports	2.1 billion barrels
Stocks	1.6 billion barrels

Mining comprises the extraction of minerals occurring naturally (coal, ores, crude petroleum, natural gas) and quarrying, well operation, milling, refining and processing, and other preparation customarily done at the mine or well site or as a part of extraction activity. (Mineral preparation plants are usually operated together with mines or quarries.) Exploration for minerals is included as is the development of mineral properties.

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

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

Censuses of mineral industries have been conducted by the Bureau of the Census at various intervals since 1840. Beginning with the 1967 census, legislation provides for a census to be conducted every 5th year for years ending in "2" and "7." The censuses provide, for the various types of mineral establishments, information on operating costs, capital expenditures, labor, equipment, and energy requirements in relation to their value of shipments and other receipts. Commodity statistics on many manufactured mineral products are also collected by the Bureau at monthly, quarterly, or annual intervals and issued in its *Current Industrial Reports* series.

In general, figures shown in the individual commodity tables include data for outlying areas and may therefore not agree with detailed table 1185. The export and import figures exclude foreign trade passing through the customs districts of Puerto Rico, except where noted as including it.

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

No. 1181. Summary of Mineral Operations: 1958 to 1987

[Represents mineral operations only. Beginning 1967, excludes single unit establishments without paid employees. See also *Historical Statistics, Colonial Times to 1970*, series M 1-11]

ITEM	Unit	1958	1963	1967	1972	1977	1982	1987
Establishments	Number	36,392	38,651	28,579	25,269	31,359	42,241	33,617
With 20 or more employees	Number	6,045	5,499	5,682	5,312	6,632	(NA)	6,299
Including all operations in manufactures	Number	37,966	40,532	29,688	26,178	31,967	42,585	34,041
Excluding oil and gas extraction	Number	19,444	19,290	13,330	11,680	13,520	12,267	10,707
Employees, total	1,000	734	616	567	595	799	1,114	698
Production workers [1]	1,000	565	482	433	443	593	762	451
All other	1,000	169	134	134	152	206	352	247
Worker-hours, production workers [1]	Million	1,081	973	892	909	1,183	1,578	942
Worker-hours per production workers	1,000	1.9	2.0	2.1	2.1	2.0	2.1	2.1
Payroll, total	Mil. dol.	3,749	3,743	4,187	6,226	13,167	28,637	21,739
Wages, production workers [1]	Mil. dol.	2,623	2,680	2,888	4,250	9,082	18,030	12,443
Salaries, all other employees	Mil. dol.	1,126	1,063	1,299	1,976	4,085	10,607	9,296
Cost of supplies, etc. [2]	Mil. dol.	7,521	8,974	10,576	14,884	46,079	109,697	62,423
Value added in mining	Mil. dol.	13,385	15,910	19,330	26,471	68,013	188,056	110,959
Metal mining	Mil. dol.	1,180	1,418	1,557	2,382	3,504	3,215	4,610
Coal mining	Mil. dol.	1,780	1,727	2,091	3,754	11,266	18,631	17,068
Oil and gas extraction	Mil. dol.	9,033	11,020	13,394	17,612	48,587	159,937	80,049
Nonmetallic minerals mining	Mil. dol.	1,392	1,745	2,288	2,723	4,656	6,273	9,233
Value of shipments and receipts [3]	Mil. dol.	16,373	18,804	22,784	36,319	96,375	250,000	157,964
Capital expenditures	Mil. dol.	2,804	3,264	4,058	5,036	17,718	47,753	15,418

NA Not available. [1] See footnote 4, table 1184. [2] Includes purchased machinery installed. [3] See footnote 6, table 1184.

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

No. 1182. Gross National Product (GNP) in Mining: 1980 to 1989

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

MINING INDUSTRY	1980	1982	1983	1984	1985	1986	1987	1988	1989
Current dollars, total	**107,257**	**132,122**	**118,351**	**119,362**	**114,174**	**74,289**	**76,836**	**80,017**	**80,254**
Percent of total GNP	3.9	4.2	3.5	3.2	2.8	1.8	1.7	1.6	1.5
Metal mining	3,836	2,321	2,527	2,216	1,750	1,768	2,449	2,928	3,570
Coal mining	12,909	15,108	14,301	14,597	13,881	13,166	13,189	13,171	13,647
Oil and gas extraction	84,947	110,228	96,412	96,385	92,444	52,449	54,010	55,799	55,660
Nonmetallic minerals, exc. fuels	5,565	4,465	5,111	6,164	6,099	6,904	7,188	8,119	7,377
Constant (1982) dollars, total	**143,544**	**132,122**	**129,926**	**137,874**	**138,950**	**128,250**	**127,514**	**129,536**	**127,187**
Percent of total GNP	4.5	4.2	4.0	3.9	3.8	3.4	3.3	3.2	3.1
Metal mining	2,054	2,321	2,246	2,463	2,423	2,597	2,687	2,625	3,294
Coal mining	13,944	15,108	15,484	16,514	16,391	16,972	18,050	19,567	21,599
Oil and gas extraction	121,505	110,228	107,048	112,647	114,053	102,075	100,172	99,919	95,662
Nonmetallic minerals, exc. fuels	6,041	4,465	5,148	6,250	6,083	6,606	6,605	7,425	6,632

Source: U.S. Bureau of Economic Analysis, *The National Income and Product Accounts of the United States, Volume 2, 1959-88;* and *Survey of Current Business,* July issues.

No. 1183. Mining and Primary Metal Production Indexes: 1970 to 1992

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

INDUSTRY GROUP	1970	1975	1980	1984	1985	1986	1988	1989	1990	1991	1992
Mining	**100.4**	**98.0**	**110.0**	**111.9**	**109.0**	**101.0**	**101.8**	**100.5**	**102.6**	**101.1**	**98.7**
Coal	67.2	71.5	90.2	97.5	96.3	97.1	105.0	105.7	113.2	109.2	105.5
Anthracite	274.1	175.0	169.6	116.9	132.8	120.8	115.6	96.3	103.2	72.7	66.1
Bituminous	66.0	71.0	89.7	97.4	96.1	96.9	105.0	105.8	113.3	109.4	105.8
Oil and gas extraction	104.8	101.8	112.1	115.5	111.9	102.0	99.4	99.5	95.5	95.8	93.2
Crude oil and natural gas	122.3	107.5	108.4	106.4	105.0	101.7	99.2	95.6	93.7	95.5	94.0
Oil and gas drilling	65.2	109.7	181.2	226.6	198.9	109.8	100.0	93.7	109.0	93.3	78.3
Metal mining	129.5	106.4	108.8	91.7	91.3	95.2	122.7	141.4	153.1	150.2	158.1
Iron ore	194.4	172.1	149.4	111.0	104.9	84.4	119.8	123.3	118.1	118.2	116.5
Nonferrous ores	111.5	88.7	95.0	84.8	86.4	99.1	123.3	145.1	160.5	156.9	(NA)
Copper ore	123.2	101.5	93.1	85.9	86.9	91.2	113.8	118.4	125.3	129.1	139.7
Lead and zinc ores	192.2	189.9	166.7	109.7	120.1	103.3	119.8	130.4	174.3	185.1	175.9
Primary metals, manufacturing	**115.2**	**107.2**	**110.8**	**102.4**	**101.8**	**93.8**	**110.3**	**109.2**	**108.4**	**99.5**	**102.9**
Nonferrous metals	77.1	75.3	92.5	98.2	98.5	97.3	105.4	109.0	106.2	101.5	101.5
Copper	135.2	103.0	94.7	97.0	99.8	99.1	113.5	115.5	120.2	116.7	124.6
Aluminum	107.8	105.2	138.7	122.2	104.7	90.9	117.6	120.8	121.1	123.2	120.5
Iron and steel	148.2	133.5	126.0	105.9	104.5	90.8	113.8	109.3	109.9	98.0	103.9

NA Not available.

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

No. 1184. Mineral Industries—Summary: 1977 to 1987

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

MINERAL INDUSTRY	1977			1982					1987									
				Establishments		All employees		Value added in mining [2] (mil. dol.)	Establishments		All employees		Production workers [4]			Value added in mining [2] (mil. dol.)	Value of shipments and receipts [6] (mil. dol.)	Capital expenditures (mil. dol.)
	Establishments	All employees, payroll [1] (mil. dol.)	Value added in mining [2] (mil. dol.)	Total	With 20 or more employees	Number [3] (1,000)	Payroll [1] (mil. dol.)		Total	With 20 or more employees	Number [3] (1,000)	Payroll [1] (mil. dol.)	Number [3] (1,000)	Hours [5] (millions)	Wages (mil. dol.)			
All industries	**31,359**	**13,167**	**68,013**	[7]42,241	(NA)	**1,114**	**28,637**	**188,056**	**33,617**	**6,299**	**698**	**21,739**	**451**	**942**	**12,443**	**110,959**	**157,964**	**15,418**
Metal mining	**1,206**	**1,485**	**3,504**	**1,434**	**(NA)**	**68**	**1,860**	**3,215**	**1,027**	**260**	**44**	**1,354**	**34**	**68**	**952**	**4,610**	**6,852**	**899**
Iron ores	97	3	1,046	78	40	12	340	770	51	16	7	224	6	11	166	768	1,362	24
Copper ores	133	544	1,067	81	51	22	604	672	61	33	14	405	11	21	283	1,301	2,150	205
Lead and zinc ores	88	105	329	71	28	4	112	201	39	19	2	58	1	3	40	176	268	12
Gold and silver ores	175	71	161	371	80	10	263	650	372	101	13	423	10	21	305	1,814	2,261	555
Ferroalloy ores, except vanadium	56	107	256	69	16	5	150	146	58	10	1	46	1	2	24	61	110	8
Metal mining services	270	52	112	313	(NA)	3	61	90	268	42	3	81	2	5	60	176	251	26
Miscellaneous metal ores	387	234	533	451	91	12	332	686	178	42	4	116	3	5	75	313	449	70
Coal mining	**5,451**	**4,171**	**11,266**	**5,087**	**(NA)**	**251**	**6,805**	**18,631**	**3,905**	**1,418**	**163**	**5,567**	**129**	**259**	**4,251**	**17,068**	**25,955**	**1,665**
Bituminous coal and lignite mining	4,944	4,005	10,837	4,513	1,787	241	6,570	18,041	3,507	1,335	158	5,410	124	249	4,125	16,679	25347	1,614
Anthracite mining	156	48	116	152	40	3	67	172	107	26	2	41	2	3	32	109	206	12
Coal mining services	351	119	313	422	(NA)	7	168	418	291	57	4	116	3	7	94	280	402	39
Oil and gas extraction	**18,447**	**5,902**	**48,587**	**29,974**	**(NA)**	**685**	**17,693**	**159,937**	**22,910**	**3,167**	**378**	**11,961**	**206**	**437**	**5,283**	**80,049**	**112,363**	**11,717**
Crude petroleum and natural gas	8,573	2,738	38,327	[7]12,087	(NA)	264	8,084	126,035	10,203	1,171	199	7,510	69	142	2,154	67,955	76,518	10,549
Natural gas liquids	692	227	3,286	793	236	14	402	8,865	714	210	13	433	10	20	320	4,025	24,750	383
Oil and gas field services	9,182	2,936	6,974	[7]17,094	(NA)	406	9,207	25,037	11,993	1786	167	4,018	127	275	2,809	8,069	11,095	786
Drilling oil and gas wells	2,625	1,317	3,307	4,385	(NA)	166	4,007	11,316	2,591	620	55	1,318	46	93	1,012	2,549	3,626	321
Oil, gas exploration services	1,252	220	545	2,934	(NA)	42	810	2,307	1,917	143	17	452	13	27	311	771	1,096	69
Oil, gas field services, n.e.c.	5,305	1,399	3,122	9,775	(NA)	199	4,391	11,415	7,485	1,023	95	2,248	69	154	1,486	4,748	6,373	395
Nonmetallic mining	**6,255**	**1,609**	**4,656**	**5,746**	**(NA)**	**110**	**2,278**	**6,273**	**5,775**	**1,454**	**113**	**2,858**	**83**	**178**	**1,956**	**9,233**	**12,795**	**1,136**
Dimension stone [8]	209	19	39	154	22	2	21	50	149	19	1	25	1	2	18	65	86	4
Crushed and broken stone [9]	2,055	543	1,501	1,932	567	37	701	1,787	2,002	711	44	1,082	33	72	754	3,465	4,768	521
Sand and gravel [9]	2,807	418	1,017	2,758	343	28	520	1,336	2,750	436	33	772	24	51	551	2,320	3,139	238
Clay and related minerals [9]	255	136	358	224	97	11	212	510	197	100	10	272	7	15	185	827	1,249	111
Chemical and fertilizer minerals	205	372	1,433	196	114	26	681	2,237	148	79	16	501	12	24	336	1,999	2,772	192
Nonmetallic minerals, services	176	36	70	167	(NA)	2	35	70	177	23	2	45	1	3	32	119	165	25
Miscellaneous [9]	548	87	238	315	72	6	109	283	352	86	7	162	5	10	101	438	616	46

NA Not available. [1] Gross earnings paid to all employees on payroll. [2] Computed by subtracting cost of supplies, minerals received for preparation, purchased fuel and electric energy, contract work, and purchased machinery from the value of shipments and capital expenditures. [3] Excludes proprietors and firm members of unincorporated concerns. [4] Represents employees up through the working foreman level engaged in manual work. Includes development and exploration workers. [5] Excludes paid vacations, holidays, and sick leave; includes actual overtime hours (not straight-time equivalent). [6] Represents value of shipments of primary and secondary products of the industry and amount received for services performed for other establishments on a contract, fee, or other basis. [7] Redefined to conform to 1987 and pre-1982 definition of establishment; for detail, see source. [8] Excludes data for dimension stone quarries operated in conjunction with dressing plants. [9] Excludes data for mining included in establishments classified in manufacturing industries.

Source: U.S. Bureau of the Census, *Census of Mineral Industries: 1977, 1982,* and *1987,* final industry series reports.

No. 1185. Mineral Production and Value, 1980 to 1991,

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

	MINERAL	PRODUCTION QUANTITY					
		Unit	1980	1985	1989	1990	1991
1	Total mineral production	(X)	(X)	(X)	(X)	(X)	(X)
2	**Mineral fuels**	(X)	(X)	(X)	(X)	(X)	(X)
3	Coal: Bituminous and lignite	Mil. sh. tons	824	879	977	1,026	993
4	Pennsylvania anthracite	Mil. sh. tons	6	5	3	4	3
5	Natural gas (wet)	Tril. cu. ft.	20.18	17.27	1,810	1,859	1,671
6	Petroleum (crude)	Mil. bbl. [1]	3,146	3,274	2,779	2,685	2,707
7	Uranium [2]	Mil. lb.	43.7	11.3	13.8	8.9	8.0
8	**Industrial minerals**	(X)	(X)	(X)	(X)	(X)	(X)
9	Abrasive stone [3]	Metric tons	572	1,050	898	3,709	2,205
10	Asbestos (sales)	1,000 metric tons	80	57	17	(D)	(D)
11	Asphalt and related bitumens (native) [4]	1,000 sh. tons	1,252	(D)	-	-	-
12	Barite, primary, sold/used by producers	1,000 metric tons	2,037	670	290	430	448
13	Boron minerals, (producers)	1,000 metric tons	1,401	1,151	1,114	1,094	1,240
14	Bromine (sold or used by producers)	Mil. kilograms	172	145	175	177	170
15	Calcium chloride	1,000 sh. tons	581	(D)	(D)	(D)	(D)
16	Carbon dioxide, natural (estimate)	Mil. cu. ft.	1,628	-	-	-	-
17	Cement: Portland	Mil. sh. tons	71.6	74.3	74.2	75.6	68.7
18	Masonry	Mil. sh. tons	3.0	3.2	3.3	3.3	2.6
19	Clays	1,000 metric tons	44,262	40,800	42,254	42,904	44,092
20	Diatomite	1,000 metric tons	625	576	617	631	610
21	Feldspar	1,000 metric tons	644	635	655	630	580
22	Fluorspar, finished shipments	1,000 metric tons	84	60	66	64	58
23	Garnet (abrasive)	1,000 metric tons	24.4	33.3	42.6	47.0	50.9
24	Gem stones (estimate)	(X)	(NA)	(NA)	(NA)	(NA)	(NA)
25	Gypsum, crude	Mil. sh. tons	12.4	14.4	17.6	16.4	15.5
26	Helium [5]	Mil. cu. meters	41	53	82	87	88
27	Lime, (sold or used by producers)	Mil. sh. tons	19.0	15.7	17.2	17.5	17.3
28	Magnesium compounds [7]	1,000 sh. tons	(D)	(D)	(D)	(D)	(D)
29	Mica, scrap & flake, (producers)	1,000 metric tons	105	125	119	109	103
30	Peat (sales by producers)	1,000 sh. tons	788	882	775	795	777
31	Perlite, processed (sold or used)	1,000 sh. tons	638	518	601	635	567
32	Phosphate rock (marketable)	Mil. metric tons	54.4	50.8	49.8	46.3	48.1
33	Potassium salts sales, K_2O equivalent	1,000 metric tons	2,217	1,266	1,536	1,716	1,709
34	Pumice & pumicite, producer sales	1,000 metric tons	492	461	424	443	401
35	Pyrites	1,000 metric tons	847	(D)	(D)	(D)	(D)
36	Salt, common, sold/used by producers	Mil. metric tons	40.4	40.1	38.9	40.7	39.6
37	Sand & gravel, sold/used by producer	Mil. metric tons	719	753	841	852	731
38	Sodium carbonate (natural) (soda ash)	1,000 metric tons	(D)	(D)	8,995	9,156	9,005
39	Sodium sulfate (natural)	1,000 metric tons	529	353	340	349	354
40	Stone [8]	Mil. metric tons	893	909	1,102	1,110	1,002
41	Sulfur: Frasch mines (shipments)	1,000 metric tons	7,400	4,678	3,780	3,676	3,120
42	Talc, and pyrophyllite, crude [9]	1,000 metric tons	1,125	1,151	1,253	1,267	1,037
43	Tripoli	1,000 metric tons	110	109	105	94	89
44	Vermiculite concentrate	1,000 sh. tons	337	314	293	230	185
45	Industrial minerals, undistributed [10]	(X)	(X)	(X)	(X)	(X)	(X)
46	**Metals**	(X)	(X)	(X)	(X)	(X)	(X)
47	Antimony ore and concentrate	Metric tons [11]	311	(D)	(D)	(D)	(D)
48	Bauxite (dried)	1,000 metric tons [13]	1,559	674	(D)	(D)	(D)
49	Copper [2]	1,000 metric tons	1,181	1,105	1,498	1,588	1631
50	Gold [2]	1,000 kilograms	30	75	266	294	290
51	Iron ore [14]	Mil. metric tons [15]	70.7	50.2	58.3	57.0	56.7
52	Lead [2]	1,000 metric tons	550	414	411	483	466
53	Magnesium metal [16]	1,000 metric tons	(NA)	(NA)	152	139	131
54	Manganiferous ore [17]	1,000 sh. ton [15]	174	20	(D)	(D)	(D)
55	Mercury [18]	Metric tons	1,057	570	414	114	58
56	Molybdenum [19]	1,000 metric tons	68	51	62	62	54
57	Nickel [20]	1,000 sh. tons	14.7	6.1	-	0.3	5.5
58	Paladium metal	Kilograms	(D)	(D)	4,850	5,930	6,050
59	Platinum metal	Kilograms	(D)	(D)	1,430	1,810	1,730
60	Silver [2]	Metric tons	1,006	1,227	2,007	2,125	1,848
61	Titanium concentrate: Ilmenite	1,000 metric tons [15]	539	(D)	(D)	(D)	(D)
62	Tungsten ore and concentrate	Metric tons [21]	2,738	983	(D)	(D)	(D)
63	Vanadium [2]	Sh. tons	4,806	(D)	(D)	(D)	(D)
64	Zinc mine production [2]	1,000 metric tons	317	227	276	515	518
65	Metals, undistributed [10]	(X)	(X)	(X)	(X)	(X)	(X)

- Represents zero. D Withheld to avoid disclosing individual company data. NA Not available. X Not applicable. [1] 42 gal. bbl. [2] Recoverable content of ores, etc. [3] Includes grindstones, oilstones, whetstones, and deburring media. Excludes grinding pebbles, and tubemill liners. [4] Contains bituminous limestone and sandstone, and gilsonite. [5] Value included in "Industrial minerals, undistributed." [6] 1980, crude and refined; thereafter, refined only. [7] From sea water and brines, except for metals (MgO equiv.). [8] Excludes abrasive stone, bituminous limestone and sandstone, and ground soapstone, all included elsewhere in table; 1991 value is for crushed and broken stone only. Includes calcareous marl and slate.

and Principal Producing States, 1991

(including consumption by producers). See *Historical Statistics, Colonial Times to 1970,* series M 13-37 for selected values]

PRODUCTION VALUE (mil. dol.)					Principal producing States ranked by quantity, 1991	
1980	1985	1989	1990	1991		
146,750	168,154	128,603	141,741	(NA)	(X)	1
121,612	**144,847**	**96,378**	**108,422**	**(NA)**	**(X)**	**2**
20,197	22,063	21,268	22,274	21,598	WY, KY, WV, PA.	3
259	215	142	133	(NA)	PA.	4
32,090	43,343	30,627	31,658	30,300	TX, LA, OK, NM.	5
67,930	78,871	44,071	53,772	(NA)	AK, TX, CA, LA.	6
1,136	356	270	140	(NA)	TX, WY, NM.	7
16,218	**17,679**	**20,360**	**20,971**	**19,617**	**(X)**	**8**
2	1	-	-	-	AR, WI, OH.	9
31	21	(5)	(5)	(5)	CA and VT.	10
25	(5)	-	-	-	(X)	11
66	22	13	16	21	NV, GA, MO, MI.	12
367	405	430	436	443	CA.	13
96	80	189	173	167	AR.	14
48	(5)	(5)	(5)	(5)	MI and CA.	15
3	-	-	-	-	(X)	16
3,613	3,817	3,592	3,683	3,343	CA, TX, MI, PA.	17
189	213	229	225	188	IN, SC, PA, MI.	18
899	1,011	1,515	1,620	1,505	GA, AL, WY, TX.	19
101	127	137	138	140	CA, NV, OR, WA.	20
23	23	28	29	26	NC, OK, CT, CA.	21
13	(5)	(5)	(5)	(5)	IL.	22
2	3	4	7	8	ID and NY.	23
7	7	43	53	84	(X)	24
103	112	128	100	94	OK, IA, MI, TX.	25
30	70	107	113	175	KS, WY, TX, CO.	26
843	809	852	902	891	MO, OH, PA, KY.	27
(5)	(5)	(5)	(5)	(5)	MI, CA, FL, UT.	28
6	6	6	6	6	NC, GA, NM, SC.	29
16	22	18	19	18	MI, FL, NJ, ME.	30
17	18	16	17	15	NM, AZ, CA, ID.	31
1,257	1,236	1,083	1,075	1,109	FL, ID, NC, UT.	32
354	178	272	303	305	NM, UT, CA, MI.	33
4	5	8	11	9	OR, CA, NM, ID.	34
14	(5)	(5)	(5)	(5)	AZ.	35
656	740	777	827	802	LA, TX, NY, KS.	36
2,289	2,812	3,659	3,686	3,196	CA, MI, OH, WA.	37
(5)	(5)	764	836	836	WY and CA.	38
36	36	31	34	31	CA, TX, UT.	39
3,405	4,225	5,537	5,801	5,382	PA, IL, TX, FL.	40
721	574	379	335	272	TX and LA.	41
19	29	28	31	32	MT, VT, TX, NY.	42
1	1	3	3	3	IL, OK, AR, PA.	43
24	32	33	19	13	SC, VA, MT.	44
941	1,045	480	473	506	(X)	45
8,922	**5,627**	**11,863**	**12,442**	**10,950**	**(X)**	**46**
(12)	(12)	(12)	(12)	(12)	ID.	47
22	13	(12)	(12)	(12)	AL and GA	48
2,667	1,631	4,324	4,311	3,931	AZ, NM, UT, MT.	49
594	771	3,269	3,650	3,386	NV, CA, UT, MT.	50
2,544	2,077	1,840	1,741	1,674	MN, MI, UT, MO.	51
515	174	356	491	344	MO, AK, ID, CO.	52
(NA)	(NA)	509	433	337	TX, WA, UT.	53
2	(12)	(12)	(12)	(12)	SC.	54
12	(12)	(12)	(12)	(12)	NV, CA.	55
1,344	348	427	348	250	AZ, CO, MT, UT.	56
(12)	(12)	-	(NA)	(NA)	(NA)	57
(12)	(12)	23	22	17	MT	58
(12)	(12)	23	27	21	MT	59
667	242	355	329	240	NV, ID, AK, MT.	60
32	(12)	(12)	(12)	(12)	FL, CA, NJ.	61
51	9	(12)	(12)	(12)	CA	62
64	(12)	(12)	(12)	(12)	ID	63
262	202	499	647	602	AK, TN, NY, MO.	64
145	161	238	242	148	(X)	65

[9] For 1991 production quantity, talc only. [10] Comprises value of items that cannot be disclosed. [11] Antimony content. [12] Included with "Metals, undistributed." [13] Dried equivalent. [14] Represents shipments; includes byproduct ores. [15] Gross weight. [16] For 1980-85, magnesium chloride for magnesium metal included in "Metals undistributed," canvass for magnesium chloride for magnesium metal discontinued in 1986. [17] 5 to 35 percent manganiferous ore. [18] 1989, mercury produced as the primary product only; thereafter, mercury produced as a byproduct of gold ores only. [19] Content of concentrate. [20] Content of ore and concentrate. [21] Tungsten content.

Source: U.S. Bureau of Mines, *Minerals Yearbook.* Mineral fuels: U. S. Energy Information Administration, *Annual Energy Review, Uranium Industry Annual; Petroleum Supply Annual,* vol. 1; *Natural Gas Annual;* and *Quarterly Coal Report. Natural Gas Annual;* and *Quarterly Coal Report.*

No. 1186. Nonfuel Mineral Commodities—Summary: 1993

[Preliminary estimates]

MINERAL	MINERAL DISPOSITION					Average price per unit (dollars)	Employment (number)
	Unit	Production	Exports	Net import reliance [1] (percent)	Consumption, apparent		
Aluminum	1,000 metric tons	4,000	1,500	(2)	5,500	[3]59.00	19,800
Antimony (contained)	Metric tons	[4]37,000	5,000	58	43,000	[3]80.00	120
Arsenic	Metric tons	-	60	100	22,000	[5]86.00	(NA)
Asbestos	1,000 metric tons	(D)	24	95	32	(D)	70
Barite	1,000 metric tons	410	1	53	874	41.90	350
Bauxite and alumina	1,000 metric tons	(D)	1,114	100	4,900	15-18	35
Beryllium (contained)	Metric tons	240	60	(2)	190	[6]308.00	25
Bismuth (contained)	Metric tons	(D)	60	(D)	[7]1,500	2.65	30
Boron (B_2O_3 content)	1,000 metric tons	521	600	(2)	(NA)	272.00	900
Bromine (contained)	1,000 metric tons	166	20	(2)	157	[3]123.00	300
Cadmium (contained)	Metric tons	1,700	350	49	3,400	[8]1.00	195
Cement	1,000 sh. tons	76,484	750	7	81,934	[9]49.70	18,100
Cesium (contained)	Kilograms	(NA)	(NA)	(NA)	(NA)	[10](NA)	(NA)
Chromium	1,000 metric tons	[11]113	9	74	435	[12]110.00	(NA)
Clays	1,000 sh. tons	42,151	4,000	(2)	38,044	(NA)	11,000
Columbium (contained)	1,000 lb	-	200	100	3,470	[13]2.83	(NA)
Copper (Mine, contained)	1,000 metric tons	1,720	600	3	2,300	[14]107.00	14,000
Diamond (industrial)	Mil. carats	98.4	76.4	10	109.4	[15]0.75	(NA)
Diatomite	1,000 metric tons	647	170	(2)	477	[16]197.00	1,000
Feldspar	1,000 metric tons	696	13	-	696	[16]43.82	400
Fluorspar	1,000 metric tons	50	60	87	399	(NA)	180
Gallium (contained)	Kilograms	-	(NA)	(NA)	(NA)	425.00	20
Garnet (industrial)	Metric tons	54,304	10,000	(2)	40,416	100-2,000	150
Gem stones	Mil. dol.	69.4	1,619	98	3,136	(17)	800
Germanium (contained)	Kilograms	13,000	(NA)	(NA)	[7]29,000	[18]1060.00	100
Gold (gold contained)	Metric tons	320	360	(NA)	100	[19]350.00	14,400
Graphite (crude)	1,000 metric tons	-	16	100	25	[20]580.00	-
Gypsum	1,000 sh. tons	16,300	26,000	35	26,000	[21]6.10	6,700
Indium	Metric tons	(NA)	(NA)	(NA)	[7]30	[22]200.00	(NA)
Iodine	Metric tons	2,042	1,500	52	(NA)	[23]9.12	50
Iron ore (usable)	Mil. metric tons	56.2	4.5	12	66.1	[24]72.5-74.0	7,500
Iron and steel scrap (metal)	Mil. sh. tons	71.2	8.3	(2)	64.3	[25]83.60	104,100
Iron and steel slag (metal)	1,000 sh. tons	18,000	4	(NA)	(NA)	[21]5.55	3,000
Lead (contained)	1,000 metric tons	1,540	70	8	1,220	[3]36.00	1,700
Lime	1,000 sh. tons	18,000	62	-	18,130	[8]51.70	5,500
Magnesium metal	1,000 metric tons	[26]135	60	(2)	126	[27]1.43	1,450
Magnesium compounds	1,000 metric tons	460	50	23	600	(NA)	650
Manganese	1,000 sh. tons	-	14	100	610	[28]3.25	(NA)
Mercury	Metric tons	60	400	(D)	(D)	[29]180.00	(NA)
Mica, scrap and flake	1,000 metric tons	93	4	14	96	[8]56.00	7
Molybdenum	1,000 metric tons	45,400	30,000	(2)	17,200	[10]5.08	800
Nickel	1,000 sh. tons	5,500	8,000	64	121,000	[30]3.21	314
Nitrogen (fixed)-ammonia	1,000 sh. tons	14,500	420	15	17,052	[31]110.00	2,500
Peat	1,000 sh. tons	730	-	50	1,459	[9]23.00	650
Perlite	1,000 sh. tons	571	30	3	591	[9]28.83	115
Phosphate rock	1,000 metric tons	47,000	4,400	(2)	42,000	[9]23.00	5,800
Platinum-group, refined	Kilograms	1,730	36,518	94	113,343	[32]356.00	500
Potash (K_2O equivalent)	1,000 metric tons	1,760	650	67	5,390	134.00	2,179
Pumice and pumicite	1,000 metric tons	439	12	32	642	[16]26.42	50
Rare-earth metals (REO content)	Metric tons	16,000	(NA)	(2)	15,700	[33]2.87	390
Salt	1,000 sh. tons	39,800	1,000	12	45,800	[34]103.00	4,150
Sand and gravel:							
Construction	Million sh. tons	805,700	1,100	(2)	806,000	[9]3.64	41,600
Industrial	1,000 sh. tons	26,100	1,500	(2)	24,690	[9]15.29	1,500
Silicon	1,000 metric tons	350	40	36	550	[35]37.00	2,300
Silver	Metric tons	1,800	2,000	(7)	(NA)	[19]4.00	1,700
Sodium carbonate (soda ash)	1,000 metric. tons	9,500	2,800	(2)	6,694	[36]98.00	2,800
Sodium sulfate	1,000 metric. tons	350	140	1	710	[37]114.00	240
Stone (crushed)	Mil. sh. tons	1,155	3	-	1,158	[9]4.83	75,000
Sulfur (all forms)	1,000 metric tons	10,600	1,000	18	12,900	[38]60.00	3,200

- Represents or rounds to zero. D Withheld to avoid disclosure. NA Not available. [1] Net import reliance as a percent of consumption. [2] Net exporter. [3] Average cents per pound, except bromine (dollars per kilogram). [4] Refinery production. [5] Metal, 99% As_2O_3. [6] Metal, vacuum-cast ingot. [7] Reported consumption. [8] Average dollars per pound, 1 to 5 short ton lots. [9] Dollars per short ton. [10] Metal, dollars per pound. [11] Secondary production. [12] Turkish, dollars per metric ton. [13] Columbite, dollars per pound. [14] Domestic producer cathode, cents per pound. [15] Dollars, per carat. [16] Dollars per metric ton. [17] Variable, depending on size, type and quality. [18] Zone refined, first reduction quality. [19] Dollars, per ounce. [20] Price of flake imports, average dollars per metric ton of foreign imports. [21] F.O.B. mine, average dollar per short ton. [22] Average annual dollars per kilogram (99.97% indium). [23] Average c.i.f. value, dollars per kilogram crude. [24] Lake Superior pellets. Cents per long ton unit of iron, delivered rail of vessel at lower lake ports. [25] Average dollars per long ton delivered, No. 1 heavy melting composite price, Iron Age average, Pittsburg, Philadelphia, Chicago. [26] Primary. [27] Yearend price, dollars per pound. [28] Average value, 46%-48% Mn metalurgical ore, dollars per metric ton unit contained Mn, c.i.f. U.S. ports. [29] Price per flask. [30] Average price, London Metal Exchange cash, dollars per pound. [31] Dollars per short ton, yearend quoted, f.o.b. gulf coast. [32] Dealer price of platinum metal, average dollars per ounce; Palladium price was $89 per ounce; rhodium price was $4,412 per ounce. [33] Yearend dollars per kilogram, bastnasite concentrate, REO basis. [34] Vacuum and open pan. [35] Average cents per pound silicon content, ferrosilicon, 50% Si. [36] Quoted yearend price, dense, bulk, f.o.b. Green River, WY, dollars per short ton. [37] Quoted price, bulk, f.o.b. works, East, dollars per short ton. [38] Reported average dollars per metric ton of elemental sulfur, f.o.b., mine and/or plant.

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

No. 1187. Value of Domestic Nonfuel Mineral Production: 1980 to 1991

[In millions of dollars]

STATE	1980	1985	1989	1990	1991	Principal minerals in order of value
U.S. [1]	**25,140**	**23,303**	**32,220**	**33,337**	**30,489**	**(X)**
Northeast	**1,581**	**1,964**	**2,450**	**2,475**	**2,095**	**(X)**
N.E.	268	325	455	443	347	(X)
ME	37	41	65	63	41	Sand and gravel, cement, and stone.
NH	25	33	33	35	30	Sand and gravel, stone, and gem stones.
VT	43	50	89	82	60	Stone, sand and gravel, and talc.
MA	91	117	144	127	112	Stone, sand and gravel, and lime.
RI	6	12	11	18	13	Sand and gravel, stone, and gem stones.
CT	66	72	113	118	91	Stone, sand and gravel, and feldspar.
M.A	1,313	1,639	1,995	2,032	1,748	(X)
NY	496	657	745	773	699	Stone, salt, and cement.
NJ	149	178	249	229	205	Stone, sand and gravel, and zircon.
PA	668	804	1,001	1,030	844	Stone, cement, and sand and gravel.
Midwest	**6,610**	**6,034**	**6,980**	**7,139**	**6,462**	**(X)**
E.N.C	2,930	2,869	3,551	3,476	3,477	(X)
OH	562	594	699	729	684	Stone, sand and gravel, and salt.
IN	288	303	434	432	403	Stone, cement, and sand and gravel.
IL	443	460	633	665	673	Stone, cement, and sand and gravel.
MI	1,485	1,387	1,599	1,438	1,503	Iron ore, cement, and sand and gravel.
WI	152	125	185	212	214	Stone, sand and gravel, and lime.
W.N.C	3,680	3,165	3,429	3,663	3,005	(X)
MN	1,782	1,548	1,376	1,470	1,019	Iron ore, sand and gravel, and stone.
IA	252	228	283	316	344	Cement, stone, and sand and gravel.
MO	1,054	735	1,050	1,103	880	Lead, stone, and cement.
ND	22	24	14	27	[2] 17	Sand and gravel, lime, and stone.
SD	228	208	284	311	290	Gold, cement, and sand and gravel.
NE	80	100	104	90	89	Cement, sand and gravel, and stone.
KS	262	322	318	346	366	Salt, stone, and cement.
South	**7,320**	**8,029**	**8,966**	**9,204**	**8,270**	**(X)**
S.A.	3,454	3,998	4,985	5,120	4,484	(X)
DE [2]	2	4	6	7	5	Sand and gravel and gem stones.
MD	186	258	342	369	348	Stone, sand and gravel, and cement.
VA	305	381	509	507	428	Stone, sand and gravel, and cement.
WV	106	105	125	136	117	Stone, cement, and sand and gravel.
NC	380	466	582	590	553	Stone, phosphate rock, and lithium minerals.
SC	195	276	425	450	338	Stone, cement, and gold.
GA	771	946	1,387	1,495	1,299	Clays, stone, and cement.
FL	1,509	1,562	1,608	1,567	1,396	Phosphate rock, stone, and cement.
E.S.C	1,030	1,251	1,537	1,696	1,533	(X)
KY	204	268	331	359	343	Stone, lime, and cement.
TN	394	473	638	664	548	Stone, zinc, and cement.
AL	328	407	461	561	540	Stone, cement, and lime.
MS	104	103	108	112	102	Sand and gravel, clays, and cement.
W.S.C	2,836	2,780	2,443	2,388	2,253	(X)
AR	293	270	382	303	361	Bromine, stone, and sand and gravel.
LA	584	521	380	368	352	Sulfur, salt, and sand and gravel.
OK	224	252	219	260	276	Stone, cement, and iodine.
TX	1,735	1,737	1,462	1,457	1,265	Cement, stone, and magnesium metal.
West	**9,629**	**7,276**	**13,809**	**14,511**	**13,364**	**(X)**
Mt	7,223	4,669	9,985	10,371	9,516	(X)
MT	280	200	566	573	590	Gold, copper, and molybdenum.
ID	522	359	365	378	297	Phosphate rock, silver, and molybdenum.
WY	761	551	827	911	929	Soda ash, clays, and helium.
CO	1,265	408	458	386	338	Molybdenum, sand and gravel, and cement.
NM	766	657	1,122	1,103	986	Copper, potash, and sand and gravel.
AZ	2,471	1,550	3,046	3,064	2,829	Bromine, stone, and sand and gravel.
UT	764	313	1,290	1,334	1,154	Copper, gold, and magnesium metal.
NV	394	631	2,310	2,621	2,393	Gold, silver, and sand and gravel.
Pac.	2,406	2,607	3,824	4,140	3,848	(X)
WA	207	222	481	473	483	Sand and gravel, gold, and magnesium metal.
OR	152	130	183	205	198	Stone, sand and gravel, and cement.
CA	1,872	2,112	2,854	2,780	2,532	Sand and gravel, cement, and boron.
AK	115	90	213	577	494	Zinc, lead, and silver.
HI	60	53	92	106	141	Stone, cement, and sand and gravel.

X Not applicable. [1] Includes undistributed not shown separately. [2] Partial data only.

Source: U.S. Bureau of Mines, *Annual Reports.*

No. 1188. Mineral Industries—Gross Assets and Capital Expenditures: 1972 to 1987

[In millions of dollars]

INDUSTRY AND YEAR	END OF YEAR GROSS VALUE OF DEPRECIABLE ASSETS					CAPITAL EXPENDITURES					
	Total [1]	Buildings and other structures	Machinery and equipment	Mineral exploration and development [1]	Mineral land and rights [1]	Total [1]	New buildings and other structures	New machinery and equipment	Used buildings and other structures	Used machinery and equipment	Mineral exploration and development [1]
Mineral industries: [2]											
1972	21,690	4,244	15,038	(3)	[3]2,409	2,802	317	1,407	(3)	[3]128	230
1977	44,664	6,099	33,068	2,625	2,871	6,802	785	5,068	30	399	520
1982	94,613	10,228	73,419	5,036	5,930	13,472	1,229	10,551	78	937	677
1987	84,286	9,314	64,143	5,034	5,795	4,869	349	3,234	88	797	401
Crude oil, nat. gas:											
1972	47,500	(NA)	(NA)	(NA)	(NA)	2,954	403	842	(3)	[3]44	1,666
1977	94,414	(NA)	(NA)	(NA)	(NA)	10,916	571	2,269	14	93	7,969
1982	233,052	(NA)	(NA)	(NA)	(NA)	34,281	1,967	5,550	20	215	26,529
1987	(NA)	(NA)	(NA)	(NA)	(NA)	10,549	590	3,176	18	218	6,548

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

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1987.*

No. 1189. Mineral Industries—Employment, Hours, and Earnings: 1990 to 1992

ITEM	Unit	1990	1991	1992	ITEM	Unit	1990	1991	1992
All mining:					Avg. weekly hours	No	43.9	44.5	43.9
All employees	1,000	710	691	635	Avg. weekly earnings	Dol	568	602	613
Production workers	1,000	509	491	450	Metal mining:				
Avg. weekly hours	No	44.1	44.4	44.0	All employees	1,000	58	56	54
Avg. weekly earnings	Dol	603	630	638	Production workers	1,000	46	44	43
Coal mining:					Avg. weekly hours	No	42.8	43.0	42.9
All employees	1,000	147	135	124	Avg. weekly earnings	Dol	601	639	653
Production workers	1,000	119	109	101	Nonmetallic minerals,				
Avg. weekly hours	No	44.0	44.6	43.9	except fuels:				
Avg. weekly earnings	Dol	735	762	755	All employees	1,000	111	105	103
Oil and gas extraction:					Production workers	1,000	84	78	77
All employees	1,000	395	394	354	Avg. weekly hours	No	45.3	44.6	44.9
Production workers	1,000	261	259	230	Avg. weekly earnings	Dol	525	532	551

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

No. 1190. Selected Mineral Products—Average Prices: 1970 to 1992

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

YEAR	Tantalum (dol. per lb.) [1]	Copper, electrolytic [2] (cents per lb.)	Platinum [3] (dol./troy oz.)	Gold (dol./fine oz.)	Silver (dol./fine oz.)	Lead [4] (cents per lb.)	Tin (New York) [5] (cents per lb.)	Zinc [6] (cents per lb.)	Sulfur, crude [7] (dol./metric ton)	Bituminous coal [8] (dol./short ton)	Crude petroleum [8] (dol./bbl.)	Natural gas [8] (dol./1,000 cu. ft.)
1970	9.15	58	133	36	1.77	15.7	174.1	15.3	[9]22.77	6.26	3.18	0.17
1975	18.32	64	164	161	4.42	21.5	339.8	39.0	[9]44.91	19.23	7.67	0.45
1976	20.31	70	162	125	4.35	23.1	379.8	37.0	[9]45.72	19.43	8.19	0.58
1977	25.64	67	157	148	4.62	30.7	534.6	34.4	[9]44.38	19.82	8.57	0.79
1978	34.19	66	261	194	5.40	33.7	629.6	31.0	45.17	21.78	9.00	0.91
1979	80.00	92	445	308	11.09	52.6	753.9	37.3	55.75	23.65	12.64	1.18
1980	126.37	101	677	613	20.63	42.5	846.0	37.4	89.06	24.52	21.59	1.59
1981	99.51	84	446	460	10.52	36.5	733.1	44.6	111.48	26.29	31.77	1.98
1982	49.95	73	327	376	7.95	25.5	653.9	38.5	108.27	27.14	28.52	2.46
1983	30.60	77	424	424	11.44	21.7	654.8	41.4	87.24	25.85	26.19	2.59
1984	37.44	67	357	361	8.14	25.6	623.8	48.6	94.31	25.51	25.88	2.66
1985	33.68	67	291	318	6.14	19.1	596.0	40.4	106.46	25.10	24.09	2.51
1986	23.74	66	461	368	5.47	22.1	383.2	38.0	105.22	23.70	12.51	1.94
1987	27.08	83	553	448	7.01	35.9	418.8	41.9	89.78	23.00	15.40	1.67
1988	47.37	120	523	438	6.54	37.1	441.4	60.2	85.95	22.00	12.58	1.69
1989	44.93	131	507	383	5.50	39.4	520.2	82.0	86.62	21.76	15.86	1.69
1990	38.06	123	467	385	4.82	46.0	386.3	74.6	80.14	21.71	20.03	1.71
1991	36.70	109	371	363	4.04	33.5	362.9	52.8	71.45	21.75	16.50	1.59
1992, prel.	34.42	107	356	350	4.00	36.0	414.0	59.0	60.00	(NA)	(NA)	(NA)

NA Not available. [1] Dollars per pound of tantalum content. [2] Average producer prices, delivered. [3] Average annual producer prices. [4] 1970, New York prices; beginning 1975, nationwide delivered basis. [5] Straits tin through 1975; thereafter, composite price. [6] Prime western. Beginning 1975, delivered price. [7] F.O.B. works. [8] Average value at the point of production. Source: U.S. Energy Information Administration, *Annual Energy Review.* [9] Per long ton.

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

No. 1191. Principal Fuels, Nonmetals, and Metals—U.S. Production, as Percent of World Production: 1980 to 1991

MINERAL	Unit	WORLD PRODUCTION				PERCENT U.S. OF WORLD			
		1980	1985	1990	1991, est.	1980	1985	1990	1991, est.
Fuels: [1]									
Coal	Bil. sh. ton	4.2	4.8	5.2	5.2	20	18	20	20
Petroleum (crude)	Bil. bbl	21.7	19.6	22.0	21.8	14	17	12	12
Natural gas (dry, marketable)	Tril. cu. ft	53.1	62.0	74.3	(NA)	37	26	24	(NA)
Natural gas plant liquids	Bil. bbl	1.4	1.5	1.8	(NA)	43	38	32	(NA)
Nonmetals:									
Asbestos	Mil. metric ton	4.7	4.2	3.8	3.5	2	1	(D)	(D)
Barite	Mil. short ton	7.5	6.1	5.6	5.3	27	11	8	8
Feldspar	Mil. short ton	3.2	4.0	5.3	5.2	20	16	12	11
Fluorspar	Mil. short ton	5.0	5.0	5.0	4.4	2	1	1	1
Gypsum	Mil. short ton	78.4	87.0	94.9	93.9	13	15	16	15
Mica (incl. scrap)	1,000 short ton	228	255	211	198	46	49	52	52
Nitrogen, agricultural [2]	Mil. short ton	73.6	91.0	97.6	93.7	20	14	13	14
Phosphate rock	Mil. metric ton	144	149	154	147	38	34	30	33
Potash	Mil. metric ton	27.9	29.2	27.7	25.5	8	4	6	7
Sulfur, elemental	Mil. metric ton	55.0	53.8	58.2	55.6	22	22	20	19
Metals, mine basis:									
Bauxite	Mil. metric ton	90.8	84.2	109.6	109.2	2	1	(D)	(D)
Columbian concentrates (columbian content)	Mil. lb.	15.1	14.8	13.3	13.8	(NA)	-	(NA)	(NA)
Copper [3]	Mil. metric ton	7.4	8.0	8.7	8.8	16	14	18	18
Gold	Metric ton	1,219	1,532	2,127	2,112	2	5	14	14
Iron ore	Mil. metric ton	891	861	929	901	8	6	6	6
Lead [3]	1,000 metric ton	3,424	3,431	3,390	3,316	17	12	15	14
Mercury	1,000 flasks [4]	6.8	6.1	5.1	4.5	16	9	(NA)	(NA)
Molybdenum [3]	Mil. lb.	111	96	122	112	62	50	50	48
Nickel [3]	1,000 short ton	779	813	1,029	1,029	2	1	(Z)	1
Silver	Mil. troy oz	10.7	13.1	15.1	14.7	9	9	14	13
Tantalum concentrates (tantalum content)	Mil. lb.	0.5	0.3	0.4	0.4	(NA)	-	(NA)	(NA)
Titanium concentrates:									
Ilmenite	Mil. short ton	3.7	3.5	4.0	3.5	14	(D)	(D)	(D)
Tungsten	1,000 metric ton	51.9	46.6	51.9	43.0	5	2	(D)	(D)
Vanadium [3]	1,000 short ton	36.8	30.2	30.6	26.4	12	(D)	(D)	(D)
Zinc [3]	Mil. metric ton	6.3	6.8	7.0	7.0	6	4	7	8
Metals, smelter basis:									
Aluminum	1,000 metric ton	15,383	15,398	17,977	18,194	30	23	23	23
Cadmium	1,000 metric ton	18.2	18.9	20.5	20.7	9	8	8	8
Copper	Mil. metric ton	7.7	8.6	9.1	9.1	14	14	16	16
Iron, pig (incl. ferroalloys)	Mil. short ton	514	499	533	509	12	9	9	9
Lead	1,000 metric ton	5,397	5,641	5,942	5,942	23	20	23	22
Magnesium	1,000 short ton	316	325	354	339	49	42	39	39
Steel ingots and castings	Mil. short ton	717	718	771	734	14	11	12	11
Tin	1,000 metric ton	251	193	223	205	1	2	-	-
Zinc	1,000 metric ton	6,049	6,786	7,041	7,041	6	5	5	5

- Represents or rounds to zero. D Withheld to avoid disclosing company data. NA Not available. Z Less than half the unit of measure. [1] Source: Energy Information Administration, *International Energy Annual*. [2] For fiscal years ending in year shown; see text, section 9. U.S. production includes Puerto Rico. [3] Content of ore and concentrate. [4] 76-lb. flasks.

Source: Except as noted, U.S. Bureau of Mines, *Annual Reports*.

No. 1192. Federal Strategic and Critical Materials Inventory: 1980 to 1991

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

MINERAL	Unit	QUANTITY [1]				VALUE (mil. dol.)			
		1980	1985	1990	1991	1980	1985	1990	1991
Tin	1,000 metric ton	200	185	169	163	3,158	2,324	962	914
Silver	1,000 troy oz	139,500	136,006	92,151	83,951	2,288	801	374	330
Cobalt	Mil. lb.	41	53	53	53	1,020	590	443	1,609
Bauxite [2, 3]	1,000 lg. ton	14,333	17,957	18,033	18,033	583	871	888	827
Manganese [3]	1,000 sh. ton	5,130	4,470	4,017	3,918	599	520	962	1,000
Tungsten [4]	Mil. lb.	97	87	82	82	817	369	253	343
Zinc	1,000 sh. ton	380	378	379	379	317	268	483	441
Titanium	1,000 sh. ton	43	48	37	37	432	405	402	402
Platinum	1,000 troy oz	466	466	453	453	215	154	186	162
Chromium [5]	1,000 sh. ton	804	854	1,074	1,121	773	836	917	924
Diamonds: Stones	Carat	19,224	12,549	7,777	7,777	349	336	267	267
Industrial, bort.	Carat	23,693	22,001	17,353	14,021	73	39	16	13

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

Source: U.S. Defense Logistics Agency, *Statistical Supplement, Stockpile Report to the Congress* (AP-3).

No. 1193. Federal Strategic and Critical Materials—Summary: 1989 to 1991

ITEM	Unit	Tin	Silver	Cobalt	Bauxite	Manganese	Tungsten	Zinc	Titanium	Platinum	Chromium	DIAMONDS	
												Stones	Industrial bort
Production:													
1989	1,000 metric tons.	[1]11.0	2.0	1.2	(Z)	-	(D)	260	25.2	[2]1,430	99	-	(D)
1990	1,000 metric tons.	[1]13.2	2.1	1.2	(Z)	-	(D)	263	24.7	[2]1,810	94	-	[3]90.0
1991	1,000 metric tons.	[1]13.0	1.8	1.6	(Z)	-	(D)	253	13.7	[2]1,730	90	-	[3]90.0
Imports:													
1989	1,000 metric tons.	[1]34.0	3.3	6.2	11,603	579	7.9	790	0.9	[2]113,278	379	[3]8.8	[3]61.6
1990	1,000 metric tons.	[1]33.8	3.3	6.4	12,987	307	6.4	723	1.1	[2]125,354	346	[3]11.0	[3]85.4
1991	1,000 metric tons.	[1]29.1	4.2	6.9	12,305	234	7.8	637	0.6	[2]125,661	309	[3]7.6	[3]70.0
Export:													
1989	1,000 metric tons.	0.9	1.3	0.9	57	52	0.2	136	13.3	[2]38,301	25	[3]2.8	[3]78.2
1990	1,000 metric tons.	0.7	1.8	1.3	64	70	0.1	128	15.8	[2]55,044	14	[3]1.7	[3]71.0
1991	1,000 metric tons.	1.0	1.7	1.5	58	66	-	112	12.1	[2]39,624	31	[3]2.9	[3]78.8
Consumption:													
1989	1,000 metric tons.	47.6	[4]5.1	7.2	4,517	559	10.5	1,060	24.9	[2]101,209	452	[3]6.6	[3]75.8
1990	1,000 metric tons.	45.5	[4]4.0	7.6	4,570	497	8.4	992	23.2	[2]117,043	447	[3]9.8	[3]112.7
1991	1,000 metric tons.	48.7	[4]3.8	7.8	4,609	472	11.8	933	13.6	[2]113,038	366	[3]5.0	[3]89.1
Net import reliance:													
1989	Percent	77.0	(5)	83.0	96.0	100.0	84.0	61.0	4.0	90.0	76.0	91.0	(5)
1990	Percent	71.0	(5)	84.0	98.0	100.0	81.0	41.0	(5)	88.0	79.0	95.0	13.0
1991	Percent	74.0	(5)	80.0	100.0	100.0	91.0	24.0	4.0	89.0	75.0	94.0	(5)
Stocks, end of year:													
1989	1,000 metric tons.	14.7	8.3	4.6	2,500	470	1.3	91	2.1	[2]32,543	65	(NA)	(NA)
1990	1,000 metric tons.	17.3	9.2	3.2	2,300	379	1.1	87	3.3	[2]30,324	55	(NA)	(NA)
1991	1,000 metric tons.	13.8	9.4	2.4	2,600	275	1.8	79	2.9	[2]24,313	50	(NA)	(NA)
World production:													
1991	1,000 metric tons.	197.0	14.7	26.6	109,000	22,000	43.0	7,282	56.0	[3]292,000	13,236	(NA)	[2]55.9

- Represents or rounds to zero. D Withheld to avoid disclosure of individual companies. NA Not available. [1] Production from scrap. [2] Kilograms. [3] Million carats. [4] Apparent demand. [5] Net importer.

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

No. 1194. Selected Mineral and Metal Products—Quantity and Value of Imports and Exports: 1985 to 1991

[Imports represent imports for consumption. Exports include shipments under foreign aid programs. Includes trade of Puerto Rico with foreign countries. Beginning 1989, import and export data are not necessarily comparable to prior data due to change in tariff schedule to Harmonized System]

PRODUCT	Unit	QUANTITY				VALUE (mil. dol.)			
		1985	1989	1990	1991	1985	1989	1990	1991
IMPORTS									
Petroleum (crude) [1]	Mil. bbl	1,625	2,128	2,222	2,124	22,606	35,041	43,833	37,123
Gem stones: Diamonds	Mil. carat	8.2	10.1	7.5	8.5	3,007	4,358	3,955	3,992
Ores and concentrates:									
Chromium (Cr_2O_3 content)	1,000 metric ton	160	237	134	94	20	44	22	15
Copper	1,000 metric ton	2.9	46.5	91.5	60.8	2	51	131	69
Iron	Mil. metric ton	16.0	19.6	18.1	13.3	452	522	560	437
Tungsten	1,000 metric ton	4.7	7.9	6.4	7.8	37	45	31	43
Metals:									
Aluminum	1,000 metric ton	869	923	960	1,025	1,017	1,898	1,597	1,428
Cobalt [2]	1,000 metric ton	7.5	5.4	6.0	6.4	181	92	107	158
Copper refined ingots, etc.	1,000 metric ton	378	300	262	289	503	854	675	685
Gold (refined bullion)	Metric ton	198	97	65	147	2,109	1,199	795	1,722
Iron and steel products (major) [3]	Mil. metric ton	23.3	18.1	17.8	16.2	11,019	10,649	11,612	11,962
Platinum group [3]	Metric ton	124	113	125	126	1,026	1,382	1,906	1,743
Silver (bullion)	Metric ton	4,244	3,062	2,698	2,525	849	579	437	339
Zinc: Blocks, pigs, slabs	1,000 metric ton	611	712	632	549	508	1,184	992	620
EXPORTS									
Fuels: [1]									
Bituminous coal	Mil. sh. ton	84.0	90.8	95.3	98.4	3,862	4,243	4,464	4,588
Petroleum (crude)	Mil. bbl	6.0	3.8	8.0	2.7	117	62.1	198.6	54.1
Nonmetallic minerals:									
Gem stones: Diamonds	Mil. carat	2.4	1.1	1.2	1.8	571	1,244	1,433	1,383
Nitrogen compounds (maj.)	Mil. metric ton	9.8	12.5	11.9	13.9	1,553	(NA)	(NA)	(NA)
Phosphatic fertilizers [4]	Mil. metric ton	7.6	9.6	9.2	11.5	1,225	1,760	1,515	1,974
Metals:									
Aluminum: Ingots, slabs, crude	1,000 metric ton	347	593	684	793	442	1,260	1,169	1,274
Plates, sheets, bars, etc	1,000 metric ton	168	416	419	489	411	1,196	1,278	1,384
Gold (refined bullion)	Metric ton	90	124	141	174	919	1,490	1,719	2,039
Iron and steel products (major) [5]	Mil. metric ton	1.1	4.7	4.7	6.8	1,476	2,582	4,665	5,753
Magnesium [6]	1,000 metric ton	36.6	56.6	51.8	55.2	114	170	164	150
Molybdenum [6]	Metric ton	260	253	180	88	2	3	2	1
Silver (refined bullion)	Metric ton	392	430	736	787	82	78	120	115
Scrap exports:									
Aluminum	1,000 metric ton	374	575	537	461	351	769	719	542
Iron and steel	Mil. metric ton	9.2	11.3	11.7	9.5	940	1,785	1,653	1,253

NA Not available. [1] Source: U.S. Bureau of the Census, *U.S. Imports for Consumption and General Imports, TSUSA Commodity and Country*, FT 246, annual; and *U.S. Exports, Schedule B Commodity and Country*, FT 446, annual; 1989 and 1990, *U.S. Exports of Merchandise* and *U.S. Imports of Merchandise* compact discs, December issues. [2] Includes unwrought metal, waste and scrap. [3] Unwrought and semimanufactured, including unwrought sweepings waste and scrap. [4] Superphosphates and ammonium phosphates. [5] Metal and alloys, scrap, semimanufactured forms. [6] Metals and alloys, crude and scrap.

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

No. 1195. Mineral Industries—Lost Workday Injuries and Fatalities: 1985 to 1991

[Excludes office workers. Lost workday injuries are nonfatal occurrences that result in days away from work, days of restricted work activity or a permanent disability. Data for all years includes injuries to independent contractors at mine sites. Rates for the noncoal industries are based only on employment and hours worked by mine employees. See also *Historical Statistics, Colonial Times to 1970*, series M 271-286]

ITEM	COAL MINING			QUARRYING; RELATED INDUSTRY [1]			METAL; NONMETAL MINING [2]		
	1985	1990	1991	1985	1990	1991	1985	1990	1991
Injuries, total	9,141	12,292	11,353	2,571	3,812	3,519	2,234	3,804	3,598
Fatal	68	66	61	26	18	18	22	26	22
Rate per million work-hours:									
Fatal	0.20	0.022	0.024	0.19	0.13	0.14	0.17	0.17	0.15
Nonfatal	26.8	41.5	41.5	18.7	28.2	28.0	16.9	24.7	24.1
Fatalities per 1,000 employed [3]	0.36	0.41	0.41	0.37	0.27	0.24	0.31	0.34	0.30

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

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

No. 1196. Net U.S. Imports of Selected Minerals and Metals as Percent of Apparent Consumption, 1980 to 1991, and by Major Foreign Sources, 1982 to 1992

[**In percent.** Figures based on net imports which equal the difference between imports and exports plus or minus government stockpile and industry stock changes]

MINERAL	1980	1985	1986	1989	1990	1991	1992, est.	Rank of major foreign sources, 1983-91
Columbium	100	100	100	100	100	100	100	Brazil, Canada, Thailand.
Manganese	98	100	100	100	100	100	100	South Africa, France, Gabon.
Mica (sheet)	100	100	100	100	100	100	100	India, Belgium, France.
Strontium	100	100	100	100	100	100	100	Mexico, Spain.
Bauxite [1]	94	96	97	96	98	100	100	Australia, Guinea, Jamaica.
Asbestos	78	65	75	90	90	95	95	Canada, South Africa.
Platinum group	87	92	91	90	88	89	94	So. Africa, United Kingdom, U.S.S.R.
Tantalum	90	89	86	86	86	86	87	Thailand, Germany, Brazil.
Cobalt	93	94	87	83	84	80	76	Zaire, Zambia, Canada.
Chromium	91	75	78	78	79	75	74	South Africa, Turkey, Zimbabwe.
Tungsten	53	68	86	84	81	91	85	China, Bolivia, Canada.
Nickel	76	71	74	71	74	71	64	Canada, Norway, Australia.
Tin	79	72	78	77	71	74	73	Brazil, Thailand, Malaysia.
Barium (Barite)	44	74	76	78	71	66	53	China, Morocco, India.
Potassium (Potash)	65	76	71	65	68	67	67	Canada, Israel, U.S.S.R.
Antimony	47	63	65	56	51	53	58	China, South Africa.
Cadmium	55	57	64	48	62	48	49	Canada, Australia, Mexico.
Selenium	59	(D)	52	55	46	50	48	Canada, United Kingdom, Japan.
Petroleum [2 3]	37	27	38	42	42	40	(NA)	Saudi Arabia, Venezuela, Canada.
Zinc	60	70	69	61	[4]41	[4]24	[4]34	Canada, Mexico, Peru.
Gypsum	35	38	36	35	36	31	35	Canada, Mexico, Spain.
Iron ore	25	21	18	22	21	9	12	Canada, Brazil, Venezuela.
Iron and steel	13	22	19	13	13	12	12	E.E.C. [5], Japan, Canada.
Sulfur	14	3	16	9	11	16	18	Canada, Mexico.
Natural gas [3]	5	5	7	7	8	8	(NA)	Canada, Algeria.
Copper	16	28	13	7	3	[6]	3	Chile, Canada, Peru.
Aluminum	[6]	16	7	[6]	[6]	[6]	[6]	Canada, Japan, Venezuela.
Silver	7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	Canada, Mexico, Peru.
Mercury	27	(NA)	(NA)	(D)	(D)	(D)	(D)	Spain, China, Japan.
Titanium (Ilmenite)	32	(D)	(D)	(D)	(D)	(D)	(D)	Australia, Canada, South Africa.
Vanadium	35	(D)	(D)	(D)	(D)	(D)	(D)	South Africa, E.E.C. [5]

D Withheld to avoid disclosure. NA Not available. [1] Includes alumina. [2] Includes crude and products. [3] Source: Energy Information Administration, *Annual Energy Review*, and *Monthly Energy Review*. [4] Effect of sharp rise in exports of concentrates. If calculated on a refined zinc-only basis, reliance would be about the same as pre-1990 level; 1990, 64%; 1991, 61%; and 1992, 64%. [5] European Economic Community. [6] Net exports.

Source: Except as noted, U.S. Bureau of Mines, *Mineral Commodity Summaries;* import and export data from U.S. Bureau of the Census.

No. 1197. Federal Offshore Leasing, Exploration, Production, and Revenue: 1980 to 1991

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

ITEM	Unit	1980	1984	1985	1986	1987	1988	1989	1990	1991
Tracts offered	Number	483	27,984	15,754	10,724	10,926	33,376	11,013	10,459	16,800
Tracts leased	Number	218	1,400	667	142	640	1,856	1,049	825	676
Acres offered	1,000	2,563	154,384	87,029	58,670	59,762	85,366	60,096	56,788	80,288
Acres leased	1,000	1,134	7,495	3,512	734	45,075	10,040	5,580	4,263	3,416
Bonus paid for leased tracts	Bil. dol.	4.2	4.0	1.5	0.2	0.5	1.2	0.6	0.6	0.4
New wells being drilled:										
Active	Number	191	253	195	95	142	116	123	120	64
Suspended	Number	739	313	348	279	265	289	361	266	249
Wells completed	Number	9,638	13,012	12,285	12,536	12,736	12,827	12,938	13,167	13,184
Wells plugged and abandoned	Number	8,057	9,903	10,487	11,909	12,373	13,164	13,846	14,677	15,430
Revenue, total [1]	Bil. dol.	6.4	8.0	5.2	2.8	2.9	3.4	2.8	3.3	2.8
Bonuses	Bil. dol.	4.2	4.0	1.5	0.2	0.5	1.2	0.6	0.6	0.4
Oil and gas royalties [1]	Bil. dol.	2.1	4.0	3.6	2.6	2.3	2.1	2.1	2.6	2.3
Rentals	Bil. dol.	(Z)	(Z)	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Production, value [2]	Bil. dol.	13.1	24.0	22.2	15.7	14.6	12.9	13.0	16.5	14.2
Crude oil	Bil. dol.	4.8	9.6	9.6	5.8	5.6	4.2	4.4	5.9	5.2
Condensate	Bil. dol.	0.4	1.2	1.0	0.7	0.7	0.7	0.8	1.1	1.1
Natural gas	Bil. dol.	7.9	13.2	11.5	9.3	8.1	7.9	7.8	9.5	7.9
Production: [2]										
Crude oil	Mil. bbls.	259	330	352	350	325	279	260	274	263
Condensate	Mil. bbls.	19	40	37	39	41	41	45	51	52
Natural gas	Bil. cu. ft	4,641	4,537	4,000	3,949	4,425	4,310	4,200	5,093	4,516

Z Less than $50 million. [1] Includes condensate royalties. [2] Production value is value at time of production, not current value.

Source: U.S. Dept. of the Interior, Minerals Management Service, *Federal Offshore Statistics*, annual.

No. 1198. Petroleum Industry—Summary: 1980 to 1991

ITEM	Unit	1980	1984	1985	1986	1987	1988	1989	1990	1991, est.
Crude oil producing wells (Dec. 31)	1,000	548	621	647	623	620	612	603	602	614
Daily output per well	Bbl	15.9	14.3	13.9	13.9	13.5	13.5	12.6	12.2	12.0
Completed wells drilled, total	1,000	70	85	70	40	36	32	28	30	27
Crude oil	1,000	32	43	35	19	16	13	10	12	12
Gas	1,000	17	17	14	8	8	8	9	10	9
Dry	1,000	20	26	21	13	12	10	8	8	7
Crude oil production, total	Mil. bbl.	3,146	3,250	3,275	3,168	3,047	2,979	2,785	2,685	2,691
Value at wells	Bil. dol.	67.9	84.1	78.9	39.6	46.9	37.5	44.1	53.7	44.4
Average price per barrel	Dollars	21.59	25.88	24.09	12.51	15.40	12.58	15.86	20.03	16.50
Refinery input of crude oil	Mil. bbl.	4,934	4,408	4,381	4,641	4,692	4,848	4,891	4,895	4,855
Imports: Crude oil	Mil. bbl.	1,926	1,254	1,168	1,525	1,706	1,869	2,133	2,151	2,110
Refined petroleum products	Mil. bbl.	603	736	681	747	731	840	809	775	655
Import value	Mil. dol.	74,440	54,310	50,368	34,790	41,495	39,981	49,028	60,747	50,390
Export value	Mil. dol.	2,871	4,801	5,121	3,883	3,922	2,802	2,859	4,419	4,710
Operable refineries	Number	319	247	223	216	219	213	204	205	202
Capacity (Jan. 1)	Mil. bbl.	6,584	5,906	5,716	5,643	5,681	5,825	5,714	5,683	5,723
Output	Mil. bbl.	5,352	5,007	5,019	5,301	5,339	5,498	5,539	5,570	5,559
Utilization rate	Percent	75.4	76.2	77.6	82.9	83.1	84.7	86.6	87.1	85.9
Proved reserves	Bil. bbl.	29.8	28.4	28.4	26.9	27.3	26.8	26.5	26.3	24.7

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

No. 1199. Crude Petroleum and Natural Gas Wells Drilled—Summary: 1980 to 1991

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

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991
Wells drilled	Number	62,011	67,536	77,210	67,821	37,173	33,041	29,741	26,693	28,513	27,194
Offshore	Number	1,272	1,270	1,421	1,247	898	709	866	746	704	718
Footage drilled	Mil. ft.	296.0	301.2	350.6	314.5	176.3	157.4	150.2	131.5	143.8	138.7
Drilling cost	Mil. dol.	22,800	25,105	25,206	23,697	13,552	9,239	10,550	9,669	10,937	11,461
Average depth per well	Feet	4,773	4,460	4,541	4,637	4,742	4,762	5,051	4,925	5,043	5,100
Average cost per well	$1,000	368	372	326	349	365	280	355	362	384	421
Offshore	$1,000	3,024	3,906	3,536	4,073	4,004	2,896	3,112	3,197	3,112	3,550
Average cost per foot	Dollars	77.02	83.34	71.90	75.35	76.88	58.71	70.23	73.55	76.07	82.64

Source: American Petroleum Institute, *Joint Association Survey of Drilling Costs*, annual.

No. 1200. Domestic Motor Gasoline Supply: 1980 to 1991

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

ITEM	1980	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Supply [1]	6,579	6,539	6,622	6,693	6,831	7,034	7,206	7,336	7,328	7,235	7,188
Unleaded	3,067	3,409	3,647	3,987	4,406	4,854	5,470	5,995	6,507	6,850	6,935
Production	6,506	6,338	6,340	6,453	6,419	6,752	6,841	6,956	6,963	6,959	6,975
Net imports	139	177	237	293	371	293	349	383	330	287	215
Stocks (mil. bbl.) [2]	261	235	222	243	223	233	226	228	213	220	219

[1] Production plus net imports less net increase in primary stocks. [2] End of year, includes motor gasoline blending components.

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

No. 1201. Natural Gas Plant Liquids—Production and Value: 1970 to 1991

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

ITEM	Unit	1970	1975	1980	1985	1986	1987	1988	1989	1990	1991
Field production [1]	Mil. bbl	606	596	576	587	566	582	595	564	566	606
Pentanes plus	Mil. bbl	197	149	126	103	98	106	111	113	112	118
Liquefied petroleum gases	Mil. bbl	400	444	441	479	466	474	483	451	454	488
Natural gas processed	Tril. cu. ft.	19	18	15	13	[2]13	13	13	13	15	16

[1] Includes other finished petroleum products, not shown separately. [2] Estimated.

Source: Through 1975, U.S. Bureau of Mines, *Minerals Yearbook*; thereafter, U.S. Energy Information Administration, *Energy Data Reports, Petroleum Statement Annual, Petroleum Supply Annual*, and *Natural Gas Annual*.

No. 1202. World Crude Oil Production: 1980 to 1991

[In thousands of barrels]

COUNTRY	1980	1985	1986	1987	1988	1989	1990	1991
Total	**59,599**	**53,981**	**56,227**	**56,601**	**58,662**	**59,773**	**60,471**	**60,221**
Algeria	1,106	1,037	945	1,048	1,040	1,095	1,175	1,230
Iraq	2,514	1,433	1,690	2,079	2,685	2,897	2,040	298
Kuwait	1,656	1,023	1,419	1,585	1,492	1,783	1,175	187
Libya	1,787	1,059	1,034	972	1,175	1,150	1,375	1,483
Qatar	472	301	308	293	346	380	406	390
Saudi Arabia	9,900	3,388	4,870	4,265	5,086	5,064	6,410	8,181
United Arab Emirates	1,709	1,193	1,330	1,541	1,565	1,860	2,117	2,447
Indonesia	1,577	1,325	1,390	1,343	1,342	1,409	1,462	1,613
Iran	1,662	2,250	2,035	2,298	2,240	2,810	3,088	3,334
Nigeria	2,055	1,495	1,467	1,341	1,450	1,716	1,810	1,892
Venezuela	2,168	1,677	1,787	1,752	1,903	1,907	2,137	2,375
Canada	1,435	1,471	1,474	1,535	1,616	1,560	1,553	1,548
Mexico	1,936	2,745	2,435	2,548	2,512	2,520	2,553	2,676
United Kingdom	1,622	2,530	2,539	2,406	2,232	1,802	1,820	1,797
United States	8,597	8,971	8,680	8,349	8,140	7,613	7,355	7,417
China	2,114	2,505	2,620	2,690	2,730	2,757	2,774	2,805
U.S.S.R (former)	11,706	11,595	11,895	11,985	11,978	11,625	10,880	9,887
Other	5,204	7,540	7,850	8,242	8,669	9,338	9,785	10,076
Arab OPEC	*19,144*	*9,434*	*11,596*	*11,783*	*13,389*	*14,229*	*14,698*	*14,216*
Total OPEC	*26,985*	*16,634*	*18,734*	*18,946*	*20,785*	*22,558*	*23,750*	*24,016*

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

No. 1203. World Natural Gas Production: 1980 to 1989

[In quadrillion Btu's]

REGION AND COUNTRY	1980	1982	1983	1984	1985	1986	1987	1988	1989
World total	**52.79**	**53.74**	**54.06**	**59.12**	**61.37**	**62.56**	**65.58**	**69.04**	**71.11**
North America	23.53	21.77	20.11	21.54	20.80	20.13	20.88	21.87	22.30
Canada	2.64	2.44	2.52	2.61	2.98	2.77	3.00	3.47	3.59
Mexico	0.97	1.07	1.06	1.00	0.92	0.89	0.83	0.89	0.92
United States	19.91	18.26	16.53	17.93	16.91	16.47	17.05	17.52	17.80
Central and South America	1.39	1.51	1.55	1.78	1.84	1.86	1.82	2.02	2.09
Argentina	0.26	0.37	0.41	0.46	0.47	0.51	0.49	0.62	0.65
Bolivia	0.07	0.08	0.08	0.09	0.08	0.09	0.09	0.09	0.09
Brazil	0.04	0.05	0.06	0.08	0.10	0.09	0.11	0.10	0.10
Columbia	0.11	0.12	0.12	0.16	0.16	0.16	0.16	0.17	0.17
Trinidad and Tobago	0.08	0.11	0.13	0.20	0.23	0.16	0.15	0.16	0.17
Venezuela	0.58	0.68	0.66	0.69	0.70	0.77	0.75	0.79	0.82
Western Europe	7.02	6.50	6.39	6.65	6.83	6.77	7.12	6.93	7.17
France	0.24	0.20	0.21	0.20	0.17	0.13	0.13	0.10	0.10
Germany, West	0.63	0.56	0.58	0.62	0.57	0.51	0.53	0.56	0.57
Italy	0.43	0.52	0.47	0.50	0.52	0.58	0.59	0.60	0.62
Netherlands	3.21	2.54	2.45	2.52	2.59	2.44	2.53	2.33	2.41
Norway	1.01	1.02	0.98	1.06	1.07	1.09	1.22	1.20	1.24
United Kingdom	1.31	1.45	1.49	1.51	1.61	1.70	1.79	1.72	1.78
Yugoslavia	0.07	0.07	0.06	0.08	0.09	0.10	0.09	0.12	0.12
Eastern Europe	16.24	18.57	19.80	21.47	23.28	24.70	25.74	27.45	28.42
Germany, East	0.12	0.11	0.15	0.17	0.18	0.16	0.12	0.16	0.17
Hungary	0.23	0.26	0.26	0.27	0.29	0.28	0.25	0.25	0.26
Poland	0.23	0.20	0.20	0.22	0.23	0.21	0.20	0.21	0.21
Romania	1.35	1.52	1.57	1.50	1.43	1.50	1.48	1.44	1.49
U.S.S.R.	14.28	16.44	17.58	19.27	21.12	22.50	23.63	25.34	26.23
Middle East	1.40	1.29	1.33	2.10	2.50	2.76	3.18	3.49	3.62
Bahrain	0.10	0.14	0.15	0.14	0.17	0.19	0.23	0.17	0.18
Iran	0.26	0.26	0.33	0.50	0.63	0.57	0.60	0.75	0.77
Kuwait	0.15	0.14	0.13	0.15	0.15	0.18	0.20	0.24	0.25
Qatar	0.19	0.19	0.18	0.22	0.20	0.20	0.21	0.24	0.25
Saudi Arabia	0.39	0.21	0.20	0.65	0.75	0.93	0.99	1.08	1.11
United Arab Emirates	0.21	0.21	0.28	0.36	0.51	0.56	0.71	0.69	0.71
Africa	0.73	1.31	1.79	1.91	1.97	1.99	2.23	2.32	2.40
Algeria	0.44	1.00	1.39	1.44	1.44	1.41	1.62	1.68	1.74
Egypt	0.03	0.10	0.12	0.15	0.18	0.21	0.23	0.26	0.26
Libya	0.19	0.13	0.15	0.17	0.19	0.21	0.20	0.20	0.21
Nigeria	0.04	0.05	0.09	0.10	0.11	0.12	0.14	0.14	0.15
Far East and Oceania	2.49	2.79	3.10	3.66	4.16	4.35	4.63	4.95	5.12
Australia	0.33	0.40	0.40	0.42	0.47	0.50	0.51	0.52	0.54
Bangladesh	0.05	0.06	0.07	0.09	0.10	0.11	0.13	0.16	0.16
Brunei	0.35	0.36	0.37	0.34	0.33	0.33	0.34	0.34	0.35
China	0.53	0.40	0.45	0.46	0.48	0.51	0.52	0.53	0.55
India	0.05	0.09	0.11	0.12	0.14	0.19	0.23	0.32	0.33
Indonesia	0.66	0.70	0.81	1.11	1.29	1.24	1.35	1.41	1.45
Japan	0.04	0.07	0.08	0.09	0.10	0.08	0.08	0.08	0.08
Malaysia	0.04	0.06	0.15	0.34	0.45	0.55	0.57	0.60	0.62
New Zealand	0.05	0.10	0.11	0.11	0.13	0.16	0.15	0.19	0.20
Pakistan	0.28	0.34	0.33	0.34	0.36	0.38	0.41	0.43	0.45
Thailand	-	0.05	0.06	0.07	0.13	0.12	0.14	0.20	0.21

- Represents or rounds to zero.
Source: U. S. Energy Information Administration, *1989 International Energy Annual*, February 1991.

No. 1204. U.S. Petroleum Balance: 1980 to 1991

[In millions of barrels]

ITEM	1980	1985	1986	1987	1988	1989	1990	1991
Petroleum products supplied	**6,242**	**5,740**	**5,942**	**6,083**	**6,308**	**6,324**	**6,201**	**6,101**
New supply of products	6,249	5,676	5,995	6,053	6,290	6,270	6,259	6,110
Production of products	5,765	5,363	5,604	5,680	5,849	5,874	5,934	5,933
Crude input to refineries	4,934	4,381	4,641	4,692	4,835	4,891	4,894	4,855
Oil, field production	3,146	3,275	3,168	3,047	2,979	2,779	2,685	2,707
Alaska	592	666	681	716	738	684	647	656
Lower 48 States	2,555	2,608	2,487	2,331	2,241	2,095	2,037	2,050
Net imports	1,821	1,094	1,468	1,651	1,807	2,081	2,112	2,068
Imports (gross excluding SPR) [1]	1,910	1,125	1,507	1,679	1,845	2,112	2,142	2,111
SPR [1] imports	16	43	18	27	19	20	10	-
Exports	-105	75	56	55	57	52	40	42
Other sources	33	12	4	7	57	32	98	80
Natural gas plant liquids (NGPL), supply	577	604	575	585	593	563	574	613
Other liquids	253	378	388	403	418	420	465	466
Net imports of refined products	484	313	391	373	441	396	326	177
Imports	578	523	621	596	681	656	598	500
Exports	94	210	229	223	240	260	272	323
Stock withdrawal, refined products	-7	64	-53	30	17	53	-59	-10
Ending stocks, all oils	1,392	1,519	1,593	1,607	1,597	1,581	1,621	1,617
Crude oil and lease condensate	358	321	331	349	330	341	323	325
Strategic Petroleum Reserve (SPR) [1]	108	493	512	541	560	580	586	569
Unfinished oils	124	107	94	93	100	(NA)	(NA)	(NA)
Gasoline blending components	17	33	39	38	39	(NA)	(NA)	(NA)
Pentanes plus	(NA)	8	7	7	7	(NA)	(NA)	(NA)
Finished refined products	785	557	609	580	562	580	712	724
PRODUCT TYPE SUPPLIED								
Total products	**6,242**	**5,740**	**5,942**	**6,083**	**6,326**	**6,324**	**6,201**	**6,101**
Finished motor gasoline	2,407	2,493	2,567	2,630	2,678	2,675	2,641	2,623
Distillate fuel oil	1,049	1,047	1,064	1,086	1,140	1,152	1,103	1,066
Residual fuel oil	918	439	518	462	5,030	500	449	423
Liquified petroleum gases [2]	414	584	552	588	604	609	568	616
Pentanes plus, other liquids, etc	1,454	1,155	1,223	1,304	1,369	1,378	1,431	1,365
Crude oil	(NA)	22	18	12	15	10	9	7

-Represents zero. NA Not available. [1] SPR=Strategic petroleum reserve. (See table 949.) [2] Includes ethane.

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

No. 1205. Crude Petroleum and Natural Gas—Production, by State: 1985 to 1991

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

STATE	CRUDE PETROLEUM						NATURAL GAS MARKETED PRODUCTION [1]					
	Quantity (mil. bbl.)			Value (mil. dol.)			Quantity (bil. cu. ft.)			Value (mil. dol.)		
	1985	1990	1991	1985	1990	1991	1985	1990	1991	1985	1990	1991
Total [2]	**3,274**	**2,685**	**2,707**	**78,884**	**53,772**	**44,666**	**17,270**	**18,594**	**18,523**	**43,343**	**31,658**	**30,327**
AL	22	18	19	579	387	355	107	135	171	398	373	398
AK	666	658	656	10,655	10,086	7,659	321	403	438	236	554	647
AR	19	10	10	443	222	186	155	175	165	393	360	317
CA	424	322	320	8,386	5,732	4,358	491	363	378	1,653	857	929
CO	30	31	31	758	722	626	178	243	286	517	377	404
FL	11	6	5	(NA)	(NA)	(NA)	11	6	5	26	15	12
IL	30	20	19	795	467	385	1	1	(Z)	4	1	1
IN	5	3	3	134	73	61	(Z)	(Z)	(Z)	1	1	(Z)
KS	75	59	60	1,939	1,359	1,130	528	574	565	671	893	776
KY	8	5	6	201	124	109	73	75	79	174	169	160
LA	508	148	147	5,387	3,409	2,962	5,014	5,242	5,034	13,355	9,587	8,718
MI	27	20	18	726	458	348	132	140	196	475	420	546
MS	31	30	27	796	630	478	144	95	108	456	167	179
MT	30	20	20	734	429	356	52	50	52	125	90	87
NE	7	5	6	163	119	110	2	1	1	6	2	2
NM	79	66	70	2,028	1,472	1,363	905	965	1,038	2,370	1,629	1,422
NY	1	(Z)	(Z)	25	9	8	32	25	23	106	55	49
ND	51	39	36	1,307	849	674	73	52	54	138	93	89
OH	15	8	9	361	196	179	182	155	148	560	393	352
OK	163	117	108	4,256	2,690	2,118	1,936	2,258	2,154	4,930	3,548	3,161
PA	5	2	3	114	54	49	150	178	153	474	417	336
TX	889	674	683	23	15,060	12,997	6,053	6,343	6,334	14,097	9,939	10,069
UT	41	23	25	773	524	489	83	146	145	293	249	223
WV	4	2	2	86	43	(NA)	145	178	199	558	568	590
WY	129	103	100	3,061	2,169	1,732	417	736	777	1,252	856	823

NA Not available. Z Less than 500 million cubic feet or less than $500,000. [1] Excludes nonhydrocarbon gases. [2] Includes other States not shown separately. State production does not include State offshore production.

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

No. 1206. Natural Gas—Supply, Consumption, Reserves, and Marketed Production: 1970 to 1991

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

ITEM	Unit	1970	1975	1980	1984	1985	1986	1987	1988	1989	1990	1991
Producing wells (yearend)	1,000	117	130	182	234	243	242	249	257	262	270	277
Production value at wells	Bil. dol	3.7	8.9	32.1	48.5	43.2	32.6	29.0	30.3	30.6	31.8	30.3
Avg. per 1,000 cu. ft	Dollars	0.17	0.44	1.59	2.66	2.51	1.94	1.67	1.69	1.69	1.71	1.64
Proved reserves [1]	Tril. cu. ft	291	228	199	198	193	192	187	168	167	169	167
Marketed production [2]	Tril. cu. ft	21.9	20.1	20.2	18.3	17.3	16.9	17.4	17.9	18.1	18.6	18.5
Drawn from storage	Tril. cu. ft	1.5	1.8	2.0	2.1	2.4	1.8	1.9	2.3	2.9	2.0	2.8
Imports [3]	Tril. cu. ft	0.8	1.0	1.0	0.8	1.0	0.8	1.0	1.3	1.4	1.5	1.8
Consumption, total	Tril. cu. ft	21.1	19.5	19.9	18.0	17.3	16.2	17.2	18.0	18.8	18.7	19.1
Residential	Tril. cu. ft	4.8	4.9	4.8	4.6	4.4	4.3	4.3	4.6	4.8	4.4	4.6
Commercial [4]	Tril. cu. ft	2.4	2.5	2.6	2.5	2.4	2.3	2.4	2.7	2.7	2.6	2.7
Industrial	Tril. cu. ft	9.3	8.4	8.2	7.2	6.9	6.5	7.1	7.5	7.9	8.5	8.4
Lease and plant fuel	Tril. cu. ft	1.4	1.4	1.0	1.1	1.0	0.9	1.2	1.1	1.1	1.2	1.2
Other industrial	Tril. cu. ft	7.9	7.0	7.2	6.2	5.9	5.6	6.0	6.4	6.8	7.0	7.2
Electric utilities [5]	Tril. cu. ft	3.9	3.2	3.7	3.1	3.0	2.6	2.8	2.6	2.8	2.8	2.8
Transportation [6]	Tril. cu. ft	0.7	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.7	0.6
Extraction losses [6]	Tril. cu. ft	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Exports	Tril. cu. ft	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Additions to storage [7]	Tril. cu. ft	1.9	2.1	2.0	2.3	2.2	2.0	1.9	2.2	2.5	2.5	2.7
World production (dry)	Tril. cu. ft	(NA)	44.1	53.1	59.7	62.0	63.3	66.2	69.8	71.9	74.3	(NA)
U.S. production (dry)	Tril. cu. ft	21.0	19.2	19.4	17.4	16.4	16.0	16.5	17.0	17.3	17.8	17.7
Percent U.S. of world	Percent	56.0	43.6	36.5	29.2	26.4	25.3	25.0	24.4	24.0	(NA)	(NA)

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

Source: Except as noted, U.S. Energy Information Administration, *Annual Energy Review, International Energy Annual, Natural Gas Annual*, Volume I and II and *Monthly Energy Review*, August 1991.

No. 1207. Liquefied Petroleum Gases—Summary: 1980 to 1991

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

ITEM	1980	1985	1990	1991	ITEM	1980	1985	1990	1991
Production	561	622	638	683	**Consumption**	538	584	568	616
At natural gas plants	441	479	456	488	Ethane [1] [2]	164	210	186	208
At refineries	121	143	182	196	Propane [1] [2]	298	322	335	358
Imports	79	68	68	54	Butane (incl. isobutane) [2]	76	52	47	50
Refinery input	85	111	107	111	Stocks, Dec. 31	116	74	98	92
Exports	9	23	14	15					

[1] Reported consumption of ethane-propane mixtures have been allocated 70 percent ethane and 30 percent propane. [2] Reported consumption of butane-propane mixtures have been allocated 60 percent butane and 40 percent propane.

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

No. 1208. World Coal Trade: 1980 to 1990

[In millions of short tons]

COUNTRIES	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Exporting countries, total [1]	277.2	288.4	292.0	284.5	332.9	370.2	376.3	383.0	415.0	423.5	440.2
United States	88.7	106.5	106.5	78.2	82.0	93.2	85.5	79.6	94.9	100.8	105.8
Australia	46.6	54.3	48.8	62.3	82.2	96.6	101.3	111.9	109.8	108.5	116.9
South Africa	30.7	33.3	30.5	32.7	40.9	49.8	50.1	46.9	47.4	51.6	54.5
Soviet Union	26.2	22.5	23.0	22.8	22.8	26.5	36.9	39.1	46.0	43.9	42.7
Germany [2]	13.8	13.1	11.2	11.5	12.4	10.5	7.9	6.9	5.5	5.9	6.0
Canada	16.1	17.9	16.6	18.6	26.8	30.3	28.6	29.5	35.0	36.1	34.2
Poland	34.6	16.6	30.6	38.7	47.2	39.7	37.9	34.2	35.5	31.8	61.8
China: Mainland	4.2	4.1	5.1	6.8	7.7	8.6	10.9	14.4	16.2	16.9	19.1
Importing countries, total [1]	277.2	288.4	292.0	284.5	332.9	370.2	376.3	383.0	415.0	423.5	440.2
Western Europe/Mediterranean	126.9	129.4	126.5	112.9	132.4	152.3	149.0	145.6	146.2	154.7	172.1
Japan	75.6	86.0	86.5	82.8	96.2	103.0	99.6	100.2	111.6	111.7	113.9
Eastern Europe	34.8	30.1	37.0	39.7	39.8	39.1	45.4	44.9	45.1	39.6	30.6
Canada	17.4	16.3	17.3	16.7	20.3	16.1	14.7	15.8	19.3	15.1	15.7

[1] Includes areas not shown separately. [2] Represents United Germany beginning, 1990.

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

No. 1209. Coal and Coke—Summary: 1970 to 1991

[Includes coal consumed at mines. Demonstrated coal reserve base for United States on Jan. 1, 1989, was an estimated 473 billion tons. Recoverability varies between 40 and 90 percent for individual deposits; 50 percent or more of overall U.S. coal reserve base is believed to be recoverable. See also *Historical Statistics, Colonial Times to 1970,* series M 93-126]

ITEM	Unit	1970	1980	1985	1987	1988	1989	1990	1991 [1]
Coal production, total [2]	**Mil. sh. tons**	**613**	**830**	**884**	**919**	**950**	**981**	**1,029**	**996**
Value	Mil. dol.	3,882	20,453	22,277	21,101	20,890	21,330	(NA)	(NA)
Anthracite production [3]	Mil. sh. tons	9.7	6.1	4.7	3.6	3.6	3.3	3.5	3.4
Bituminous coal and lignite: [3]									
Number of mines	Number	5,601	5,598	4,547	3,894	3,462	3,429	3,243	2,846
Production	Mil. sh. tons	603	824	879	915	947	977	1,026	993
Value, total	Mil. dol.	3,774	20,196	22,061	21,050	20,828	21,260	22,274	21,598
Average per ton	Dollars	6.26	24.52	25.10	23.00	22.00	21.76	21.71	21.75
Exports	Mil. sh. tons	71	90	93	80	95	101	106	109
Value	Mil. dol.	961	4,627	4,465	3,405	4,013	4,287	4,510	4,619
Imports	1,000 sh. tons	36	1,194	1,952	1,747	2,134	2,851	2,699	3,390
Method of mining:									
Underground	Mil. sh. tons	339	337	350	372	382	394	425	407
Surface	Mil. sh. tons	264	487	529	543	568	587	605	589
Percent of total prod	Percent	43.8	59.1	60.2	59.4	59.8	59.8	58.7	59.1
Value [4]	Mil. dol.	(Z)	30	70	(NA)	(NA)	(NA)	(NA)	(NA)
Consumption [4]	Mil. sh. tons	523	703	818	837	884	890	895	888
Electric power utilities	Mil. sh. tons	320	569	694	718	758	767	774	772
Industrial	Mil. sh. tons	184	126	116	112	118	118	116	109
Productivity average: [5]									
Daily employment	1,000	140	225	169	143	135	131	131	121
Days worked	Number	228	210	204	207	211	214	216	224
Tons per worker:									
Per day	Sh. tons	18.64	16.32	23.13	28.19	30.30	31.75	32.90	35.18
Per year	Sh. tons	4,296	3,427	4,719	5,835	6,393	6,795	7,106	7,880
Production, by State:									
Alabama	Mil. sh. tons	20.6	26.4	27.8	25.5	26.5	28.0	29.0	27.3
Illinois	Mil. sh. tons	65.1	62.5	59.2	59.2	58.6	59.3	60.4	60.3
Indiana	Mil. sh. tons	22.3	30.9	33.3	34.2	31.3	33.6	35.9	31.5
Kentucky	Mil. sh. tons	125.3	150.1	152.3	163.7	157.9	167.4	173.3	159.0
Montana	Mil. sh. tons	3.4	29.9	33.3	34.4	36.9	37.7	37.6	38.2
Ohio	Mil. sh. tons	55.4	39.4	35.6	35.6	34.0	33.7	35.3	30.6
Pennsylvania	Mil. sh. tons	90.2	93.1	71.4	66.4	67.1	70.6	70.5	65.4
Virginia	Mil. sh. tons	35.0	41.0	40.9	44.2	45.9	43.0	46.9	42.0
West Virginia	Mil. sh. tons	144.1	121.6	127.8	135.9	145.0	153.6	169.2	167.4
Wyoming	Mil. sh. tons	7.2	94.9	140.7	146.8	164.0	171.6	184.2	193.9
Other States	Mil. sh. tons	44.1	139.7	161.3	165.8	177.6	182.3	186.7	180.7
World production	Mil. sh. tons	3,295	4,103	4,783	4,994	5,109	5,253	5,211	(NA)
Coke production [6]	**Mil. sh. tons**	**66.5**	**46.1**	**28.7**	**28.0**	**32.4**	**33.0**	**27.6**	**24.0**
Oven coke [7]	Mil. sh. tons	65.7	46.1	28.7	28.0	32.4	33.0	27.6	24.0
Value of product at plant	Mil. dol.	2,193	6,029	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Coke and breeze	Mil. dol.	1,899	4,784	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Avg. market value per ton	Dollars	28	103	103	(NA)	(NA)	(NA)	(NA)	(NA)
Coal carbonized	Mil. sh. tons	96.5	66.7	41.1	37.0	41.9	41.4	38.9	33.9
Average value per ton	Dollars	12.47	56.26	54.30	46.55	47.70	47.50	47.73	48.88
Yield of coke from coal	Percent	69.1	69.2	69.8	75.9	77.3	79.8	71.0	71.0

NA Not available. Z Less than $500,000. [1] Preliminary. [2] Includes bituminous coal, lignite, and anthracite. [3] All domestic product data for 1970 is for mines producing 1,000 short tons or more per year; thereafter, data are for all mines. [4] Includes some categories not shown separately. [5] Data for 1970 are for mines producing 1,000 short tons or more per year; thereafter, for mines producing 10,000 short tons or more. Beginning 1985, includes anthracite. [6] Includes beehive coke. [7] Prior to 1980, excludes screenings or breeze; thereafter, includes beehive and other nonrecoverables.

Source: 1970, U.S. Bureau of Mines, *Minerals Yearbook;* thereafter, U.S. Energy Information Administration, *Coal Production,* annual; *Annual Energy Review,* and *Quarterly Coal Report.*

No. 1210. Uranium Concentrate (U_3O_8) Industry—Summary: 1980 to 1991

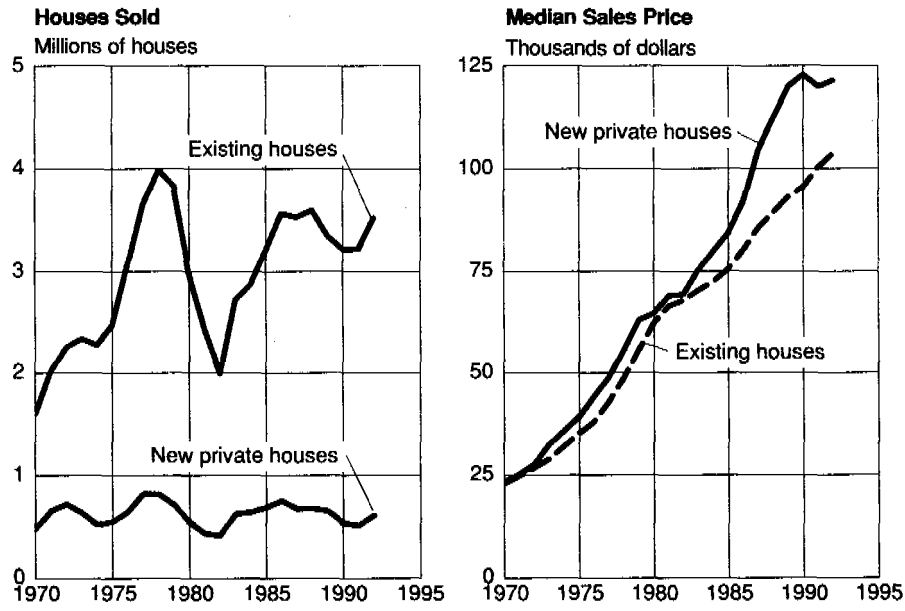
[Middle demand case. See table 962. See also *Historical Statistics, Colonial Times to 1970,* series M 266-267]

ITEM	Unit	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991
Production	1,000 sh. tons	21.9	10.6	7.4	5.6	6.8	6.5	6.5	6.9	4.4	4.0
Net imports (U_3O_8)	1,000 sh. tons	–1.1	2.4	5.2	3.2	6.4	7.5	6.4	5.6	12.1	9.8
Utility and Suppliers inventories (U_3O_8 equivalent)	1,000 sh. tons	54.4	80.0	[1]74.7	[1]68.3	[1]66.2	[1]64.5	[1]59.1	[1]54.9	45.6	36.7
Price (1988 dol./lb. U_3O_8):											
Long-term contract price	Dollars	41.4	31.7	26.4	24.7	19.3	18.5	(NA)	(NA)	(NA)	(NA)
Spot market price	Dollars	45.0	26.8	19.4	17.0	18.1	17.3	14.5	14.2	(NA)	(NA)
Delivered price	Dollars	39.9	44.6	[2]36.5	[2]33.6	[2]31.9	[2]19.6	[2]25.7	[2]27.8	(NA)	(NA)
Capital expenditures (1988 dollars)	Mil. dol.	1,107	78	43	37	29	63	36	35	(NA)	(NA)
Employment	1,000	19.9	5.6	3.6	2.4	2.1	2.0	2.1	1.6	1.3	1.0

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

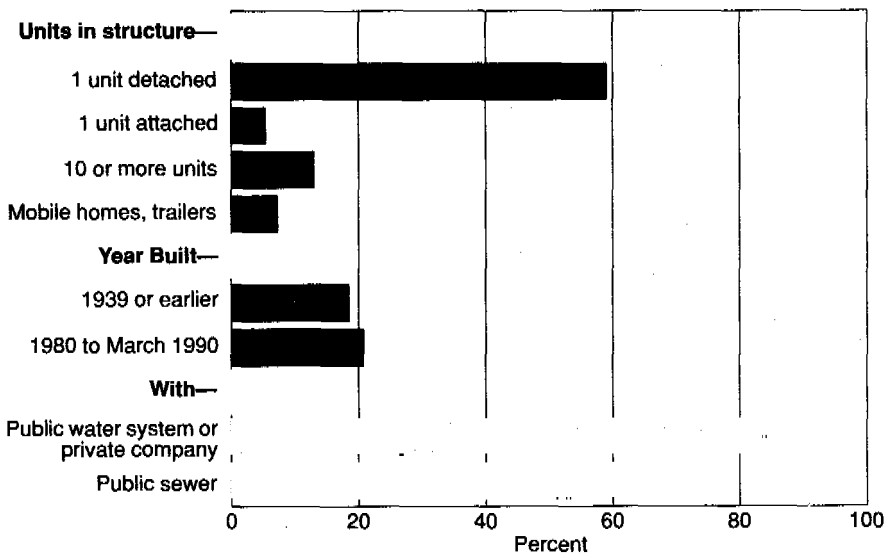
Source: U.S. Department of Energy, *Domestic Uranium Mining and Milling Industry,* annual, and *Uranium Industry,* annual.

Figure 26.1
Single-Family Houses Sold and Sales Price: 1970 to 1992



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1224, 1225, and 1227.

Figure 26.2
Selected Characteristics and Features of Housing in the United States: 1990



Source: Chart prepared by U.S. Bureau of the Census. For data, see tables 1233 and 1240.

Construction and Housing

This section presents data on the construction industry and on various indicators of its activity and costs; on housing units and their characteristics and occupants; and on the characteristics and vacancy rates for commercial buildings. Considerable data from the 1990 census are featured in tables 1223 to 1241.

In Brief

Construction contract value up almost 9% to $251 billion in 1992 from 1991.

New homes sold in 1992 increased to 610,000 from 509,000 in 1991.

Sales of existing single-family homes up over 9% in 1992 to 3.5 million.

The principal source of these data is the U.S. Bureau of the Census, which issues a variety of current publications. Construction statistics compiled by the Bureau appear in its monthly *Current Construction Reports* series with various quarterly or annual supplements; *Housing Starts* and *Housing Completions* present data by type of structure and by 4 major census regions; *New One-Family Houses Sold and For Sale* also provides statistics annually on physical and financial characteristics for all new housing by the 4 major census regions; *Price Index of New One-Family Houses Sold* presents quarterly figures and annual regional data; and *Housing Units Authorized by Building Permits* covers approximately 17,000 permit-issuing jurisdictions in the United States. Statistics on expenditures by owners of residential properties are issued quarterly and annually in *Expenditures for Residential Upkeep and Improvements. Value of New Construction Put in Place* presents data on all types of construction and includes monthly composite cost indexes. Reports of the censuses of construction industries (see below) are also issued on various topics.

Other Census Bureau publications include the *Current Housing Reports* series, which comprises the quarterly *Housing Vacancies,* the quarterly *Market Absorption of Apartments,* the American Housing Survey (formerly Annual Housing Survey) and reports of the censuses of housing and of construction industries. *Construction Review,* published quarterly by the International Trade Administration, U.S. Department of Commerce, contains many of the census series and other construction statistics series from the Federal Government and private agencies.

Other sources include the monthly *Dodge Construction Potentials* of F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, NY, which presents national and State data on construction contracts; the National Association of Home Builders with State-level data on housing starts; the NATIONAL ASSOCIATION OF REALTORS, which presents data on existing home sales; the Society of Industrial and Office Realtors and Oncor International on commercial office space; the Bureau of Economic Analysis, which presents data on residential capital and gross housing product; and the U.S. Energy Information Administration, which provides data on commercial buildings through its periodic sample surveys.

Censuses and surveys.—Censuses of the construction industry were first conducted by the Bureau of the Census for 1929, 1935, and 1939; beginning in 1967, a census has been taken every five years (for years ending in "2" and "7"). The latest reports are for 1987.

The 1987 Census of Construction Industries, in accordance with the 1987 *Standard Industrial Classification Manual* (see text, section 13), covers all employer establishments primarily engaged in (1) building construction by general contractors or operative builders; (2) heavy (non-building) construction by general contractors; and (3) construction by special trade contractors.

From 1850 through 1930, the Bureau of the Census collected some housing data as part of its censuses of population and agriculture. Beginning in 1940, separate censuses of housing have been taken at

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10-year intervals. For the 1970 and 1980 censuses, data on year-round housing units were collected and issued on occupancy and structural characteristics, plumbing facilities, value, and rent; for 1990 such characteristics were presented for all housing units.

Evaluation studies of the 1950, 1960, 1970, and 1980 censuses estimated the underenumeration of occupied housing units at 2.9 percent, 2.4 percent, 1.7 percent, and 1.5 percent respectively. The missed rate in 1980 for all housing units was 2.6 percent or approximately 2.3 million units, 1 million of which were vacant housing units. Estimates for underenumeration from the 1990 census are not available at this time.

The American Housing Survey (*Current Housing Reports* series H-150 and H-170), which began in 1973, provided an annual and ongoing series of data on selected housing and demographic characteristics until 1983. In 1984 the name of the survey was changed from the Annual Housing Survey. It is currently based on a biennial national sample and on 11 annual MSA samples. All samples represent a cross section of the housing stock in their respective areas. Estimates are subject to both sampling and nonsampling errors; caution should therefore, be used in making comparisons with 1970 and 1980 census data.

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

Housing units.—In general, a housing unit is a group of rooms or a single room occupied or intended for occupancy as separate living quarters; that is, the occupants do not live and eat with any other persons in the structure and there is direct access from the outside or through a common hall. Transient accommodations, barracks for workers, and institutional-type quarters are not counted as housing units.

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

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

No. 1211. Construction Industries—Summary, by Industry: 1987

[Based on a probability sample of about 160,000 construction establishments with payroll in 1987; see Appendix III. N.e.c.= Not elsewhere classified]

SIC [1] code	INDUSTRY	Establishments with payroll (1,000)	EMPLOYEES (1,000)		PAYROLL (mil. dol.)		VALUE OF CONSTRUCTION WORK (mil. dol.)		Value added [3] (mil. dol.)
			Total	Construction workers	Total	Construction workers	Total	Net [2]	
(X)	**All industries, total**	**544.2**	**5,054**	**3,989**	**111,067**	**79,742**	**499,982**	**367,746**	**230,174**
	Contract construction	536.3	5,015	3,979	110,200	79,589	495,346	365,241	227,934
15	General building contractors	157.6	1,278	926	27,870	17,204	212,629	111,019	65,514
1521	Single-family houses	90.4	396	307	6,272	4,343	39,098	27,319	14,970
1522	Other residential buildings	8.1	82	61	1,752	1,130	13,316	6,257	3,659
1531	Operative builders	20.8	169	80	4,385	1,478	48,960	26,837	15,173
1541	Industrial buildings and warehouses	7.0	143	111	3,619	2,497	21,462	11,095	6,882
1542	Nonresidential buildings, n.e.c	31.3	488	367	11,843	7,756	89,793	39,510	24,831
16	Heavy construction contractors	36.6	827	683	20,408	15,461	82,285	68,435	44,940
1611	Highway and street construction	11.0	284	239	7,041	5,397	34,161	27,984	17,120
1622	Bridge, tunnel, and elevated highway	1.2	47	40	1,192	910	5,481	4,187	2,430
1623	Water, sewer, and utility lines	10.0	198	166	4,513	3,428	17,010	15,055	10,090
1629	Heavy construction, n.e.c	14.5	298	238	7,662	5,726	25,633	21,209	15,301
17	Special trade contractors	342.0	2,909	2,370	61,921	46,923	200,434	185,786	117,480
1711	Plumbing, heating, air-conditioning	69.6	617	471	14,330	10,311	49,503	44,518	25,912
1721	Painting and paperhanging	29.9	170	145	2,979	2,386	7,953	7,446	5,716
1731	Electrical work	49.4	509	406	12,664	9,622	35,838	34,658	21,817
1741	Masonry and other stonework	23.3	169	150	2,947	2,462	8,714	8,269	5,476
1742	Plastering, drywall, insulation	17.8	254	217	5,485	4,348	16,427	15,137	9,748
1743	Terrazzo, tile, marble, and mosaic work	5.1	34	28	734	554	2,272	2,182	1,318
1751	Carpentry	36.0	190	164	3,272	2,610	11,244	10,039	6,078
1752	Floorlaying and other floor work	8.2	45	35	906	645	3,651	3,371	1,880
1761	Roofing, siding, and sheet metal work	25.7	231	187	4,314	3,111	15,028	14,183	8,524
1771	Concrete work	23.4	218	187	4,175	3,278	15,056	13,854	8,443
1781	Water well drilling	3.4	18	14	335	249	1,330	1,299	780
1791	Structural steel erection	4.0	65	55	1,594	1,232	4,863	4,510	3,253
1793	Glass and glazing work	4.6	41	29	919	607	3,222	3,142	1,701
1794	Excavation work	13.4	95	79	2,060	1,598	8,244	7,491	5,708
1795	Wrecking and demolition work	1.2	14	12	261	195	912	845	782
1796	Installing building equipment, n.e.c	3.8	62	50	1,858	1,447	5,360	5,010	3,723
1799	Special trade contractors, n.e.c	23.2	176	142	3,089	2,269	10,814	9,833	6,622
6552	Land subdividers and developers, n.e.c	8.0	40	9	867	153	4,636	2,505	2,240

X Not applicable. [1] Standard Industrial Classification; see, text, section 13. [2] Value of construction work less payments for construction work subcontracted to others, not shown separately. [3] Dollar value of business done less (*a*) payments for materials, components, and supplies, (*b*) payments for construction work subcontracted to others, not shown separately.

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1987*, series CC87-I-28.

No. 1212. Construction Materials—Producer Price Indexes: 1980 to 1992

[**1982 = 100**, except as noted. For discussion of producer price index, see text, section 15. This index, more formally known as the special commodity grouping index for construction materials, covers materials incorporated as integral part of a building or normally installed during construction and not readily removable. Excludes consumer durables such as kitchen ranges, refrigerators, etc. This index is not the same as the stage-of-processing index of intermediate materials and components for construction. See *Historical Statistics, Colonial Times to 1970*, series N 140-155 for similar data]

COMMODITY	1980	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Construction materials	**92.5**	**103.4**	**106.4**	**107.6**	**107.3**	**109.5**	**115.7**	**119.5**	**119.6**	**120.4**	**122.5**
Interior solvent based paint	91.3	100.0	103.9	107.3	109.9	111.6	120.3	128.8	133.0	140.2	141.7
Plastic construction products	103.9	110.1	115.5	108.6	106.4	108.4	121.1	120.1	117.2	115.1	112.7
Douglas fir, dressed	132.6	135.8	123.2	126.5	124.5	125.1	135.7	151.6	138.4	139.6	169.2
Southern pine, dressed	104.0	111.9	111.9	105.2	104.9	114.1	112.4	108.0	111.2	111.0	130.5
Millwork	93.2	108.2	110.2	111.7	113.7	117.7	121.9	127.3	130.4	135.5	143.2
Softwood plywood	109.5	110.0	107.6	107.4	109.4	109.8	109.1	124.2	119.6	120.8	147.0
Hardwood plywood and related products	97.5	99.3	99.6	89.9	91.0	92.9	94.2	99.8	102.7	102.8	106.9
Softwood plywood veneer, ex. reinforced/backed	126.0	103.1	103.3	100.1	105.9	108.4	117.3	142.1	142.3	138.5	166.2
Building paper and building board mill products	86.1	104.4	108.2	107.4	108.8	111.2	113.3	115.6	112.2	111.8	119.6
Tube, drawn, 6000 alloy series	85.6	100.9	109.7	109.7	109.8	111.2	128.9	131.0	127.1	124.1	123.4
Builders hardware	84.9	104.8	109.3	113.5	115.8	117.4	122.5	127.8	133.0	138.1	141.3
Plumbing fixtures and brass fittings	88.5	103.8	108.6	111.9	115.5	119.7	128.7	137.7	144.3	149.7	153.1
Heating equipment	87.0	102.7	106.6	109.5	113.0	115.5	119.2	125.1	131.6	134.1	137.3
Metal doors, sash, and trim	87.8	102.8	106.6	107.3	108.9	112.0	122.4	130.0	131.4	134.6	134.9
Incandescent outdoor lighting fixtures	82.7	104.7	109.2	109.2	112.0	117.2	122.4	128.0	137.3	136.5	139.0
Bright nails	90.9	98.0	99.4	100.2	99.8	101.2	104.7	110.4	(NA)	(NA)	(NA)
Welded steel wire fabric for concrete reinforcing	98.9	98.5	101.9	101.3	98.8	98.3	109.2	108.6	109.7	100.0	100.9
Elevators, escalators, and other lifts	87.3	97.3	97.1	97.7	99.2	100.4	103.6	107.1	110.1	108.7	109.4
Stamped metal outlet box	82.7	105.2	114.9	119.7	152.0	160.1	168.7	171.7	179.4	179.7	187.4
Concrete ingredients and related products	88.4	101.1	105.1	108.5	109.4	110.4	112.0	113.2	115.3	118.4	119.4
Concrete products	92.0	101.4	103.9	107.5	109.2	109.4	110.0	111.2	113.5	116.6	117.2
Clay construction products exc. refractories	88.8	106.5	110.0	113.5	118.0	121.4	124.9	127.0	129.9	130.2	132.0
Prep. asphalt and tar roofing and siding products	105.5	94.1	97.7	100.5	96.8	91.9	94.4	95.6	97.1	96.2	94.3
Gypsum products	100.1	111.7	135.4	132.3	137.0	125.2	112.9	110.0	105.2	99.3	100.3
Insulation materials	80.7	103.7	104.0	105.2	105.7	105.0	105.8	106.7	108.4	110.8	102.3
Paving mixtures and blocks	83.7	100.9	106.1	111.6	104.9	100.8	102.7	101.0	101.2	103.2	100.0

NA Not available.

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

No. 1213. Price and Cost Indexes for Construction: 1980 to 1992

[1987 = 100. Excludes Alaska and Hawaii. Indexes of certain sources are published on bases different from those shown here. See *Historical Statistics, Colonial Times to 1970*, series N 118-137, for construction cost indexes on a 1947-49 base]

NAME OF INDEX	1980	1983	1984	1985	1986	1988	1989	1990	1991	1992
Bureau of the Census:										
Composite fixed-weighted [1]	77.6	86.6	90.2	93.1	96.5	103.8	107.4	110.3	111.2	111.8
Implicit price deflator [2]	79.1	88.7	91.2	93.9	96.8	104.1	108.3	111.2	111.8	112.2
Bureau of the Census houses under construction: [3]										
Fixed-weighted	75.6	85.0	88.8	91.0	95.6	103.6	107.0	110.2	110.6	112.0
Price deflator	77.9	87.7	90.1	92.0	95.8	104.1	108.4	111.5	111.7	112.7
Federal Highway Administration, composite [4]	97.2	87.6	92.6	102.0	101.1	106.6	107.7	108.5	107.5	105.1
Bureau of Reclamation composite [5]	81	95	96	98	99	103	107	111	114	116
Turner Construction Co.: Building construction [6]	69	86	91	94	97	104	107	111	113	113
E. H. Boeckh, building cost index: [7]										
Residences	(NA)	88.5	93.5	96.2	98.0	102.5	106.3	109.9	113.0	116.7
Apartments, hotels, and office buildings	(NA)	90.7	94.8	96.3	98.0	102.7	106.2	109.0	112.0	114.9
Commercial and factory buildings	(NA)	91.5	95.0	96.7	98.3	103.0	107.2	110.8	114.2	117.4
Engineering News-Record: [8]										
Buildings	76.5	93.8	95.1	95.5	97.7	102.2	103.6	106.3	108.3	111.5
Construction	73.5	92.3	94.1	95.2	97.5	102.6	104.7	107.4	109.7	113.1
Handy-Whitman public utility: [9]										
Buildings	83	89	94	96	98	104	107	108	105	107
Electric [10]	80	95	97	98	99	107	111	115	116	118
Gas	79	97	100	100	97	106	111	114	116	118
Water [11]	81	91	94	97	98	103	106	108	108	110
C. A. Turner Telephone Plant [12]	102	103	99	101	100	101	110	113	114	114

NA Not available. [1] Weighted average of the various indexes used to deflate the Construction Put in Place series. In calculating the index, the weights (i.e., the composition of current dollar estimates in 1987 by category) are held constant. [2] Derived ratio of total current to constant dollar Construction Put in Place (multiplied by 100). [3] Excludes value of site. [4] Based on average contract unit bid prices for composite mile (involving specific average amounts of excavation, paving, reinforcing steel, structural steel, and structural concrete). [5] Derived from the four quarterly indexes which are weighted averages of costs of labor, materials, and equipment for the construction of dams and reclamation projects. [6] Based on firm's cost experience with respect to labor rates, materials prices, competitive conditions, efficiency of plant and management, and productivity. [7] Average of 20 cities for types shown. Weights based on surveys of building costs. [8] Building index computed on the basis of a hypothetical unit of construction requiring 6 bbl. of portland cement, 1,088 M bd. ft. of 2" x 4" lumber, 2,500 lb. of structural steel, and 68.38 hours of skilled labor. Construction index based on same materials components combined with 200 hours of common labor. [9] Based on data covering public utility construction costs in six geographic regions. Covers skilled and common labor. [10] As derived by U.S. Bureau of the Census. Covers steam generation plants only. [11] As derived by U.S. Bureau of the Census. Reflects costs for structures and improvements at water pumping and treatment plants. [12] Computed by the Census Bureau by averaging the weighted component indexes published for six geographic regions.

No. 1214. Value of New Construction Put in Place: 1964 to 1992

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

YEAR	CURRENT DOLLARS					CONSTANT (1987) DOLLARS				
	Total	Private			Public	Total	Private			Public
		Total	Residential buildings	Nonresidential buildings			Total	Residential buildings	Nonresidential buildings	
1964	72,124	51,921	30,526	14,412	20,203	294,569	211,627	124,768	60,892	82,942
1970	100,727	72,819	35,863	23,008	27,908	309,244	225,168	114,138	71,796	84,077
1971	117,311	87,612	48,514	24,204	29,699	337,451	254,502	145,554	69,621	82,949
1972	133,318	103,288	60,693	26,568	30,030	360,780	281,593	170,190	71,490	79,187
1973	146,826	114,477	65,085	30,683	32,348	364,938	285,937	166,249	76,259	79,001
1974	147,476	109,344	55,967	32,195	38,132	319,362	242,274	130,126	70,029	77,089
1975	145,623	102,330	51,581	26,397	43,293	290,137	208,991	109,920	58,990	81,147
1976	165,441	121,462	68,273	27,936	43,979	315,865	235,338	136,685	55,617	80,527
1977	193,126	150,044	92,004	30,871	43,083	340,833	266,393	165,926	57,134	74,440
1978	230,178	180,032	109,838	39,135	50,146	362,862	285,880	174,695	65,343	76,982
1979	259,839	203,194	116,444	51,732	56,646	364,554	288,789	165,116	77,359	75,766
1980	259,746	196,100	100,381	58,290	63,646	328,435	252,645	128,926	78,972	75,790
1981	271,950	207,259	99,241	68,450	64,691	320,950	247,427	118,343	85,091	73,523
1982	260,594	197,531	84,676	73,953	63,064	297,759	226,510	97,595	87,505	71,249
1983	294,945	231,494	125,521	70,438	63,450	332,625	261,398	143,108	80,888	71,227
1984	348,817	278,600	153,849	87,493	70,217	382,435	306,152	170,732	96,664	76,284
1985	377,366	299,543	158,474	103,455	77,823	401,967	321,706	172,338	111,262	80,260
1986	407,693	323,100	187,148	98,674	84,593	421,367	335,709	195,377	102,596	85,658
1987	419,366	328,738	194,656	100,933	90,628	419,352	328,637	194,622	100,877	90,715
1988	432,304	337,516	198,101	106,994	94,788	415,084	324,404	190,292	103,037	90,680
1989	443,401	345,328	196,551	113,988	98,073	409,494	318,583	181,321	105,711	90,912
1990	442,065	334,153	182,856	117,971	107,912	397,547	299,638	163,980	106,067	97,909
1991	400,955	290,706	157,835	97,841	110,249	358,549	259,583	141,300	87,608	98,967
1992	425,807	307,067	183,045	85,360	118,740	379,479	271,744	162,230	75,746	107,735

Source: U.S. Bureau of the Census, *Current Construction Reports*, series C30, and press release, CB-92-14.

No. 1215. Value of New Construction Put in Place in Current and Constant (1987) Dollars: 1985 to 1992

[**In millions of dollars.** Represents value of construction put in place during year; differs from building permit and construction contract data in timing and coverage. Includes installed cost of normal building service equipment and selected types of industrial production equipment (largely site fabricated). Excludes cost of shipbuilding, land, and most types of machinery and equipment. For details on derivation of constant values and description of revised series, see source. For description of nature of revisions and deflators used, see *Construction Reports*, series C30-9005. For methodology, see Appendix III. See also *Historical Statistics, Colonial Times to 1970*, series N 1-29 and N 66-69]

TYPE OF CONSTRUCTION	CURRENT DOLLARS					CONSTANT (1987) DOLLARS				
	1985	1989	1990	1991	1992, prel.	1985	1989	1990	1991	1992, prel.
Total new construction	**377,366**	**443,401**	**442,065**	**400,955**	**425,807**	**401,967**	**409,494**	**397,547**	**358,549**	**379,479**
Private construction	**299,543**	**345,328**	**334,153**	**290,706**	[1]**307,067**	**321,706**	**318,583**	**299,638**	**259,583**	[1]**271,744**
Residential buildings	158,474	196,551	182,856	157,835	183,045	172,338	181,321	163,980	141,300	162,230
New housing units	114,662	139,202	127,987	110,592	130,016	124,699	128,435	114,784	99,002	115,234
One unit	86,123	116,898	108,737	95,444	117,030	93,659	107,849	97,518	85,435	103,706
Two or more units	28,539	22,304	19,250	15,148	12,986	31,040	20,586	17,266	13,567	11,528
Improvements	43,812	57,349	54,869	47,243	(NA)	47,639	52,886	49,196	42,297	(NA)
Nonresidential buildings	103,455	113,988	117,971	97,841	85,360	111,262	105,711	106,067	87,608	75,746
Industrial	17,116	20,410	23,848	22,280	20,155	18,408	18,919	21,441	19,951	17,892
Office	34,276	31,538	28,722	23,010	16,901	36,867	29,263	25,829	20,604	15,010
Hotels, motels	7,925	8,401	9,673	6,286	3,409	8,524	7,791	8,699	5,630	3,025
Other commercial	30,443	33,958	34,140	25,470	23,326	32,734	31,482	30,693	22,805	20,689
Religious	2,615	3,278	3,390	3,415	3,471	2,811	3,040	3,046	3,058	3,077
Educational	2,058	3,648	4,219	3,929	4,111	2,213	3,382	3,792	3,518	3,649
Hospital and institutional	6,060	8,312	9,450	9,189	10,085	6,521	7,711	8,494	8,228	8,946
Miscellaneous [2]	2,962	4,443	4,528	4,260	3,900	3,186	4,122	4,072	3,814	3,459
Farm nonresidential	2,197	2,449	2,670	2,592	(NA)	2,366	2,271	2,400	2,321	(NA)
Public utilities	32,692	29,881	27,699	29,225	(NA)	32,989	27,003	24,504	25,488	(NA)
Telecommunications	8,397	9,465	9,565	8,816	(NA)	8,264	8,525	8,498	7,759	(NA)
Other public utilities	24,295	20,416	18,134	20,409	(NA)	24,725	18,478	16,006	17,728	(NA)
Railroads	4,046	2,650	2,382	2,650	(NA)	4,079	2,452	2,164	2,363	(NA)
Electric light and power	16,460	13,038	10,521	10,699	(NA)	16,871	11,778	9,234	9,284	(NA)
Gas	3,517	4,386	4,820	6,436	(NA)	3,504	3,941	4,246	5,543	(NA)
Petroleum pipelines	272	342	411	624	(NA)	271	307	362	537	(NA)
All other private [3]	2,726	2,460	2,957	3,213	4,179	2,751	2,276	2,688	2,867	3,797
Public construction	**77,823**	**98,073**	**107,912**	**110,249**	**118,740**	**80,260**	**90,912**	**97,909**	**98,967**	**107,735**
Buildings	27,861	39,808	46,208	50,475	53,085	30,000	36,891	41,523	45,189	47,106
Housing and development	2,893	3,471	3,498	3,496	3,282	3,146	3,203	3,136	3,131	2,915
Industrial	1,968	1,300	1,433	1,823	1,885	2,118	1,205	1,289	1,633	1,672
Educational	9,329	17,258	20,976	23,769	24,401	10,033	15,996	18,847	21,278	21,645
Hospital	2,497	2,538	2,646	2,672	3,189	2,686	2,353	2,380	2,393	2,829
Other [4]	11,174	15,241	17,654	18,713	20,328	12,016	14,133	15,871	16,755	18,045
Highways and streets	23,741	28,837	31,155	29,918	32,884	23,455	26,754	28,729	27,210	31,528
Military facilities	3,235	3,520	2,665	1,837	2,490	3,341	3,261	2,427	1,660	2,295
Conservation and development	5,144	5,008	4,607	4,959	6,094	5,279	4,627	4,135	4,338	5,260
Sewer systems	6,960	8,868	9,914	10,013	9,799	7,139	8,193	8,886	8,761	8,461
Water supply facilities	2,580	3,779	4,747	4,970	4,940	2,671	3,549	4,379	4,605	4,499
Miscellaneous public [5]	8,302	8,254	8,616	8,077	9,449	8,374	7,637	7,830	7,205	8,586

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

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

No. 1216. Value of Privately Owned Nonresidential Building Projects, by Construction Status, 1980 to 1992, and by Type of Project, 1992

[**In billions of dollars**]

CONSTRUCTION STATUS	1980	1985	1986	1987	1988	1989	1990	1991	1992				
									Total	Industrial	Office building	Other commercial	Other [1]
Value of projects—													
Started	53.8	98.5	97.1	95.7	107.7	109.9	89.5	72.9	76.2	14.4	13.6	24.2	24.0
Completed	53.0	89.9	107.5	91.4	101.6	107.7	114.0	109.5	99.3	24.4	23.4	25.2	24.0

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

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

No. 1217. Construction Contracts—Value of Construction and Floor Space of Buildings, by Class of Construction: 1980 to 1992

[Includes new structures and additions, and major alterations to existing structures which affect only valuation, since no additional floor area is created by "alteration." See also *Historical Statistics, Colonial Times to 1970*, series N 7888-100]

YEAR	Total	Residential buildings	NONRESIDENTIAL BUILDINGS									Nonbuilding construction
			Total	Commercial [1]	Manufacturing	Educational [2]	Hospital	Public buildings	Religious	Social and recreational	Miscellaneous	
VALUE (bil. dol.)												
1980	151.8	60.4	56.9	27.7	9.2	7.4	5.4	1.6	1.2	2.7	1.7	34.5
1981	157.3	56.3	65.5	35.2	9.3	6.6	6.4	1.4	1.2	3.4	2.0	35.4
1982	157.1	55.0	64.6	32.3	9.6	6.8	8.0	1.9	1.2	2.8	2.0	37.5
1983	194.1	88.4	67.9	38.3	5.4	7.1	8.5	2.1	1.5	2.9	2.1	37.8
1984	214.3	95.3	82.1	48.2	7.9	8.5	7.4	2.7	1.7	3.3	2.4	36.9
1985	235.8	102.1	92.3	54.6	8.1	10.0	7.8	3.1	2.0	4.0	2.5	41.4
1986	249.3	115.6	91.6	52.4	7.3	11.7	7.9	3.2	2.1	4.2	2.8	42.1
1987	259.0	114.1	98.8	53.7	8.6	13.2	9.0	4.7	2.1	4.3	3.2	46.1
1988	262.2	116.2	97.9	51.6	9.5	14.1	8.2	4.4	2.2	4.7	3.2	48.1
1989	271.3	116.2	106.1	53.6	12.7	15.9	8.8	5.2	2.0	5.0	2.9	49.0
1990	246.2	100.9	95.5	45.0	8.4	16.6	9.2	5.7	2.2	5.3	3.1	49.7
1991	230.9	94.5	86.2	32.7	8.3	19.0	9.6	6.2	2.4	5.0	3.0	50.2
1992	250.8	110.6	86.7	32.7	8.7	17.6	10.8	5.8	2.5	5.6	3.1	53.5
FLOOR SPACE (mil. sq. ft.)												
1980	3,102	1,839	1,263	738	220	103	55	18	28	49	52	(X)
1981	2,805	1,562	1,243	787	188	83	60	14	25	46	41	(X)
1982	2,455	1,440	1,015	631	119	82	71	19	25	38	30	(X)
1983	3,387	2,276	1,111	716	112	84	84	20	29	36	31	(X)
1984	3,661	2,311	1,350	901	157	100	70	23	29	37	34	(X)
1985	3,853	2,324	1,529	1,039	165	111	73	28	32	44	38	(X)
1986	3,935	2,481	1,454	960	148	129	73	30	32	44	39	(X)
1987	3,757	2,288	1,469	933	160	139	78	42	32	46	36	(X)
1988	3,594	2,181	1,414	883	162	142	71	38	32	49	37	(X)
1989	3,516	2,115	1,400	867	158	152	72	41	27	48	35	(X)
1990	3,024	1,817	1,204	696	128	152	69	47	29	51	32	(X)
1991	2,626	1,655	981	477	100	177	71	50	29	44	33	(X)
1992	2,801	1,864	937	461	95	156	77	42	30	43	33	(X)

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

No. 1218. Construction Contracts—Value, by State: 1985 to 1992

[**In millions of dollars.** See headnote, table 1217. Represents value of construction in States in which work was actually done]

STATE	1985	1990	1991	1992			STATE	1985	1990	1991	1992		
				Total (incl. nonbldg.)	Residential	Nonresidential					Total (incl. nonbldg.)	Residential	Nonresidential
U.S	**235,819**	**246,234**	**230,922**	**250,829**	**110,630**	**86,744**	MO	3,935	3,833	3,994	4,391	2,051	1,415
							MT	698	332	522	604	248	153
AL	2,949	2,939	2,777	3,228	1,644	1,002	NE	1,040	1,318	1,298	1,538	604	448
AK	1,507	1,919	768	905	206	455	NV	1,789	3,334	2,642	3,990	1,385	1,808
AZ	6,617	4,553	4,690	5,345	3,127	1,468	NH	1,355	1,021	863	1,009	492	356
AR	1,649	1,438	1,772	2,022	1,007	544	NJ	8,222	6,191	6,121	5,497	1,683	2,031
CA	33,039	37,381	30,280	27,215	11,575	10,071	NM	1,778	1,123	1,405	1,352	539	427
CO	4,678	3,235	4,599	5,788	2,391	1,643	NY	12,000	14,166	12,568	14,162	3,911	5,713
CT	3,583	3,058	2,860	2,897	974	1,391	NC	6,664	6,626	6,955	8,013	4,110	2,493
DE	739	787	791	783	298	249	ND	557	506	467	587	217	176
DC	985	795	824	745	48	571	OH	6,999	9,902	9,442	10,757	4,609	4,097
FL	18,155	17,004	15,401	16,741	8,960	4,672	OK	2,660	2,164	2,046	2,487	1,020	879
GA	7,618	7,128	7,243	8,110	4,497	2,459	OR	1,634	3,103	2,590	2,864	1,578	824
HI	873	2,831	2,790	2,866	993	1,111	PA	7,040	10,106	9,461	9,992	3,872	4,136
ID	758	986	1,051	1,276	794	314	RI	829	594	763	651	271	262
IL	7,958	10,800	9,039	10,638	4,362	3,765	SC	3,463	3,664	3,761	3,435	1,881	1,117
IN	4,051	6,350	5,391	6,435	3,051	2,407	SD	485	468	356	586	226	151
IA	1,507	2,034	2,229	2,174	901	693	TN	4,456	4,388	4,358	5,273	2,717	1,620
KS	2,370	2,193	2,307	2,543	1,181	755	TX	21,418	13,198	14,740	16,472	7,199	5,865
KY	2,848	3,176	3,858	3,856	1,754	1,332	UT	1,647	1,884	1,662	2,038	1,040	648
LA	3,867	3,192	2,930	3,056	998	1,071	VT	484	515	581	584	330	156
ME	784	897	862	1,161	551	315	VA	7,591	7,183	6,455	7,346	3,497	2,079
MD	5,699	6,057	5,068	5,252	2,896	1,568	WA	4,376	6,185	6,426	7,521	3,600	2,598
MA	6,237	5,138	5,135	5,736	2,004	2,049	WV	858	1,253	856	1,091	184	445
MI	5,855	7,649	7,140	7,453	3,380	2,882	WI	3,038	4,655	4,198	4,942	2,331	1,824
MN	4,236	4,951	4,409	5,242	2,683	1,565	WY	698	462	473	468	109	124
MS	1,543	1,569	1,906	1,716	648	548							

Source of tables 1217 and 1218: F. W. Dodge, National Information Services Division, McGraw-Hill Information Systems Company, New York, NY. Figures reported currently in *Dodge Construction Potentials*.

No. 1219. New Privately-Owned Housing Units Authorized, by State: 1991 and 1992

[Based on about 17,000 places in United States having building permit systems]

STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)			STATE	HOUSING UNITS (1,000)			VALUATION (mil. dol.)		
	1991	1992		1991	1992			1991	1992		1991	1992	
		Total	1 unit		Total	1 unit			Total	1 unit		Total	1 unit
U.S .	**948.8**	**1,105.9**	**918.5**	**78,772**	**96,187**	**87,669**	MO . . .	16.1	21.3	17.4	1,122	1,601	1,455
							MT . . .	1.5	2.0	1.7	111	165	145
AL . . .	11.3	13.0	10.4	692	865	791	NE . . .	6.2	6.7	5.1	387	459	415
AK . . .	1.0	1.2	1.0	137	143	135	NV . . .	21.0	17.1	13.4	1,280	1,233	1,075
AZ . . .	23.5	31.3	28.9	2,262	3,087	2,956	NH . . .	3.5	3.6	3.3	304	322	307
AR . . .	6.9	7.8	6.1	386	504	454	NJ . . .	14.9	18.5	15.5	1,245	1,534	1,404
CA . . .	106.0	97.3	75.8	11,990	11,274	9,828	NM . . .	6.1	7.1	6.8	471	602	593
CO . . .	14.1	23.2	20.6	1,512	2,584	2,451	NY . . .	26.6	29.0	22.8	2,421	2,668	2,361
CT . . .	7.5	8.4	7.5	667	839	800	NC . . .	39.0	49.4	42.7	2,803	3,849	3,643
DE . . .	4.3	4.6	4.3	238	285	267	ND . . .	2.1	2.4	1.3	112	148	118
DC . . .	0.3	0.1	0.1	17	7	6	OH . . .	35.8	45.3	33.7	3,147	4,072	3,663
FL . . .	95.3	103.5	84.6	7,087	8,563	7,540	OK . . .	5.9	7.1	7.1	488	616	613
GA . . .	37.6	45.6	43.2	2,701	3,559	3,477	OR . . .	16.4	17.3	13.5	1,382	1,676	1,508
HI . . .	9.2	7.8	4.6	1,138	850	559	PA . . .	34.6	39.2	35.7	2,798	3,408	3,241
ID . . .	6.6	9.6	7.6	519	753	676	RI . . .	2.4	2.6	2.3	181	208	202
IL . . .	32.8	40.0	31.8	3,189	3,900	3,439	SC . . .	18.7	18.9	16.5	1,353	1,469	1,380
IN . . .	23.9	30.6	25.8	1,995	2,674	2,509	SD . . .	2.5	2.9	2.0	147	187	156
IA . . .	8.0	11.0	7.5	603	817	689	TN . . .	19.3	26.4	24.2	1,359	2,020	1,956
KS . . .	7.8	9.3	8.1	644	850	804	TX . . .	51.9	62.9	53.4	4,301	5,497	5,215
KY . . .	12.0	14.7	11.5	784	1,017	922	UT . . .	8.9	14.4	12.3	778	1,208	1,127
LA . . .	7.2	9.8	9.0	509	701	677	VT . . .	2.0	2.2	1.9	167	184	164
ME . . .	3.7	3.9	3.7	280	311	298	VA . . .	33.7	40.7	35.5	2,490	3,130	2,924
MD . . .	25.2	34.0	29.9	1,915	2,620	2,459	WA . . .	33.0	39.9	29.8	2,644	3,499	2,936
MA . . .	12.7	16.3	15.1	1,265	1,712	1,644	WV . . .	2.0	2.2	1.9	126	147	139
MI . . .	33.8	39.4	32.7	2,597	3,088	2,852	WI . . .	25.1	31.7	20.7	1,798	2,369	1,960
MN . . .	21.1	25.9	22.4	1,882	2,468	2,307	WY . . .	0.6	1.0	0.9	62	99	97
MS . . .	5.2	5.8	5.1	285	348	330							

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

No. 1220. Valuation of Construction Authorized by Permit, by Type of Construction and State: 1992

[In millions of dollars]

STATE	Total [1]	Residential	NONRESIDENTIAL				STATE	Total [1]	Residential	NONRESIDENTIAL			
			Total [2]	Industrial	Office	Stores				Total [2]	Industrial	Office	Stores
U.S..	**176,697**	**96,187**	**31,614**	**4,436**	**5,743**	**10,284**	MO . .	3,218	1,601	640	73	83	210
							MT. . .	333	165	69	1	15	44
AL . . .	1,965	865	522	117	120	157	NE . . .	846	459	153	24	29	42
AK . . .	339	143	95	3	10	59	NV . . .	2,024	1,233	408	40	56	99
AZ . . .	4,323	3,087	535	36	124	218	NH . . .	614	322	98	6	3	50
AR . . .	1,051	504	303	64	36	128	NJ . . .	3,871	1,534	584	82	102	93
CA . . .	22,798	11,274	4,040	624	713	1,433	NM. . .	929	602	101	9	22	38
CO . . .	3,787	2,584	384	48	97	91	NY . . .	6,026	2,668	1,283	112	172	579
CT . . .	2,063	839	306	51	63	66	NC . . .	6,317	3,849	1,091	180	182	274
DE . . .	595	285	103	2	23	37	ND . . .	313	148	68	19	8	20
DC . . .	103	7	15	-	7	4	OH . . .	7,362	4,072	1,316	197	200	475
FL . . .	13,615	8,563	2,124	144	287	790	OK . . .	1,156	616	280	48	27	116
GA . . .	5,854	3,559	1,117	227	121	439	OR . . .	2,710	1,676	408	114	49	103
HI . . .	1,666	850	356	10	63	124	PA . . .	7,432	3,408	1,785	197	489	318
ID . . .	1,172	753	187	14	44	61	RI . . .	395	208	44	5	9	13
IL . . .	7,463	3,900	1,334	201	272	449	SC . . .	2,724	1,469	569	51	101	199
IN . . .	4,909	2,674	1,081	173	228	367	SD . . .	406	187	72	5	13	24
IA . . .	1,646	817	361	82	68	102	TN . . .	3,916	2,020	835	106	150	205
KS . . .	1,471	850	232	41	41	71	TX . . .	10,161	5,497	1,923	186	458	711
KY . . .	1,858	1,017	361	78	55	116	UT . . .	1,816	1,208	292	41	81	80
LA . . .	1,366	701	304	31	39	103	VT . . .	379	184	97	33	5	15
ME . . .	686	311	152	7	27	71	VA . . .	5,453	3,130	855	76	258	280
MD . . .	4,262	2,620	451	22	102	146	WA . .	5,724	3,499	1,021	256	193	306
MA . . .	3,668	1,712	538	66	54	121	WV . .	371	147	93	6	9	42
MI . . .	5,957	3,088	1,063	181	176	362	WI . . .	4,477	2,369	795	172	181	175
MN. . .	4,236	2,468	573	151	53	161	WY . .	201	99	41	3	10	19
MS. . .	692	348	160	19	16	79							

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

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

No. 1221. New Privately-Owned Housing Units Started—Selected Characteristics: 1970 to 1992

[In thousands. For composition of regions, see table 31. See also *Historical Statistics, Colonial Times to 1970*, series N 156-163 and 170]

YEAR	Total units	STRUCTURES WITH—			REGION				CONDOMINIUM UNITS [1]		
		One unit	2 to 4 units	5 or more units	North-east	Mid-west	South	West	Total	Single-family	Multi-family
1970	1,434	813	85	536	218	294	612	311	(NA)	(NA)	(NA)
1971	2,052	1,151	120	781	264	434	869	486	(NA)	(NA)	(NA)
1972	2,357	1,309	141	906	330	443	1,057	527	(NA)	(NA)	(NA)
1973	2,045	1,132	118	795	277	440	899	429	241	69	172
1974	1,338	888	68	382	183	317	553	285	175	46	130
1975	1,160	892	64	204	149	294	442	275	65	20	45
1976	1,538	1,162	86	289	169	400	569	400	95	30	64
1977	1,987	1,451	122	414	202	465	783	538	118	41	77
1978	2,020	1,433	125	462	200	451	824	545	156	42	114
1979	1,745	1,194	122	429	178	349	748	470	198	43	156
1980	1,292	852	110	331	125	218	643	306	186	35	150
1981	1,084	705	91	288	117	165	562	240	181	36	145
1982	1,062	663	80	320	117	149	591	205	170	40	130
1983	1,703	1,068	113	522	168	218	935	382	276	77	199
1984	1,750	1,084	121	544	204	243	866	436	291	96	194
1985	1,742	1,072	93	576	252	240	782	468	225	79	146
1986	1,805	1,179	84	542	294	296	733	483	214	80	134
1987	1,620	1,146	65	409	269	298	634	420	196	73	123
1988	1,488	1,081	59	348	235	274	575	404	148	53	95
1989	1,376	1,003	55	318	179	266	536	396	118	37	82
1990	1,193	895	37	260	131	253	479	329	75	22	53
1991	1,014	840	36	138	113	233	414	254	60	21	39
1992	1,200	1,030	31	139	127	288	497	288	74	35	40

NA Not available. [1] Type of ownership under which the owners of the individual housing units are also joint owners of the common areas of the building or community. Includes a small number of cooperatively-owned units.

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

No. 1222. New Privately-Owned Housing Units Started, by State: 1985 to 1992

[In thousands of units]

REGION, DIVISION, AND STATE	1985	1990	1991	1992		REGION, DIVISION, AND STATE	1985	1990	1991	1992	
				Total units	Single-family units					Total units	Single-family units
U.S.	**1,741.0**	**1,193.0**	**1,014.0**	**1,200.0**	**1,033.0**	DC	0.7	0.3	0.4	0.3	0.1
						VA	74.6	43.9	32.5	37.2	33.0
Northeast	**251.0**	**131.0**	**113.0**	**132.0**	**119.0**	WV	2.0	2.5	2.4	2.8	2.5
N.E.	**90.8**	**39.1**	**33.5**	**40.3**	**37.4**	NC	82.6	51.6	43.1	53.3	46.7
ME	7.8	5.4	3.8	4.4	4.3	SC	30.8	22.4	21.6	25.4	22.0
NH	15.5	4.8	3.5	4.2	4.0	GA	67.9	43.5	39.3	45.2	43.2
VT	3.7	2.8	2.2	2.5	2.3	FL	193.8	126.8	102.1	116.2	97.2
MA	34.6	14.7	12.9	16.4	15.4	**E.S.C.**	**93.6**	**67.0**	**61.0**	**76.8**	**67.4**
RI	4.8	3.2	2.8	3.2	3.0	KY	19.9	15.2	13.9	19.3	15.8
CT	24.3	8.3	8.2	9.5	8.5	TN	45.5	26.4	24.1	28.7	26.2
M.A.	**160.2**	**91.6**	**79.2**	**91.8**	**81.7**	AL	19.3	18.3	16.5	21.0	18.5
NY	60.4	35.5	27.6	30.1	26.1	MS	8.9	7.1	6.5	7.7	6.9
NJ	56.3	18.5	16.3	19.4	16.7	**W.S.C.**	**191.9**	**83.6**	**84.8**	**100.1**	**87.5**
PA	43.5	37.6	35.5	42.3	38.9	AR	9.9	10.5	9.5	11.5	9.0
Midwest	**241.0**	**254.0**	**234.0**	**306.0**	**260.0**	LA	17.2	6.7	6.9	8.0	7.7
E.N.C.	**149.2**	**184.3**	**161.6**	**210.0**	**173.4**	OK	14.0	7.3	7.4	9.3	9.0
OH	30.2	45.4	39.8	52.5	43.4	TX	150.8	59.0	61.0	71.3	61.8
IN	21.3	29.5	27.1	37.7	34.0	**West**	**467.0**	**329.0**	**254.0**	**271.0**	**225.0**
IL	42.4	39.7	35.7	46.3	38.3	**Mt.**	**157.5**	**83.7**	**83.5**	**102.3**	**88.7**
MI	38.3	41.4	33.3	39.6	31.0	MT	2.8	1.5	3.9	4.2	3.5
WI	17.1	28.3	25.7	33.9	26.7	ID	4.2	7.3	8.5	10.5	9.3
W.N.C.	**91.8**	**70.6**	**72.3**	**96.5**	**86.8**	WY	3.8	0.8	2.2	2.5	2.2
MN	25.7	22.0	23.3	29.2	26.0	CO	33.6	12.5	13.1	18.8	17.6
IA	4.6	9.4	9.6	14.8	12.6	NM	9.8	5.4	4.5	5.1	4.9
MO	33.4	17.7	17.9	23.1	21.4	AZ	72.1	24.0	25.1	35.0	30.7
ND	1.9	1.9	2.5	2.8	2.2	UT	17.3	7.6	9.4	12.0	10.5
SD	2.7	3.2	2.8	3.6	3.2	NV	14.0	24.7	16.7	14.3	10.1
NE	5.4	7.4	7.3	9.6	8.6	**Pac.**	**309.5**	**245.4**	**170.7**	**168.8**	**136.2**
KS	18.1	9.1	8.9	13.4	12.9	WA	34.4	46.8	33.5	33.9	28.6
South	**782.0**	**479.0**	**414.0**	**490.0**	**429.0**	OR	11.5	22.8	13.5	15.8	12.0
S.A.	**496.5**	**329.3**	**268.8**	**313.4**	**273.9**	CA	253.4	167.2	113.3	109.2	88.4
DE	4.9	6.1	5.5	6.7	6.0	AK	4.3	1.2	1.4	1.5	1.4
MD	39.3	32.2	21.9	26.3	22.8	HI	5.9	7.4	9.0	8.5	6.0

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

No. 1223. Characteristics of New Privately Owned One-Family Houses Completed: 1970 to 1992

[**Percent distribution, except as indicated.** Data beginning 1980 show percent distribution of characteristics for all houses completed (includes new houses completed, houses built for sale completed, contractor-built and owner-built houses completed, and houses completed for rent). Data for 1970 cover contractor-built, owner-built, and houses for rent for year construction started and houses sold for year of sale. Percents exclude houses for which characteristics specified were not reported]

CHARACTERISTIC	1970	1980	1990	1991	1992	CHARACTERISTIC	1970	1980	1990	1991	1992
Total houses (1,000)	793	957	966	838	964	**Bedrooms**	100	100	100	100	100
						2 or less	13	17	15	14	12
Financing	100	100	100	100	100	3	63	63	57	59	59
Mortgage	84	81	82	81	86	4 or more	24	20	29	28	29
FHA-insured	30	16	14	13	10	**Bathrooms**	100	100	100	100	100
VA-guaranteed	7	8	4	5	5	1 1/2 or less	20	10	5	14	13
Conventional	47	55	62	61	69	2	32	48	42	43	40
Farmers Home Administration	(1)	3	2	2	1	2 1/2 or more	16	25	45	44	47
Cash or equivalent	16	18	18	19	14	**Heating fuel**	100	100	100	100	100
						Electricity	28	50	33	32	29
Floor area	100	100	100	100	100	Gas	62	41	59	60	65
Under 1,200 sq. ft	36	21	11	12	10	Oil	8	3	5	4	4
1,200 to 1,599 sq. ft	28	29	22	22	22	Other	1	5	3	4	2
1,600 to 1,999 sq. ft	16	22	22	21	23	**Heating system**	100	100	100	100	100
2,000 to 2,399 sq. ft	21	13	17	17	17	Warm air furnace	71	57	65	65	66
2,400 sq. ft. and over	(2)	15	29	28	29	Electric heat pump	(NA)	24	23	23	24
Average (sq. ft.)	1,500	1,740	2,080	2,075	2,095	Other	29	19	12	13	11
Median (sq. ft.)	1,385	1,595	1,905	1,890	1,920	**Central air-conditioning**	100	100	100	100	100
						With	34	63	76	75	77
Number of stories	100	100	100	100	100	Without	66	37	24	25	23
1	74	60	46	48	48	**Fireplaces**	100	100	100	100	100
2 or more	17	31	49	47	47	No fireplace	65	43	34	37	36
Split level	10	8	4	5	5	1 or more	35	56	66	63	64
Foundation	100	100	100	100	100	**Parking facilities**	100	100	100	100	100
Full or partial basement	37	36	38	40	42	Garage	58	69	82	81	83
Slab	36	45	40	38	38	Carport	17	7	2	3	2
Crawl space	27	19	21	22	20	No garage or carport	25	24	16	17	15

NA Not available. [1] Included with "Conventional" financing. [2] Included with floor area of 2,000 to 2,399 square feet.

Source: U.S. Bureau of the Census and U.S. Dept. of Housing and Urban Development, *Current Construction Reports*, series C25, *Characteristics of New Housing*, annual.

No. 1224. New Privately Owned One-Family Houses Sold, by Region and Type of Financing, 1970 to 1992, and by Sales-Price Group, 1992

[**In thousands.** Based on a national probability sample of monthly interviews with builders or owners of one-family houses for which building permits have been issued or, for nonpermit areas, on which construction has started. For details, see source. For composition of regions, see table 31]

YEAR AND SALES-PRICE GROUP	Total sales	REGION				FINANCING TYPE			
		North-east	Midwest	South	West	Conven-tional	FHA and VA	Farmers Home Admin.	Cash
1970	485	61	100	203	121	[1]213	244	(1)	27
1971	656	82	127	270	176	[1]314	314	(1)	28
1972	718	96	130	305	187	[1]447	242	(1)	30
1973	634	95	120	257	161	[1]465	134	(1)	34
1974	519	69	103	207	139	[1]378	112	(1)	28
1975	549	71	106	222	150	363	122	43	22
1976	646	72	128	247	199	458	134	23	31
1977	819	86	162	317	255	592	166	24	38
1978	817	78	145	331	262	575	174	26	43
1979	709	67	112	304	225	469	186	18	36
1980	545	50	81	267	145	302	196	14	32
1981	436	46	60	219	112	244	142	14	36
1982	412	47	48	219	99	193	173	11	34
1983	623	76	71	323	152	350	217	8	49
1984	639	94	76	309	160	423	149	9	58
1985	688	112	82	323	170	403	208	11	64
1986	750	136	96	322	196	411	268	12	59
1987	671	117	97	271	186	408	190	8	64
1988	676	101	97	276	202	437	171	6	62
1989	650	86	102	260	202	416	162	14	58
1990	534	71	89	225	149	337	138	10	50
1991	509	57	93	215	144	329	128	9	43
1992	**610**	**65**	**116**	**259**	**170**	**428**	**134**	**7**	**41**
Under $80,000	100	2	22	63	13	40	45	7	8
$80,000 to $119,999	196	10	39	91	56	117	66	(B)	14
$120,000 to $149,999	111	13	21	41	36	87	15	(B)	8
$150,000 to $199,999	97	19	17	33	28	85	7	(B)	5
$200,000 and over	106	21	18	32	36	99	(B)	(B)	6

B Withheld because estimate did not meet publication standards on the basis of sample size. [1] Houses financed by Farmers Home Administration included under conventional financing.

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

No. 1225. Median Sales Price of New Privately Owned One-Family Houses Sold, by Region: 1970 to 1992

[**In dollars.** For definition of median, see Guide to Tabular Presentation. For composition of regions, see table 31]

YEAR	U.S.	North-east	Midwest	South	West	YEAR	U.S.	North-east	Midwest	South	West
1970	23,400	30,300	24,400	20,300	24,000	1982	69,300	78,200	68,900	66,100	75,000
1971	25,200	30,600	27,200	22,500	25,500	1983	75,300	82,200	79,500	70,900	80,100
1972	27,600	31,400	29,300	25,800	27,500	1984	79,900	88,600	85,400	72,000	87,300
1973	32,500	37,100	32,900	30,900	32,400	1985	84,300	103,300	80,300	75,000	92,600
1974	35,900	40,100	36,100	34,500	35,800	1986	92,000	125,000	88,300	80,200	95,700
1975	39,300	44,000	39,600	37,300	40,600	1987	104,500	140,000	95,000	88,000	111,000
1976	44,200	47,300	44,800	40,500	47,200	1988	112,500	149,000	101,600	92,000	126,500
1977	48,800	51,600	51,500	44,100	53,500	1989	120,000	159,600	108,800	96,400	139,000
1978	55,700	58,100	59,200	50,300	61,300	1990	122,900	159,000	107,900	99,000	147,500
1979	62,900	65,500	63,900	57,300	69,600	1991	120,000	155,900	110,000	100,000	141,100
1980	64,600	69,500	63,400	59,600	72,300	1992	121,500	169,000	115,600	105,500	130,400
1981	68,900	76,000	65,900	64,400	77,800						

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

No. 1226. New Mobile Homes Placed for Residential Use and Average Sales Price, by Region: 1980 to 1992

[A mobile home is a moveable dwelling, 10 feet or more wide and 35 feet or more long, designed to be towed on its own chassis and without need of a permanent foundation. Excluded are travel trailers, motor homes, and modular housing. Data are based on a probability sample and subject to sampling variability; see source. For composition of regions, see table 31]

YEAR	UNITS PLACED (1,000)					AVERAGE SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	U.S.	North-east	Mid-west	South	West
1980	233.7	12.3	32.3	140.3	48.7	19,800	18,500	18,600	18,200	25,400
1981	229.2	12.0	30.1	143.5	43.6	19,900	19,000	18,900	18,400	25,600
1982	234.1	12.4	25.6	161.1	35.0	19,700	19,800	20,000	18,500	24,700
1983	278.1	16.3	34.3	186.0	41.4	21,000	21,400	20,400	19,700	27,000
1984	287.9	19.8	35.2	193.4	39.4	21,500	22,200	21,100	20,200	27,400
1985	283.4	20.2	38.6	187.6	36.9	21,800	22,700	21,500	20,400	26,700
1986	256.1	21.2	37.2	162.3	35.4	22,400	24,400	21,800	20,700	29,900
1987	239.2	23.6	40.0	145.5	30.1	23,700	25,600	23,700	21,900	31,000
1988	224.3	22.7	39.1	130.7	31.8	25,100	27,000	24,600	22,700	33,900
1989	202.8	20.2	39.1	112.8	30.6	27,200	30,200	26,700	24,100	37,800
1990	195.4	18.8	37.7	108.4	30.6	27,800	30,000	27,000	24,500	39,300
1991	174.3	14.3	35.4	97.6	27.0	27,700	30,400	27,600	24,500	38,600
1992	212.0	15.0	42.2	124.4	30.4	28,400	30,900	28,800	25,400	39,000

No. 1227. Existing One-Family Houses Sold and Price, by Region: 1970 to 1992

[Based on data (adjusted and aggregated to regional and national totals) reported by participating real estate multiple listing services. For definition of median, see Guide to Tabular Presentation. For composition of regions, see table 31]

YEAR	HOUSES SOLD (1,000)					MEDIAN SALES PRICE (dol.)				
	Total	North-east	Mid-west	South	West	Total	North-east	Mid-west	South	West
1970	1,612	251	501	568	292	23,000	25,200	20,100	22,200	24,300
1971	2,018	311	583	735	389	24,800	27,100	22,100	24,300	26,500
1972	2,252	361	630	788	473	26,700	29,800	23,900	26,400	28,400
1973	2,334	367	674	847	446	28,900	32,800	25,300	29,000	31,000
1974	2,272	354	645	839	434	32,000	35,800	27,700	32,300	34,800
1975	2,476	370	701	862	543	35,300	39,300	30,100	34,800	39,600
1976	3,064	439	881	1,033	712	38,100	41,800	32,900	36,500	46,100
1977	3,650	515	1,101	1,231	803	42,900	44,400	36,700	39,800	57,300
1978	3,986	516	1,144	1,416	911	48,700	47,900	42,200	45,100	66,700
1979	3,827	526	1,061	1,353	887	55,700	53,600	47,800	51,300	77,400
1980	2,973	403	806	1,092	672	62,200	60,800	51,900	58,300	89,300
1981	2,419	353	632	917	516	66,400	63,700	54,300	64,400	96,200
1982	1,990	354	490	780	366	67,800	63,500	55,100	67,100	98,900
1983	2,719	493	709	1,035	481	70,300	72,200	56,600	69,200	94,900
1984	2,868	511	755	1,073	529	72,400	78,700	57,100	71,300	95,800
1985	3,214	622	866	1,172	554	75,500	88,900	58,900	75,200	95,400
1986	3,565	703	991	1,261	610	80,300	104,800	63,500	78,200	100,900
1987	3,526	685	959	1,282	600	85,600	133,300	66,000	80,400	113,200
1988	3,594	673	929	1,350	642	89,300	143,000	68,400	82,200	124,900
1989	3,346	531	855	1,185	775	93,100	145,200	71,300	84,500	139,900
1990	3,211	469	831	1,202	709	95,500	141,200	74,000	85,900	139,600
1991	3,220	479	840	1,199	702	100,300	141,900	77,800	88,900	147,200
1992	3,520	534	939	1,292	755	103,700	140,000	81,700	92,100	143,800

Source: National Association of REALTORS, Washington, DC, *Home Sales*, monthly, and *Home Sales Yearbook: 1990* (copyright).

No. 1228. Median Sales Price of Existing One-Family Homes, by Selected Metropolitan Area: 1985 to 1992

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

METROPOLITAN AREA	1985	1990	1991	1992	METROPOLITAN AREA	1985	1990	1991	1992
U.S., all areas	**75.5**	**95.5**	**100.3**	**103.7**	Memphis, TN-AR-MS	64.6	78.1	82.5	85.3
					Miami-Hialeah, FL PMSA	80.5	89.3	93.7	97.1
Albany-Schenectady-Troy, NY	60.3	106.9	110.3	111.4	Milwaukee, WI PMSA	67.5	84.4	90.0	97.0
Anaheim-Santa Ana, CA PMSA	134.7	242.4	239.7	234.9	Minneapolis-St. Paul, MN-WI	75.2	88.7	91.1	94.2
Baltimore, MD	72.6	105.9	110.1	113.4	Nashville, TN	66.1	81.8	86.9	88.8
Birmingham, AL	64.5	80.8	86.0	90.9	New Orleans, LA	(NA)	67.8	71.8	76.3
Boston, MA PMSA	134.2	174.1	170.1	171.1	New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA	134.0	174.9	173.5	172.7
Buffalo-Niagara Falls, NY CMSA	46.7	77.2	79.7	81.7	Oklahoma City, OK	64.7	53.2	57.0	61.6
Charlotte, NC	69.4	93.1	101.4	102.2	Orlando, FL	70.3	82.8	86.3	87.6
Chicago, IL PMSA	81.1	116.8	131.1	136.8	Philadelphia, PA-NJ PMSA	74.0	108.7	118.4	117.0
Cincinnati, OH-KY-IN PMSA	60.2	79.8	84.9	88.6	Phoenix, AZ	74.8	84.0	85.5	86.8
Cleveland, OH PMSA	64.4	80.6	86.2	90.7	Pittsburgh, PA PMSA	(NA)	70.1	74.2	78.6
Columbus, OH	62.2	81.6	85.2	91.0	Portland, OR PMSA	61.5	79.5	88.5	97.7
Dallas, TX PMSA	94.0	89.5	88.3	91.3	Richmond, VA	(NA)	87.5	92.5	93.9
Denver, CO PMSA	84.3	86.4	89.1	96.2	Riverside/San Bernardino, CA PMSA	85.0	132.1	137.6	136.2
Detroit, MI PMSA	51.7	76.7	80.6	81.3	Rochester, NY	64.2	79.8	81.5	84.7
Ft. Lauderdale-Hollywood-Pompano Beach, FL PMSA	74.6	92.6	96.2	99.1	St. Louis, MO-IL	65.7	76.7	79.4	83.2
Ft. Worth, TX PMSA	(NA)	76.7	77.6	80.2	Sacramento, CA	77.9	137.5	137.7	132.0
Hartford, CT PMSA	99.6	157.3	148.2	141.1	Salt Lake City-Ogden, UT	66.7	69.4	72.8	76.5
Honolulu, HI	162.1	352.0	340.0	349.0	San Antonio, TX	67.7	63.6	64.9	70.4
Houston, TX PMSA	78.6	70.7	74.0	80.2	San Diego, CA	107.4	183.2	187.5	183.8
Indianapolis, IN	55.0	74.8	79.1	83.7	San Francisco-Oakland-San Jose, CA CMSA	145.1	259.3	258.5	254.8
Jacksonville, FL	58.4	72.4	73.7	76.8	Seattle-Tacoma, WA CMSA	(NA)	142.0	143.1	145.7
Kansas City, MO-KS	61.4	74.1	76.6	79.5	Tampa-St. Petersburg-Clearwater, FL	58.4	71.4	71.3	72.6
Las Vegas, NV	75.1	93.0	101.4	104.3	Washington, DC-MD-VA	97.1	150.5	156.7	157.8
Los Angeles-Long Beach, CA PMSA	125.2	212.1	218.9	213.2	West Palm Beach-Boca Raton-Delray Beach, FL	88.3	108.0	116.3	114.1
Louisville, KY-IN	50.6	60.8	65.4	69.5					

NA Not available.
Source: National Association of REALTORS, Washington, DC, *Home Sales,* monthly, and *Home Sales Yearbook: 1990* (copyright).

No. 1229. Existing Home Sales, by State: 1985 to 1992

[**In thousands**]

REGION, DIVISION, AND STATE	1985	1989	1990	1991	1992	REGION, DIVISION, AND STATE	1985	1989	1990	1991	1992
U.S. [1]	**3,380.0**	**3,710.0**	**3,560.0**	**3,560.0**	**3,886.0**	DC	9.2	15.5	13.1	12.5	12.4
						VA	116.0	116.0	96.9	90.3	101.3
Northeast	**630.0**	**610.0**	**530.0**	**550.0**	**612.0**	WV	31.1	36.8	42.0	43.3	46.8
N.E	**156.9**	**142.8**	**(NA)**	**(NA)**	**139.4**	NC	107.9	127.5	135.9	139.9	160.2
ME	21.8	9.0	(NA)	(NA)	10.3	SC	48.4	52.2	57.8	53.9	58.9
NH	14.5	9.7	7.9	9.3	12.0	GA	58.7	73.6	73.2	70.7	(NA)
VT	7.5	6.2	6.1	8.1	9.5	FL	142.7	177.6	183.3	176.0	179.2
MA	60.2	67.4	44.0	49.6	57.6	**E.S.C**	**230.6**	**253.3**	**254.9**	**259.0**	**292.6**
RI	10.3	9.5	7.8	7.8	10.0	KY	51.8	62.2	66.4	67.8	78.7
CT	42.6	41.0	34.3	37.6	40.0	TN	89.3	95.2	92.7	92.0	102.2
M.A	**467.7**	**460.6**	**423.0**	**425.2**	**472.8**	AL	54.8	59.4	61.1	64.0	72.5
NY	150.0	140.2	125.5	127.2	136.3	MS	34.7	36.5	34.7	35.2	39.2
NJ	160.2	126.6	114.8	118.8	132.1	**W.S.C**	**312.1**	**350.5**	**379.8**	**385.0**	**395.1**
PA	157.5	193.8	182.7	179.2	204.4	AR	49.9	47.5	44.8	43.4	47.8
Midwest	**850.0**	**920.0**	**890.0**	**900.0**	**1,006.0**	LA	36.4	40.8	41.6	47.1	47.0
E.N.C	**581.5**	**633.4**	**609.3**	**618.9**	**687.2**	OK	42.3	49.1	53.4	52.5	57.6
OH	147.6	163.4	151.6	149.8	167.4	TX	183.5	213.1	240.0	242.0	242.7
IN	88.4	81.6	80.1	76.0	84.8	**West**	**770.0**	**890.0**	**830.0**	**810.0**	**861.0**
IL	130.2	162.7	160.9	168.1	186.2	**Mt.**	**243.0**	**230.5**	**250.6**	**256.7**	**295.6**
MI	153.4	151.6	145.0	145.0	157.3	MT	11.7	13.0	12.7	13.9	16.6
WI	61.9	74.1	71.7	80.0	91.5	ID	14.2	15.0	18.1	19.0	21.6
W.N.C	**270.2**	**285.4**	**280.9**	**281.7**	**320.8**	WY	8.0	7.3	7.4	8.2	9.9
MN	67.4	62.7	64.8	66.3	75.7	CO	64.4	53.9	54.2	59.6	71.4
IA	36.4	54.6	51.9	54.1	53.1	NM	22.2	21.9	23.6	24.4	29.2
MO	78.9	81.0	84.1	82.7	98.8	AZ	83.6	77.7	86.3	79.7	89.8
ND	8.8	10.3	10.4	10.3	11.9	UT	22.1	20.3	22.1	26.3	31.5
SD	10.5	10.8	11.6	11.3	12.7	NV	16.8	21.4	26.2	25.6	25.6
NE	22.6	20.9	19.3	19.9	22.4	**Pac**	**524.6**	**711.1**	**(NA)**	**(NA)**	**(NA)**
KS	45.6	45.1	38.8	37.1	46.2	WA	61.8	90.8	87.7	86.9	91.3
South	**1,140.0**	**1,290.0**	**1,310.0**	**1,310.0**	**1,407.0**	OR	36.1	53.2	56.6	48.1	52.5
S.A	**596.6**	**687.8**	**679.0**	**663.8**	**(NA)**	CA [2]	404.9	539.3	452.1	424.1	427.8
DE	11.3	11.8	9.7	10.4	10.0	AK	9.5	6.6	(NA)	(NA)	(NA)
MD	71.3	76.8	67.1	66.8	69.0	HI	12.3	21.2	19.2	12.2	11.6

NA Not available. [1] U.S. totals are derived independently and therefore are not equal to the sum of the States. [2] Provided by the California Association of Realtors.
Source: NATIONAL ASSOCIATION OF REALTORS, Washington, DC, *Existing Home Sales,* monthly. (copyright.)

No. 1230. New Apartments Completed and Rented in 3 Months, by Region: 1980 to 1991

[Structures with five or more units, privately financed, nonsubsidized, unfurnished apartments. Based on sample and subject to sampling variability. For composition of regions, see table 31]

YEAR AND RENT	NUMBER (1,000)					PERCENT RENTED IN 3 MONTHS				
	U.S.	North-east	Mid-west	South	West	U.S.	North-east	Mid-west	South	West
1980	196.1	14.2	43.8	91.5	46.6	75	77	77	74	75
1981	135.3	4.9	36.9	68.4	25.1	80	85	86	78	75
1982	117.0	4.6	21.9	66.8	23.7	72	74	79	70	72
1983	191.5	3.5	41.1	115.1	31.8	69	73	86	63	69
1984	313.2	3.8	41.2	194.4	73.9	67	64	79	63	70
1985	365.2	8.1	54.0	166.1	137.0	65	69	72	59	68
1986	407.6	16.9	64.5	171.7	154.5	66	70	70	62	67
1987	345.6	11.3	66.0	124.5	143.9	63	73	65	59	64
1988	284.5	8.7	60.4	91.7	123.8	66	52	73	58	69
1989	247.8	13.4	45.8	86.3	102.3	70	74	74	68	69
1990	214.3	12.7	44.3	77.2	80.0	67	66	75	64	65
1991	**165.3**	**6.8**	**37.8**	**63.3**	**57.5**	**70**	**83**	**78**	**65**	**68**
Less than $350	13.2	1.5	4.8	6.3	0.5	83	98	95	70	85
$350-$449	13.8	1.5	4.1	7.0	1.3	78	78	87	73	79
$450-$549	32.8	0.7	7.2	14.4	10.5	72	72	83	67	72
$550-$649	36.3	1.0	9.0	11.7	14.7	70	77	75	65	71
$650-$749	22.9	0.7	4.6	8.2	9.4	69	90	79	62	68
$750 or more	46.4	1.4	8.2	15.6	21.1	63	75	64	60	63
Median asking rent	612	508	581	583	668	(X)	(X)	(X)	(X)	(X)

X Not applicable.

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

No. 1231. Gross Housing Product—Summary: 1970 to 1991

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

ITEM	CURRENT DOLLARS						CONSTANT (1987) DOLLARS					
	1970	1980	1985	1989	1990	1991	1970	1980	1985	1989	1990	1991
Housing output [1]	90.5	245.3	377.0	493.4	525.7	551.7	257.6	383.1	418.7	450.3	456.6	461.7
Nonfarm housing	87.3	240.2	372.0	488.4	520.6	546.4	249.6	376.9	413.5	445.7	452.1	457.2
Owner-occupied	61.3	178.4	271.0	355.8	379.8	399.1	174.4	278.7	301.3	322.8	326.9	330.7
Tenant-occupied	26.0	61.8	101.0	132.6	140.8	147.3	75.1	98.2	112.2	122.9	125.2	126.5
Farm housing	3.3	5.1	5.0	5.0	5.2	5.3	8.0	6.3	5.3	4.6	4.5	4.5
Less: Intermediate goods and services consumed	*13.0*	*35.8*	*49.9*	*65.1*	*71.6*	*74.2*	*37.0*	*55.9*	*55.4*	*61.2*	*62.3*	*63.0*
Equals: **Gross housing product**	**77.5**	**209.5**	**327.1**	**428.3**	**454.1**	**477.5**	**220.6**	**327.2**	**363.3**	**389.1**	**394.3**	**398.7**

[1] Equals personal consumption expenditures (see text, section 14) for housing, less expenditures for transient hotels, motels, clubs, schools, and other group housing.

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business,* July 1992 issue, and *National Income and Product Accounts of the United States: Volume 2, 1959-88.*

No. 1232. Residential Capital—Yearend Stocks and Average Age: 1970 to 1991

[As of **Dec. 31.** Data based on fixed residential capital formation components of the gross national product. For definition of current and constant dollars, see Guide to Tabular Presentation]

ITEM	CURRENT DOLLARS (bil. dol.)					CONSTANT (1987) DOLLARS (bil. dol.)					AVERAGE AGE [1] (years)				
	1970	1980	1985	1990	1991	1970	1980	1985	1990	1991	1970	1980	1985	1990	1991
Gross stocks [2]	**1,244**	**4,391**	**5,726**	**7,563**	**7,889**	**3,961**	**5,443**	**6,078**	**6,917**	**7,032**	**24.8**	**23.2**	**23.6**	**23.6**	**23.8**
Private nonfarm:															
1 to 4 units	1,001	3,502	4,566	6,074	6,344	3,208	4,356	4,852	5,556	5,657	25.3	23.9	24.3	24.2	24.4
5 or more units	131	522	701	933	973	421	647	746	853	864	17.7	17.8	18.7	19.8	20.3
Farm (1 to 4 units)	55	136	150	163	166	176	170	159	150	147	43.9	42.8	43.4	43.2	43.2
Private nonhouse-keeping	10	24	27	32	32	32	29	29	29	29	14.6	19.3	22.0	23.7	23.9
Mobile homes	15	79	104	124	129	31	88	106	112	110	5.1	7.7	9.2	10.7	11.0
Public: Federal, State and local	25	99	135	176	184	80	122	144	162	166	14.9	17.2	18.1	19.5	19.8
Net stocks [2 3]	**813**	**2,910**	**3,733**	**4,913**	**5,095**	**2,590**	**3,607**	**3,964**	**4,491**	**4,542**	**16.2**	**15.8**	**16.6**	**16.8**	**17.1**
Private nonfarm:															
1 to 4 units	656	2,334	2,998	3,991	4,147	2,102	2,902	3,186	3,649	3,698	16.8	16.3	17.1	17.2	17.4
5 or more units	93	371	487	629	648	301	459	518	575	576	11.0	12.8	14.0	15.2	15.7
Farm (1 to 4 units)	24	58	62	68	69	76	73	66	62	61	28.7	26.4	27.2	26.6	26.6
Private nonhouse-keeping	6	12	12	14	14	21	15	13	12	12	9.0	16.0	18.5	18.4	18.3
Mobile homes	11	48	57	62	63	23	54	58	55	53	3.8	6.0	6.7	7.5	7.7
Public: Federal, State and local	18	70	93	117	121	60	87	100	107	109	12.7	13.5	13.7	14.6	14.7

[1] Constant-dollar stocks. [2] Includes equipment, not shown separately. [3] Based on straight-line depreciation.

Source: U.S. Bureau of Economic Analysis, *Fixed Reproducible Tangible Wealth in the United States, 1925-89,* and *Survey of Current Business,* January and August 1992 issues.

No. 1233. Housing Units—Selected Characteristics, by State: 1990

[As of April 1]

REGION, DIVISION, AND STATE	ALL HOUSING UNITS								OCCUPIED UNITS		VACANT UNITS	
	Total (1,000)	Percent change, 1980-90	Units in structure						Total (1,000)	With 1.01 or more persons per room	Total (1,000)	Vacancy rate (percent)
			1 unit detached	1 unit attached	2-4 units	5-9 units	10 or more units	Mobile homes, trailers				
U.S.	**102,264**	**15.7**	**60,383**	**5,378**	**9,876**	**4,936**	**13,169**	**7,400**	**91,947**	**4,549**	**10,316**	**10.1**
Northeast	**20,811**	**9.0**	**10,253**	**1,657**	**3,488**	**1,019**	**3,464**	**637**	**18,873**	**735**	**1,938**	**9.3**
N.E.	**5,570**	**14.8**	**3,050**	**211**	**1,133**	**327**	**620**	**153**	**4,943**	**112**	**628**	**11.3**
ME	587	17.2	378	12	74	29	26	55	465	8	122	20.7
NH	504	30.4	298	23	68	27	46	35	411	7	93	18.6
VT	271	21.5	168	9	41	14	10	23	211	4	61	22.3
MA	2,473	12.0	1,238	89	597	159	339	24	2,247	57	226	9.1
RI	415	11.2	219	11	109	23	43	5	378	9	37	8.8
CT	1,321	14.0	749	67	244	75	155	12	1,230	28	90	6.8
M.A	**15,240**	**7.1**	**7,203**	**1,446**	**2,355**	**692**	**2,844**	**483**	**13,930**	**623**	**1,310**	**8.6**
NY	7,227	5.2	2,929	302	1,320	375	1,998	195	6,639	432	588	8.1
NJ	3,075	10.9	1,637	235	527	146	453	34	2,795	109	281	9.1
PA	4,938	7.4	2,637	910	507	171	393	255	4,496	83	442	9.0
Midwest	**24,493**	**7.3**	**16,218**	**754**	**2,394**	**1,080**	**2,470**	**1,339**	**22,317**	**558**	**2,176**	**8.9**
E.N.C	**17,028**	**6.6**	**11,044**	**544**	**1,825**	**827**	**1,759**	**861**	**15,597**	**413**	**1,431**	**8.4**
OH	4,372	6.4	2,897	148	461	204	416	206	4,088	72	284	6.5
IN	2,246	7.4	1,574	57	171	100	168	157	2,065	45	181	8.0
IL	4,506	4.3	2,557	158	648	291	663	151	4,202	167	304	6.7
MI	3,848	7.2	2,673	131	268	151	337	246	3,419	91	429	11.1
WI	2,056	10.3	1,342	50	277	81	175	101	1,822	38	234	11.4
W.N.C	**7,465**	**9.0**	**5,175**	**211**	**569**	**253**	**711**	**478**	**6,720**	**145**	**744**	**10.0**
MN	1,848	14.6	1,231	69	115	45	276	91	1,648	34	201	10.9
IA	1,144	1.1	853	18	87	41	77	57	1,064	16	79	6.9
MO	2,199	10.6	1,490	57	212	85	172	164	1,961	48	238	10.8
ND	276	6.8	173	10	21	12	30	27	241	5	35	12.8
SD	292	5.6	202	5	19	10	22	31	259	8	33	11.4
NE	661	5.7	479	16	40	25	59	37	602	11	58	8.8
KS	1,044	9.3	747	35	74	35	75	71	945	24	99	9.5
South	**36,065**	**22.6**	**22,007**	**1,725**	**2,349**	**1,724**	**4,068**	**3,835**	**31,822**	**1,524**	**4,243**	**11.8**
S.A.	**18,719**	**27.4**	**10,607**	**1,250**	**1,269**	**978**	**2,352**	**2,095**	**16,503**	**675**	**2,216**	**11.8**
DE	290	21.5	156	40	14	10	33	35	247	6	42	14.6
MD	1,892	20.4	939	393	104	106	294	43	1,749	53	143	7.6
DC	278	0.5	35	71	31	21	118	-	250	21	29	10.4
VA	2,496	23.5	1,532	216	144	136	287	159	2,292	65	205	8.2
WV	781	4.5	546	11	46	20	29	119	689	13	93	11.9
NC	2,818	23.9	1,830	74	178	131	151	430	2,517	73	301	10.7
SC	1,424	23.4	898	34	92	67	80	241	1,258	51	166	11.7
GA	2,638	30.1	1,639	73	198	168	233	305	2,367	96	272	10.3
FL	6,100	39.3	3,033	336	462	321	1,128	763	5,135	298	965	15.8
E.S.C	**6,214**	**13.1**	**4,213**	**130**	**408**	**260**	**406**	**735**	**5,652**	**192**	**562**	**9.0**
KY	1,507	10.1	1,011	25	109	65	96	185	1,380	36	127	8.4
TN	2,026	15.9	1,358	55	146	93	166	189	1,854	51	172	8.5
AL	1,670	13.8	1,134	32	96	66	102	224	1,507	53	164	9.8
MS	1,010	10.8	710	17	57	36	41	137	911	53	99	9.8
W.S.C	**11,132**	**20.6**	**7,187**	**345**	**673**	**485**	**1,310**	**1,006**	**9,668**	**657**	**1,465**	**13.2**
AR	1,001	11.4	709	18	61	27	44	132	891	33	109	10.9
LA	1,716	10.8	1,084	79	152	59	125	196	1,499	89	217	12.6
OK	1,406	13.7	1,005	33	69	56	100	130	1,206	40	200	14.2
TX	7,009	26.3	4,389	215	391	343	1,041	548	6,071	495	938	13.6
West	**20,895**	**22.3**	**11,905**	**1,242**	**1,645**	**1,113**	**3,166**	**1,589**	**18,935**	**1,732**	**1,960**	**9.4**
Mt	**5,864**	**29.3**	**3,422**	**300**	**399**	**231**	**751**	**691**	**5,033**	**271**	**831**	**14.2**
MT	361	10.0	238	8	29	10	17	54	306	9	55	15.2
ID	413	10.2	286	9	29	12	17	57	361	15	53	12.7
WY	203	8.1	129	6	16	6	10	33	169	5	35	17.0
CO	1,477	23.7	884	87	90	64	249	89	1,282	38	195	13.2
NM	632	24.5	388	28	39	16	48	103	543	43	89	14.1
AZ	1,659	49.4	868	110	88	61	257	251	1,369	102	291	17.5
UT	598	22.1	393	24	58	21	62	35	537	30	61	10.2
NV	519	52.6	236	27	50	41	90	70	466	30	53	10.1
Pac	**15,031**	**19.8**	**8,483**	**942**	**1,246**	**882**	**2,415**	**898**	**13,902**	**1,461**	**1,129**	**7.5**
WA	2,032	20.3	1,273	48	139	91	275	188	1,872	73	160	7.9
OR	1,194	10.2	764	32	86	47	119	134	1,103	40	90	7.6
CA	11,183	20.5	6,119	812	966	706	1,900	555	10,381	1,275	802	7.2
AK	233	42.9	124	16	30	16	21	20	189	16	44	18.8
HI	390	16.6	203	34	24	22	100	(Z)	356	57	34	8.6

Z Less than 500 units.

Source: U.S. Bureau of the Census, *1990 Census of Housing, General Housing Characteristics*, series CH-1, and *Census of Population and Housing, 1990: Summary Tape File 1C on CD-ROM.*

No. 1234. Housing Units—Historical Trends for Selected Characteristics: 1940 to 1990

[As of **April 1.** Based on the Census of Population and Housing; see Appendix III]

CHARACTERISTIC	NUMBER OF UNITS						PERCENT DISTRIBUTION					
	1940	1950	1960	1970	1980	1990	1940	1950	1960	1970	1980	1990
UNITS IN STRUCTURE												
All housing units [1]	37,325	45,983	58,315	67,699	86,759	102,264	100.0	100.0	100.0	100.0	100.0	100.0
One detached	23,731	29,116	40,103	44,801	53,596	60,383	63.6	63.3	68.8	66.2	61.8	59.0
One attached	[2]2,835	[3]2,799	3,655	1,990	3,587	5,378	[2]7.6	[3]6.1	6.3	2.9	4.1	5.3
Two	3,464	5,302	4,464	5,444	5,309	4,948	9.3	11.5	7.7	8.0	6.1	4.8
Three or four	2,259	3,374	3,088	3,563	4,373	4,928	6.1	7.3	5.3	5.3	5.0	4.8
Five or more	3,928	5,078	6,238	9,829	15,478	18,105	10.5	11.0	10.7	14.5	17.8	17.7
Mobile home or trailer	(NA)	315	767	2,073	4,416	7,400	(NA)	0.7	1.3	3.1	5.1	7.2
Other	[4]1,108	(NA)	(NA)	(NA)	(NA)	1,121	[4]3.0	(NA)	(NA)	(NA)	(NA)	1.1
PLUMBING FACILITIES												
All housing units [1]	35,026	44,502	58,315	67,657	86,693	102,264	100.0	100.0	100.0	100.0	100.0	100.0
Complete plumbing facilities	19,174	28,729	48,537	62,984	84,359	101,162	54.7	64.6	83.2	93.1	97.3	98.9
Lacking complete plumbing facilities	15,852	15,773	9,778	4,672	2,334	1,102	45.3	35.4	16.8	6.9	2.7	1.1
Not reported	2,299	1,481	(NA)	(NA)	(NA)	(NA)	(X)	(X)	(NA)	(NA)	(NA)	(NA)
TELEPHONE IN HOUSING UNIT [5]												
Occupied housing units	33,884	41,829	53,024	63,450	80,390	91,947	(NA)	(NA)	100.0	100.0	100.0	100.0
With telephone	(NA)	(NA)	41,618	55,177	74,720	87,130	(NA)	(NA)	78.5	87.0	92.9	94.8
No telephone	(NA)	(NA)	11,406	8,273	5,670	4,817	(NA)	(NA)	21.5	13.0	7.1	5.2

NA Not available. X Not applicable. [1] Data for 1970 and 1980 are "Year-round housing units," which exclude seasonal and migratory vacant units. [2] Includes 1,656,858 units classified as "two-family side-by-side." [3] Includes 1,588,902 units classified as "one and two dwelling unit." [4] Covers 166,975 units classified as "Other dwelling place" and 940,726 units classified as "one- to four-family with business." [5] Beginning 1980, data are not completely comparable with earlier years due to change in question asked.

Source: U.S. Bureau of the Census, *1990 Census of Housing*, series CH-1, and earlier census reports.

No. 1235. Occupied Housing Units—Tenure, by Race of Householder: 1920 to 1990

[In thousands, except as indicated. As of **April 1.** Prior to **1960,** excludes Alaska and Hawaii. Statistics on the number of occupied units are essentially comparable although identified by various terms. See also *Historical Statistics, Colonial Times to 1970*, series N 238-245]

RACE AND TENURE	1920	1930	1940	1950	1960	1970	1980	1990
ALL RACES								
Occupied units, total	24,352	29,905	34,855	42,826	53,024	63,445	80,390	91,947
Owner occupied	11,114	14,280	15,196	23,560	32,797	39,886	51,795	59,025
Percent of occupied	45.6	47.8	43.6	55.0	61.9	62.9	64.4	64.2
Renter occupied	13,238	15,624	19,659	19,266	20,227	23,560	28,595	32,923
WHITE								
Occupied units, total	21,826	26,983	31,561	39,044	47,880	56,606	68,810	76,880
Owner occupied	10,511	13,544	14,418	22,241	30,823	37,005	46,671	52,433
Percent of occupied	48.2	50.2	45.7	57.0	64.4	65.4	67.8	68.2
Renter occupied	11,315	13,439	17,143	16,803	17,057	19,601	22,139	24,447
BLACK AND OTHER								
Occupied units, total	2,526	2,922	3,293	3,783	5,144	6,839	11,580	15,067
Owner occupied	603	737	778	1,319	1,974	2,881	5,124	6,592
Percent of occupied	23.9	25.2	23.6	34.9	38.4	42.1	44.2	43.8
Renter occupied	1,923	2,185	2,516	2,464	3,170	3,959	6,456	8,475

Source: U.S. Bureau of the Census, *Census of Housing: 1960*, vol. 1; *1970*, vol. 1; *1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *1990 Census of Housing, General Housing Characteristics*, series CH-90-1.

No. 1236. Occupied Housing Units—Tenure, by Race and Hispanic Origin of Householder: 1980 and 1990

[As of **April 1.** Based on the Census of Population and Housing; see Appendix III]

RACE AND HISPANIC ORIGIN OF HOUSEHOLDER	ALL HOUSEHOLDS			OWNER OCCUPIED		PERCENT OWNER OCCUPIED		RENTER OCCUPIED	
	1980	1990	Percent change, 1980-1990	1980	1990	1980	1990	1980	1990
Total units	**80,389,673**	**91,947,410**	**14.4**	**51,794,545**	**59,024,811**	**64.4**	**64.2**	**28,595,128**	**32,922,599**
White	68,810,123	76,880,105	11.7	46,670,775	52,432,648	67.8	68.2	22,139,348	24,447,457
Black	8,381,668	9,976,161	19.0	3,724,251	4,327,265	44.4	43.4	4,657,417	5,648,896
American Indian, Eskimo, or Aleut	397,252	591,372	48.9	212,209	318,001	53.4	53.8	185,043	273,371
Asian or Pacific Islander	993,458	2,013,735	102.7	521,230	1,050,182	52.5	52.2	472,228	963,553
Other race	1,807,172	2,486,037	37.6	666,080	896,715	36.9	36.1	1,141,092	1,589,322
Hispanic origin [1]	4,007,896	6,001,718	49.7	1,738,920	2,545,584	43.4	42.4	2,268,976	3,456,134

[1] Persons of Hispanic origin may be of any race.

U.S. Bureau of the Census, *1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *1990 Census of Housing, General Housing Characteristics*, series CH-1.

No. 1237. Occupied Housing Units—Tenure, by Age of Householder: 1980 and 1990

[As of April 1]

AGE OF HOUSEHOLDER	OWNER OCCUPIED				RENTER OCCUPIED			
	Number (1,000)		Percent		Number (1,000)		Percent	
	1980	1990	1980	1990	1980	1990	1980	1990
Total units	**51,797**	**59,024**	**64.4**	**64.2**	**28,594**	**32,922**	**35.6**	**35.8**
15 to 24 years old	1,459	862	22.1	17.1	5,137	4,187	77.9	82.9
25 to 34 years old	9,439	9,000	51.6	45.3	8,844	10,849	48.4	54.7
35 to 44 years old	9,895	13,503	71.2	66.2	3,997	6,890	28.8	33.8
45 to 54 years old	[1]19,563	10,774	[1]77.3	75.3	[1]5,744	3,529	[1]22.7	24.7
55 to 64 years old	([1])	9,864	([1])	79.7	([1])	2,515	([1])	20.3
65 to 74 years old	[2]11,441	9,072	[2]70.1	78.8	[2]4,872	2,445	[2]29.9	21.2
75 years old and over	([2])	5,949	([2])	70.4	([2])	2,507	([2])	29.6

[1] Householders age 55 to 64 years old are included with householders 45 to 54 years. [2] Householders age 75 years old and over are included with householders 65 to 74 years old.

Source: U.S. Bureau of the Census, *1980 Census of Housing*, vol. 1, chapter A (HC80-1-A); and *1990 Census of Housing, General Housing Characteristics*, series CH-1.

No. 1238. Occupied Housing Units—Housing Value and Gross Rent, by Region: 1990

[Specified owner-occupied units are limited to one-unit structures on less than 10 acres and no business on property. Specified renter-occupied units exclude one-unit on 10 acres or more. Based on the Census of Population and Housing; see Appendix III. For composition of regions, see table 31]

CATEGORY	NUMBER (1,000)					PERCENT DISTRIBUTION				
	Total units	North-east	Midwest	South	West	Total units	North-east	Mid-west	South	West
VALUE										
Specified owner occupied units	**44,918.0**	**8,762.9**	**11,794.7**	**15,595.6**	**8,764.8**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Less than $15,000	1,177.0	114.8	412.0	583.6	66.6	2.6	1.3	3.5	3.7	0.8
$15,000 to $19,999	761.0	85.8	293.1	343.5	38.6	1.7	1.0	2.5	2.2	0.4
$20,000 to $24,999	1,018.8	118.2	392.2	451.2	57.2	2.3	1.3	3.3	2.9	0.7
$25,000 to $29,999	1,232.9	137.5	475.9	544.8	74.7	2.7	1.6	4.0	3.5	0.9
$30,000 to $34,999	1,572.0	168.5	597.5	698.1	107.9	3.5	1.9	5.1	4.5	1.2
$35,000 to $39,999	1,737.5	172.9	642.2	787.2	135.1	3.9	2.0	5.4	5.0	1.5
$40,000 to $44,999	1,985.6	202.0	717.8	887.9	178.0	4.4	2.3	6.1	5.7	2.0
$45,000 to $49,999	1,917.7	187.4	683.0	844.2	203.2	4.3	2.1	5.8	5.4	2.3
$50,000 to $59,999	3,940.0	410.5	1,361.4	1,673.5	494.6	8.8	4.7	11.5	10.7	5.6
$60,000 to $74,999	5,959.6	703.8	1,923.1	2,440.9	891.9	13.3	8.0	16.3	15.7	10.2
$75,000 to $99,999	7,057.8	1,162.6	1,961.0	2,639.2	1,295.0	15.7	13.3	16.6	16.9	14.8
$100,000 to $124,999	3,808.2	941.1	873.3	1,188.4	805.3	8.5	10.7	7.4	7.6	9.2
$125,000 to $149,999	2,965.1	944.5	534.9	789.4	696.3	6.6	10.8	4.5	5.1	7.9
$150,000 to $174,999	2,316.2	886.8	312.4	507.5	609.5	5.2	10.1	2.6	3.3	7.0
$175,000 to $199,999	1,701.0	688.3	181.4	315.2	516.1	3.8	7.9	1.5	2.0	5.9
$200,000 to $249,999	2,084.3	776.4	187.8	354.6	765.4	4.6	8.9	1.6	2.3	8.7
$250,000 to $299,999	1,292.6	416.7	96.1	203.5	576.3	2.9	4.8	0.8	1.3	6.6
$300,000 to $399,999	1,206.8	344.1	78.7	176.8	607.2	2.7	3.9	0.7	1.1	6.9
$400,000 to $499,999	501.3	131.1	31.1	70.1	269.2	1.1	1.5	0.3	0.4	3.1
$500,000 and over	682.5	169.8	39.8	96.2	376.7	1.5	1.9	0.3	0.6	4.3
Median value (dol.)	$79,100	$124,400	$62,500	$66,000	$126,200	(X)	(X)	(X)	(X)	(X)
GROSS RENT										
Specified renter occupied units	**32,170.0**	**7,215.4**	**6,854.9**	**10,461.4**	**7,638.3**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Less than $100	541.7	75.1	143.2	271.3	52.1	1.7	1.0	2.1	2.6	1.7
$100 to $149	1,125.0	295.0	288.4	425.0	116.6	3.5	4.1	4.2	4.1	3.5
$150 to $199	1,148.4	250.2	297.4	405.5	195.3	3.6	3.5	4.3	3.9	3.6
$200 to $249	1,553.0	280.2	430.6	607.1	235.1	4.8	3.9	6.3	5.8	4.8
$250 to $299	2,183.2	355.5	609.1	875.0	343.6	6.8	4.9	8.9	8.4	6.8
$300 to $349	2,793.5	465.2	761.9	1,088.9	477.5	8.7	6.4	11.1	10.4	8.7
$350 to $399	3,085.7	552.3	830.6	1,130.5	572.3	9.6	7.7	12.1	10.8	9.6
$400 to $449	3,118.8	621.9	793.2	1,072.7	631.0	9.7	8.6	11.6	10.3	9.7
$450 to $499	2,816.3	611.6	664.0	912.3	628.4	8.8	8.5	9.7	8.7	8.8
$500 to $549	2,438.9	582.9	511.5	736.8	607.7	7.6	8.1	7.5	7.0	7.6
$550 to $599	1,968.1	498.1	362.9	563.2	543.9	6.1	6.9	5.3	5.4	6.1
$600 to $649	1,637.9	449.0	258.0	431.2	499.6	5.1	6.2	3.8	4.1	5.1
$650 to $699	1,336.3	387.6	175.8	328.2	444.7	4.2	5.4	2.6	3.1	4.2
$700 to $749	1,090.2	324.5	125.7	248.5	391.6	3.4	4.5	1.8	2.4	3.4
$750 to $999	2,637.8	809.3	243.2	494.3	1,090.9	8.2	11.2	3.5	4.7	8.2
$1,000 or more	1,276.0	428.3	86.9	228.9	532.0	4.0	5.9	1.3	2.2	4.0
No cash rent	1,419.3	226.8	272.3	642.1	276.1	4.4	3.2	4.0	6.1	4.4
Median gross rent (dol.)	$447	$499	$396	$405	$535	(X)	(X)	(X)	(X)	(X)

X Not applicable.

Source: U.S. Bureau of the Census, *1990 Census of Housing, General Housing Characteristics*, series CH-1.

No. 1239. Occupied Housing Units—

[In thousands of units, except as indicated. As of April.

STATE	Total housing units	SPECIFIED OWNER-OCCUPIED UNITS								
		Value categories						Lower quartile value[1] (dol.)	Median (dol.)	Upper quartile value[1] (dol.)
		Less than $50,000	$50,000 to $99,999	$100,000 to $149,000	$150,000 to $199,000	$200,000 to $299,000	$300,000 or more			
United States . .	**44,918.0**	**11,402.5**	**16,957.5**	**6,773.3**	**4,017.2**	**3,376.9**	**2,390.7**	**49,500**	**79,100**	**137,800**
Alabama	753.8	343.9	310.7	62.5	20.1	11.3	5.4	35,500	53,700	78,800
Alaska	77.5	11.0	31.9	23.0	7.5	3.2	0.9	66,400	94,400	128,500
Arizona	668.7	98.7	372.7	118.8	40.6	23.9	14.0	59,800	80,100	109,900
Arkansas	427.7	235.6	156.9	23.3	6.8	3.5	1.6	31,100	46,300	68,700
California	4,690.3	119.0	636.6	812.1	851.5	1,151.0	1,120.0	127,100	195,500	294,800
Colorado	637.6	84.1	363.1	122.8	37.4	19.9	10.3	62,500	82,700	109,700
Connecticut	643.5	4.6	36.7	165.3	188.0	150.3	98.5	139,000	177,800	246,000
Delaware	137.5	11.8	56.8	38.5	15.6	10.5	4.3	74,800	100,100	143,900
District of Columbia	71.5	1.7	25.2	15.0	6.9	8.4	14.4	86,700	123,900	258,700
Florida	2,378.2	433.1	1,239.1	381.9	151.5	100.6	72.0	56,100	77,100	112,200
Georgia	1,138.8	314.5	531.2	163.2	66.9	39.9	23.1	47,300	71,300	102,100
Hawaii	144.4	3.3	13.1	16.7	21.1	39.7	50.5	156,800	245,300	358,800
Idaho	177.3	66.8	89.4	14.2	3.7	2.0	1.2	42,100	58,200	79,700
Illinois	2,084.7	525.1	786.6	403.2	183.7	114.5	71.6	49,800	80,900	128,300
Indiana	1,137.8	514.3	484.0	92.8	27.0	13.7	6.0	36,500	53,900	78,200
Iowa	566.6	317.8	209.7	27.7	7.0	3.3	1.1	30,200	45,900	65,900
Kansas	500.6	238.0	199.6	41.1	12.3	6.4	3.1	32,400	52,200	78,000
Kentucky	662.2	326.9	260.5	47.5	15.9	8.0	3.4	33,400	50,500	73,400
Louisiana	733.9	289.1	344.5	63.0	19.8	11.5	6.1	38,200	58,500	83,000
Maine	214.7	37.5	95.2	49.3	18.0	10.0	4.7	60,100	87,400	123,300
Maryland	970.9	87.3	300.9	274.2	139.6	103.3	65.6	79,000	116,500	169,300
Massachusetts	1,004.6	9.5	93.5	310.8	298.3	196.4	96.1	126,800	162,800	216,000
Michigan	1,916.1	737.2	814.5	219.2	79.3	46.0	20.0	38,500	60,600	90,600
Minnesota	894.3	204.9	482.3	138.2	38.6	21.1	9.2	52,200	74,000	98,200
Mississippi	441.8	249.3	156.1	24.2	7.0	3.6	1.6	31,400	45,600	67,800
Missouri	1,005.4	385.1	452.6	102.0	33.6	20.3	11.9	38,800	59,800	87,100
Montana	132.4	52.3	68.3	8.4	2.1	1.0	0.3	40,000	56,600	74,200
Nebraska	314.4	155.3	132.4	18.5	4.7	2.4	1.0	32,800	50,400	70,400
Nevada	183.8	8.4	93.3	51.3	16.0	9.1	5.6	75,400	95,700	129,400
New Hampshire	199.4	6.3	45.6	79.9	39.9	21.1	6.6	98,400	129,400	167,600
New Jersey	1,466.3	45.5	241.4	348.8	367.3	301.5	161.9	112,300	162,300	225,000
New Mexico	262.3	73.5	128.2	37.3	12.8	7.2	3.3	46,700	70,100	97,800
New York	2,387.6	243.8	674.4	431.6	439.0	381.0	217.8	76,200	131,600	200,400
North Carolina	1,218.0	382.8	575.7	155.2	56.3	33.1	15.0	44,700	65,800	94,900
North Dakota	103.7	50.6	46.3	5.1	1.1	0.5	0.1	30,800	50,800	70,000
Ohio	2,241.3	734.0	1,102.8	260.5	80.8	42.9	20.3	43,900	63,500	90,200
Oklahoma	616.3	323.7	235.6	36.8	10.9	6.1	3.3	30,800	48,100	71,000
Oregon	511.8	133.3	281.2	62.7	19.5	10.5	4.7	49,200	67,100	92,600
Pennsylvania	2,581.3	829.2	1,017.8	395.9	180.6	109.1	48.7	42,500	69,700	109,500
Rhode Island	176.5	3.0	31.0	78.4	35.6	19.4	9.0	106,000	133,500	171,800
South Carolina	615.4	225.7	280.1	63.5	23.7	14.8	7.6	41,100	61,100	89,100
South Dakota	113.1	64.2	42.4	4.6	1.0	0.5	0.2	27,300	45,200	64,500
Tennessee	938.4	371.8	416.4	91.5	32.2	17.8	8.7	39,600	58,400	85,300
Texas	2,949.1	1,151.2	1,261.1	314.8	111.3	66.5	44.2	38,300	59,600	89,200
Utah	303.7	61.1	188.6	35.2	10.6	5.7	2.5	53,100	68,900	92,000
Vermont	89.2	7.9	41.3	25.5	8.4	4.4	1.7	73,100	95,500	130,000
Virginia	1,192.1	206.7	466.2	203.9	132.8	116.5	66.0	60,100	91,000	155,800
Washington	896.4	124.0	371.3	192.7	101.0	67.8	39.6	63,700	93,400	145,400
West Virginia	350.1	185.3	136.8	18.9	5.4	2.8	0.9	31,200	47,900	69,400
Wisconsin	916.7	287.2	492.2	95.3	24.7	12.3	5.1	45,600	62,500	86,100
Wyoming	78.4	25.9	43.8	6.2	1.5	0.7	0.4	43,900	61,600	82,100

[1] This measure divides the distribution of value and rent categories into four equal parts. The lower quartile value is the value that defines the upper limit of the lowest one-quarter of the cases. The upper quartile value defines the lower limit of the upper one-quarter of the cases in the distribution.

Housing Value and Gross Rent, by State: 1990

Based on the Census of Population and Housing; see appendix III]

SPECIFIED RENTER-OCCUPIED UNITS									
Total housing units	Rent categories							Median (dol.)	STATE
	Less than $200	$200 to $299	$300 to $399	$400 to $499	$500 to $599	$600 to $749	$750 or more		
32,170.0	**2,815.1**	**3,736.2**	**5,879.2**	**5,935.0**	**4,407.0**	**4,064.4**	**3,913.8**	**447**	**United States**
428.0	81.6	87.3	102.1	67.2	29.1	15.7	6.8	325	Alabama
81.9	1.4	4.4	9.8	12.9	11.3	13.1	17.9	559	Alaska
485.8	25.5	46.1	111.5	113.1	71.2	53.0	39.8	438	Arizona
258.1	38.6	57.8	64.8	39.3	17.2	8.5	4.3	328	Arkansas
4,553.4	136.2	198.5	379.5	621.9	736.4	1,004.1	1,361.9	620	California
472.6	36.5	63.3	110.0	96.4	62.2	51.9	36.0	418	Colorado
418.5	31.2	21.4	31.1	51.2	68.2	94.1	106.3	598	Connecticut
72.2	6.0	4.4	8.7	16.0	16.0	10.9	6.7	495	Delaware
152.1	14.7	11.0	25.5	29.5	21.7	20.3	26.6	479	District of Columbia
1,669.6	103.2	130.9	271.1	368.9	308.6	253.3	168.5	481	Florida
808.4	97.8	99.6	134.3	155.9	128.1	98.0	53.2	433	Georgia
162.8	9.1	7.5	12.6	15.6	17.5	26.2	52.3	650	Hawaii
102.4	14.0	24.5	26.3	16.3	6.5	4.0	2.2	330	Idaho
1,470.4	128.7	159.0	281.6	306.8	229.8	185.8	134.3	445	Illinois
589.9	61.5	104.8	156.4	128.6	65.9	29.3	14.1	374	Indiana
285.7	40.5	66.1	76.7	50.7	22.1	10.8	4.6	336	Iowa
289.8	32.3	54.8	69.0	57.7	30.4	19.3	10.3	372	Kansas
392.3	69.2	87.8	100.6	56.9	24.1	11.9	5.4	319	Kentucky
501.3	70.7	93.1	123.5	88.5	43.6	24.3	14.4	352	Louisiana
133.3	15.5	14.2	26.6	26.6	19.2	14.1	7.5	419	Maine
598.3	41.2	36.0	65.4	94.0	106.0	128.8	108.2	548	Maryland
910.0	98.4	58.2	74.9	106.8	130.2	184.5	231.1	580	Massachusetts
966.2	82.1	123.4	209.0	223.3	149.7	92.0	54.6	423	Michigan
445.9	54.6	54.7	85.1	94.3	66.0	50.2	28.4	422	Minnesota
247.5	49.8	54.0	54.0	32.7	15.7	7.9	3.4	309	Mississippi
585.0	74.0	108.7	138.7	115.2	62.5	37.6	18.1	368	Missouri
93.9	16.1	24.4	24.8	12.9	5.5	2.1	0.9	311	Montana
186.6	24.6	39.8	48.6	34.8	16.2	7.7	4.6	348	Nebraska
209.2	8.4	11.5	29.0	48.5	44.4	38.9	22.9	509	Nevada
127.8	7.7	7.1	12.3	21.6	24.9	27.3	21.5	549	New Hampshire
973.7	60.8	45.3	81.1	133.1	166.0	228.3	232.7	592	New Jersey
173.1	18.3	28.6	44.9	31.0	16.4	11.9	7.4	372	New Mexico
3,150.6	242.8	281.8	490.1	605.9	463.7	454.7	532.9	486	New York
777.9	83.5	121.5	187.4	162.2	90.6	49.8	22.3	382	North Carolina
78.5	13.8	18.7	19.8	11.4	4.0	1.8	0.7	313	North Dakota
1,293.4	149.2	206.4	341.2	280.5	146.7	79.0	40.8	379	Ohio
370.7	44.2	85.0	98.7	60.5	30.1	17.8	9.0	340	Oklahoma
394.9	30.2	52.5	99.2	96.1	52.1	33.7	18.1	408	Oregon
1,287.7	141.0	189.7	272.2	245.0	169.6	125.3	85.4	404	Pennsylvania
152.0	17.9	12.1	18.0	29.1	29.2	25.3	15.7	489	Rhode Island
368.9	45.3	59.5	83.9	77.1	38.5	21.2	10.4	376	South Carolina
81.2	16.2	19.4	18.7	11.6	4.5	2.3	0.9	306	South Dakota
568.9	86.8	101.6	134.5	110.3	55.1	27.6	13.9	357	Tennessee
2,332.9	179.0	345.2	614.2	480.6	263.7	193.8	139.7	395	Texas
169.8	12.4	31.3	53.8	33.9	15.7	9.6	6.3	369	Utah
61.8	5.1	5.8	11.3	14.2	9.9	7.5	4.5	446	Vermont
746.2	59.6	65.7	109.8	124.0	103.8	114.3	128.9	495	Virginia
687.0	49.0	73.5	135.2	152.7	109.0	85.1	56.2	445	Washington
168.3	30.7	41.7	40.8	21.4	8.1	3.8	1.4	303	West Virginia
582.4	51.6	83.9	147.8	142.2	76.6	43.7	18.8	399	Wisconsin
51.5	6.7	12.5	13.2	8.1	3.5	2.1	0.9	333	Wyoming

Source: U.S. Bureau of the Census, *1990 Census of Housing, General Housing Characteristics*, series CH-1, and *Detailed Housing Characteristics*, series CH-2, forthcoming; and *Census of Population and Housing, 1990: Summary Tape File 1C and 3C on CD-ROM.*

No. 1240. Housing Units—

[In thousands of units, except as indicated. As of April.

STATE	Total housing units (1,000)	YEAR STRUCTURE BUILT				LACKING COMPLETE PLUMBING		PERCENT OF UNITS WITH—	
		Percent			Median year built	Total units (1,000)	Percent of total housing units	Public water system or private company	Public sewer
		1939 or earlier	1970 to 1979	1980 to March 1990					
United States	**102,263.7**	**18.4**	**21.8**	**20.7**	**1965**	**1,101.7**	**1.1**	**84.2**	**74.8**
Alabama	1,670.4	9.3	25.5	23.5	1970	27.5	1.6	87.1	54.5
Alaska	232.6	3.0	32.7	38.0	1976	29.0	12.5	65.6	62.3
Arizona	1,659.4	3.2	30.7	37.8	1976	31.5	1.9	94.5	81.3
Arkansas	1,000.7	9.4	27.8	24.2	1971	18.4	1.8	81.5	60.1
California	11,182.9	10.7	21.7	22.9	1967	69.4	0.6	95.4	89.6
Colorado	1,477.3	13.0	28.9	24.7	1971	11.8	0.8	91.0	86.9
Connecticut	1,320.9	25.5	15.7	15.7	1959	5.7	0.4	77.7	70.8
Delaware	289.9	14.3	20.2	24.3	1967	1.7	0.6	76.2	73.4
District of Columbia	278.5	37.7	8.4	5.5	1947	2.3	0.8	99.9	99.3
Florida	6,100.3	3.7	29.3	35.0	1975	28.0	0.5	86.9	73.8
Georgia	2,638.4	8.1	24.5	32.1	1973	28.5	1.1	81.3	62.1
Hawaii	389.8	6.7	30.5	20.8	1970	4.3	1.1	97.6	80.2
Idaho	413.3	15.9	32.4	18.0	1970	6.0	1.5	70.0	64.0
Illinois	4,506.3	27.1	18.4	11.7	1958	29.3	0.7	89.8	86.2
Indiana	2,246.0	24.2	20.2	14.5	1961	16.2	0.7	74.1	67.9
Iowa	1,143.7	35.0	20.2	10.0	1956	9.8	0.9	81.1	76.0
Kansas	1,044.1	24.5	20.3	16.9	1961	7.9	0.8	89.5	81.2
Kentucky	1,506.8	15.9	25.0	20.0	1967	44.2	2.9	80.6	56.4
Louisiana	1,716.2	10.6	25.3	22.1	1969	21.9	1.3	89.0	72.6
Maine	587.0	34.9	19.8	20.7	1960	20.8	3.5	53.2	45.4
Maryland	1,891.9	15.5	19.6	21.6	1965	12.7	0.7	82.8	81.1
Massachusetts	2,472.7	38.9	14.1	13.8	1953	12.4	0.5	91.6	72.9
Michigan	3,847.9	20.8	20.4	13.6	1960	32.5	0.8	70.5	70.8
Minnesota	1,848.4	24.5	22.1	18.5	1963	24.4	1.3	73.0	73.4
Mississippi	1,010.4	8.6	27.5	24.1	1971	21.9	2.2	87.3	57.9
Missouri	2,199.1	20.4	21.5	18.3	1964	26.8	1.2	83.6	73.6
Montana	361.2	21.8	26.6	17.5	1966	7.0	1.9	65.5	60.5
Nebraska	660.6	30.7	22.1	12.9	1960	5.2	0.8	83.0	80.9
Nevada	518.9	2.9	30.5	40.1	1977	2.7	0.5	92.5	87.9
New Hampshire	503.9	27.1	20.5	27.7	1968	5.9	1.2	60.3	49.6
New Jersey	3,075.3	24.6	14.9	14.8	1959	15.6	0.5	89.6	87.9
New Mexico	632.1	8.1	26.5	27.5	1972	20.0	3.2	83.1	71.7
New York	7,226.9	35.7	11.9	9.4	1952	67.3	0.9	87.6	79.1
North Carolina	2,818.2	9.9	24.3	28.6	1971	43.0	1.5	65.4	49.8
North Dakota	276.3	24.7	26.6	16.6	1965	5.6	2.0	79.0	73.9
Ohio	4,371.9	25.8	18.6	12.2	1959	32.9	0.8	82.4	77.6
Oklahoma	1,406.5	12.4	25.4	22.1	1969	13.8	1.0	87.0	73.1
Oregon	1,193.6	16.8	28.7	16.6	1967	10.4	0.9	80.7	70.0
Pennsylvania	4,938.1	35.1	15.8	12.4	1954	47.1	1.0	78.1	74.3
Rhode Island	414.6	34.0	14.7	15.1	1955	2.3	0.5	88.8	70.9
South Carolina	1,424.2	8.5	26.3	29.0	1972	20.2	1.4	77.2	58.0
South Dakota	292.4	30.4	24.6	14.8	1961	5.9	2.0	81.4	71.1
Tennessee	2,026.1	10.2	24.8	24.2	1970	32.4	1.6	85.7	59.9
Texas	7,009.0	7.1	25.9	29.7	1972	85.1	1.2	91.6	81.2
Utah	598.4	13.5	28.1	24.4	1971	5.9	1.0	95.8	88.4
Vermont	271.2	36.5	19.6	22.4	1963	6.1	2.3	50.9	42.5
Virginia	2,496.3	11.0	23.6	26.3	1970	46.1	1.8	76.1	69.7
Washington	2,032.4	15.7	24.6	23.1	1969	18.6	0.9	85.7	68.3
West Virginia	781.3	23.7	22.8	17.7	1962	25.1	3.2	72.1	54.8
Wisconsin	2,055.8	28.5	21.1	14.5	1960	29.8	1.4	66.5	70.0
Wyoming	203.4	15.6	31.1	21.4	1971	3.2	1.6	77.6	74.2

Selected Characteristics: 1990

Based on the Census of Population and Housing; see Appendix III]

Occupied housing units (1,000)	Percent owner occupied	Percent condominium	PERCENT WITH—								STATE
			Vehicles available		No telephone in unit	House heating fuel					
			None	Two or more		Utility gas	Bottled, tank, or LP gas	Electricity	Fuel oil, kerosene [1]	Wood	
91,947.4	64.2	4.4	11.5	54.7	5.2	51.0	5.7	25.8	12.2	3.9	**United States**
1,506.8	70.5	1.1	10.3	58.7	8.7	42.8	15.6	34.6	1.2	5.3	Alabama
188.9	56.1	5.3	11.9	54.0	8.3	42.8	1.9	11.8	32.3	7.7	Alaska
1,368.8	64.2	6.0	7.8	53.3	8.5	39.5	4.4	51.4	0.2	3.6	Arizona
891.2	69.6	0.7	9.8	56.2	10.9	52.8	11.6	22.7	0.2	12.5	Arkansas
10,381.2	55.6	7.4	8.9	57.9	3.0	73.2	3.1	19.2	0.3	3.1	California
1,282.5	62.3	7.3	6.9	60.9	4.2	77.0	4.8	12.9	0.3	3.3	Colorado
1,230.5	65.6	8.7	10.0	58.6	2.6	26.3	1.9	15.1	54.4	1.6	Connecticut
247.5	70.3	2.6	8.2	59.3	3.1	30.5	6.8	21.8	38.5	1.7	Delaware
249.6	38.9	10.4	37.4	21.2	4.2	63.5	2.0	20.5	12.5	0.0	District of Columbia
5,134.9	67.2	12.9	9.2	49.8	5.3	7.5	7.2	78.8	4.1	0.8	Florida
2,366.6	64.9	2.6	10.3	58.8	8.3	53.3	13.8	27.2	1.5	3.8	Georgia
356.3	53.9	18.4	9.9	54.1	2.6	3.3	2.0	37.9	0.2	0.5	Hawaii
360.7	70.1	1.2	4.6	67.3	5.8	28.2	3.1	39.8	9.0	18.0	Idaho
4,202.2	64.2	5.4	14.0	50.9	4.6	80.3	4.3	11.2	1.8	1.0	Illinois
2,065.4	70.2	1.4	8.5	59.1	5.9	63.1	6.4	19.3	6.2	4.2	Indiana
1,064.3	70.0	1.1	7.1	61.7	3.4	65.6	14.8	10.5	5.5	2.9	Iowa
944.7	67.9	1.7	6.4	61.7	4.4	75.9	8.8	11.8	0.3	2.9	Kansas
1,379.8	69.6	1.3	11.5	56.0	10.2	45.6	7.7	30.0	4.8	8.2	Kentucky
1,499.3	65.9	1.6	13.9	49.9	8.3	55.1	5.8	36.2	0.3	2.3	Louisiana
465.3	70.5	1.6	8.7	57.1	3.7	1.8	1.9	11.7	69.5	14.1	Maine
1,749.0	65.0	5.5	12.3	56.0	3.2	43.2	2.3	29.6	22.1	1.9	Maryland
2,247.1	59.3	6.1	14.3	49.3	2.1	38.0	2.1	13.5	44.0	1.5	Massachusetts
3,419.3	71.0	2.7	10.1	56.8	4.1	76.9	6.1	5.4	6.9	3.9	Michigan
1,647.9	71.8	3.1	8.6	60.0	2.4	62.9	8.2	10.5	11.9	4.9	Minnesota
911.4	71.5	0.6	12.1	54.2	12.6	40.8	20.1	30.6	0.5	7.8	Mississippi
1,961.2	68.8	2.0	9.8	57.0	5.2	60.4	12.0	18.1	1.5	7.6	Missouri
306.2	67.3	1.2	6.7	63.5	6.9	54.2	7.5	17.9	4.1	14.7	Montana
602.4	66.5	1.2	7.2	62.5	3.6	70.2	10.9	13.6	2.5	2.1	Nebraska
466.3	54.8	6.7	7.8	54.8	5.4	47.7	6.0	39.3	3.7	2.6	Nevada
411.2	68.2	5.8	6.3	61.7	3.4	15.2	6.1	12.4	55.8	9.0	New Hampshire
2,794.7	64.9	6.7	12.9	52.5	3.1	57.5	1.9	10.0	29.2	0.5	New Jersey
542.7	67.4	1.5	6.9	59.0	12.4	70.1	11.9	9.1	0.3	7.6	New Mexico
6,639.3	52.2	4.6	30.0	37.5	5.0	45.7	2.4	8.5	39.6	2.0	New York
2,517.0	68.0	2.5	9.6	59.2	7.1	18.6	8.5	42.0	22.5	7.8	North Carolina
240.9	65.6	2.3	6.5	63.2	3.5	39.7	14.0	26.2	15.7	1.2	North Dakota
4,087.5	67.5	2.5	10.2	56.8	4.7	68.2	3.8	16.8	7.5	2.5	Ohio
1,206.1	68.1	1.5	7.5	58.1	8.8	64.4	10.0	20.5	0.1	4.7	Oklahoma
1,103.3	63.1	1.7	8.0	59.9	4.5	24.7	1.5	44.6	11.4	16.9	Oregon
4496.0	70.7	2.0	15.2	49.5	2.6	49.5	1.7	14.8	27.9	2.6	Pennsylvania
378.0	59.5	2.8	10.6	54.5	3.1	40.7	2.4	7.9	47.0	1.4	Rhode Island
1,258.0	69.9	2.3	10.9	57.2	9.1	24.6	9.2	46.9	13.2	5.7	South Carolina
259.0	66.1	0.8	6.5	64.1	6.0	43.0	19.9	17.8	13.6	4.2	South Dakota
1,853.7	68.0	2.0	9.8	58.2	7.1	30.0	5.5	50.5	3.8	9.0	Tennessee
6,070.9	60.9	2.7	8.1	55.9	8.6	50.4	7.8	40.2	0.1	1.2	Texas
537.3	66.1	4.6	5.4	66.1	4.0	81.9	2.3	9.5	1.3	3.2	Utah
210.7	69.0	3.1	8.0	58.0	4.5	8.0	10.5	9.1	54.3	17.0	Vermont
2,291.8	66.3	4.8	9.0	59.8	5.4	28.9	2.3	40.1	20.2	6.7	Virginia
1,872.4	62.6	3.0	7.5	61.4	3.5	22.4	1.1	55.1	9.9	10.6	Washington
688.6	74.1	0.6	13.7	50.4	10.3	50.7	2.8	25.3	7.8	9.0	West Virginia
1,822.1	66.7	1.6	9.3	57.8	2.8	61.0	8.4	9.3	14.6	5.9	Wisconsin
168.8	67.8	1.2	4.7	66.9	5.6	62.9	9.0	16.5	0.7	7.9	Wyoming

Source: U.S. Bureau of the Census, *1990 Census of Housing, Detailed Housing Characteristics*, series CH-2, forthcoming, and *Census of Population and Housing, 1990: Summary Tape File 3C on CD-ROM.*

No. 1241. Occupied Housing Units—Monthly Owner and Renter Costs as Related to Household Income: 1980 and 1990

[**In thousands of units, except as indicated.** As of **April 1**. Based on the Census of Population and Housing, see Appendix III]

STATE	1980						1990					
	Median gross rent		Median selected monthly owner costs				Median gross rent		Median selected monthly owner costs			
	Amount (dollars)	As a percent of household income in 1979	With a mortgage (dollars)	Not mortgaged (dollars)	As a percentage of household income in 1979		Amount (dollars)	As a percent of household income in 1989	With a mortgage (dollars)	Not mortgaged (dollars)	As a percentage of household income in 1989	
					With a mortgage	Not mortgaged					With a mortgage	Not mortgaged
United States	**243**	**25.0**	**366**	**128**	**19.2**	**11.5**	**447**	**26.4**	**737**	**209**	**21.0**	**12.9**
Alabama	188	24.2	295	104	18.6	11.7	325	24.8	555	159	18.4	12.8
Alaska	368	24.0	640	160	20.4	[1]10.0	559	23.8	1,059	232	21.5	12.2
Arizona	264	27.5	365	109	20.2	[1]10.0	438	27.5	769	188	22.8	12.4
Arkansas	185	24.7	280	96	19.3	12.1	328	26.5	514	173	20.0	13.4
California	283	27.1	411	98	19.8	[1]10.0	620	29.1	1,077	191	24.9	11.8
Colorado	252	26.4	422	125	21.0	11.5	418	26.1	800	203	22.5	12.7
Connecticut	260	24.5	434	205	19.9	13.9	598	26.6	1,096	338	22.9	13.7
Delaware	247	25.0	351	146	18.4	11.8	495	24.7	763	200	19.5	12.0
District of Columbia	224	22.4	399	158	17.9	[1]10.0	479	25.4	950	250	20.5	12.8
Florida	255	26.3	337	101	20.2	10.2	481	28.0	718	186	22.3	12.2
Georgia	211	24.5	340	107	19.2	11.2	433	25.8	737	182	20.9	12.8
Hawaii	311	26.1	463	110	19.0	[1]10.0	650	27.4	1,008	170	21.4	10.8
Idaho	218	25.4	332	102	20.1	10.6	330	23.8	561	157	19.3	11.8
Illinois	246	23.8	406	152	19.0	11.3	445	25.9	767	241	20.2	12.7
Indiana	218	23.1	304	118	17.0	10.9	374	24.3	561	188	16.7	12.3
Iowa	226	24.6	348	133	19.2	12.5	336	24.1	553	196	17.3	12.8
Kansas	218	23.8	330	106	18.2	10.5	372	24.5	628	187	19.1	12.6
Kentucky	198	23.9	298	103	18.3	10.7	319	24.9	536	150	18.0	12.3
Louisiana	214	24.6	313	96	18.1	[1]10.0	352	27.9	595	168	20.6	13.3
Maine	216	26.5	317	144	20.9	14.3	419	26.8	664	222	21.4	13.4
Maryland	266	23.3	413	149	18.5	10.9	548	25.4	919	235	21.1	12.4
Massachusetts	255	25.0	424	225	20.9	16.0	580	26.8	985	298	22.3	13.8
Michigan	250	24.8	363	159	18.3	12.7	423	27.2	651	246	18.0	13.5
Minnesota	236	25.0	375	132	18.9	12.1	422	26.7	724	186	20.4	12.4
Mississippi	180	24.9	284	98	19.6	12.7	309	27.1	511	158	20.8	13.5
Missouri	211	24.2	317	118	18.1	11.5	368	25.2	600	177	18.4	12.3
Montana	200	23.9	347	109	19.6	10.7	311	25.0	575	175	20.2	12.5
Nebraska	213	23.2	359	120	19.7	12.0	348	23.7	610	191	19.4	12.6
Nevada	310	28.6	454	135	22.5	[1]10.0	509	26.8	833	204	22.4	11.9
New Hampshire	251	25.5	408	189	22.2	15.7	549	26.4	1,000	321	24.4	14.7
New Jersey	270	24.8	456	218	20.5	14.6	592	26.3	1,105	382	23.4	15.1
New Mexico	215	25.4	324	98	19.4	10.2	372	26.5	651	163	21.6	12.5
New York	249	25.1	430	196	20.2	14.5	486	26.3	894	323	21.5	14.4
North Carolina	205	23.9	320	111	19.2	11.1	382	24.4	655	184	20.5	12.9
North Dakota	206	23.2	392	133	21.3	13.1	313	23.9	608	192	20.3	13.0
Ohio	225	24.0	347	133	18.5	10.8	379	25.3	625	205	18.2	12.5
Oklahoma	215	24.9	305	90	18.8	10.7	340	25.4	573	164	20.0	12.8
Oregon	257	26.8	371	125	19.6	12.2	408	25.5	650	226	20.4	13.4
Pennsylvania	224	24.4	336	141	18.5	11.8	404	26.1	682	226	20.2	13.3
Rhode Island	222	24.9	391	192	21.1	14.6	489	27.5	891	290	22.7	13.9
South Carolina	206	24.4	312	112	19.0	11.5	376	24.4	617	179	19.8	13.0
South Dakota	188	24.4	352	135	21.3	14.7	306	24.6	569	195	19.8	13.3
Tennessee	203	24.3	299	103	18.8	10.5	357	25.0	594	170	20.1	12.6
Texas	246	24.3	348	101	18.4	[1]10.0	395	24.6	712	193	20.9	13.1
Utah	235	24.8	381	116	21.3	[1]10.0	369	23.8	667	185	20.9	12.1
Vermont	224	26.9	336	164	20.6	14.6	446	27.1	719	262	21.9	14.7
Virginia	259	24.7	395	129	20.2	11.6	495	25.8	831	192	21.9	12.5
Washington	254	25.7	362	106	18.5	[1]10.0	445	25.7	738	194	20.4	11.8
West Virginia	195	23.5	290	93	17.6	[1]10.0	303	26.8	498	143	17.5	12.0
Wisconsin	234	23.7	381	158	19.6	13.0	399	24.9	678	251	20.1	13.4
Wyoming	252	22.6	397	97	19.0	[1]10.0	333	23.7	612	162	18.8	11.9

[1] Data represents a value of 10 percent or less.

Source: U.S. Bureau of the Census, *1980 Census of Housing, Metropolitan Housing Characteristics*, series HC80-2, *1990 Census of Housing, Detailed Housing Characteristics*, series CH-2, forthcoming.

No. 1242. Housing Units—Summary of Characteristics and Equipment, by Tenure and Region: 1991

[**In thousands of units, except as indicated.** Based on the American Housing Survey; see Appendix III. For composition of regions, see table 31]

ITEM	Total housing units	Seasonal	YEAR-ROUND UNITS							
			Occupied							Vacant
			Total	Owner	Renter	Northeast	Midwest	South	West	
Total units	**104,592**	**2,728**	**93,147**	**59,796**	**33,351**	**18,962**	**22,593**	**32,190**	**19,402**	**8,717**
Percent distribution	100.0	2.6	89.1	57.2	31.9	18.1	21.6	30.8	18.6	8.3
Units in structure:										
Single family detached	62,646	1,637	57,485	49,084	8,401	9,761	15,092	20,954	11,678	3,524
Single family attached	6,156	74	5,442	2,722	2,720	1,544	923	1,814	1,161	640
2 to 4 units	10,890	90	9,490	1,909	7,581	3,211	2,409	2,119	1,751	1,309
5 to 9 units	5,368	56	4,639	398	4,240	975	969	1,520	1,175	674
10 to 19 units	4,764	69	3,993	317	3,676	714	765	1,479	1,036	701
20 to 49 units	3,713	56	3,118	328	2,790	882	615	741	880	536
50 or more units	4,073	98	3,350	505	2,845	1,373	726	682	569	625
Mobile home or trailer	6,983	645	5,630	4,532	1,098	502	1,095	2,882	1,151	708
Stories in structure: [1]										
One story	3,015	25	2,606	290	2,316	145	418	1,216	827	384
2 stories	10,398	118	8,920	929	7,992	947	1,347	3,434	3,193	1,360
3 stories	8,110	116	6,938	1,254	5,684	2,475	2,414	1,205	844	1,056
4 to 6 stories	4,724	58	4,024	628	3,396	2,265	954	386	419	642
7 or more stories	2,585	56	2,123	373	1,750	1,329	351	305	139	406
Foundation: [2]										
Full or partial basement	30,995	309	29,401	25,785	3,616	9,713	12,239	4,720	2,729	1,286
Crawlspace	18,152	603	16,067	12,520	3,547	621	2,165	8,520	4,761	1,481
Concrete slab	17,710	390	16,134	12,581	3,554	853	1,373	8,804	5,105	1,185
Other	1,945	410	1,324	921	403	119	238	723	245	211
Year structure built: [3]										
1939 and earlier	22,759	494	20,065	11,484	8,581	7,388	6,528	3,754	2,395	2,199
1940 to 1949	8,607	226	7,668	4,742	2,926	1,700	1,818	2,550	1,599	713
1950 to 1959	13,836	420	12,512	8,982	3,530	2,621	3,236	3,964	2,691	904
1960 to 1969	16,161	468	14,523	9,570	4,953	2,445	3,389	5,353	3,337	1,170
1970 to 1979	23,598	689	21,005	13,377	7,629	2,717	4,662	8,524	5,101	1,902
1980 or later	19,632	429	17,374	11,643	5,730	2,090	2,959	8,045	4,279	1,828
Median year	1964	1965	1964	1965	1963	1952	1959	1971	1969	1965
Main heating equipment:										
Warm-air furnace	54,015	774	49,423	34,860	14,563	6,418	16,446	16,256	10,303	3,818
Electric heat pump	8,755	237	7,638	5,497	2,141	405	587	5,579	1,068	880
Steam or hot water system	15,145	86	13,929	7,520	6,409	9,651	2,737	831	710	1,130
Floor, wall, or pipeless furnace	4,819	75	4,291	1,948	2,343	138	339	1,373	2,441	453
Built-in electric units	7,934	283	6,755	2,992	3,763	1,366	1,257	2,050	2,082	897
Room heaters with flue	3,182	238	2,549	1,349	1,200	256	389	1,325	578	396
Room heaters without flue	2,484	48	2,111	1,197	915	38	63	1,837	174	325
Stoves	3,552	390	2,887	2,219	668	453	459	1,238	738	275
Fireplaces	1,280	123	1,098	899	199	54	136	483	426	58
None	1,500	352	861	378	484	50	39	278	494	287
Portable elec. heaters	860	68	695	362	333	11	22	442	220	97
Other	1,067	56	910	577	333	122	120	498	170	101
Air conditioning:										
Central	43,274	664	39,330	28,217	11,113	3,159	9,639	20,465	6,067	3,280
Percent of total units	41.4	24.3	42.2	47.2	33.3	16.7	42.7	63.6	31.3	37.6
One or more room units	28,569	347	26,786	16,438	10,347	8,204	7,134	8,545	2,901	1,436
Source of water:										
Public system or private company	88,666	1,412	79,814	48,785	31,029	16,077	18,820	27,264	17,652	7,440
Percent of total units	84.8	51.8	85.7	81.6	93.0	84.8	83.3	84.7	91.0	85.4
Well serving 1 to 5 units	13,739	828	11,809	10,042	1,767	2,642	3,598	4,396	1,173	1,102
Other	2,187	488	1,525	969	556	242	176	530	577	174
Means of sewage disposal:										
Public sewer	78,943	1,003	71,302	41,427	29,876	14,632	17,775	22,446	16,450	6,638
Percent of total units	75.5	36.8	76.6	69.3	89.6	77.2	78.7	69.7	84.8	76.2
Septic tank, cesspool, chemical toilet	25,058	1,407	21,672	18,284	3,388	4,308	4,801	9,622	2,940	1,979
Other	591	318	173	86	87	21	17	123	12	100

[1] Limited to multiunit structures. [2] Limited to single-family units. [3] For mobile home, oldest category is 1939 or earlier.

Source: U.S. Bureau of the Census, *Current Housing Reports*, series H-150-91, American Housing Survey.

No. 1243. Heating Equipment and Fuels for Occupied Units: 1950 to 1990

[Based on the Census of Population and Housing; see Appendix III]

ITEM	NUMBER (1,000)					PERCENT DISTRIBUTION				
	1950	1960	1970	1980	1990	1950	1960	1970	1980	1990
Occupied units, total	**42,826**	**53,024**	**63,445**	**80,390**	**91,947**	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Heating equipment:										
Warm air furnace	[1]11,508	17,378	27,515	39,279	(NA)	[1]26.9	32.8	43.4	48.9	(NA)
Heat pumps	(NA)	(NA)	(NA)	2,835	(NA)	(NA)	(NA)	(NA)	3.5	(NA)
Steam or hot water	10,071	11,990	13,211	13,859	(NA)	23.5	22.6	20.8	17.2	(NA)
Floor, wall, or pipeless furnace	([1])	6,088	5,552	4,693	(NA)	([1])	11.5	8.8	5.8	(NA)
Built-in electric units	-	664	3,236	6,370	(NA)	-	1.3	5.1	7.9	(NA)
Room heaters with flue	[2]15,399	[2]11,183	7,209	6,098	(NA)	[2]36.0	[2]21.1	11.4	7.6	(NA)
Room heaters without flue	5,268	5,218	3,558	2,736	(NA)	12.3	9.8	5.6	3.4	(NA)
Fireplaces, stoves, portable heaters or other	([2])	([2])	2,766	3,977	(NA)	([2])	([2])	4.4	4.9	(NA)
None	581	503	398	541	(NA)	1.4	0.9	0.6	0.7	(NA)
House heating fuel:										
Utility gas	11,387	22,851	35,014	42,658	46,851	26.6	43.1	55.2	53.1	51.0
Fuel oil, kerosene, etc.	9,686	17,158	16,473	14,655	11,244	22.6	32.4	26.0	18.2	12.2
Electricity	283	933	4,876	14,768	23,697	0.7	1.8	7.7	18.3	25.8
Bottled, tank, or LP gas	787	2,686	3,807	4,535	5,243	1.8	5.1	6.0	5.6	5.7
Wood and other fuel	4,855	2,460	1,060	2,729	4,009	11.3	4.6	1.7	3.4	4.4
Coal or coke	14,828	6,456	1,821	504	359	34.6	12.2	2.9	0.6	0.4
None	999	478	395	541	544	2.3	0.9	0.6	0.7	0.6
Cooking fuel:										
Electricity	6,403	16,351	25,768	41,906	(NA)	15.0	30.8	40.6	52.1	(NA)
Gas [3]	25,501	33,787	36,558	37,944	(NA)	59.6	63.7	57.6	47.2	(NA)
Other fuel	10,796	2,603	908	398	(NA)	25.2	4.9	1.4	0.5	(NA)
None	124	280	213	142	(NA)	0.3	0.5	0.3	0.2	(NA)

- Represents zero. NA Not available. [1] "Floor, wall, or pipeless furnace" included in "Warm air furnace." [2] "Fireplaces, stoves, or portable heaters" included in "Room heaters with flue." [3] Includes utility, bottled, tank, and LP gas.

No. 1244. Appliances Used by Households, by Region and Family Income: 1990

[In millions, except percent. As of **November.** Represents appliances possessed and generally used by the household. Based on Residential Energy Consumption Survey; see Appendix III. For composition of regions, see table 31]

TYPE OF APPLIANCE	HOUSEHOLDS USING APPLIANCE		REGION				FAMILY INCOME IN 1990			
	Number	Percent of total	North-east	Midwest	South	West	Under $15,000	$15,000 -$24,999	$25,000 -$34,999	$35,000 and over
Total households	**94.0**	**100.0**	**19.2**	**23.1**	**32.3**	**19.4**	**27.3**	**17.4**	**15.3**	**34.0**
Air conditioners: Room	29.1	31.0	8.1	8.0	10.3	2.8	9.7	5.5	4.9	9.0
Central system [1]	36.6	38.9	3.2	9.2	19.0	5.2	6.0	6.0	6.0	18.7
Clothes washer	71.7	76.3	14.4	17.7	25.6	14.0	16.3	12.3	12.3	30.7
Clothes dryer	64.7	68.8	12.4	16.9	22.7	12.8	12.7	10.6	11.4	29.9
Dehumidifier	11.3	12.0	3.5	5.3	2.0	0.5	1.5	1.7	1.7	6.4
Dishwasher	42.7	45.4	8.0	9.3	15.3	10.0	5.2	5.9	7.5	23.9
Evaporative cooler [2]	3.8	4.0	(B)	(B)	(B)	2.9	1.3	0.8	0.9	0.8
Freezer [3]	32.4	34.5	5.0	9.1	12.3	5.9	7.9	5.7	5.4	13.4
Microwave oven [3]	74.1	78.8	13.6	19.4	25.7	15.3	16.9	13.4	12.8	31.0
Motor vehicles: [4] One	33.1	35.3	35.3	35.3	35.6	34.7	13.4	8.3	5.0	6.4
Two or more	50.8	54.0	46.7	55.8	55.2	57.2	6.2	7.7	9.8	27.1
Outdoor gas grill	24.9	26.4	6.8	7.1	7.0	4.0	2.4	3.2	4.1	15.1
Outdoor gas light	1.0	1.1	0.3	0.3	0.3	(B)	0.2	0.2	0.1	0.5
Oven: Electric	55.3	58.9	9.3	12.7	22.1	11.2	13.7	9.7	9.8	22.2
Gas	39.6	40.8	9.8	10.5	10.1	8.0	13.3	7.7	5.5	11.9
Personal computer	14.8	15.7	15.6	14.0	15.0	19.1	5.1	7.5	13.1	29.7
Portable electric heater	13.5	14.4	2.2	2.8	5.4	3.1	3.9	2.8	2.0	4.8
Portable kerosene heater	4.6	4.9	0.9	1.3	2.2	0.2	1.3	0.9	1.1	1.3
Range: Electric	54.3	57.8	9.1	12.6	21.8	10.8	16.4	9.7	9.8	21.3
Gas	39.6	42.1	10.0	10.6	10.5	8.6	13.6	7.8	5.5	12.6
Refrigerator: Frost-free	75.0	79.8	15.0	18.2	27.0	14.8	18.3	13.2	12.5	31.0
Non frost-free [5]	24.8	26.4	5.5	7.1	6.6	5.6	9.8	5.3	3.7	5.9
Television set: Color	90.3	96.1	18.6	22.3	30.8	18.6	25.0	16.9	14.8	33.5
Black and white	28.7	30.6	5.9	8.2	10.4	4.2	8.4	5.3	4.6	10.3
Water heater: [6] Gas	44.6	47.4	7.2	13.3	12.6	11.4	11.5	7.7	6.9	18.5
Electric	33.5	35.6	4.2	6.9	17.2	5.3	9.9	6.9	5.8	10.9
Other fuel	2.0	2.1	1.9	(B)	0.1	(B)	0.4	0.2	0.3	1.1
Whole house cooling fan	9.4	10.1	2.1	2.1	4.0	1.2	1.5	1.4	1.5	5.1
Window or ceiling fan	47.9	51.0	9.0	12.0	20.3	6.6	11.0	8.7	8.1	20.2

B Base figure too small to meet statistical standards for reliability. [1] Includes the 0.9 million households with both central air conditioning and window or wall air conditioning units. [2] An air-cooling unit used in dry climates that turns air into moist, cool air by saturating the air with water vapor. [3] Microwave is first or second most used oven. [4] All motorized vehicles used by U.S. households for personal transportation excluding motorcycles, mopeds, large trucks, and buses. [5] Includes refrigerators without freezer compartments. [6] Excludes water heaters that serve more than one household.

Source: U.S. Energy Information Administration, *Housing Characteristics: 1990.*

No. 1245. Expenditures by Residential Property Owners for Improvements and Maintenance and Repairs, by Type of Property and Activity: 1970 to 1991

[In millions of dollars]

YEAR AND TYPE OF EXPENDITURE	Total	1-unit properties with owner occupant	Other properties	ADDITIONS AND ALTERATIONS				Major replacements	Maintenance and repairs
				Total	To structures		To property outside of structures		
					Additions	Alterations			
1970	14,770	9,469	5,301	6,246	1,411	3,539	1,296	2,629	5,895
1975	25,239	15,684	9,556	10,997	1,971	6,844	2,182	4,484	9,758
1976	29,034	18,854	10,180	12,314	3,493	6,367	2,454	5,341	11,379
1977	31,280	21,761	9,519	14,237	2,655	8,505	3,077	5,699	11,344
1978	37,461	24,189	13,272	16,458	3,713	8,443	4,302	8,094	12,909
1979	42,231	28,280	13,951	18,285	3,280	9,642	5,363	8,996	14,950
1980	46,338	31,481	14,857	21,336	4,183	11,193	5,960	9,816	15,187
1981	46,351	30,201	16,150	20,414	3,164	11,947	5,303	9,915	16,022
1982	45,291	29,779	15,512	18,774	2,641	10,711	5,423	9,707	16,810
1983	49,295	32,524	16,771	20,271	4,739	11,673	3,859	10,895	18,128
1984	69,784	43,781	26,003	27,822	6,007	14,486	7,329	13,067	28,894
1985	80,267	47,742	32,525	28,775	3,966	17,599	7,211	16,134	35,358
1986	91,274	54,298	36,976	38,608	7,377	21,192	10,040	16,695	35,971
1987	94,082	54,791	39,291	39,978	9,557	21,641	8,779	15,875	38,229
1988	101,117	60,822	40,295	43,339	11,333	22,703	9,303	16,893	40,885
1989, total [1]	**100,891**	**59,858**	**41,033**	**39,786**	**6,828**	**23,129**	**9,828**	**18,415**	**42,689**
Heating and air conditioning [2]	5,841	3,589	2,252	1,464	(NA)	1,464	(NA)	2,167	2,191
Plumbing	9,875	5,258	4,617	1,607	(NA)	1,607	(NA)	3,314	4,954
Roofing	10,075	6,266	3,809	(NA)	(NA)	(NA)	(NA)	6,299	3,777
Painting	11,319	5,192	6,127	(NA)	(NA)	(NA)	(NA)	(NA)	11,319
1990, total [1]	**106,773**	**59,683**	**47,090**	**37,253**	**8,561**	**21,920**	**6,771**	**18,215**	**51,305**
Heating and air conditioning [2]	7,646	4,920	2,726	1,634	(NA)	1,634	(NA)	3,394	2,618
Plumbing	10,838	5,842	4,996	1,867	(NA)	1,867	(NA)	3,382	5,589
Roofing	7,914	4,159	3,755	(NA)	(NA)	(NA)	(NA)	4,508	3,406
Painting	13,768	5,260	8,508	(NA)	(NA)	(NA)	(NA)	(NA)	13,768
1991, total [1]	**97,526**	**58,083**	**39,445**	**30,944**	**7,914**	**16,076**	**6,954**	**16,744**	**49,840**
Heating and air conditioning [2]	7,336	4,353	2,983	985	(NA)	985	(NA)	3,688	2,618
Plumbing	9,714	4,896	4,818	1,366	(NA)	1,366	(NA)	3,383	4,966
Roofing	8,867	5,275	3,592	(NA)	(NA)	(NA)	(NA)	5,237	3,630
Painting	12,918	6,522	6,396	(NA)	(NA)	(NA)	(NA)	(NA)	12,918

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

No. 1246. Vacancy Rates for Housing Units—Characteristics: 1985 to 1992

[**In percent.** Annual averages. Based on Current Population Survey and Quarterly Household Survey. Rate is relationship between vacant housing for rent or for sale and the total rental and homeowner supply, which comprises occupied units, units rented or sold and awaiting occupancy, and vacant units available for rent or sale. For composition of regions, see table 31. See also *Historical Statistics, Colonial Times to 1970*, series N 249-258]

CHARACTERISTIC	RENTAL UNITS					HOMEOWNER UNITS				
	1985	1989	1990	1991	1992	1985	1989	1990	1991	1992
Total units	**6.5**	**7.4**	**7.2**	**7.4**	**7.4**	**1.7**	**1.8**	**1.7**	**1.7**	**1.5**
Inside MSA's	6.3	7.4	7.1	7.5	7.4	1.7	1.7	1.7	1.7	1.6
Outside MSA's	7.1	7.7	7.6	7.3	7.0	1.9	1.9	1.8	1.8	1.5
Northeast	3.5	4.7	6.1	6.9	6.9	1.0	1.5	1.6	1.5	1.3
Midwest	5.9	6.8	6.4	6.7	6.7	1.6	1.4	1.3	1.3	1.2
South	9.1	9.7	8.8	8.9	8.2	2.1	2.2	2.1	2.2	1.7
West	6.2	7.1	6.8	6.5	7.1	2.1	1.6	1.8	1.7	1.9
Units in structure:										
1 unit	3.8	4.2	4.0	3.9	3.9	1.4	1.4	1.4	1.4	1.3
2 units or more	7.9	9.2	9.0	9.4	9.3	6.6	7.1	7.1	6.8	5.9
5 units or more	8.8	10.1	9.6	10.4	10.1	10.1	9.6	8.4	7.9	7.4
Units with—										
3 rooms or less	8.8	10.3	10.3	10.8	11.0	5.8	10.8	10.2	10.5	8.4
4 rooms	6.9	8.2	8.0	8.1	7.9	2.3	3.1	3.2	3.0	2.5
5 rooms	5.0	5.6	5.7	5.9	5.5	2.0	2.0	2.0	1.9	1.8
6 rooms or more	3.2	3.4	3.0	3.1	3.1	1.4	1.2	1.1	1.2	1.1

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

No. 1247. Recent Home Buyers—General Characteristics: 1976 to 1992

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

ITEM	Unit	1976	1980	1985	1987	1988	1989	1990	1991	1992
Median purchase price	Dollars	43,340	68,714	90,400	99,260	121,910	129,800	131,200	134,300	141,000
First-time buyers	Dollars	37,670	61,450	75,100	84,730	97,100	105,200	106,000	118,700	122,400
Repeat buyers [1]	Dollars	50,090	75,750	106,200	115,430	141,400	144,700	149,400	152,500	158,000
Average monthly mortgage payment	Dollars	329	599	896	939	1,008	1,054	1,127	1,144	1,064
Percent of income	Percent	24.0	32.4	30.0	29.3	32.8	31.8	33.8	34.0	33.2
Percent buying—										
New houses	Percent	15.1	22.4	23.8	23.8	26.2	21.8	21.2	19.7	20.5
Existing houses	Percent	84.9	77.6	76.2	76.2	73.8	78.2	78.8	80.3	79.5
Single-family houses	Percent	88.8	82.4	87.0	87.3	83.3	84.8	83.8	85.3	85.0
Condominiums [2]	Percent	11.2	17.6	10.6	12.5	12.4	13.5	13.1	11.5	13.1
For the first time	Percent	44.8	32.9	36.6	36.8	37.8	40.2	41.9	45.1	47.7
Average age:										
First-time buyers	Years	28.1	28.3	28.4	29.6	30.3	29.6	30.5	30.7	31.0
Repeat buyers [1]	Years	35.9	36.4	38.4	39.1	38.9	39.4	39.1	39.8	40.8
Downpayment/sales price	Percent	25.2	28.0	24.8	27.2	24.0	24.4	23.3	22.6	21.4
First-time buyers	Percent	18.0	20.5	11.4	20.4	14.6	15.8	15.7	14.7	14.3
Repeat buyers [1]	Percent	30.8	32.7	32.7	31.3	29.7	30.3	28.9	29.1	28.0

[1] Buyers who previously owned a home. [2] Includes multiple-family houses.
Source: Chicago Title Insurance Company, Chicago, IL, *The Guarantor,* bimonthly (copyright).

No. 1248. Low-Income Public Housing Units, by Progress Stage: 1970 to 1991

[**In thousands.** As of **Dec. 31.** Housing for the elderly intended for persons 62 years old or over, disabled, or handicapped. Includes Puerto Rico and Virgin Islands. Covers units subsidized by HUD under annual contributions contracts. See also *Historical Statistics, Colonial Times to 1970,* series N 186-191]

YEAR	Total[1]	Occupied units [2]	Under construction	YEAR	Total[1]	Occupied units [2]	Under construction
1970	**1,155.3**	**893.5**	**126.8**	**1989**	**1,205.0**	**1,137.5**	**7.8**
Elderly	249.4	143.4	65.7	Elderly	(NA)	482.2	(NA)
1980	**1,321.1**	**1,195.6**	**20.9**	**1990**	**1,305.3**	**1,028.1**	**7.6**
Elderly	358.3	317.7	11.5	Elderly	(NA)	342.2	(NA)
1985	**1,378.0**	**1,344.6**	**9.6**	**1991**	**1,304.9**	**1,200.9**	**7.5**
Elderly	373.5	361.1	2.1	Elderly	(NA)	376.8	(NA)

NA Not available. [1] Includes units to be constructed or to go directly "under management" because no rehabilitation needed not shown separately. [2] Under management or available for occupancy.
Source: U.S. Dept. of Housing and Urban Development, unpublished data

No. 1249. Office Buildings—Vacancy Rates for Major Cities, 1980 to 1992, and Status of Supply, 1992

[**As of December;** except **1991, as of June.** Excludes government owned and occupied, owner-occupied, and medical office buildings]

CITY	VACANCY RATE FOR EXISTING SPACE (percent)									SUPPLY STATUS, **June 1992** (mil. sq. ft.)			
										Existing space		Space under construction	
	1980	1985	1986	1987	1988	1989	1990	1991	1992, June	Total	Available for lease	Total	Available for lease
Total [1]	**4.6**	**16.9**	**18.6**	**19.0**	**18.6**	**19.5**	**20.0**	**20.2**	**20.4**	**2,081.7**	**425.3**	**14.7**	**6.1**
Atlanta, GA	10.0	21.0	20.1	19.6	18.3	19.9	19.1	19.5	19.1	86.0	16.4	1.5	0.9
Baltimore, MD	7.2	11.5	15.9	15.8	13.4	16.4	20.0	21.0	24.1	33.8	8.1	-	-
Boston, MA	3.8	13.1	13.0	12.6	14.1	15.3	19.6	19.1	18.9	133.6	25.3	0.9	0.9
Charlotte, NC	(NA)	16.7	15.5	15.1	16.5	14.3	16.5	19.4	(NA)	(NA)	(NA)	(NA)	(NA)
Chicago, IL	7.0	16.5	19.6	17.0	15.9	17.0	18.6	20.0	22.1	195.2	43.1	1.1	0.8
Dallas, TX	8.6	23.0	30.9	29.1	29.7	26.9	25.8	26.0	(NA)	(NA)	(NA)	(NA)	(NA)
Denver, CO	6.6	24.7	25.1	27.9	27.6	26.1	24.8	23.0	22.9	68.4	15.6	-	-
Houston, TX	4.0	27.6	30.6	31.8	29.2	27.5	24.9	27.3	26.3	138.5	36.5	-	-
Indianapolis, IN	(NA)	(NA)	(NA)	(NA)	21.3	20.0	21.2	21.4	21.5	20.7	4.4	0.1	0.1
Kansas City, MO	4.2	16.2	18.2	18.2	19.9	15.8	14.1	16.9	15.8	32.6	5.2	-	-
Los Angeles, CA	0.9	15.3	13.2	19.0	15.8	19.7	16.8	20.2	19.8	206.0	40.8	1.2	0.9
Miami, FL	2.4	20.9	25.2	26.1	24.0	22.0	23.4	22.6	21.4	27.2	5.8	0.3	-
Milwaukee, WI	(NA)	(NA)	(NA)	16.8	19.3	20.4	22.9	19.5	18.1	24.1	4.4	-	-
New Orleans, LA	(NA)	21.8	25.5	24.3	25.6	25.7	29.0	25.0	(NA)	(NA)	(NA)	(NA)	(NA)
New York, NY [2]	3.1	7.9	8.9	9.7	11.5	15.1	16.0	18.8	18.8	280.4	52.7	1.2	-
Philadelphia, PA	6.3	14.5	15.5	16.5	15.8	16.3	18.2	17.3	19.0	70.7	13.5	1.6	0.3
Pittsburgh, PA	1.2	(NA)	12.0	12.3	17.6	16.3	16.3	14.2	(NA)	(NA)	(NA)	(NA)	(NA)
San Diego, CA	(NA)	24.7	25.4	22.8	20.1	17.6	19.5	23.7	25.1	38.5	9.7	0.3	0.1
San Francisco, CA	0.4	13.7	16.6	15.0	15.5	15.7	14.7	13.3	13.4	56.1	7.5	-	-
Seattle, WA	(NA)	(NA)	(NA)	(NA)	13.2	12.4	12.3	12.8	13.1	30.0	3.9	-	-
St. Louis, MO	(NA)	(NA)	(NA)	15.6	18.4	22.6	21.0	20.5	21.6	33.2	7.2	-	-
Washington, DC	2.5	9.0	13.6	13.4	13.2	14.4	19.0	17.6	18.0	183.7	33.1	3.2	0.5

- Represents zero. NA Not available. [1] Includes other cities not shown separately. In 1991, 51 cities were covered. [2] Refers to Manhattan.
Source: ONCOR International, Houston, TX, 1980-1985, *National Office Market Report,* semi-annual; 1986-1990, *International Office Market Report,* semi-annual; thereafter, *Office Market Data Book* (copyright).

No. 1250. Commercial Office Space—Inventory and Vacancy Rates for the 50 Largest Metropolitan Areas: 1992

[**As of December 31.** Central business district is the area located near the historical urban core, commonly associated with the traditional government and financial districts in most cities; outside the central business districts is comprised of the suburban area and "urban clusters" with areas of high office space concentrations. Class A space is in "excellent" locations, with high quality finish, well maintained, and professionally managed; Class B space is in "good" locations, professionally managed, with fairly high quality construction and tenancy. Data based on responses from individuals knowledgeable in the local markets]

METROPOLITAN AREAS RANKED BY POPULATION-SIZE, 1990 [1]	INVENTORY (1,000 square feet)				VACANCY RATE [2] (percent)			
	Inside central business district		Outside central business district		Inside central business district		Outside central business district	
	Class A	Class B	Class A	Class B	Class A	Class B	Class A	Class B
Los Angeles-Long Beach, CA PMSA	24,975.2	6,224.9	70,370.8	43,699.0	27.5	23.4	19.0	24.0
New York, NY PMSA [3]	175,387.7	81,236.4	86,380.9	41,038.7	16.5	20.4	18.5	23.7
Chicago, IL PMSA	51,914.5	44,377.5	24,676.9	31,766.7	24.6	22.8	18.4	22.0
Philadelphia, PA-NJ PMSA	32,118.5	6,678.0	49,834.7	23,732.2	14.9	24.7	20.3	24.0
Detroit, MI PMSA [4]	-	-	42,651.0	13,000.0	-	-	15.0	19.2
Washington, DC-MD-VA MSA	[5]98,402.2	(5)	[5]162,364.9	(5)	14.9	(5)	16.5	(5)
Boston, MA NECMA	36,892.0	7,918.0	40,000.0	(NA)	13.5	21.8	19.8	(NA)
Houston, TX PMSA	25,200.0	8,890.0	34,337.0	66,744.0	14.0	32.6	12.3	27.8
Atlanta, GA MSA	[5]32,411.2	(5)	[5]64,732.8	(5)	[5]16.7	(5)	[5]14.0	(5)
Nassau-Suffolk, NY PMSA	-	-	22,365.0	13,419.0	-	-	21.3	22.3
Riverside-San Bernardino, CA PMSA	460.4	2,049.6	1,540.2	4,875.4	31.6	13.0	25.2	26.0
Dallas, TX PMSA	13,309.0	16,573.0	46,477.0	40,802.0	18.6	37.5	21.8	28.9
San Diego, CA MSA	6,460.8	3,701.1	22,079.7	10,834.6	16.2	21.6	18.0	13.9
Minneapolis-St. Paul, MN-WI MSA	12,700.0	4,595.0	8,550.0	20,113.0	22.6	25.8	16.9	18.9
St. Louis, MO-IL MSA	7,023.3	6,050.0	12,730.0	8,400.0	14.6	73.4	15.7	27.6
Anaheim-Santa Ana, CA PMSA	54,496.7	(NA)	(NA)	(NA)	21.1	(NA)	(NA)	(NA)
Baltimore, MD MSA	7,302.7	5,409.4	10,843.0	12,727.5	17.1	22.1	23.3	16.9
Phoenix, AZ MSA	5,280.4	9,991.3	1,363.3	6,271.7	23.4	20.2	23.4	21.8
Oakland, CA PMSA [6]	5,511.5	3,523.9	1,070.5	9,285.1	13.1	12.4	34.0	17.7
Tampa-St.Petersburg-Clearwater, FL MSA [7]	4,980.0	1,251.8	6,448.5	7,530.0	26.3	44.1	12.2	15.8
Pittsburgh, PA PMSA	14,468.0	3,200.0	4,074.3	6,548.0	9.1	22.3	16.9	11.8
Seattle, WA PMSA	22,582.1	4,526.2	10,609.4	5,556.9	13.9	12.5	13.0	15.2
Miami-Hialeah, FL PMSA	7,200.0	4,700.0	6,160.0	12,200.0	29.9	34.0	20.3	19.7
Cleveland, OH PMSA	11,110.4	10,917.3	10,359.3	3,490.7	23.7	25.3	16.5	41.8
Newark, NJ and Bergen-Passaic, NJ PMSA [8]	-	-	51,073.0	45,409.0	-	-	17.2	24.7
Denver, CO PMSA	12,298.9	9,386.8	7,684.6	26,109.4	14.5	25.1	17.3	17.8
San Francisco, CA PMSA	30,772.0	17,581.0	14,326.0	17,993.3	14.9	16.5	11.5	16.9
Kansas City, MO-KS MSA	7,996.3	5,948.8	17,614.4	4,963.3	18.1	12.0	11.9	14.2
San Jose, CA PMSA	2,500.0	4,000.0	4,000.0	24,000.0	(NA)	(NA)	(NA)	(NA)
Sacramento, CA MSA	5,437.0	3,879.0	10,700.0	13,000.0	11.0	7.0	10.3	24.6
Cincinnati, OH-KY-IN PMSA	7,167.1	5,469.2	5,411.0	3,840.1	11.3	23.3	16.3	20.5
Milwaukee, WI PMSA	5,324.7	7,603.9	3,095.2	8,121.4	12.3	15.2	13.0	18.3
Norfolk-Virginia Beach-Newport News, VA MSA	2,317.6	1,762.1	3,844.5	7,590.7	11.9	15.4	14.6	11.9
Columbus, OH MSA	8,100.0	3,850.0	8,900.0	4,160.0	5.4	10.3	7.3	17.3
Ft. Worth-Arlington, TX PMSA [9]	4,860.7	1,651.8	6,842.7	4,549.6	13.5	23.9	16.4	21.2
San Antonio, TX MSA [10]	1,990.8	766.0	4,754.5	10,129.9	25.5	33.9	15.6	25.2
Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA	2,657.8	588.0	5,505.1	7,182.0	27.1	11.6	22.2	23.8
Indianapolis, IN MSA	6,407.0	2,195.7	[5]11,568.6	(5)	16.7	37.8	[5]21.9	(5)
Portland, OR PMSA	7,658.9	1,873.4	3,373.3	3,144.5	11.9	22.2	11.7	14.6
New Orleans, LA MSA	9,452.9	6,095.0	2,220.7	2,604.6	21.6	36.5	11.7	10.7
Charlotte-Gastonia-Rock Hill, NC-SC MSA	5,573.7	3,469.4	5,665.2	4,061.7	20.0	19.0	12.0	23.0
Orlando, FL MSA	3,949.4	1,912.8	4,407.7	12,666.1	14.1	34.8	16.6	14.7
Salt Lake City-Ogden, UT MSA	2,407.2	2,390.6	2,784.8	3,446.8	19.9	17.2	23.0	13.3
Middlesex-Somerset-Hunterdon, NJ PMSA [11]	-	-	38,047.0	30,915.0	-	-	9.4	19.1
Nashville, TN MSA	2,759.9	2,322.9	5,749.2	5,374.4	15.9	23.7	15.9	19.0
Memphis, TN-AR-MS MSA	1,947.9	3,673.0	9,348.5	3,358.2	15.0	34.8	11.5	22.8
Buffalo, NY PMSA	2,973.3	1,841.5	919.6	1,190.2	24.5	13.6	5.5	10.7
Oklahoma City, OK MSA	3,800.0	2,460.0	5,000.0	3,700.0	30.3	44.7	13.0	21.6
Louisville, KY MSA	3,265.0	3,300.0	3,100.0	2,600.0	10.7	42.4	3.2	10.4
Dayton-Springfield, OH MSA	1,961.9	1,252.8	1,921.0	1,581.7	19.5	22.8	13.1	16.0

- Represents zero. NA Not available. [1] List excludes Monmouth-Ocean, NJ PMSA and and Louisville, KY-IN MSA. [2] Represents the total vacant space divided by the total inventory of space in that area. [3] Excludes Brooklyn and Queens. [4] Represents suburban Detroit only. [5] Class A includes Class B; data not available separately. [6] Excludes Contra Costa county. [7] Represents only Tampa and Hillsborough County. [8] Data are for area identified by source as New Jersey-Northern with a market area of Bergen, Essex, Hudson, Morris, and Passaic counties. [9] Represents only Tarrant County. [10] Represents only Bexar County. [11] Data are for area identified by source as New Jersey-Central with a market area of Hunterdon, Mercer, Middlesex, Monmouth, Somerset, and Union Counties.

Source: Society of Industrial and Office REALTORS [PR], Washington, DC, 1993 Guide to Industrial and Office Real Estate Markets (copyright).

No. 1251. Commercial Buildings—Selected Characteristics, by Square Footage of Floorspace: 1989

[Excludes buildings 1,000 square feet or smaller. Building type based on predominant activity in which the occupants were engaged. Based on a sample survey of building representatives conducted between January and April 1986; therefore, subject to sampling variability. For composition of regions, see table 31]

CHARACTERISTIC	Number of buildings (1,000)	FLOORSPACE (mil. sq. ft.)							Mean sq. ft. per building (1,000)	Median sq. ft. per building (1,000)
		Total	Within all buildings having square footage of—							
			5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over		
All buildings	**4,528**	**63,184**	**6,790**	**6,532**	**10,393**	**8,801**	**9,130**	**21,538**	**14.0**	**4.5**
Region:										
Northeast	783	13,569	1,047	1,271	1,980	1,722	1,507	6,041	17.3	5.2
Midwest	1,046	15,955	1,612	1,468	2,250	2,049	2,362	6,215	15.3	4.5
South	1,847	22,040	2,853	2,530	4,109	3,322	3,632	5,595	11.9	4.0
West	851	11,620	1,279	1,263	2,054	1,708	1,630	3,686	13.7	4.8
Year constructed:										
1900 or before	172	1,654	270	299	353	451	212	(S)	9.6	4.5
1901 to 1920	242	4,245	338	399	375	680	729	249	17.5	4.8
1921 to 1945	680	8,098	1,176	928	1,089	994	1,395	2,514	11.9	4.0
1946 to 1960	868	10,511	1,363	1,233	2,046	1,369	1,191	2,365	12.1	4.1
1961 to 1970	821	12,167	1,197	1,027	2,064	1,648	1,889	4,343	14.8	4.3
1970 to 1979	884	13,329	1,266	1,340	2,180	1,884	1,628	5,031	15.1	5.0
1980 to 1983	317	4,274	465	440	943	480	563	1,385	13.5	4.8
1984 to 1986	329	5,670	419	541	858	853	924	1,329	17.2	5.4
1987 to 1989	215	3,235	294	325	485	443	600	1,088	15.1	4.5
Principal activity within building:										
Assembly	615	6,909	1,006	1,183	1,390	1,230	635	1,070	11.1	5.0
Education	282	8,076	279	400	892	1,425	1,818	2,603	28.7	9.0
Food sales	102	792	223	33	177	(S)	(S)	(S)	7.7	4.8
Food service	241	1,167	417	263	260	(S)	(S)	(S)	4.8	3.0
Health care	80	2,054	136	(S)	166	(S)	123	1,510	25.7	3.5
Lodging	140	3,476	123	278	617	469	709	992	24.8	8.5
Mercantile/services	1,278	12,365	2,120	1,753	2,639	1,395	1,378	3,081	9.7	3.9
Office	679	11,802	961	821	1,721	1,459	1,575	5,267	17.4	4.2
Parking garage	45	983	55	90	79	(S)	(S)	656	22.0	4.8
Public order and safety	50	616	73	91	(S)	(S)	(S)	(S)	12.3	4.0
Warehouse	618	9,253	800	1,031	1,667	1,921	1,369	2,465	15.0	5.8
Other	62	1,529	63	87	160	128	701	120	24.7	6.7
Vacant	333	4,161	533	440	566	334	530	433	12.5	3.7
Government owned	577	14,342	645	908	1,752	1,892	2,475	6,670	24.8	7.1
Non-government owned	3,950	48,842	6,145	5,624	8,641	6,609	6,655	14,868	12.4	4.2
Fuels used alone or in combination:										
Electricity	4,297	61,563	6,411	6,302	9,989	8,682	8,918	21,286	14.3	4.6
Natural gas	2,420	41,143	3,441	3,985	5,793	5,487	6,397	16,489	17.1	5.0
Fuel oil	581	12,600	832	698	1,499	1,352	1,685	6,618	21.6	5.0
Propane	348	4,695	587	454	738	461	748	(S)	13.5	4.5
District heat	98	6,578	43	115	566	512	848	4,772	65.4	19.5
District chilled water	24	1,927	(S)	32	86	148	282	1,548	84.6	34.5
Any other	130	1,542	206	184	342	138	(S)	(S)	11.9	4.0
Workers:										
Fewer than 5	2,280	13,292	4,271	2,717	2,841	1,432	727	232	5.8	3.0
5 to 9	906	7,939	1,471	1,606	2,132	1,105	749	797	8.8	4.6
10 to 19	507	6,445	544	1,228	1,921	1,317	828	587	12.7	7.5
20 to 49	381	9,665	167	693	2,330	2,415	2,201	1,385	25.4	16.0
50 to 99	132	7,389	(S)	(S)	684	1,584	1,919	2,720	56.1	36.5
100 to 249	79	6,771	(S)	(S)	124	629	2,062	3,924	85.9	69.9
250 or more	32	9,829	(S)	(S)	(S)	95	394	9,340	308.0	200.1
Weekly operating hours:										
39 or less	876	6,073	1,574	1,159	1,157	885	634	375	6.9	3.5
40 to 48	1,117	13,905	1,628	1,830	2,628	2,163	2,386	3,269	12.4	5.0
49 to 60	987	13,473	1,450	1,409	2,614	2,081	1,925	3,995	13.6	5.0
61 to 84	625	10,777	891	824	1,601	1,235	1,530	4,697	17.2	4.8
85 to 167	515	9,387	776	680	1,159	1,296	1,272	3,377	18.2	4.5
168 (open continuously)	408	9,569	472	631	1,235	1,141	1,384	4,707	23.5	5.8

S Figure does not meet publication standards.

Source: U.S. Energy Information Administration, *Commercial Buildings Characteristics, 1989.*

No. 1252. Commercial Buildings—Number and Square Footage of Floorspace, by Type of Building and Characteristic: 1989

[For composition of regions, see table 31]

BUILDING CHARACTERISTICS	All buildings [1]	Assembly	Education	Food sales	Food service	Health care	Lodging	Mercantile/services	Offices	Public order and safety	Warehouse
NUMBER (1,000)											
All buildings	**4,528**	**615**	**284**	**102**	**241**	**80**	**118**	**1,278**	**679**	**50**	**618**
Region:											
Northeast	783	96	38	(S)	54	12	21	259	108	(S)	95
Midwest	1,046	134	54	(S)	59	21	24	303	139	(S)	177
South	1,847	275	108	45	87	30	50	523	275	(S)	243
West	851	109	84	(S)	41	17	44	193	157	(S)	104
Year constructed:											
1900 or before	172	53	(S)	(S)	(S)	(S)	(S)	43	21	(S)	(S)
1901 to 1920	242	41	14	(S)	(S)	(S)	(S)	61	36	(S)	27
1921 to 1945	680	125	32	(S)	34	(S)	17	194	85	(S)	67
1946 to 1960	868	138	87	(S)	38	15	18	254	109	(S)	113
1961 to 1970	821	82	65	(S)	35	24	36	227	129	(S)	107
1970 to 1979	884	97	52	(S)	57	10	32	277	128	(S)	137
1980 to 1983	317	32	10	(S)	(S)	(S)	9	78	62	(S)	50
1984 to 1986	329	31	14	(S)	(S)	(S)	10	78	71	(S)	74
1987 to 1989	215	17	9	(S)	(S)	(S)	(S)	67	39	(S)	35
Government owned	577	87	192	(S)	13	9	14	33	70	39	65
Nongovernment owned	3,951	528	92	99	228	71	126	1,246	609	(S)	553
FLOORSPACE (mil. sq. ft.)											
All buildings	**63,184**	**6,836**	**8,148**	**792**	**1,167**	**2,054**	**3,476**	**12,365**	**11,802**	**616**	**9,253**
Region:											
Northeast	13,569	1,507	1,888	(S)	284	378	549	2,647	2,703	(S)	1,611
Midwest	15,955	1,408	2,221	(S)	339	912	982	3,059	2,281	(S)	2,639
South	22,040	2,750	2,404	278	370	472	1,215	4,778	3,817	(S)	3,422
West	11,620	1,174	1,634	(S)	173	292	730	1,882	3,001	(S)	1,381
Year constructed:											
1900 or before	1,654	386	(S)	(S)	(S)	(S)	(S)	428	289	(S)	(S)
1901 to 1920	4,245	492	435	(S)	(S)	(S)	(S)	514	552	(S)	348
1921 to 1945	8,098	926	1,244	(S)	147	(S)	442	1,322	1,166	(S)	1,448
1946 to 1960	10,511	1,470	2,267	(S)	152	371	358	1,694	1,849	(S)	1,279
1961 to 1970	12,167	1,249	2,201	(S)	282	355	1,042	2,458	1,736	(S)	1,702
1970 to 1979	13,329	1,410	1,391	(S)	268	586	578	3,464	2,425	(S)	2,178
1980 to 1983	4,274	373	155	(S)	(S)	(S)	216	873	1,174	(S)	650
1984 to 1986	5,670	293	158	(S)	(S)	(S)	510	896	1,860	(S)	1,003
1987 to 1989	3,235	238	280	(S)	(S)	(S)	(S)	717	750	(S)	561
Government owned	14,342	1,394	6,312	(S)	109	495	622	399	2,353	575	597
Nongovernment owned	48,842	5,443	1,835	787	1,058	1,559	2,854	11,966	9,449	(S)	8,656

S Figure does not meet publication standards. [1] Includes parking garages, vacant, and other commercial buildings, not shown separately.

Source: U.S. Energy Information Administration, *Commercial Building Characteristics, 1989.*

No. 1253. Commercial Buildings and Workers—Selected Building Characteristics, by Floorspace: 1989

[See headnote, table 1251]

BUILDING CHARACTERISTICS	NUMBER OF BUILDINGS (1,000)							WORKERS		
	Total	Square footage of—						Number (1,000)	Average sq. ft. per worker	Median sq. ft. per worker
		5,000 or less	5,001 to 10,000	10,001 to 25,000	25,001 to 50,000	50,001 to 100,000	100,001 and over			
All buildings	**4,528**	**2,529**	**890**	**644**	**247**	**127**	**91**	**70,665**	**894**	**1,001**
Region:										
Northeast	783	390	175	127	48	21	23	15,889	854	1,051
Midwest	1,046	592	196	140	59	33	26	15,557	1,026	1,126
South	1,847	1,086	345	249	91	51	24	23,311	945	1,001
West	851	461	174	129	48	23	17	15,908	730	920
Principal activity within building:										
Assembly	615	322	159	85	34	9	(S)	4,012	1,704	2,002
Education	284	95	55	54	38	27	16	7,204	1,131	987
Food sales/service	343	260	38	19	(S)	(S)	(S)	2,787	1,539	1,611
Health care	80	53	(S)	10	(S)	(S)	5	4,225	486	600
Lodging	140	38	40	33	13	11	2	3,092	1,124	1,701
Mercantile/services	1,278	803	237	164	42	18	14	12,414	996	1,081
Office	679	378	106	113	42	22	19	27,760	425	483
Public order and safety	50	(S)	(S)	(S)	(S)	(S)	(S)	861	716	800
Warehouse	618	285	147	102	52	18	12	4,377	2,114	3,091
Other	62	29	(S)	(S)	(S)	9	(S)	2,111	724	930
Vacant	333	215	61	35	10	8	3	1,472	2,827	546
Nongovernment owned	3,951	2,300	765	536	195	92	63	54,583	895	1,001
Owner occupied	2,814	1,612	571	383	141	64	44	42,256	893	1,101
Nonowner occupied	1,136	688	194	154	54	28	20	14,327	900	854
Government owned	577	229	125	107	52	35	28	16,082	892	1,015

S Figure does not meet publication standards.

Source: U.S. Energy Information Administration, *Commercial Building Characteristics, 1989.*