Section 19

Power; Research and Development

This section presents statistics on the supply, production, and distribution of power and energy; expenditures and manpower for scientific activities; patents and trademarks; and space vehicles. The principal sources of these data are the Federal Power Commission, National Science Foundation, American Gas Association, Atomic Energy Commission, and National Aeronautics and Space Administration.

The Federal Power Commission publishes various statistical reports containing data on production of electric energy, capacity of generating plants, basic fuels used, and water power. Data on sales, revenues, and number of customers by classes of service, and on rates, typical bills, and related matters are also issued at regular intervals by the Commission. Monthly statistics on production, fuels used in production, sales by classes of service, salaries and wages, taxes, and other costs of production appear in the Commission's series entitled *Electric Power Statistics.*

The Federal Power Commission has uniform systems of accounts for public utilities under its jurisdiction and for its licensees. It compiles data from annual reports of electric utilities containing information on assets, liabilities, revenues, generating capacity, and consumers; power system reports of electric utility systems presenting information on generating capacity, transmission facilities, and loads and load characteristics; monthly and annual reports containing information on production of electricity for public use, fuel consumed, and fuel on hand; and reports from electric utilities and industrial corporations on their electric power requirements and supply.

The National Science Foundation publishes a number of continuing, as well as special, reports on its recurring surveys of scientific activities in Federal Government agencies, industrial firms, colleges and universities, and other nonprofit institutions. These publications, concerned with annual expenditures, scientific manpower employed, and other statistical aspects of scientific activities, include the pamphlet series *Reviews of Data on Research and Development* and *Scientific Manpower Bulletins;* the annual reports, *Federal Funds for Science;* and *Funds for Research and Development in Industry;* and other similar reports relating to colleges and universities and other nonprofit organizations. The Foundation surveys of research and development are a comparatively new statistical undertaking and pose particularly difficult problems of concept and definition. The data are therefore subject to certain limitations and should be regarded as broad estimates rather than precise quantitative statements (see *Reviews of Data on Research and Development*).

The American Gas Association, in its monthly and quarterly bulletins and its yearbook, *Gas Facts*, presents data on natural gas utilization and on production of gas manufactured from coal, oil, and similar products. Other important sources of information include the Bureau of Mines' *Minerals Yearbook*, containing data on coal, oil, and natural gas production and utilization; the Edison Electric Institute's monthly and annual *Statistical Bulletin*, containing data on the distribution of electric energy by public utilities; the Atomic Energy Commission's annual and semi-annual reports containing data on atomic energy equipment, finances, and licenses; and the National Aeronautics and Space Administration's *Space Activities Summary*, issued for each space vehicle launched and giving data on the launching vehicle and its "payload."

Alaska and Hawaii.—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface.

Historical statistics.—Tabular headnotes (as "See also *Historical Statistics, Colonial Times to 1957*, series M 71–87") provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957.* See preface.

No. 712. Mineral Fuels and Water Power—Production and Consumption, 1920 to 1961, by Source

[In trillions of British thermal units. Beginning 1959, includes Alaska, and 1960, Hawaii. Data for bituminous coal include Alaska for all years. Unit heat values employed are: Anthracite, 12,700 B.t.u. per pound; bituminous coal and lignite, 13,100 B.t.u. per pound; petroleum, 5,800,000 B.t.u. per barrel; natural gas, total production multiplied by 1,075 B.t.u. minus repressuring vent and waste gas multiplied by 1,035. Water power includes installations owned by manufacturing plants and mines, as well as Government and privately owned public utilities. Fuel equivalent of water power calculated from kilowatt-hours of power produced wherever available, as is true of all public utility plants since 1919. Otherwise, fuel equivalent calculated from reported horsepower of installed water wheels, assuming capacity factor of 20 percent for factories and mines. See also *Historical Statistics, Colonial Times to 1957*, series M 71–87]

Year	Total	Coal		Crude petroleum [1]	Natural gas [2]	Water power	Percent				
		Anthracite	Bituminous and lignite				Coal		Crude petroleum [1]	Natural gas [2]	Water power
							Anthracite	Bituminous and lignite			
PRODUCTION											
1920	21,365	2,276	14,899	2,569	883	738	10.7	69.7	12.0	4.1	3.5
1930	22,119	1,762	12,249	5,208	2,148	752	8.0	55.4	23.5	9.7	3.4
1940	25,088	1,308	12,072	7,849	2,979	880	5.2	48.1	31.3	11.9	3.5
1950	34,510	1,120	13,527	11,449	6,841	1,573	3.2	39.2	33.2	19.8	4.6
1955	38,900	665	12,174	14,410	10,204	1,447	1.7	31.3	37.1	26.2	3.7
1956	41,510	734	13,123	15,181	10,930	1,542	1.8	31.6	36.6	26.3	3.7
1957	41,826	644	12,909	15,178	11,571	1,524	1.5	30.9	36.3	27.7	3.6
1958	39,132	538	10,754	14,204	11,943	1,693	1.4	27.5	36.3	30.5	4.3
1959	40,932	524	10,795	14,932	13,036	1,645	1.3	26.4	36.5	31.8	4.0
1960	41,844	478	10,886	14,935	13,822	1,723	1.2	26.0	35.7	33.0	4.1
1961 (prel.)	41,793	452	10,480	15,206	13,903	1,752	1.1	25.1	36.4	33.2	4.2
CONSUMPTION											
1920	19,782	2,179	13,325	2,634	869	775	11.0	67.4	13.3	4.4	3.9
1930	22,288	1,718	11,921	5,652	2,212	785	7.7	53.5	25.4	9.9	3.5
1940	23,908	1,245	11,290	7,487	2,969	917	5.2	47.2	31.4	12.4	3.8
1950	34,153	1,013	11,900	12,706	6,933	1,601	3.0	34.8	37.2	20.3	4.7
1955	39,956	599	11,104	16,328	10,428	1,497	1.5	27.8	40.8	26.1	3.8
1956	42,007	610	11,338	17,418	11,043	1,598	1.4	27.0	41.5	26.3	3.8
1957	41,920	528	10,838	17,328	11,658	1,568	1.3	25.8	41.4	27.8	3.7
1958	41,493	483	9,607	17,428	12,235	1,740	1.2	23.1	42.0	29.5	4.2
1959	43,411	478	9,596	18,307	13,339	1,691	1.1	22.1	42.2	30.7	3.9
1960	44,960	447	9,967	18,608	14,163	1,775	1.0	22.2	41.4	31.5	3.9
1961 (prel.)	45,868	414	9,810	18,926	14,914	1,804	1.0	21.4	41.2	32.5	3.9

[1] Includes commingled condensate. Beginning 1950, consumption includes petroleum products (net imports).
[2] Marketed production; includes amount stored and lost in transmission. Consumption includes dry and liquid gas.

Source: Department of the Interior, Bureau of Mines; *Minerals Yearbook*. Current data also published in *Mineral Industry Surveys* and annual bulletin, *Bituminous Coal and Lignite*.

No. 713. Total Horsepower of All Prime Movers: 1930 to 1961

[In thousands. Excludes Alaska and Hawaii, except as noted. Prime movers are mechanical engines and turbines, and work animals, which originally convert fuels or force (as wind or falling water) into work and power. Electric motors, which are secondary movers and obtain their power from prime movers, are excluded to avoid duplication. See also *Historical Statistics, Colonial Times to 1957*, series S 1–14]

Item	1930	1940	1950	1955	1960 [1]	1961 [1] (prel.)
Total horsepower	1,663,944	2,758,332	4,760,262	7,157,977	10,967,285	11,604,314
Automotive [2]	1,426,568	2,511,312	4,403,617	6,632,121	10,366,880	10,972,210
Nonautomotive	237,376	247,020	356,645	524,956	600,405	632,104
Work animals	17,660	12,510	7,040	4,141	2,790	2,700
Inanimate	219,716	234,510	349,605	520,815	597,615	629,404
Factories	19,519	21,768	32,921	35,579	[3] 37,360	[3] 37,715
Mines	5,620	7,332	9,167	30,768	[3] 34,000	[3] 34,350
Railroads	109,743	92,361	110,969	60,304	46,856	47,453
Merchant ships, powered [1] [4]	9,115	9,408	23,423	24,155	23,890	23,046
Sailing vessels [1]	100	26	11	5	2	2
Farms [5]	28,610	42,488	63,090	206,590	201,756	205,463
Windmills	200	130	59	59	44	41
Electric central stations	43,427	53,542	87,965	137,576	217,173	235,746
Aircraft [1] [6]	3,382	7,455	22,000	25,779	36,534	45,588

[1] Includes Alaska and Hawaii. [2] Includes passenger cars, trucks, buses, and motorcycles.
[3] Excludes Alaska and Hawaii. [4] 1930 not directly comparable with later years.
[5] Excludes horses and other work animals, which are included with "work animals."
[6] Includes private planes and commercial airliners.

Source: For 1930–1950, The Twentieth Century Fund, J. F. Dewhurst and Associates, *America's Needs and Resources, A New Survey;* for 1955, John A. Waring, *Transactions of Canadian Sectional Meeting, World Power Conference, 1958;* and beginning 1960, estimates by John A. Waring.

No. 714. Electric Energy Use, 1960, and Projected Requirements: 1965 to 1980

[Includes Alaska and Hawaii. Excludes generation by industrial facilities and railways having generating facilities of their own]

Year	Energy use: Billion kw.-hr.	Energy use: Percent increase: From 1960	Energy use: Percent increase: For each interval	Peak load: Million kw.	Peak load: Percent increase: From 1960	Peak load: Percent increase: For each interval
1960	763.5	----------	----------	138.3	----------	----------
1965	1,111.0	45.5	45.5	201.0	45.3	45.3
1970	1,564.0	104.8	40.8	283.0	104.6	40.8
1975	2,139.0	180.2	36.8	387.0	179.8	36.7
1980	2,866.0	275.4	34.0	519.0	275.2	34.1

Source: Federal Power Commission; Release No. 11,830, Jan. 30, 1962.

No. 715. Electric Energy Production and Installed Generating Capacity, by Class of Ownership and Type of Prime Mover: 1940 to 1961

[Production for years ending December 31; other data as of December 31. Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series S 15–35 and S 44–69]

Item	1940	1950	1955	1957	1958	1959	1960	1961 (prel.)
Production (1,000,000 kw.-hr.)	**179,907**	**388,674**	**629,010**	**716,356**	**724,752**	**795,251**	**841,616**	**878,530**
Electric utilities (for public use)	141,837	329,141	547,038	631,507	645,098	710,006	753,350	791,975
By class of ownership:								
Privately owned	125,411	266,860	420,869	480,943	490,402	544,234	578,600	604,817
Percent of total	88.4	81.1	76.9	76.2	76.0	76.7	76.8	76.4
Publicly owned	16,426	62,281	126,169	150,564	154,696	165,772	174,750	187,158
Municipal	6,188	15,244	25,852	27,850	28,329	*34,618*	*36,924*	(1)
Federal	8,584	40,388	89,064	109,176	110,437	109,052	112,321	(1)
Cooperatives, power districts, State projects	1,175	5,793	11,253	13,538	15,930	22,102	25,505	(1)
Noncentral stations	479	857	(2)	(2)	(2)	(2)	(2)	(1)
By source of energy (percent):								
Coal [3]	54.6	47.1	55.1	54.9	53.4	53.3	53.6	53.3
Oil	4.4	10.3	6.8	6.4	6.3	6.6	6.1	5.9
Gas	7.7	13.5	17.4	18.1	18.6	20.7	21.0	21.4
Hydro	33.4	29.2	20.7	20.6	21.7	19.4	19.3	19.2
Industrial plants [4]	38,070	59,533	81,972	84,849	79,654	85,245	88,266	86,555
Installed capacity (1,000 kw.)	**50,962**	**82,850**	**130,896**	**146,221**	**160,651**	*174,352*	*185,815*	*197,923*
Electric utilities (for public use)	39,927	68,919	114,472	129,123	142,597	156,841	168,002	180,119
By class of ownership:								
Privately owned	34,399	55,176	86,887	97,376	108,202	118,999	128,450	136,399
Percent of total	86.2	80.1	75.9	75.4	75.9	75.8	76.5	75.7
Publicly owned	5,528	13,743	27,585	31,747	34,395	37,842	39,552	43,720
Municipal	2,977	4,970	7,795	8,640	9,817	10,914	11,499	(1)
Federal	1,944	6,921	16,962	19,649	20,436	21,874	22,350	(1)
Cooperatives, power districts, State projects	435	1,538	2,828	3,458	4,142	5,054	5,703	(1)
Noncentral stations	173	314	(2)	(2)	(2)	(2)	(2)	(1)
Industrial plants [4]	11,035	13,931	16,424	17,098	18,054	17,511	17,813	17,804
TYPE OF PRIME MOVER								
Electric utilities (for public use):								
Number of plants, total [5]	3,918	3,867	3,587	3,517	3,481	3,457	3,435	(1)
Hydro	1,474	1,458	1,381	1,360	1,359	1,353	1,331	(1)
Steam	1,153	1,051	1,045	1,043	1,051	1,049	1,060	(1)
Internal combustion	1,291	1,358	1,161	1,114	1,071	1,055	1,044	(1)
Production (1,000,000 kilowatt-hours)	141,837	329,141	547,038	631,507	645,098	710,006	753,350	791,975
Hydro	47,321	95,938	112,975	130,232	140,262	137,781	145,516	151,797
Steam	93,002	229,543	430,119	497,212	500,764	567,839	603,342	640,178
Internal combustion	1,514	3,660	3,944	4,062	4,072	4,385	4,492	
Installed capacity (1,000 kilowatts)	39,927	68,919	114,472	129,123	142,597	156,841	168,002	180,119
Hydro	11,224	17,675	25,004	27,036	29,359	31,074	32,367	35,480
Steam	27,775	49,333	87,112	99,542	110,633	123,085	132,818	141,720
Internal combustion	928	1,911	2,355	2,545	2,604	2,682	2,817	2,919
Production per kilowatt of installed capacity (kilowatt-hours) [6]	3,552	4,776	4,779	4,891	4,524	4,527	4,484	4,397

[1] Not available. [2] Distributed to other publicly owned classes.
[3] Includes small percentage from wood and waste and also, in past few years, from nuclear fuel.
[4] Comprises production and capacity of industrial electric power plants of 100 kilowatts and over, including amounts for stationary electric power plants of railroads and railways.
[5] Each prime mover type in combination plants counted separately. [6] Capacity in service at end of year.

Source: Federal Power Commission; annual summaries, industrial electric power summaries, related monthly reports, and records.

No. 716. Electric Utilities—Installed Generating Capacity and Electric Energy Production, by States: 1945 to 1960

[Installed capacity as of December 31; production for years ending December 31]

STATE	INSTALLED CAPACITY (1,000 kw.)				ENERGY PRODUCTION (1,000,000 kw.-hr.)			
	1945	1950	1955	1960	1945	1950	1955	1960
United States[1]	50,111	68,919	114,472	168,002	222,486	329,141	547,038	753,350
New England	3,198	4,052	5,271	7,045	11,805	16,211	22,610	28,808
Maine	332	415	623	743	1,349	1,680	2,405	2,966
New Hampshire	305	398	474	762	1,038	1,329	1,718	2,188
Vermont	175	204	261	261	832	735	981	842
Massachusetts	1,330	1,653	2,167	2,971	4,577	6,588	9,461	13,399
Rhode Island	283	359	401	427	919	1,656	1,955	1,699
Connecticut	773	1,022	1,345	1,880	3,091	4,223	6,091	7,894
Middle Atlantic	10,510	13,225	18,218	25,536	46,678	63,372	86,140	112,749
New York	5,361	6,257	8,469	11,821	22,003	29,452	39,533	51,897
New Jersey	1,571	2,053	2,914	4,538	7,325	9,921	12,306	17,730
Pennsylvania	3,578	4,916	6,835	9,178	17,350	24,000	34,301	43,122
East North Central	11,506	16,083	25,976	36,780	50,921	75,349	125,853	165,101
Ohio	3,250	4,430	7,459	10,612	14,706	21,967	35,955	49,489
Indiana	1,610	2,142	4,351	6,566	7,442	10,374	21,193	30,966
Illinois	3,058	4,506	6,955	9,354	14,020	20,686	35,997	43,035
Michigan	2,383	3,222	4,590	6,758	9,827	15,316	22,365	27,672
Wisconsin	1,205	1,783	2,622	3,490	4,926	7,006	10,343	13,888
West North Central	3,466	5,024	7,930	11,538	12,728	19,237	30,463	43,734
Minnesota	752	1,151	1,764	2,434	2,666	4,549	6,642	9,613
Iowa	761	1,173	1,554	2,011	2,876	4,428	6,212	7,927
Missouri	816	958	1,743	2,697	3,021	3,718	6,952	10,552
North Dakota	100	187	264	666	313	660	963	1,780
South Dakota	99	169	491	545	265	536	1,399	1,700
Nebraska	416	572	762	1,224	1,334	2,011	2,816	4,351
Kansas	521	814	1,353	1,960	2,254	3,335	5,478	7,810
South Atlantic	6,557	8,857	15,131	22,696	28,285	43,604	71,220	103,636
Delaware	39	28	224	425	43	20	1,366	2,262
Maryland	900	1,099	1,373	2,077	4,334	5,040	5,845	9,240
District of Columbia	458	508	533	533	1,681	1,669	1,627	976
Virginia	795	1,204	1,931	3,570	3,717	6,233	9,380	18,285
West Virginia	960	1,256	2,177	3,217	5,780	7,821	14,239	14,013
North Carolina	1,347	1,760	3,505	4,397	4,966	9,829	15,592	20,000
South Carolina	792	847	1,652	2,249	2,251	2,910	5,870	10,238
Georgia	716	1,156	1,675	2,236	2,901	5,235	7,705	10,655
Florida	550	999	2,062	3,992	2,613	4,847	9,593	17,967
East South Central	3,434	4,464	11,657	16,614	16,596	24,606	66,530	87,691
Kentucky	581	904	2,745	3,362	2,367	4,390	17,693	19,899
Tennessee	1,452	1,670	4,628	7,521	6,922	9,379	24,625	40,071
Alabama	1,327	1,690	3,654	4,700	7,099	9,577	21,348	24,594
Mississippi	74	200	631	1,032	208	1,260	2,864	3,127
West South Central	2,694	4,717	9,449	16,401	13,682	22,515	40,823	64,693
Arkansas	222	450	1,165	1,188	776	1,975	4,909	5,244
Louisiana	542	909	1,594	2,934	3,250	4,936	6,677	11,865
Oklahoma	457	723	1,260	2,225	2,255	2,927	5,337	8,299
Texas	1,473	2,636	5,430	10,054	7,401	12,676	23,900	39,200
Mountain	2,647	3,445	6,106	8,700	11,974	16,497	24,155	36,611
Montana	373	442	925	1,353	2,318	3,136	4,696	5,992
Idaho	267	445	781	1,255	1,263	2,538	3,907	6,165
Wyoming	82	139	236	382	261	595	724	1,588
Colorado	332	464	959	1,317	1,129	1,856	3,719	5,571
New Mexico	162	281	459	802	559	1,014	1,765	3,041
Arizona	668	843	1,626	2,266	3,437	3,489	5,535	8,562
Utah	171	235	523	606	417	659	2,377	3,038
Nevada	590	596	597	720	2,590	3,210	1,431	2,655
Pacific	6,100	9,054	14,733	22,690	29,818	47,751	79,245	110,412
Washington	1,814	2,765	4,074	7,215	9,690	17,371	24,030	34,153
Oregon	903	973	2,046	2,614	4,185	5,545	12,703	12,425
California	3,384	5,316	8,612	12,862	15,943	24,836	42,512	63,834

[1] Excludes Alaska and Hawaii. For 1960: Total utility and industrial capacity: Alaska, 349,000 kw., and Hawaii, 578,000 kw.; total utility and industrial production: Alaska, 972,000,000 kw.-hr., and Hawaii, 1,974,000,000 kw.-hr.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 717. Installed Generating Capacity of Electric Utilities and Industrial Plants, by Type of Prime Mover and Class of Ownership, by States: 1960

[In thousands of kilowatts. As of December 31]

State	Total	Type of prime mover: Electric utilities and industrial: Fuel	Electric utilities and industrial: Hydro	Electric utilities: Fuel	Electric utilities: Hydro	Class of ownership of electric utilities: Total	Privately owned	Publicly owned: Municipal	Publicly owned: Other	Industrial plants
United States [1]	**185,815**	**152,723**	**33,092**	**135,635**	**32,367**	**168,002**	**128,450**	**11,499**	**28,053**	**17,813**
New England	**8,225**	**6,705**	**1,520**	**5,790**	**1,255**	**7,045**	**6,790**	**217**	**38**	**1,179**
Maine	1,102	607	495	391	351	743	722	4	17	360
New Hampshire	850	405	445	365	398	762	759	4	-------	88
Vermont	283	84	199	75	186	261	245	16	-------	22
Massachusetts	3,459	3,233	227	2,786	186	2,971	2,818	144	9	488
Rhode Island	456	453	3	425	2	427	421	2	5	29
Connecticut	2,074	1,923	151	1,749	132	1,880	1,824	49	8	193
Middle Atlantic	**27,847**	**25,375**	**2,472**	**23,145**	**2,391**	**25,536**	**24,369**	**229**	**939**	**2,311**
New York	12,360	10,332	2,028	9,869	1,952	11,821	10,796	96	929	539
New Jersey	4,909	4,901	8	4,532	6	4,538	4,488	48	2	371
Pennsylvania	10,578	10,142	436	8,745	433	9,178	9,085	85	8	1,400
East North Central	**41,045**	**40,117**	**929**	**35,947**	**832**	**36,780**	**34,420**	**1,930**	**430**	**4,266**
Ohio	11,841	11,832	9	10,607	6	10,612	10,075	523	14	1,229
Indiana	7,384	7,353	31	6,534	31	6,566	6,220	346	-------	818
Illinois	10,034	9,992	42	9,316	38	9,354	9,027	290	37	680
Michigan	7,923	7,504	419	6,377	381	6,758	6,025	631	101	1,166
Wisconsin	3,863	3,436	427	3,114	376	3,490	3,072	140	277	374
West North Central	**12,265**	**10,672**	**1,594**	**9,986**	**1,552**	**11,538**	**7,294**	**1,956**	**2,288**	**727**
Minnesota	2,809	2,624	186	2,282	152	2,434	1,969	368	97	375
Iowa	2,139	2,003	136	1,875	136	2,011	1,534	317	160	128
Missouri	2,813	2,520	293	2,405	293	2,697	2,065	401	231	116
North Dakota	679	279	400	266	400	666	184	14	467	14
South Dakota	557	224	333	221	324	545	182	40	323	12
Nebraska	1,231	991	240	984	240	1,224	-------	263	961	7
Kansas	2,036	2,030	6	1,954	6	1,960	1,359	552	48	76
South Atlantic	**25,836**	**22,063**	**3,773**	**19,105**	**3,592**	**22,696**	**20,127**	**1,141**	**1,429**	**3,139**
Delaware	465	464	1	425	-------	425	407	18	-------	40
Maryland	2,349	2,077	272	1,806	271	2,077	2,015	56	7	271
Dist. of Columbia	555	552	3	530	3	533	530	-------	3	22
Virginia	4,103	3,687	416	3,174	396	3,570	3,282	57	232	533
West Virginia	4,222	4,014	208	3,116	101	3,217	3,217	-------	-------	1,005
North Carolina	4,654	3,433	1,220	3,190	1,206	4,397	3,920	116	361	257
South Carolina	2,697	1,739	958	1,317	932	2,249	1,718	5	526	448
Georgia	2,504	1,851	653	1,597	640	2,236	1,993	16	228	268
Florida	4,287	4,245	42	3,950	42	3,992	3,045	873	74	295
East South Central	**17,573**	**13,822**	**3,750**	**12,872**	**3,742**	**16,614**	**4,866**	**968**	**10,781**	**958**
Kentucky	3,398	2,857	541	2,821	541	3,362	1,323	83	1,956	36
Tennessee	7,974	6,064	1,910	5,611	1,910	7,521	172	798	6,552	454
Alabama	5,068	3,768	1,299	3,408	1,291	4,700	2,426	1	2,273	368
Mississippi	1,133	1,133	-------	1,032	-------	1,032	946	86	-------	101
West South Central	**20,082**	**19,137**	**944**	**15,457**	**944**	**16,401**	**13,660**	**1,643**	**1,098**	**3,681**
Arkansas	1,437	1,049	388	799	388	1,188	776	89	322	250
Louisiana	4,050	4,050	-------	2,934	-------	2,934	2,635	300	-------	1,116
Oklahoma	2,274	2,109	165	2,060	165	2,225	1,798	136	291	49
Texas	12,321	11,930	391	9,664	390	10,054	8,452	1,118	485	2,267
Mountain	**9,489**	**4,869**	**4,621**	**4,082**	**4,618**	**8,700**	**5,322**	**293**	**3,085**	**789**
Montana	1,369	134	1,235	118	1,235	1,353	930	-------	423	16
Idaho	1,294	43	1,251	4	1,250	1,255	1,033	13	208	39
Wyoming	433	243	189	193	189	382	185	2	195	51
Colorado	1,412	1,158	253	1,064	253	1,317	913	152	252	95
New Mexico	879	854	25	778	25	802	639	69	94	77
Arizona	2,482	1,502	980	1,285	980	2,266	950	2	1,314	216
Utah	853	753	100	506	100	606	536	53	17	247
Nevada	768	180	587	134	586	720	137	1	582	48
Pacific	**23,453**	**9,963**	**13,490**	**9,250**	**13,441**	**22,690**	**11,602**	**3,123**	**7,966**	**763**
Washington	7,534	532	7,002	240	6,974	7,215	1,093	1,000	5,122	319
Oregon	2,798	364	2,434	200	2,414	2,614	795	51	1,767	184
California	13,121	9,067	4,054	8,810	4,052	12,862	9,714	2,071	1,076	259

[1] Excludes Alaska and Hawaii. Total utility and industrial capacity: Alaska, 349,000 kw., and Hawaii, 578,000 kw.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 718. Electric Energy—Production by Electric Utilities and Industrial Plants, by Type of Prime Mover and Class of Ownership, by States: 1960

[In millions of kilowatt-hours. For year ending December 31]

State	Total	Type of prime mover: Electric utilities and industrial: Fuel	Electric utilities and industrial: Hydro	Electric utilities: Fuel	Electric utilities: Hydro	Class of ownership of electric utilities: Total	Privately owned	Publicly owned: Municipal	Publicly owned: Other	Industrial plants
United States [1]	841,616	692,494	149,123	607,834	145,516	753,350	578,600	36,924	137,826	88,266
New England	32,670	26,137	6,534	23,656	5,152	28,808	28,098	584	126	3,862
Maine	4,696	1,865	2,831	1,028	1,939	2,966	2,906	18	43	1,730
New Hampshire	2,589	1,221	1,369	1,054	1,134	2,188	2,177	11	-------	402
Vermont	918	45	873	33	809	842	796	46	-------	76
Massachusetts	14,348	13,347	1,000	12,444	865	13,309	12,868	406	35	1,039
Rhode Island	1,816	1,808	9	1,691	8	1,699	1,663	5	30	117
Connecticut	8,393	7,851	452	7,406	398	7,804	7,688	98	18	499
Middle Atlantic	122,138	108,184	13,954	99,159	13,590	112,749	105,614	701	6,434	9,389
New York	54,234	42,150	12,084	40,151	11,746	51,897	45,200	295	6,402	2,336
New Jersey	19,078	19,034	44	17,695	35	17,730	17,550	168	12	1,348
Pennsylvania	48,826	47,000	1,826	41,312	1,810	43,122	42,864	238	20	5,704
East North Central	184,774	180,036	4,738	160,950	4,151	165,101	158,021	5,456	1,623	19,673
Ohio	55,785	55,765	19	49,482	7	49,489	47,974	1,464	52	6,296
Indiana	34,461	34,361	100	30,866	100	30,966	30,085	882	-------	3,495
Illinois	45,923	45,738	184	42,919	166	43,085	42,085	883	118	2,837
Michigan	33,030	30,999	2,030	25,855	1,817	27,672	25,321	1,873	478	5,357
Wisconsin	15,576	13,172	2,404	11,827	2,061	13,888	12,557	355	976	1,688
West North Central	47,291	41,613	5,678	38,224	5,510	43,734	31,504	4,406	7,824	3,557
Minnesota	11,495	10,618	877	8,882	731	9,613	8,594	774	245	1,882
Iowa	8,557	7,676	881	7,047	879	7,927	6,820	633	474	630
Missouri	11,089	10,364	726	9,827	726	10,552	8,923	926	703	537
North Dakota	1,841	781	1,060	720	1,060	1,780	499	11	1,270	61
South Dakota	1,721	566	1,156	564	1,136	1,700	545	25	1,131	22
Nebraska	4,365	3,406	959	3,393	959	4,351	-------	525	3,827	14
Kansas	8,222	8,202	20	7,791	20	7,810	6,123	1,512	176	412
South Atlantic	120,433	105,691	14,743	89,706	13,931	103,636	95,214	3,748	4,675	16,797
Delaware	2,437	2,437	-------	2,262	-------	2,262	2,210	52	-------	175
Maryland	10,668	9,311	1,358	7,884	1,356	9,240	9,110	109	21	1,429
Dist. of Columbia	1,017	1,014	3	973	3	976	973	-------	3	41
Virginia	20,614	19,349	1,265	17,097	1,189	18,285	17,437	195	653	2,329
West Virginia	19,739	18,808	931	13,615	398	14,013	14,013	-------	-------	5,726
North Carolina	21,374	16,380	4,994	15,049	4,951	20,000	18,644	164	1,191	1,374
South Carolina	12,375	8,765	3,610	6,724	3,513	10,238	8,237	15	1,986	2,137
Georgia	12,479	10,173	2,305	8,412	2,243	10,655	10,108	59	488	1,824
Florida	19,731	19,454	278	17,690	278	17,967	14,481	3,152	334	1,764
East South Central	93,261	75,714	17,547	70,169	17,522	87,691	22,048	3,291	62,352	5,571
Kentucky	20,032	17,399	2,633	17,266	2,633	19,899	5,357	229	14,312	133
Tennessee	42,795	34,119	8,676	31,395	8,676	40,071	760	2,891	36,419	2,724
Alabama	26,635	20,396	6,238	18,381	6,213	24,594	12,974	-------	11,620	2,040
Mississippi	3,800	3,800	-------	3,127	-------	3,127	2,956	170	-------	673
West South Central	87,683	84,884	2,798	61,810	2,798	64,608	56,199	4,767	3,642	23,074
Arkansas	6,500	5,508	992	4,252	992	5,244	4,292	151	801	1,256
Louisiana	19,284	19,284	-------	11,865	-------	11,865	11,114	751	-------	7,419
Oklahoma	8,534	7,829	705	7,595	705	8,299	6,732	275	1,292	235
Texas	53,364	52,262	1,102	38,098	1,102	39,200	34,061	3,590	1,549	14,164
Mountain	39,932	21,055	18,877	17,737	18,873	36,611	24,010	966	11,635	3,321
Montana	6,040	239	5,801	191	5,801	5,992	4,302	-------	1,690	48
Idaho	6,315	150	6,165	(2)	6,165	6,165	5,111	73	981	150
Wyoming	1,762	1,153	609	979	609	1,588	973	(2)	614	174
Colorado	5,935	4,965	970	4,602	969	5,571	4,117	524	930	364
New Mexico	3,454	3,384	69	2,971	69	3,041	2,490	163	388	413
Arizona	9,458	6,469	2,990	5,572	2,990	8,562	3,506	7	5,049	896
Utah	4,172	3,866	306	2,734	304	3,038	2,773	197	68	1,134
Nevada	2,796	829	1,967	688	1,967	2,655	737	2	1,915	141
Pacific [1]	113,434	49,180	64,254	46,424	63,988	110,412	57,892	13,005	39,515	3,022
Washington	35,417	1,074	34,343	−1	34,154	34,153	4,410	3,336	26,408	1,264
Oregon	13,118	652	12,466	36	12,389	12,425	3,171	182	9,071	693
California	64,899	47,454	17,445	46,390	17,445	63,834	50,312	9,487	4,036	1,065

[1] Excludes Alaska and Hawaii. Total utility and industrial production: Alaska, 972,000,000 kw.-hr., and Hawaii, 1,974,000,000 kw.-hr.

[2] Less than 500,000.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 719. Federal Electric Utility Projects—Installed Capacity and Investment Allocated to Electric Plant: 1955 to 1960

[As of June 30. Beginning 1959, includes Alaska. Comprises only the electricity generating plant of these projects and excludes projects not primarily manufacturing electricity (e.g., West Point, Annapolis). Investments represent allocation to power projects for capital equipment and improvements. Reserves for depreciation have not been deducted]

PROJECT GROUP OR SYSTEM	INSTALLED CAPACITY (1,000 kw.)			INVESTMENT ALLOCATED [1] ($1,000)		
	1955	1959	1960	1955	1959	1960
Total	**15,033**	**21,880**	**22,616**	**3,811,843**	**5,232,175**	**5,397,699**
Percent capacity of all electric utilities	13.1	14.0	13.5			
Central Valley: Bureau of Reclamation	522	630	630	134,081	136,350	137,861
Columbia Basin	3,619	5,751	6,063	1,020,600	1,584,118	1,607,100
Bonneville Power Administration (transmission)				368,914	461,794	479,913
Bureau of Reclamation	2,259	2,282	2,282	218,084	281,243	277,200
Corps of Engineers	1,360	3,469	3,781	433,602	841,081	849,987
Hoover and Parker-Davis: Bureau of Reclamation	1,595	1,595	1,595	205,598	207,160	208,635
Missouri Basin	687	1,136	1,142	369,577	630,088	661,373
Bureau of Reclamation	362	391	397	214,278	281,309	304,212
Corps of Engineers	325	745	745	155,299	348,779	357,161
Southeastern Power Administration	1,031	1,247	1,271	259,142	400,609	410,111
Southeastern Power Administration (transmission)				63	86	88
Corps of Engineers	1,031	1,247	1,271	259,079	400,523	410,023
Southwestern Power Administration	426	601	601	144,629	223,613	230,192
Southwestern Power Administration (transmission)				23,444	25,304	27,108
Corps of Engineers	426	601	601	121,185	198,309	203,084
Tennessee Valley Authority	7,005	10,632	11,032	1,634,057	1,960,321	2,054,316
Other projects	148	288	282	44,159	89,916	88,110
Bureau of Reclamation	83	224	218	20,483	64,074	61,941
Corps of Engineers	18	18	18	11,834	11,846	11,846
Bureau of Indian Affairs	15	14	14	6,342	7,274	7,602
International Boundary and Water Commission	32	32	32	5,500	6,722	6,721

[1] Includes estimates.

Source: Federal Power Commission.

No. 720. Electric Utilities—Number of Electric Utility Supply Systems and Generating Plants, by Class of Ownership: 1945 to 1960

[As of December 31. Excludes Alaska and Hawaii. Duplications of establishments operating in two or more States have been eliminated. Each type of prime mover in combination generating plants counted separately; nonutility generating plants, producing primarily for industrial use, approximately 2,234 in 1960, are excluded]

ITEM	Total, all classes	Privately owned	Cooperatively owned	PUBLICLY OWNED			
				Total	Municipal	Federal	Other [1]
1945: Total electric supply systems	4,051	1,060	800	2,191	2,092	74	25
Systems with generating plants	1,594	492	83	1,019	990	18	11
Number of generating plants	3,886	2,400	142	1,344	1,157	86	101
1950: Total electric supply systems	4,007	821	963	2,223	2,077	55	91
Systems with generating plants	1,495	393	92	1,010	955	13	42
Number of generating plants	3,867	2,334	166	1,367	1,136	83	148
1955: Total electric supply systems	3,648	581	950	2,117	1,968	57	92
Systems with generating plants	1,315	315	78	922	865	9	48
Number of generating plants	3,587	2,103	146	1,338	1,068	129	141
1959: Total electric supply systems	3,289	373	918	1,998	1,866	43	89
Systems with generating plants	1,242	273	69	900	809	42	49
Number of generating plants	3,457	2,008	142	1,307	1,025	144	138
1960: Total electric supply systems	3,276	364	925	1,987	1,856	43	88
Systems with generating plants	1,234	270	68	896	802	42	52
Number of generating plants	3,435	2,000	132	1,303	1,017	142	144

[1] Public utility districts and State projects.

Source: Federal Power Commission, annual summaries; and McGraw-Hill Publishing Co., Inc., New York, N.Y., *Directory of Electric Utilities*.

No. 721. Water Power—Developed, 1920 to 1960, and Estimated Undeveloped, 1960, by States

[In thousands of kilowatts. As of December 31]

STATE	Developed water power (capacity of actual installations only): Electric utilities only		Electric utilities and industrial plants								Estimated undeveloped water power, Jan. 1, 1960
			1939		1950			1960			
	1920	1930	Total	Utilities	Total	Utilities	Industrial	Total	Utilities	Industrial	
United States[1]	3,704	8,585	12,075	11,004	18,675	17,675	1,000	33,092	32,367	725	114,200
New England	291	753	1,115	833	1,239	971	268	1,520	1,255	264	2,900
Maine	40	174	301	188	391	270	121	495	351	144	1,500
New Hampshire	43	212	292	235	312	262	50	445	398	47	600
Vermont	49	156	173	158	192	177	15	199	186	12	400
Massachusetts	114	129	228	161	223	168	55	227	186	41	200
Rhode Island	2	2	14	3	11	3	8	3	2	1	------
Connecticut	44	79	107	88	107	89	18	151	132	19	200
Middle Atlantic	662	1,290	1,633	1,563	1,678	1,602	76	2,472	2,391	81	7,600
New York	540	1,074	1,229	1,165	1,225	1,155	70	2,028	1,952	76	4,000
New Jersey	1	1	6	3	9	6	3	8	6	2	200
Pennsylvania	120	215	399	395	444	441	3	436	433	3	3,400
East North Central	372	602	790	703	901	828	73	929	832	96	3,000
Ohio	17	13	16	12	16	12	4	9	6	3	300
Indiana	11	35	38	35	37	37	------	31	31	------	800
Illinois	43	50	51	49	54	49	5	42	38	3	1,200
Michigan	167	258	368	344	399	384	15	419	381	38	300
Wisconsin	134	247	318	263	396	347	49	427	376	51	400
West North Central	257	279	537	501	629	577	52	1,594	1,552	42	6,400
Minnesota	88	122	158	126	181	138	43	186	152	33	200
Iowa	138	124	127	127	137	137	------	136	136	(2)	500
Missouri	12	13	151	151	151	151	------	293	293	------	2,800
North Dakota	------	------	(2)	------	------	------	------	400	400	------	200
South Dakota	5	4	4	4	11	3	8	333	324	8	1,700
Nebraska	7	11	87	86	142	142	(2)	240	240	(2)	700
Kansas	7	6	9	7	6	6	------	6	6	------	300
South Atlantic	589	1,603	2,224	1,803	2,767	2,297	470	3,773	3,592	181	8,400
Delaware	------	------	(2)	------	1	------	1	1	------	1	------
Maryland	1	272	273	271	272	271	1	272	271	1	400
District of Columbia	------	2	3	2	3	3	------	3	3	------	------
Virginia	45	83	204	182	207	183	24	416	396	20	1,500
West Virginia	9	56	209	101	208	101	107	208	101	107	2,200
North Carolina	144	397	651	400	962	662	300	1,220	1,206	14	1,400
South Carolina	231	506	520	495	679	653	26	958	932	26	800
Georgia	155	271	349	337	425	412	13	653	640	13	2,000
Florida	4	14	14	14	13	13	------	42	42	------	100
East South Central	170	863	1,270	1,140	2,729	2,721	8	3,750	3,742	8	4,600
Kentucky	------	105	111	111	271	271	------	541	541	------	1,700
Tennessee	97	127	432	310	1,238	1,238	------	1,910	1,910	------	300
Alabama	72	632	727	719	1,220	1,212	8	1,299	1,291	8	2,200
Mississippi	------	------	------	------	------	------	------	------	------	------	400
West South Central	4	19	140	139	466	463	3	944	944	(2)	3,900
Arkansas	1	11	67	67	148	145	3	388	388	------	1,500
Louisiana	------	------	1	------	------	------	------	------	------	------	100
Oklahoma	1	2	2	2	74	74	------	165	165	(2)	800
Texas	2	6	71	71	245	245	(2)	391	390	(2)	1,500
Mountain	487	784	1,583	1,581	2,286	2,282	4	4,621	4,618	2	23,600
Montana	212	300	321	321	427	426	1	1,235	1,235	------	6,300
Idaho	135	225	257	257	441	440	1	1,251	1,250	(2)	9,000
Wyoming	2	12	47	47	79	79	------	189	189	------	1,000
Colorado	48	52	67	66	92	91	1	253	253	(2)	1,800
New Mexico	1	1	1	1	25	25	------	25	25	------	200
Arizona	23	87	293	293	541	541	------	980	980	------	4,100
Utah	58	98	93	92	94	94	------	100	100	1	1,100
Nevada	9	9	505	504	587	586	1	587	586	1	100
Pacific[1]	872	2,391	2,783	2,741	5,979	5,933	46	13,490	13,441	50	53,800
Washington	241	596	812	784	2,591	2,564	27	7,002	6,974	27	18,300
Oregon	65	156	286	278	783	766	17	2,434	2,414	20	5,900
California	566	1,640	1,685	1,680	2,606	2,604	2	4,054	4,052	2	10,500
Alaska	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	18,800
Hawaii	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	300

[1] Excludes Alaska and Hawaii, except for estimated undeveloped water power.
[2] Less than 500. [3] Not available.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 722. Electric Light and Power Industry—Energy Generated, Sales, Revenue, and Customers: 1940 to 1961

[Beginning 1960, includes Alaska and Hawaii. Beginning 1960, the classification of "rural" is allocated to the appropriate other classes of service]

CLASS	1940	1945	1950	1955	1960	1961
Energy generated [1] ....million kilowatt-hours..	141,837	222,486	329,141	547,038	756,296	[2] 795,237
Sales to ultimate customers....do....	*118,643*	*193,558*	280,539	480,921	683,199	720,728
Residential or domestic....do....	23,317	34,184	67,030	120,524	196,400	209,021
Rural (distinct rural rates)....do....	1,991	3,669	7,400	10,751	----------	----------
Commercial and industrial:						
Small light and power....do....	22,373	30,438	50,446	76,254	114,806	134,864
Large light and power....do....	59,557	107,490	139,065	253,711	344,799	347,427
All other....do....	11,405	17,777	16,508	19,681	27,194	29,416
Revenue from ultimate customers..$1,000,000..	2,440	3,342	5,086	8,020	11,516	12,169
Residential or domestic....do....	896	1,167	1,932	3,187	4,856	5,116
Rural (distinct rural rates)....do....	49	90	158	229	----------	----------
Commercial and industrial:						
Small light and power....do....	*689*	*850*	*1,334*	*1,909*	*2,828*	*3,168*
Large light and power....do....	631	1,002	1,405	2,360	3,334	3,370
All other....do....	174	232	258	336	498	515
Ultimate customers, Dec. 31....1,000..	30,191	34,031	44,986	52,559	58,370	60,130
Residential or domestic....do....	24,952	28,117	37,533	44,409	51,446	52,569
Rural (distinct rural rates)....do....	686	1,234	1,596	1,648	----------	----------
Commercial and industrial:						
Small light and power....do....	4,260	4,398	5,466	6,020	6,760	6,844
Large light and power....do....	178	162	235	311	454	515
All other....do....	115	119	157	171	210	202

[1] Figures obtained by Edison Electric Institute from Federal Power Commission, except that estimates by Edison Electric Institute included for Alaska and Hawaii.
[2] Preliminary.

Source: Edison Electric Institute, New York, N.Y.; annual statistical bulletin.

No. 723. Consumption of Fuels by Electric Utilities: 1920 to 1961

[For years ending December 31. Excludes Alaska and Hawaii. Use of fuels for stand-by purposes is included. See also *Historical Statistics, Colonial Times to 1957*, series S 36–43]

YEAR	Net generation by fuel [1]	FUEL CONSUMED								
		Total coal equivalent	Coal			Oil	Gas	Per kilowatt-hour		
			Total [2]	Bituminous	Anthracite			Coal	Oil	Gas
	Mil. kw.-hr.	*1,000 short tons*	*1,000 short tons*	*1,000 short tons*	*1,000 short tons*	*1,000 42-gal. bbl.*	*Mil. cu. ft.*	*Lb.*	*Gal.*	*Cu. ft.*
1920	23,495	35,791	31,640	30,099	1,540	12,690	22,136	3.0	0.254	36.9
1925	39,443	40,014	35,615	33,803	1,812	9,794	45,472	2.0	0.165	23.9
1930	59,583	47,545	40,278	38,130	2,148	8,805	119,553	1.60	0.132	19.0
1935	56,689	40,797	32,715	30,936	1,779	11,257	124,118	1.44	0.118	17.0
1940	93,963	62,942	51,474	47,721	2,348	16,325	180,096	1.34	0.112	16.5
1945	142,331	92,642	74,725	70,621	3,122	20,228	326,212	1.30	0.109	16.5
1950	232,813	138,421	91,871	86,855	3,609	75,420	628,919	1.19	0.094	14.1
1951	270,531	154,498	105,768	100,378	3,870	63,945	763,898	1.14	0.094	13.5
1952	293,640	160,872	107,071	101,795	3,762	67,218	910,117	1.10	0.095	13.3
1953	337,042	178,491	115,897	110,774	3,614	82,238	1,034,272	1.06	0.090	13.0
1954	364,354	180,367	118,385	113,660	3,166	66,745	1,165,498	0.99	0.089	12.4
1955	433,786	206,929	143,759	138,883	3,209	75,274	1,153,280	0.95	0.085	12.1
1956	478,487	223,733	158,279	153,492	3,296	72,711	1,239,311	0.94	0.085	11.9
1957	501,098	232,576	160,769	156,055	3,363	79,693	1,336,141	0.93	0.083	11.7
1958	504,497	228,136	155,724	151,756	2,786	77,668	1,372,853	0.90	0.081	11.5
1959	571,883	254,525	168,423	164,431	2,629	88,263	1,628,509	0.89	0.079	11.1
1960	607,142	266,064	176,634	173,882	2,751	85,340	1,724,762	0.88	0.078	10.9
1961 (prel.)	[3] 640,178	276,388	182,140	179,631	2,509	85,654	1,825,341	0.86	(4)	(4)

[1] Beginning 1961, includes limited output by use of wood, waste, and nuclear fuel.
[2] Includes lignite.
[3] Includes 1,689,902,000 kw.-hr. from nuclear stations and 213,540,000 kw.-hr. from wood and waste.
[4] Not available.

Source: Federal Power Commission; annual summaries and related monthly reports.

No. 724. Electric Utilities—Balance Sheet and Income Account of Privately Owned Class A and B Companies: 1940 to 1960

[In millions of dollars. For years ending December 31. Beginning 1958, includes Alaska and 1959, Hawaii. Data cover reports of all companies with annual electric revenues over $250,000, representing about 98 percent of the privately owned industry. See also *Historical Statistics, Colonial Times to 1957*, series V 128-142]

ITEM	1940	1945	1950	1955	1957	1958	1959	1960
COMPOSITE BALANCE SHEET								
Assets and other debits	15,579	14,568	20,590	31,081	36,498	39,384	42,212	44,856
Utility plant and adjustments	14,407	14,491	21,443	33,709	39,991	43,485	46,852	50,308
Reserve for depreciation and amortization	*1,913*	*3,065*	*4,385*	*6,406*	*7,570*	*8,203*	*8,978*	*9,864*
Utility plant less reserves	12,494	11,426	17,056	27,303	32,421	35,282	37,874	40,444
Investment and fund accounts	1,380	1,089	[1] 1,235	[1] 933	[1] 979	[1] 1,008	[1] 1,058	[1] 1,005
Current and accrued assets	1,123	1,696	2,058	2,567	2,799	2,773	2,943	3,066
Other assets	582	357	239	277	298	321	337	341
Liabilities and other credits	15,579	14,568	20,590	31,081	36,498	39,384	42,212	44,856
Capital stock	6,571	6,062	7,944	11,231	12,487	13,286	14,100	14,811
Capital surplus	257	239	324	330	352	356	355	350
Earned surplus	860	766	1,346	2,191	2,718	3,042	3,356	3,736
Long-term debt	6,895	6,141	9,189	14,330	17,051	18,579	19,834	21,057
Current and accrued liabilities	692	965	1,527	2,381	2,804	2,781	2,965	3,112
Accumulated deferred taxes on income				261	694	920	1,158	1,325
Other liabilities	304	395	261	356	392	420	444	465
COMPOSITE INCOME ACCOUNT								
Electric operating revenues	2,404	3,171	4,784	7,199	8,308	8,708	9,498	10,116
Electric operating revenue deductions	1,667	2,409	3,828	5,702	6,603	6,856	7,458	7,917
Net electric operating revenues	737	763	956	1,497	1,705	1,852	2,040	2,199
Income from electric plant leased to others	8	5	5	3	3	3	2	2
Electric utility operating income	744	768	961	1,500	1,708	1,855	2,042	2,201
Other utility operating income	61	65	72	119	144	161	180	196
Total utility operating income	805	833	1,033	1,620	1,852	2,016	2,222	2,397
Other income	68	54	68	63	64	58	64	79
Gross income	873	887	1,101	1,683	1,916	2,074	2,286	2,476
Income deductions	325	353	279	439	503	555	630	693
Net income	548	534	822	1,244	1,413	1,519	1,656	1,783

[1] Less reserves.

Source: Federal Power Commission; annual report, *Statistics of Electric Utilities in the United States*.

No. 725. Rural Electrification Administration—Electric Program, Summary of Operations: 1935 to 1961

[Includes data from date of first loan to borrowers in Virgin Islands (1940), Alaska (1941), and Puerto Rico (1952)]

YEAR	LOANS APPROVED, CUMULATIVE, DEC. 31 [1]		SYSTEMS IN OPERATION, DEC. 31 [3]			BORROWERS' OPERATIONS DURING YEAR [7]			
	Borrowers [2]	Amount	Systems [4]	Miles energized [5]	Consumers served [6]	Energy generated	Energy purchased	Energy distributed	Revenue
	Number	*Mil. dol.*	*Number*	*1,000 miles*	*1,000*	*Mil. kw.-hr.*	*Mil. kw.-hr.*	*Mil. kw.-hr.*	*Mil. dol.*
1935		7	2	0	0				
1940	791	351	685	268	674	(8)	(8)	(8)	(8)
1945	961	667	848	450	1,409	258	2,345	2,136	74
1950	1,076	2,312	1,007	1,089	3,413	1,077	8,165	7,779	241
1955	1,077	3,125	1,026	1,362	4,251	3,255	18,457	19,200	455
1956	1,077	3,343	1,026	1,383	4,362	3,612	20,976	21,907	498
1957	1,079	3,634	1,030	1,405	4,466	3,291	23,335	23,745	531
1958	1,081	3,847	1,030	1,424	4,596	3,482	26,064	26,466	571
1959	1,085	4,011	1,032	1,446	4,722	4,464	29,366	30,403	627
1960	1,087	4,256	1,038	1,465	4,826	4,922	32,124	33,336	673
1961 (prel.)	1,091	4,509	1,038	1,483	4,950	5,231	34,383	35,558	711

[1] Net; i. e., excludes loans rescinded. For years prior to 1948, includes amounts not yet under loan contract.
[2] Organizations, mainly cooperatives, to which loans for extending central station electric service in rural areas are made.
[3] Includes data at time of repayment of loan for borrowers whose loans have been repaid in full. As of Dec. 31, 1961, there were 57 such borrowers, with 15,202 miles energized and 72,255 consumers served.
[4] Rural electric distribution, generation, and transmission systems operated by REA borrowers.
[5] Pole miles of electric distribution and transmission line in service.
[6] Through 1954, this item was headed "Consumers connected." The change was a result of a revised definition of a consumer as reported by REA borrowers, effective Jan. 1, 1955. It resulted in a downward adjustment in the national total of about 60,000 for 1955, chiefly through elimination of idle services.
[7] Includes energy sales and revenues of power sold by one REA borrower to another. [8] Not available.

Source: Department of Agriculture, Rural Electrification Administration; published in *Agricultural Statistics*.

No. 726. Investor-Owned Gas Utility and Pipeline Industry—Composite Balance Sheet and Income Account: 1940 to 1960

[In millions of dollars. Beginning 1960, includes Hawaii. Represents companies owned by private investors. Excludes operations of companies distributing gas in bottles or in tanks]

ITEM	1940	1945	1950	1955	1957	1958	1959	1960
COMPOSITE BALANCE SHEET								
Assets and other debits	**4,980**	**5,610**	**9,010**	**15,435**	**19,150**	**20,730**	**22,845**	**24,570**
Utility plant and adjustments	4,330	4,770	7,620	13,305	16,155	17,465	19,200	20,835
Investment and fund accounts	200	185	360	525	1,030	1,180	1,300	1,380
Current and accrued assets	360	590	970	1,465	1,790	1,905	2,150	2,185
Deferred debits [1]	90	65	60	140	175	180	195	170
Liabilities and other credits	**4,980**	**5,610**	**9,010**	**15,435**	**19,150**	**20,730**	**22,845**	**24,570**
Capital stock	1,740	1,705	2,405	3,905	4,580	5,005	5,490	5,785
Long-term debt	1,575	1,495	3,145	5,900	7,465	8,005	8,740	9,130
Current and accrued liabilities	245	350	735	1,390	1,885	1,960	2,195	2,420
Reserve for depreciation, retirement, depletion, etc.	870	1,400	1,740	2,775	3,280	3,690	4,065	4,570
Capital surplus	(2)	120	135	200	240	180	160	145
Retained income	(2)	375	720	1,040	1,320	1,480	1,660	1,880
Other liabilities and credits	550	165	130	225	380	410	535	640
COMPOSITE INCOME ACCOUNT								
Operating revenues	1,054	1,363	2,553	5,063	6,194	6,856	7,690	8,696
Operating revenue deductions	839	1,152	2,182	4,398	5,380	5,966	6,696	7,587
Net operating revenues	215	211	371	665	814	890	994	1,109
Income from utility plant leased to others	−1	(3)	1	2	2	2	3	3
Utility operating income	214	211	372	667	816	892	997	1,112
Other income (nonoperating)	9	15	33	48	79	84	78	110
Gross income	223	226	405	715	895	976	1,075	1,222
Income deductions	78	74	88	206	268	308	343	392
Net income	145	152	317	509	627	668	732	830

[1] Includes capital stock discount and expense and reacquired securities. Subsequent to 1957, reacquired securities are deducted from the appropriate capital account.
[2] Not available.
[3] Less than $500,000.

Source: American Gas Association, New York, N. Y.; yearbook, *Gas Facts*.

No. 727. Gas Utility Industry—Customers and Revenues, by Class of Service: 1935 to 1961

[Beginning 1960, includes Hawaii. Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately owned gas utilities and municipally owned gas departments in the United States, except those with annual revenues less than $25,000, which in the aggregate account for only a negligible portion of the industry]

YEAR	CUSTOMERS (1,000) [1]					REVENUES ($1,000,000) [2]				
	Total	Residential	Commercial	Industrial	Other	Total	Residential	Commercial	Industrial	Other
1935	15,819	14,725	1,014	72	8	727	503	91	130	2
1940	17,600	16,381	1,138	73	8	872	573	112	182	5
1945	19,977	18,607	1,278	80	12	1,153	705	149	281	18
1950	24,001	22,146	1,739	100	16	1,948	1,177	266	480	26
1954	27,528	25,398	1,990	112	28	3,049	1,783	378	821	68
1955	28,479	26,283	2,048	121	27	3,450	2,007	424	938	81
1957	30,476	28,101	2,211	132	32	4,134	2,379	506	1,150	99
1958	31,242	28,787	2,287	134	35	4,568	2,658	571	1,229	111
1959	32,066	29,530	2,364	136	36	5,065	2,870	633	1,431	131
1960	33,054	30,418	2,458	140	38	5,617	3,177	723	1,563	153
1961 (prel.)	33,877	31,163	2,529	146	39	6,031	3,414	796	1,654	167

[1] Yearly averages.
[2] Excludes revenues from sales for resale.

Source: American Gas Association, New York, N.Y.; yearbook, *Gas Facts*.

No. 728. Gas Utility Industry—Customers and Revenues, by Type of Gas, Class of Service, and States: 1960

[See headnote, table 727]

Type of gas and state	Customers (1,000) [1]					Revenues ($1,000,000) [2]				
	Total	Residential	Commercial	Industrial	Other	Total	Residential	Commercial	Industrial	Other
United States [3]	**33,053.8**	**30,417.5**	**2,458.3**	**140.6**	**37.4**	**5,617**	**3,177**	**723**	**1,563**	**153**
Natural gas	30,554.0	28,086.9	2,300.9	129.9	36.3	5,307	2,939	685	1,531	152
Manufactured gas	176.2	163.8	11.7	0.5	0.2	21	15	3	3	(4)
Mixed gas	2,198.2	2,053.7	133.4	10.2	0.9	277	214	32	30	1
L.P. gas	125.4	113.1	12.3	(5)	(5)	13	9	3	(4)	(4)
New England	**1,622.6**	**1,523.6**	**88.4**	**9.7**	**0.9**	**213**	**157**	**28**	**26**	**2**
Connecticut	376.7	351.9	22.5	2.2	0.1	52	36	7	9	(4)
Maine	33.4	31.7	1.6	0.1	-------	4	3	1	(4)	-------
Massachusetts	1,002.3	942.2	54.0	5.4	0.7	132	100	18	13	1
New Hampshire	37.4	34.8	2.3	0.2	0.1	5	4	1	(4)	(4)
Rhode Island	155.9	146.9	7.2	1.8	(5)	19	13	2	3	(4)
Vermont	16.9	16.1	0.8	(5)	(5)	1	1	(4)	(4)	(4)
Middle Atlantic	**7,607.6**	**7,051.8**	**516.4**	**29.3**	**10.1**	**1,069**	**726**	**145**	**187**	**11**
New Jersey	1,504.9	1,371.7	127.2	6.0	(5)	192	140	29	23	(4)
New York	3,953.5	3,665.0	266.6	14.9	7.0	463	330	72	53	7
Pennsylvania	2,149.2	2,015.1	122.6	8.4	3.1	413	255	44	111	3
East North Central	**7,318.9**	**6,799.5**	**482.4**	**27.7**	**9.3**	**1,394**	**871**	**177**	**333**	**13**
Illinois	2,279.4	2,147.5	117.8	12.4	1.7	394	261	37	94	1
Indiana	780.0	718.2	57.8	2.3	1.7	136	73	16	45	1
Michigan	1,502.1	1,382.0	114.4	5.7	(5)	290	191	41	56	2
Ohio	2,208.4	2,039.0	158.7	4.8	5.9	484	285	72	120	7
Wisconsin	549.0	512.8	33.7	2.5	(5)	91	60	12	17	2
West North Central	**2,655.5**	**2,420.3**	**218.4**	**15.8**	**1.0**	**541**	**304**	**79**	**140**	**17**
Iowa	440.4	395.9	43.2	1.2	0.1	96	55	18	21	3
Kansas	532.8	483.2	46.6	2.8	0.2	101	43	12	38	7
Minnesota	476.1	443.2	29.7	3.1	0.1	114	72	13	28	1
Missouri	816.8	756.3	57.1	3.3	0.1	145	89	20	34	2
Nebraska	288.4	251.9	31.0	5.1	0.4	66	34	11	17	4
North Dakota	39.4	35.2	4.1	0.1	(5)	6	4	2	(4)	(4)
South Dakota	61.6	54.6	6.7	0.2	0.1	14	7	3	3	(4)
South Atlantic	**2,507.3**	**2,297.0**	**196.3**	**8.8**	**5.2**	**476**	**260**	**62**	**146**	**8**
Delaware	64.2	60.8	3.3	0.1	(5)	10	7	1	2	(4)
District of Columbia	177.8	157.7	18.1	0.9	1.1	27	19	6	(4)	1
Florida	244.1	225.0	18.4	0.2	0.5	48	12	7	28	1
Georgia	534.9	490.9	40.6	3.2	0.2	105	53	13	38	1
Maryland	558.7	521.8	34.7	1.5	0.7	87	65	9	13	(4)
North Carolina	121.6	106.1	14.3	1.2	(5)	31	12	5	14	1
South Carolina	87.0	76.7	9.7	0.4	0.2	23	8	3	13	(4)
Virginia	361.8	332.9	27.2	0.8	0.9	68	43	9	13	2
West Virginia	357.2	325.1	30.0	0.5	1.6	78	42	9	25	2
East South Central	**1,470.9**	**1,329.4**	**133.0**	**4.9**	**3.6**	**313**	**142**	**42**	**118**	**12**
Alabama	453.3	419.9	31.5	0.9	1.0	94	43	10	40	1
Kentucky	432.9	393.1	37.8	0.7	1.3	80	47	11	19	3
Mississippi	271.2	239.7	29.4	1.6	0.5	60	21	7	30	3
Tennessee	313.5	276.7	34.3	1.7	0.8	79	31	14	29	6
West South Central	**3,840.3**	**3,467.5**	**338.0**	**29.3**	**5.5**	**642**	**235**	**59**	**321**	**27**
Arkansas	299.1	259.5	37.6	1.9	0.1	58	21	8	28	1
Louisiana	701.2	644.9	52.4	2.9	1.0	142	36	7	95	3
Oklahoma	602.8	541.4	56.5	3.6	1.3	88	43	11	25	9
Texas	2,237.2	2,021.7	191.5	20.9	3.1	354	135	32	172	14
Mountain	**1,267.8**	**1,131.5**	**130.1**	**4.4**	**1.8**	**247**	**112**	**39**	**89**	**8**
Arizona	300.3	271.4	27.2	1.5	0.2	52	20	6	26	(4)
Colorado	388.4	342.4	45.4	0.5	0.1	69	34	15	18	2
Idaho	27.0	21.7	5.2	0.1	(5)	12	3	2	6	(4)
Montana	118.6	105.1	13.0	0.5	(5)	22	11	5	5	1
Nevada	24.6	23.3	1.3	(5)	(5)	9	3	1	5	(4)
New Mexico	176.6	158.5	15.7	1.3	1.1	39	16	4	15	4
Utah	166.5	151.7	14.5	0.3	(5)	32	19	3	10	(4)
Wyoming	65.8	57.4	7.8	0.2	0.4	12	6	2	3	1
Pacific [3]	**4,762.9**	**4,396.9**	**355.3**	**10.7**	(5)	**724**	**370**	**93**	**204**	**57**
California	4,566.6	4,176.9	320.7	9.0	(5)	653	344	80	174	57
Oregon	105.6	92.2	12.5	0.9	(5)	25	11	4	9	(4)
Washington	110.9	96.5	19.8	0.6	(5)	40	12	8	20	(4)
Hawaii	39.8	37.3	2.3	0.2	(5)	5	3	1	1	-------

[1] Averages for the year. [2] Excludes revenues from sales for resale. [3] Excludes Alaska.
[4] Less than $500,000. [5] Less than 50 customers.

Source: American Gas Association, New York, N.Y.; yearbook, *Gas Facts*.

No. 729. Utility Gas Mains—Mileage, by Type of Gas and by Type of Main: 1945 to 1961

[As of December 31. Beginning 1960, includes Hawaii. Excludes service pipe. Data not adjusted to common diameter equivalent]

TYPE OF GAS AND MAIN	1945	1950	1954	1955	1957	1958	1959	1960	1961 (prel.)
All types, total	310,670	387,470	470,490	496,740	548,820	571,500	599,830	632,130	658,300
Field and gathering	*27,000*	*32,850*	*43,790*	*45,680*	*50,020*	*52,010*	*54,130*	*56,800*	*59,500*
Transmission	82,190	113,050	138,980	145,970	160,110	165,360	174,280	183,830	191,900
Distribution	201,480	241,570	287,720	305,090	338,690	354,130	371,420	391,500	406,900
Natural gas	218,000	314,480	420,860	448,770	514,960	540,790	573,950	609,160	637,120
Field and gathering	27,000	32,850	43,790	45,680	50,020	52,010	54,130	56,800	59,500
Transmission	77,280	109,360	135,370	142,490	157,540	162,990	172,160	181,940	190,120
Distribution	113,720	172,270	241,700	260,600	307,400	325,790	347,660	370,420	387,500
Manufactured gas	72,000	55,420	14,240	11,960	6,350	4,460	1,810	1,570	1,550
Transmission	3,410	2,230	650	420	180	50	30	20	20
Distribution	68,590	53,190	13,590	11,540	6,170	4,410	1,780	1,550	1,530
Mixed gas	18,660	11,990	30,740	31,440	24,090	23,080	21,580	19,450	17,720
Transmission	1,480	1,370	2,890	2,990	2,320	2,250	2,070	1,860	1,750
Distribution	17,180	10,620	27,850	28,450	21,770	20,830	19,510	17,590	15,970
Liquefied petroleum gas	2,010	5,580	4,650	4,570	3,420	3,170	2,490	1,950	1,910
Transmission	20	90	70	70	70	70	20	10	10
Distribution	1,990	5,490	4,580	4,500	3,350	3,100	2,470	1,940	1,900

Source: American Gas Association, New York, N. Y.; yearbook, *Gas Facts*.

No. 730. Atomic Energy Program—Appropriations, Investments, Costs, and Employment: 1950 to 1961

[Money figures are in millions of dollars. For years ending June 30]

ITEM	1950	1955	1957	1958	1959	1960	1961
Appropriations received	703	1,210	1,899	2,334	2,635	2,650	2,667
Operations	--------	1,099	1,740	2,225	2,385	2,387	2,456
Plant and equipment	--------	111	158	109	250	263	211
Plant investment, year end	2,104	6,487	6,908	7,111	7,293	7,345	7,665
Completed plant	1,809	5,858	6,597	6,840	7,043	7,018	7,202
Production plants	1,251	4,646	5,303	5,495	5,553	5,458	5,454
Research facilities	184	707	793	938	1,125	1,271	1,434
Communities	262	299	267	229	179	86	78
Other	112	206	144	178	187	203	236
Construction in progress	295	629	311	271	250	327	463
Cost of operations [1]	415	1,290	1,918	2,299	2,497	2,619	2,616
Procurement of raw materials	39	194	398	596	700	717	637
Production of nuclear materials	130	588	763	750	713	731	733
Weapons development and fabrication	112	259	337	444	492	505	516
Development of nuclear reactors	31	115	256	306	356	399	437
Civilian	1	28	58	79	105	100	102
Military	9	53	169	185	202	187	201
Other	21	34	29	43	48	112	134
Physical research	29	48	70	88	112	133	154
Controlled thermonuclear	--------	5	11	19	28	32	30
High energy physics	5	9	18	19	28	32	48
Other	24	35	41	50	57	68	76
Research in life sciences	18	29	33	36	43	49	54
Community operations (net)	20	10	9	11	10	7	4
Administrative expenses	23	34	38	46	50	51	57
Other expenses and income (net)	13	13	15	21	21	27	24
Employment	63,739	112,555	119,368	120,973	121,858	122,718	122,989
Federal Government	4,941	6,013	6,823	7,021	6,785	6,907	6,846
Contractor operating	39,095	82,936	98,176	103,290	105,195	104,612	103,313
Contractor construction and design	19,703	23,606	14,369	10,662	9,878	11,199	12,830

[1] Includes depreciation.

Source: Atomic Energy Commission; *Annual Financial Report, 1961*.

No. 731. Atomic Energy Program—Summary: 1950 to 1961

[As of December 31 or calendar years, except as noted]

ITEM	1950	1955	1957	1958	1959	1960	1961
Operating contractors [1]	34	64	72	84	94	91	97
Construction and design contractors [1]	28	18	20	38	34	39	29
Offsite research contracts with educational, medical, and other nonprofit institutions: [2]							
Number of institutions	100	187	203	225	216	222	229
Number of contracts	251	731	817	882	942	996	1,072
Nuclear reactors in U.S.:							
Civilian reactors:							
Electric power prototypes			1	1	2	3	3
Experimental electric power		2	8	7	7	7	8
Propulsion prototypes and experiments					1	4	5
General irradiation test		1	2	3	4	2	2
Research	9	11	18	26	31	35	40
Teaching			14	21	29	30	37
Military reactors:							
Electric power			1	2	3	5	6
Naval propulsion		1	3	6	11	15	37
Other propulsion prototypes and experiments		2	4	6	7	8	8
Test and research		4	5	6	6	7	11
Production reactors:							
Material production	5	13	13	13	13	13	13
Production process development and test	1	5	5	5	5	5	6
Licenses in effect:							
Power reactors:							
Construction permits			4	4	3	7	7
Licenses to operate			1	1	2	3	4
Research reactors:							
Construction permits		4	10	10	16	17	15
Licenses to operate		2	19	31	39	45	54
Test reactors:							
Construction permits			1	3	1	1	
Licenses to operate					2	2	3
Critical experiment facilities:							
Construction permits		2	4	2	1	1	1
Licenses to operate			6	10	13	14	14
Production facilities:							
Construction permits							1
Operators' licenses		3	148	354	465	563	689
Licenses to possess special nuclear materials		7	134	236	294	362	459
Licenses to possess source materials	647	1,763	1,218	1,412	1,345	1,153	569
Licenses to export reactors issued			15	8	12	3	4
Source material export licenses issued	(3)	715	800	676	721	696	228
Organizations with byproduct (radioisotope) licenses [4]	614	3,016	3,392	4,357	5,505	5,940	6,595
Medical institutions and physicians	206	1,173	1,598	1,900	2,286	2,568	2,807
Industrial concerns	206	1,266	1,221	1,398	1,623	1,817	1,997
Colleges and universities	123	227	229	251	283	297	343
Federal and State laboratories	49	258	269	690	1,179	1,153	1,329
Foundations and institutions	29	57	41	49	52	55	59
Other	1	35	34	69	82	50	60
Radioisotopes: [5]							
Sales [2] ... $1,000	222	1,295	2,660	2,426	2,498	2,209	1,803
Shipments by ORNL	7,995	12,749	14,126	14,131	12,950	12,724	12,747
Curies shipped by ORNL	1,111	55,772	166,630	228,714	299,365	205,674	445,648
Exports to foreign countries ... $1,000	(3)	1,288	1,367	1,534	1,283	1,084	1,741
Imports from foreign countries ... do	6	189	823	908	1,145	1,394	1,500
Access permits in effect		602	1,404	1,402	1,268	1,006	823
Agreements in effect for foreign cooperation		22	39	42	44	41	38
Power agreements		3	10	13	13	14	14
Research agreements		19	29	29	31	27	24
Sales of heavy water ... tons			78	95	59	86	99
Uranium statistics (U. S.):							
Concentrate receipts [2] ... tons of U_3O_8	3,060	5,940	16,159	26,376	33,326	34,582	32,260
From domestic sources [2] ... do	320	2,140	7,584	10,244	15,162	16,567	17,758
From foreign sources [2] ... do	2,740	3,800	8,575	16,132	18,164	18,015	14,502
Estimated uranium ore reserves ... 1,000 tons	2,000	27,000	78,000	82,500	86,000	82,000	74,000
Uranium ore milling capacity ... tons per day	800	5,500	11,000	21,000	21,410	22,100	22,500

[1] Represents those whose employees plus first-tier subcontractor employees total 50 or more; operating contractors comprise those engaged in production, research and development, maintenance, and service; excludes supply contractors.
[2] As of June 30.
[3] Not available.
[4] Beginning 1957, data include only parent organizations, which are issued single basic licenses. Subordinate organizations at various locations included for prior years.
[5] The Oak Ridge National Laboratory is the AEC's principal distributor of radioisotopes. Sales are made also by other AEC laboratories and by commercial suppliers. Sales figures include AEC sales made to commercial suppliers but not by them. Shipments to foreign countries are comprised of shipments made by AEC laboratories and by commercial suppliers.

Source: Atomic Energy Commission; *Semiannual Report*, *Annual Report*, and records. Department of Commerce, Bureau of the Census, foreign trade releases.

No. 732. Shipments of Atomic Energy Equipment and Products: 1959 and 1960

[In thousands of dollars. Includes Alaska and Hawaii. Excludes construction expenditures, engineering and design costs, research and development expenditures, and products used in atomic energy work which are not uniquely designed for nuclear applications]

Item	1959			1960		
	Total	U.S. Government agencies	Other, including export	Total	U.S. Government agencies	Other, including export
Total	242,009			285,647		
Nuclear reactors	7,497	(1)	(1)	12,389	(1)	(1)
Reactor components and equipment:						
Primary vessels and tanks	19,989	(1)	(1)	11,873	10,064	1,809
Control rod drive mechanisms and components	5,404	4,766	638	16,227	12,861	3,366
Accessory instrumentation for reactor control	15,933	11,311	4,622	17,668	11,388	6,280
Heat exchangers and condensers	27,233	22,903	4,330	19,019	11,932	7,087
Pressurizers, components, and auxiliary equipment	3,620	(1)	(1)	2,034	(1)	(1)
Pumps	19,455	(1)	(1)	21,390	(1)	(1)
Valves	13,984	12,207	1,777	8,319	6,977	1,342
Fuel handling equipment	1,747	(1)	(1)	1,950	1,011	939
Complete reactor fuel elements and control rods shipped directly for installation or use in a reactor	54,845	(1)	(1)	81,165	73,909	7,256
Partially fabricated reactor fuel element materials and control rods not shipped directly for installation or use in a reactor	11,773	(1)	(1)	14,335	11,116	3,219
Core structurals (barrels, cans, boxes, plates, etc., not included above)	5,255	3,528	1,727	4,034	3,483	551
Reactor moderators, coolants, and reflectors	(2)	(2)	(2)	3,278	1,669	1,609
Other specialized reactor components and equipment	4,684	2,068	2,616	5,837	3,604	2,233
Hot laboratory equipment	3,689	2,783	906	4,150	2,764	1,386
Shielding	1,797	1,313	484	5,713	3,066	2,647
Radiation detection and monitoring devices:						
Radiation survey monitoring and control devices	10,527	5,829	4,698	30,904	13,260	17,644
Radiation counting equipment	15,486	2,825	12,661			
Radioactive isotopes shipped from plants producing isotopes	459	58	401	982	55	927
Radiation sources and other radioactive materials produced from purchased isotopes	3,749	633	3,116	4,152	652	3,500
Control and measuring devices containing radioactive isotopes	8,897	193	8,704	8,946	1,425	7,521
Commercial irradiation service; Conversion of enriched uranium metal and compounds (excluding production or conversion of normal and depleted uranium)	5,986	2,638	3,348	11,282	5,923	5,359

[1] Withheld to avoid disclosing figures for individual companies.
[2] Included with "Other specialized reactor components and equipment."

Source: Department of Commerce, Bureau of the Census; *Current Industrial Reports*, Series M38Q(60)-1.

No. 733. Employment in the Atomic Energy Field, by Occupation and Segment: 1960

[As of January. Includes Alaska and Hawaii. Based on a survey of 158 establishments covering about two-thirds of all workers estimated to be employed in the atomic energy field. Coverage was generally limited to establishments under prime contract to AEC with accumulated obligations in excess of $1 million as of September 30, 1959. Excludes uranium mining, nuclear instrument manufacturing, and some employees engaged in the manufacture of nuclear reactors and in other fields]

Segment	Total	Scientists	Engineers	Technicians	Other technical personnel	Managerial personnel	Clerical personnel	Skilled workers	Other
All activities	125,921	9,488	15,112	14,612	3,744	12,417	18,537	23,881	28,130
AEC research facilities	42,172	5,565	6,396	7,203	1,836	3,857	7,355	4,872	5,088
Defense production facilities	35,590	1,006	2,608	2,399	945	3,850	4,640	8,473	11,669
Reactor manufacture	11,760	717	2,480	1,582	242	1,094	1,985	1,301	2,359
Production of feed materials and enriched uranium	11,717	505	699	815	34	1,490	1,532	4,236	2,406
Construction of nuclear facilities	6,575	18	1,558	435	513	404	899	1,898	850
Private research laboratories	5,295	1,392	722	1,283	115	372	612	293	506
Production of special materials	3,584	60	97	246	5	429	406	790	1,551
Uranium milling	3,432	90	112	197	34	315	271	921	1,492
Fuel element fabrication	2,903	108	251	319	4	246	386	336	1,253
Power reactor operation	366	15	102	43	1	30	40	5	130
Miscellaneous	2,527	12	87	90	15	330	411	756	826

Source: Department of Labor, Bureau of Labor Statistics; *Employment in the Atomic Energy Field: A 1960 Occupational Survey*, Bulletin No. 1297, April 1961 (House Document No. 191, 87th Congress, 1st Session).

No. 734. Funds for Total Research and Development and for Basic Research, by Source and by Performance Sector: 1953–54 to 1960–61

[In millions of dollars. Includes Alaska and Hawaii, except industry data prior to 1957–58. Hyphenated time periods indicate that data are for a variety of financial years beginning in the earlier year and ending in the later year. Data refer in general to the natural sciences; however, some funds for psychology and the social sciences could not be eliminated]

Item and year	Total	Sources of funds				Performance of research and development by—			
		Federal Government [1]	Industry	Colleges and universities [2]	Other nonprofit institutions [2]	Federal Government	Industry [3]	Colleges and universities [3]	Other nonprofit institutions [3]
Research and development [4]									
1953–54	5,150	2,740	2,240	130	40	970	3,630	450	100
1954–55	5,620	3,070	2,365	140	45	950	4,070	480	120
1955–56	6,390	3,670	2,510	155	55	1,090	4,640	530	130
1956–57	8,610	5,095	3,265	180	70	1,280	6,540	650	140
1957–58	10,030	6,380	3,390	190	70	1,440	7,660	780	150
1958–59	11,070	7,170	3,620	190	90	1,730	8,300	840	200
1959–60 (prel.)	12,620	8,290	4,030	200	100	1,830	9,550	1,000	240
1960–61 (prel.)	14,040	9,220	4,490	210	120	2,060	10,500	1,200	280
Basic research									
1953–54	432	195	147	62	28	47	151	208	26
1954–55	485	(5)	(5)	70	35	55	166	230	34
1955–56	547	(5)	(5)	75	38	65	189	250	43
1956–57	694	(5)	(5)	90	46	90	253	300	51
1957–58	834	422	249	111	52	111	271	392	60
1958–59	1,016	567	273	118	58	221	305	420	70
1959–60 (prel.)	1,150	646	293	140	71	220	345	500	85
1960–61 (prel.)	1,302	745	313	161	83	245	382	575	100

[1] Data on sources of funds are based on reports by the performers.
[2] Includes State and local funds received by these institutions and used for research and development.
[3] Includes expenditures at Federal contract research centers administered by organizations in this sector.
[4] Includes basic research, applied research, and development.
[5] Not available on a comparable basis.

Source: National Science Foundation.

No. 735. Funds for Total Research and Development and for Basic Research, by Performance Sector, Distributed by Source: 1957–58 to 1960–61

[In millions of dollars. See headnote, table 734]

Performance sector and source of funds [1]	Research and development [2]				Basic research			
	1957–58	1958–59	1959–60 (prel.)	1960–61 (prel.)	1957–58	1958–59	1959–60 (prel.)	1960–61 (prel.)
Total funds used	10,030	11,070	12,620	14,040	834	1,016	1,150	1,302
Federal Government	1,440	1,730	1,830	2,060	111	221	220	245
Federal funds	1,440	1,730	1,830	2,060	111	221	220	245
Industry [3]	7,660	8,300	9,550	10,500	271	305	345	382
Federal funds	4,330	4,760	5,610	6,130	41	55	79	100
Industry funds	3,330	3,540	3,940	4,370	230	250	266	282
Colleges and universities [3]	780	840	1,000	1,200	392	420	500	575
Federal funds	530	570	720	890	240	256	305	350
Industry funds	30	40	40	50	14	17	20	23
College and university funds [4]	190	190	200	210	111	118	140	161
Other nonprofit institutions funds [4]	30	40	40	50	27	29	35	41
Other nonprofit institutions [3]	150	200	240	280	60	70	85	100
Federal funds	80	110	130	140	30	35	42	50
Industry funds	30	40	50	70	5	6	7	8
Other nonprofit institutions funds [4]	40	50	60	70	25	29	36	42

[1] Data on sources of funds are based on reports by the performers.
[2] Includes basic research, applied research, and development.
[3] Includes expenditures at Federal contract research centers administered by organizations in this sector.
[4] Includes State and local funds received by these institutions and used for research and development.

Source: National Science Foundation.

No. 736. Funds for Performance of Total Research and Development and of Basic Research, by Industry: 1957 to 1960

[In millions of dollars. Includes Alaska and Hawaii. Includes Federal funds for research and development and for basic research in industry. Performance of Federal contract research centers administered by industrial firms classified in industry of administering company. Excludes performance by certain industry-oriented organizations, such as trade associations, that account annually for less than 1 percent of the total]

Industry	Research and development [1]: Total funds for performance				Research and development [1]: Federal funds for industrial performance				Basic research, total funds for performance			
	1957	1958 [2]	1959 [2] (prel.)	1960 (prel.)	1957	1958 [2]	1959 [2] (prel.)	1960 (prel.)	1957	1958	1959 (prel.)	1960 (prel.)
Total	7,664	8,295	9,553	10,497	4,336	[3] 4,759	5,610	6,125	[3] 271	[3] 305	345	382
Food and kindred products	67	75	89	106	(4)	(5)	5	9	4	5	5	5
Paper and allied products	45	51	59	66	(4)	----------	1	1	1	(5)	1	1
Industrial chemicals	494	563	676	737	130	187	280	297	(5)	(5)	75	81
Drugs and medicines	104	128	147	168	(4)	2	3	5	18	21	24	27
Other chemicals	104	115	126	143	1	1	1	2	6	6	7	8
Petroleum refining and extraction [6]	224	253	272	289	16	18	24	25	35	44	49	52
Rubber products	107	88	111	115	37	21	37	35	4	(5)	3	3
Stone, clay, and glass products	59	64	72	82	1	2	2	4	4	4	4	6
Primary metals	111	126	138	164	6	15	15	18	6	7	7	8
Fabricated metal products	107	128	124	126	42	64	58	54	1	1	1	1
Machinery	687	805	946	993	252	331	404	384	17	20	24	28
Electrical equipment and communication [7]	1,775	1,935	2,240	2,405	1,196	1,336	1,575	1,634	53	63	63	74
Motor vehicles and other transportation equipment	702	852	866	849	212	319	249	216	5	(5)	9	9
Aircraft and parts	2,540	2,551	3,028	3,482	2,210	2,181	2,610	3,027	25	26	42	39
Scientific and mechanical measuring instruments	139	156	195	228	80	93	123	145	3	2	3	3
Optical, surgical, photographic, and other instruments	110	139	158	188	29	44	52	66	6	8	6	6
Other industries	291	265	303	358	123	140	172	205	26	21	22	30

[1] Includes basic research, applied research, and development.
[2] Revised estimates differ from those previously published.
[3] Includes data for industries which are not available separately.
[4] Less than $500,000.
[5] Not available.
[6] Excludes geological and geophysical exploration activities of petroleum companies.
[7] These 2 industries have been combined because of the similarity of their research and development activities.

Source: National Science Foundation; data from a survey conducted by Bureau of the Census.

No. 737. Federal Government Obligations for Scientific Research, by Field of Science, 1958 to 1962, and by Agency, 1961

[In millions of dollars. For years ending June 30. Includes Alaska and Hawaii. Excludes obligations for development and for research and development plant]

Year and agency	Total research	Life sciences			Psychological sciences	Physical sciences			Social sciences	Other sciences
		Biological	Medical	Agricultural		Physical science proper	Mathematics	Engineering		
1958	1,034	70	214	59	(1)	(1)	(1)	(1)	(1)	(1)
1959	1,390	88	268	64	24	288	16	461	31	150
1960	1,927	106	342	68	38	421	24	861	35	33
1961 [2]	2,295	133	454	88	42	536	27	942	39	34
1962 [2]	2,912	151	535	83	50	603	31	1,348	70	41
By agency, 1961 [2]										
Departments:										
Agriculture	165	27	3	85	-------	26	-------	7	18	-------
Defense [3]	872	19	32	-------	16	267	15	490	1	33
Army [4]	180	12	10	-------	5	35	3	97	(5)	8
Navy	187	4	5	-------	7	46	8	108	-------	9
Air Force	317	2	7	-------	4	43	5	243	(5)	14
Advanced Research Projects Agency	185	-------	-------	-------	-------	143	-------	42	-------	-------
Health, Education, and Welfare	432	15	378	(5)	20	6	(5)	3	9	-------
Interior	67	19	(5)	(5)	(5)	24	1	22	1	-------
Atomic Energy Commission [6]	229	26	19	1	-------	143	4	36	-------	-------
National Aero. and Space Administration	392	2	2	-------	1	21	2	364	1	-------
National Science Foundation	77	24	2	-------	3	32	5	8	3	-------
All other agencies	61	1	18	4	2	17	(5)	12	6	1

[1] Not available. [2] Estimated. [3] Excludes pay and allowances of military personnel in research; includes Departmentwide funds not shown separately. [4] Includes civil functions.
[5] Less than $500,000. [6] Data represent "accrued costs" rather than obligations.

Source: National Science Foundation; annual report, *Federal Funds for Science.*

No. 738. Federal Government Obligations and Expenditures for Research and Development, by Agency: 1955 to 1962

[In millions of dollars. For years ending June 30. Includes Alaska and Hawaii. Includes obligations and expenditures for research and development plant. Obligations differ from expenditures in any given year because not all obligated funds are expended during year appropriated]

Agency	1955	1956	1957	1958	1959	1960	1961 (est.)	1962 (est.)
Total obligations	2,746.9	3,268.8	4,381.3	4,908.3	7,120.7	8,078.0	9,844.5	10,518.2
Departments:								
Agriculture	73.3	83.6	102.8	113.0	138.6	129.1	173.1	163.7
Commerce	15.9	18.4	19.3	18.7	30.1	33.4	54.0	119.0
Defense [1]	2,084.2	2,430.6	3,250.0	3,480.3	5,236.7	5,825.3	6,730.6	6,331.7
Army	443.5	420.0	544.5	615.3	1,186.8	1,182.8	1,229.9	1,284.8
Navy	573.3	713.3	856.7	887.9	1,381.1	1,557.4	1,613.5	1,393.3
Air Force	1,045.7	1,252.8	1,811.9	1,903.6	2,461.4	2,833.5	3,448.5	3,278.6
ARPA	-------	-------	-------	15.5	171.8	212.4	269.4	186.0
Health, Education, and Welfare	70.8	89.0	177.9	217.9	278.7	358.6	475.2	559.6
Interior	34.6	38.5	47.5	54.7	67.9	71.0	83.9	100.8
Atomic Energy Commission [2]	372.9	505.1	644.6	828.6	925.4	988.2	1,102.6	1,209.6
National Aero. and Space Adm. [3]	64.5	65.7	83.4	97.4	299.7	486.9	1,000.0	1,700.0
National Science Foundation	10.4	17.4	37.1	40.7	69.0	81.3	95.8	169.1
All other agencies	20.3	20.5	18.7	57.0	74.6	104.2	129.3	164.7
Total expenditures	3,308.3	3,446.0	4,461.9	4,989.9	5,802.9	7,738.0	8,789.2	10,172.2
Departments:								
Agriculture	72.0	87.7	97.0	111.8	124.7	131.4	145.3	157.5
Commerce	9.9	20.4	19.8	17.8	30.1	33.1	41.9	76.0
Defense [1]	2,630.2	2,639.0	3,371.4	3,664.2	4,183.3	5,653.8	6,112.4	6,578.4
Army	1,012.8	702.4	782.1	873.5	890.9	1,108.9	1,221.4	1,246.1
Navy	591.9	635.8	784.9	854.1	1,034.7	1,300.6	1,580.5	1,547.2
Air Force	982.2	1,278.9	1,780.0	1,894.0	2,134.5	2,078.0	2,992.3	3,333.0
ARPA	-------	-------	-------	3.0	80.9	226.3	243.1	270.0
Health, Education, and Welfare	76.2	86.2	143.5	180.3	252.8	324.2	400.5	493.3
Interior	31.9	35.7	42.3	48.9	72.2	65.3	77.1	85.5
Atomic Energy Commission [2]	385.4	474.0	656.5	804.2	877.1	985.9	1,084.9	1,129.3
National Aero. and Space Adm. [3]	73.8	71.1	76.1	89.2	145.5	401.0	740.0	1,380.0
National Science Foundation	8.5	15.4	30.6	33.0	50.6	58.0	84.8	128.2
All other agencies	26.4	16.5	24.7	40.5	66.6	85.2	102.2	144.1

[1] Includes military pay and allowances and procurement funds; also includes Departmentwide funds not shown separately.
[2] Data represent "accrued costs" rather than obligations and expenditures, respectively
[3] Prior to 1958, National Advisory Committee for Aeronautics.

Source: National Science Foundation.

No. 739. Scientists and Engineers in Private Industry, by Industry and Occupation: January 1960

[Includes Alaska, excludes Hawaii. Scientists and engineers were defined as all persons engaged in scientific and engineering work at a level which requires a knowledge of physical, natural, or mathematical sciences equivalent at least to that acquired through completion of a 4-year professional college course. Administrators of research and development and other activities are included with each occupation. Research and development was defined to include basic and applied research in the sciences (including medicine) and in engineering, and design and development of prototypes and processes]

INDUSTRY	Total	Engineers	Chemists	Metallurgists	Geologists and geophysicists	Physicists	Mathematicians	Life scientists	Other scientists
ALL SCIENTISTS AND ENGINEERS									
All industries	812,700	648,900	77,000	12,700	15,300	15,600	14,100	19,800	9,200
Food and kindred products	9,900	4,500	3,800	(1)	(1)	100	100	1,300	[2] 200
Textile mill prod. and apparel	5,800	[2] 3,800	1,900	(1)	(1)	[2] 100	(1)	(1)	(1)
Paper and allied products	10,500	7,100	2,300	(1)	(1)	100	(1)	700	200
Chemicals and allied products	90,700	38,200	34,100	700	400	1,300	700	12,300	3,000
Petroleum prod. and extraction	48,600	28,700	6,300	100	11,800	600	600	200	400
Stone, clay and glass products	10,200	7,900	1,500	[2] 100	400	200	100	(1)	(1)
Primary metal industries	35,100	25,200	3,800	5,300	300	200	200	200	(1)
Fab. metal prod. and ordnance	38,100	34,900	1,700	300	(1)	300	800	100	100
Machinery (exc. electrical)	71,400	64,800	1,600	1,900	(1)	900	1,100	[2] 100	1,200
Electrical equipment	101,400	91,200	3,300	800	200	4,100	1,800	(1)	(1)
Aircraft and parts	101,500	84,400	2,800	1,400	100	5,500	3,800	100	3,400
Professional and scientific instruments	26,300	22,000	2,400	200	(1)	900	200	400	200
Other manufacturing ind.[3]	58,100	50,600	5,300	700	(1)	500	100	400	(1)
Construction	45,100	43,200	500	[2] 200	100	(1)	[2] 800	[2] 300	[2] 200
Transp. and other public utilities	36,700	34,900	700	(1)	500	100	200	200	(1)
Engineering and architectural services	56,900	54,200	900	200	800	200	300	[2] 100	100
Other nonmanufacturing ind.	66,500	53,500	4,100	900	800	800	3,100	[2] 3,100	[2] 200
RESEARCH AND DEVELOPMENT SCIENTISTS AND ENGINEERS									
All industries	302,500	224,300	42,800	6,200	800	13,800	7,700	6,600	400
Food and kindred products	3,600	1,200	1,700	(1)	(1)	100	(1)	600	(1)
Textile mill prod. and apparel	1,700	800	900	(1)	(1)	(1)	(1)	(1)	(1)
Paper and allied products	3,300	1,800	1,300	(1)	(1)	100	(1)	100	(1)
Chemicals and allied products	36,600	10,400	19,500	500	(1)	1,000	300	4,800	100
Petroleum prod. and extraction	9,300	4,900	3,200	(1)	400	400	200	[2] 100	(1)
Stone, clay, and glass products	3,500	2,300	900	(1)	(1)	200	100	(1)	(1)
Primary metal industries	6,000	3,000	1,300	1,500	(1)	100	(1)	(1)	(1)
Fab. metal prod. and ordnance	15,400	13,700	800	200	(1)	300	500	(1)	(1)
Machinery (exc. electrical)	28,200	24,600	1,200	1,200	(1)	700	500	(1)	(1)
Electrical equipment	62,600	54,200	2,600	700	(1)	3,800	1,400	(1)	(1)
Aircraft and parts	64,600	52,900	2,000	1,100	100	5,200	3,100	100	100
Professional and scientific instruments	14,100	11,300	1,500	100	(1)	800	100	[2] 200	100
Other manufacturing ind.	26,100	21,200	3,600	400	(1)	300	400	100	(1)
Construction	2,000	[2] 1,600	300	[2] 100	(1)	(1)	(1)	(1)	(1)
Transp. and other public utilities	1,600	1,400	100	(1)	(1)	(1)	(1)	(1)	(1)
Engineering and architectural services	8,300	7,400	400	[2] 100	(1)	200	100	100	(1)
Other nonmanufacturing ind.	15,400	11,500	1,600	300	200	700	800	300	(1)

[1] Less than 50. [2] Subject to a standard error of 50 percent or more. [3] Motor vehicle and equipment industry.

Source: National Science Foundation; *Scientific and Technical Personnel in Industry, 1960*, NSF 61-75.

No. 740. Science Personnel and Expenditures for Research and Development Performance in Colleges and Universities, by Field of Science: 1954, 1958, and 1960

[**Scientists and engineers in terms of full-time equivalents; expenditures in millions of dollars.** Includes Alaska and Hawaii. Excludes social sciences]

FIELD OF SCIENCE	SCIENTISTS AND ENGINEERS [1]						EXPENDITURES FOR RESEARCH AND DEVELOPMENT PERFORMANCE		
	Employed in all scientific activity			Employed in research and development					
	1954	1958	1960 [2]	1954	1958	1960 [2]	1954	1958	1960 [2]
Total	72,000	103,800	120,000	25,200	42,000	52,000	450	780	1,000
Engineering	15,000	21,400	27,000	5,600	7,500	9,500	130	190	225
Physical sciences	23,000	33,100	37,000	7,600	13,000	15,000	150	290	375
Life sciences	34,000	49,300	56,000	12,000	21,500	27,500	170	300	400

[1] For explanation of full-time equivalent, see National Science Foundation, *Reviews of Data on Research and Development*, No. 29, NSF 61-49. [2] Preliminary.

Source: National Science Foundation.

No. 741. Professional Scientific and Technical Personnel Employed in the Federal Government, by Professional Series, and by Agency: October 1960

Agency	Total	Physical sciences	Engineering	Biological sciences	Agriculture	Health [1]	Other
Total	**155,935**	**17,981**	**60,978**	**11,093**	**10,543**	**41,696**	**13,644**
Department of Defense	57,401	7,920	39,320	871	82	4,085	5,123
Office of the Secretary of Defense	177	48	68	2	----------	----------	59
Department of the Army	24,668	3,118	17,286	663	48	1,848	1,705
Department of the Navy	20,107	3,467	14,291	130	12	767	1,440
Department of the Air Force	12,449	1,287	7,675	76	22	1,470	1,919
Department of Health, Education, and Welfare	10,708	1,383	559	698	13	7,440	615
Department of the Interior	10,563	2,241	4,761	2,221	493	10	837
Department of Agriculture	23,418	1,301	2,592	6,765	9,396	1,918	1,446
Department of Commerce	6,198	3,059	2,075	1	1	13	1,049
Department of Labor	828	----------	28	----------	----------	1	799
Department of State	2,311	25	328	114	520	171	1,153
Federal Aviation Agency	2,333	7	2,234	11	----------	35	46
Atomic Energy Commission	1,323	483	758	20	----------	30	32
National Aeronautics and Space Administration	5,102	649	4,081	5	----------	11	356
Tennessee Valley Authority	2,199	98	1,547	53	14	430	57
Veterans Administration	29,471	460	415	267	----------	26,997	1,342
Other	4,080	355	2,280	77	24	555	789

[1] Selected categories.

Source: National Science Foundation; data derived from Civil Service tabulations.

No. 742. Engineers and Scientists in State Government Agencies, by States: January 1959

State	Total	Engineers	Scientists	State	Total	Engineers	Scientists
United States	**40,730**	**28,172**	**12,558**	Montana	418	285	133
				Nebraska	260	181	79
Alabama	545	408	137	Nevada	255	170	85
Alaska	71	29	42	New Hampshire	398	330	68
Arizona	190	96	94	New Jersey	861	660	201
Arkansas	271	161	110				
California	5,310	3,598	1,712	New Mexico	277	135	142
				New York	2,985	2,179	806
Colorado	535	411	124	North Carolina	923	673	250
Connecticut	604	404	200	North Dakota	215	156	59
Delaware	105	67	38	Ohio	1,425	891	534
Florida	998	614	384				
Georgia	1,214	886	328	Oklahoma	284	162	122
				Oregon	1,173	729	444
Hawaii	319	135	184	Pennsylvania	1,274	875	399
Idaho	392	186	206	Rhode Island	170	93	77
Illinois	1,831	1,390	441	South Carolina	483	334	149
Indiana	676	481	195				
Iowa	427	332	95	South Dakota	225	147	78
				Tennessee	1,077	661	416
Kansas	482	372	110	Texas	1,608	1,279	329
Kentucky	397	251	146	Utah	311	189	122
Louisiana	605	448	157	Vermont	337	262	75
Maine	395	249	146				
Maryland	789	576	213	Virginia	1,034	608	426
				Washington	1,371	1,050	321
Massachusetts	1,856	1,395	461	West Virginia	635	421	214
Michigan	1,415	901	514	Wisconsin	848	539	309
Minnesota	856	546	310	Wyoming	255	179	76
Mississippi	301	170	131				
Missouri	1,044	878	166				

Source: National Science Foundation; *Employment of Scientific and Technical Personnel in State Government Agencies, 1959*, NSF 61-17.

No. 743. Science Doctorate Degrees Conferred, by Major Field of Science: 1959 to 1961

FIELD OF SCIENCE	1959	1960	1961 (prel.)	FIELD OF SCIENCE	1959	1960	1961 (prel.)
Total	5,316	5,674	6,089	Behavioral sciences	870	836	924
				Psychology	811	761	865
Life sciences	1,621	1,774	1,799	Anthropology	59	75	59
Physiology and related	235	233	267				
Microbiology	167	179	180	Physical sciences	2,825	3,064	3,366
Genetics	81	79	75	Earth sciences	235	251	257
Zoology	147	178	168	Mathematics	301	309	360
Botany and phytopathology	163	196	188	Physics (incl. astronomy)	522	574	602
Agriculture and related	300	346	353	Chemistry	1,062	1,106	1,138
Biochemistry	204	272	284	Engineering	705	824	1,009
Medical sciences	95	82	98				
Miscellaneous life sciences	229	209	186				

Source: 1959, National Science Foundation, *The Science Doctorates of 1958 and 1959*, NSF 60-60; 1960 and 1961, National Research Council.

No. 744. Patent Applications, Patents, and Certificates of Trademarks: 1941 to 1961

[For years ending December 31. Data comprise patents issued to citizens of United States and residents of foreign countries. On July 1, 1940, jurisdiction of prints and labels was transferred to the Copyright Office, Library of Congress, and data concerning them are compiled by that organization. For information on copyrights, see table 711, p. 526. See also *Historical Statistics, Colonial Times to 1957*, series W 66-75 and W 77-78]

ITEM	1941-45	1946-50	1951-55	1956-60	1957	1958	1959	1960	1961
Patent applications filed	294,273	400,342	379,053	410,389	79,242	82,804	83,833	84,475	88,340
Inventions	265,417	360,095	351,649	384,782	74,197	77,495	78,594	79,590	83,289
Designs	27,536	39,127	25,951	23,865	4,714	4,923	4,879	4,525	4,714
Botanical plants	262	398	467	584	101	134	114	131	107
Reissues	1,058	722	986	1,158	230	252	246	229	230
Patents issued [1]	184,492	163,034	208,964	251,872	45,385	50,994	55,454	49,986	51,152
Inventions [2]	164,360	144,076	192,651	237,469	42,744	48,330	52,408	47,170	48,368
Individuals	61,127	58,957	78,459	(3)	15,154	(3)	(3)	(3)	(3)
Corporations:									
United States	95,107	78,376	100,278	(3)	23,255	(3)	(3)	(3)	(3)
Foreign	5,147	4,669	10,537	(3)	3,372	(3)	(3)	(3)	(3)
U.S. Government [4]	346	1,761	3,359	(3)	963	(3)	(3)	(3)	(3)
Designs	18,880	18,016	15,084	13,024	2,362	2,374	2,768	2,543	2,487
Botanical plants	229	334	441	567	129	120	101	116	108
Reissues	1,023	608	788	812	150	170	177	157	189
Certificates of trademarks issued [1]	52,191	85,611	100,942	108,246	20,968	18,421	21,981	22,367	19,953
Trademarks	34,435	61,339	83,311	90,727	17,480	15,351	18,709	18,434	16,595
Trademark renewals	17,756	24,272	17,631	17,519	3,488	3,070	3,272	3,933	3,358

[1] Excludes all registration numbers left blank due to withdrawal of patent or trademark before issue.
[2] Since 1942, includes patents issued to the Alien Property Custodian.
[3] Not available. [4] Excludes patents issued to the Alien Property Custodian.

Source: Department of Commerce, *Patent Office; records.* Fiscal-year figures are published in the *Annual Report of the Commissioner of Patents.*

No. 745. Manned Spacecraft: 1961 Through March 1962

[Includes all U.S. and known U.S.S.R. launchings]

ITEM	Unit of measure	SUBORBITAL		ITEM	Unit of measure	ORBITAL		
		Mercury-Redstone III	Mercury-Redstone IV			Vostok [1] (Spacecraft VI)	Vostok II [1]	Mercury-Atlas VI
Astronaut		Shepard	Grissom	Astronaut		Gagarin	Titov	Glenn
Launching date		5-5-61	7-21-61	Launching date		4-12-61	8-6-61	2-20-62
Vehicle lift-off weight	lbs	66,000	66,000	Vehicle lift-off weight	lb	(2)	(2)	260,000
Vehicle dimensions [3]	ft	59H-6D	59H-6D	Vehicle dimensions [3]	ft	(2)	(2)	93H-16D
				Payload dimensions [3]	in	[4] 20H	20H-12-14D	9.5H-6D
Altitude	miles	115	118					
Downrange mileage	do	302	305	Payload weight	lb	10,418	10,430	[5] 2,900
Maximum-velocity	mph	5,280	5,310	Perigee	miles	108.76	110.3	97.6
Lifetime	min	15	16	Apogee	do	187.66	115.3	159.5
				Orbital period	min	89.1	88.6	88.2
				Orbits	number	1	17.5	3
				Lifetime	hrs:min	1:48	24:18	4:56

[1] Unofficial data from U.S. and Soviet press and radio. [2] Not disclosed. [3] H=height; D=diameter.
[4] Believed to be a 20-foot long cylinder. [5] Weight in orbit. Lift-off, 4,100 pounds; recovery, 2,400 pounds.
Source: National Aeronautics and Space Administration; *Space Activities Summary*, various dates.

No. 746. Space Vehicles Orbited—Summary: 1957 to 1962

[As of March 13, 1962. Data relate only to vehicles achieving orbit. First such vehicle was launched October 4, 1957]

Item	Launched to date			In orbit, 1962		
	Total	U.S.	U.S.S.R.	Total	U.S.	U.S.S.R.
Earth orbit	79	66	[1] 13	34	33	1
Manned	3	1	2			
Solar orbit	5	3	2	5	3	2
Transmitting				10	10	

[1] Lunik III passed once around moon, then into earth orbit.

Source: National Aeronautics and Space Administration; *International Satellite and Space Probe Summary*, Release No. 62-31.

No. 747. Space Vehicles in Earth and Solar Orbit: 1962

[Vehicles in orbit and their perigee, apogee, and orbital periods are as of March 27, 1962]

Orbit, country of launching, and vehicle	Launching date	Approximate weight (pounds)	Perigee (miles)	Apogee (miles)	Orbital period (minutes)	Estimated lifetime
IN EARTH ORBIT						
U.S. Launchings						
Explorer I	Feb. 1, 1958	31	219.3	1,075.6	105.9	3–5 yrs.
Vanguard I	Mar. 17, 1958	3	399.5	2,451.3	133.8	200 yrs.
Vanguard II	Feb. 17, 1959	22	352.9	2,040.6	125.4	10 yrs. or more
Vanguard III	Sept. 18, 1959	100	302.6	2,332.6	129.8	30–40 yrs.
Explorer VII	Oct. 13, 1959	92	347.3	664.9	101.1	20–30 yrs.
Tiros I	Apr. 1, 1960	270	432.5	463.5	99.1	50–100 yrs.
Transit IB	Apr. 13, 1960	265	223.1	402.6	94.6	16 mos.
Midas II	May 24, 1960	5,000	293.9	314.4	94.2	40 mos.
Transit IIA [1]	June 22, 1960	223	386.5	651.8	101.6	50 yrs.
Greb [1]	June 22, 1960	42	386.5	650.6	101.6	50 yrs.
Echo I	Aug. 12, 1960	240	783.5	1,098.0	116.2	Indefinite
Courier IB	Oct. 4, 1960	500	597.8	755.6	106.8	Several yrs.
Explorer VIII	Nov. 3, 1960	90	256.6	1,411.8	112.4	10 yrs. or more
Tiros II	Nov. 23, 1960	280	384.6	454.2	98.2	50–100 yrs.
Samos II	Jan. 31, 1961	4,100	293.3	340.5	94.9	(2)
Explorer IX	Feb. 16, 1961	80	474.7	1,508.1	118.0	Several wks. to a yr.
Discoverer XX	Feb. 17, 1961	2,450	169.0	300.7	92.2	6 mos.
Discoverer XXI	Feb. 18, 1961	(2)	135.5	256.0	90.0	(2)
Explorer X	Mar. 25, 1961	79	(2)	(2)	(2)	Several wks.
Discoverer XXIII	Apr. 8, 1961	2,100	151.0	197.6	90.2	124 days
Explorer XI	Apr. 27, 1961	82	302.6	1,109.1	107.9	1–3 yrs.
Transit IVA [3]	June 29, 1961	175	549.3	617.6	103.8	1 yr.
Injun and SR-3 [3]	June 29, 1961	95	548.7	618.9	103.8	Indefinite
Tiros III	July 12, 1961	285	457.9	508.9	100.3	3–4 mos.
Midas III	July 12, 1961	3,500	2,082.8	2,198.4	161.5	Indefinite
Explorer XII	Aug. 16, 1961	83	494.6	47,668.4	1,589.7	1 yr.
Midas IV	Oct. 21, 1961	3,500	2,194.7	2,311.5	166.0	(2)
Discoverer XXXIV	Nov. 5, 1961	2,100	141.7	526.9	95.5	5 mos.
Transit IV-B [1]	Nov. 15, 1961	200	591.5	689.7	105.6	5 yrs.
Trace [1]	Nov. 15, 1961	200	594.0	688.5	105.6	5 yrs.
Tiros IV	Feb. 8, 1962	285	444.3	520.7	100.3	4 mos.
Orbiting Solar Observatory I	Mar. 7, 1962	440	347.3	362.3	95.9	6 mos.
U.S.S.R. Launchings						
Sputnik IV	May 15, 1960	10,008	160.9	240.5	91.0	(4)
Sputnik XI	Mar. 16, 1962	(2)	131.7	541.8	95.4	(2)

Orbit, country of launching, and vehicle	Launching date	Approximate weight (pounds)	Perihelion (million miles)	Aphelion (million miles)	Orbital period (days)	Estimated lifetime
IN SOLAR ORBIT						
U.S. Launchings						
Pioneer IV	Mar. 3, 1959	13	91.7	106.1	398	Permanent
Pioneer V	Mar. 11, 1960	95	74.9	92.4	311.6	100,000 yrs.
Ranger III	Jan. 26, 1962	727	91.4	10.8	406.4	Permanent
U.S.S.R. Launchings						
Lunik I	Jan. 2, 1959	3,245	90.7	122.2	450	Indefinite
Venus Probe	Feb. 12, 1961	1,419	66.7	94.7	300	Indefinite

[1] Two satellites launched at once. [2] Not available.
[3] Three satellites launched at once. Payloads Injun and SR-3 failed to separate.
[4] Estimated as "relatively brief" at time of launching but still in orbit Mar. 27, 1962.

Source: National Aeronautics and Space Administration; *Space Activities Summary*, various dates, and *Satellite Situation Report*, Mar. 27, 1962.

Section 20

Roads and Motor Vehicles

This section presents statistics relating to the mileage, control, and financing of public roads and to motor-vehicle travel and usage. The Bureau of Public Roads of the Department of Commerce is the principal compiler of data concerning public roads and motor-vehicle registrations. Since 1945, it has published such data in its annual *Highway Statistics*. The same Bureau's *Highway Statistics, Summary to 1955*, presents public roads data carried back over periods ranging from 20 to 50 years. The motor-vehicle registration figures which appear in *Highway Statistics* are compiled from reports and records of State highway departments.

The first road mileage survey was made in 1904. Data for 1904 and other road mileage surveys made in 1909, 1914, and 1921 appear in Department of Agriculture Bulletin 1279, *Rural Highway Mileage, Income, and Expenditures, 1921–22*.

Useful annual handbooks in this field are *Automobile Facts and Figures* and *Motor Truck Facts*, both issued by the Automobile Manufacturers Association of Detroit, Mich.; and *Accident Facts*, issued by the National Safety Council of Chicago, Ill. In addition, statistics on the motor-vehicle and equipment industry are compiled by the Bureau of the Census and published in its *Census of Manufactures* reports and *Annual Survey of Manufactures*. Data from these reports are also included in section 29, Manufactures, in this volume.

Rural and urban roads.—The terms "rural," "urban," and "municipal" are used in different ways in different tables in this section. Because of special problems and purposes, it is not possible to apply identical definitions and groupings to all types of data. Definitions are given in table headnotes where pertinent.

Highway systems.—The Federal-Aid Highway Act of 1916 provides for the sharing of highway construction costs between the States and the Federal Government with the initiative retained by each State for choosing projects and carrying them out. The planning and development of Federal-aid systems began in 1921. Federal funds share with State funds in costs of engineering, construction, and right-of-way acquisition on the designated systems while other charges, such as maintenance and policing, are borne entirely by the States and local agencies.

The Federal-aid primary system connects all of the principal cities, county seats, ports, manufacturing areas, and other traffic generating areas. In general, these are at the same time the main State trunkline roads. Certain sections of the primary system are more important than others from the viewpoint of national interest. Consequently, in 1944, the Congress authorized the creation of the National System of Interstate and Defense Highways, not to exceed 40,000 miles in length. In 1956, Congress extended the system to 41,000 miles and authorized for the first time a long-range program to complete the system. Federal funds of $37 billion, providing 90 percent of the total estimated cost, are authorized for the fiscal years 1957 to 1971.

The Federal-Aid Highway Act of 1944 authorized the first specific funds for Federal-aid highways in urban areas, and established the Federal-aid secondary system, consisting of important feeder roads linking the farms, factories, distribution outlets, and smaller communities with the primary system.

Alaska and Hawaii.—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface.

Historical statistics.—Tabular headnotes (as "See also *Historical Statistics, Colonial Times to 1957*, series Q 247–250") provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

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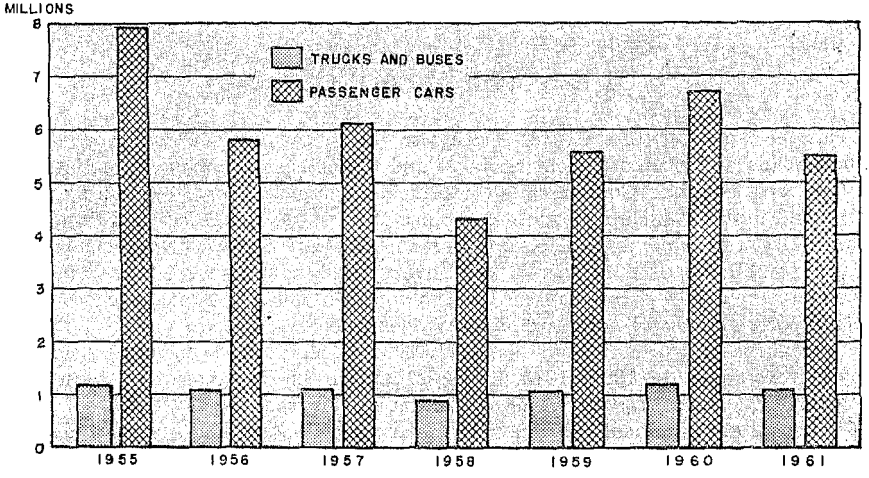
FIG. XXX. MOTOR-VEHICLE FACTORY SALES: 1955 TO 1961

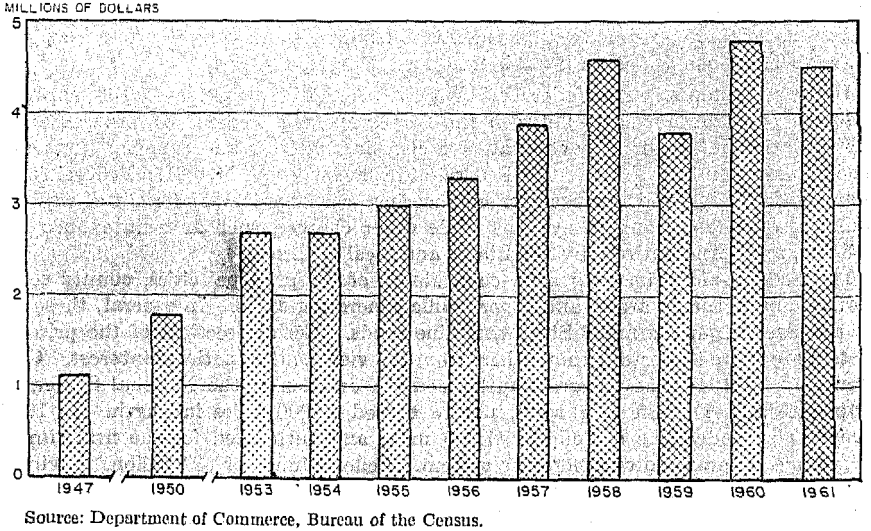
[See table 765]



Source: Chart prepared by Department of Commerce, Bureau of the Census. Data are from Automobile Manufacturers Association.

FIG. XXXI. HIGHWAY CONSTRUCTION CONTRACTS AWARDED: 1947 TO 1961

[See table 750]



Source: Department of Commerce, Bureau of the Census.

No. 748. Existing Rural and Municipal Mileage, by Governmental Control: 1930 to 1960

[**In thousands.** As of December 31. Beginning 1959, includes Alaska and Hawaii. Municipal roads are those within incorporated places, New England communities of 2,500 inhabitants or more, and certain of the more populous unincorporated areas. All other roads are classed as rural. See also *Historical Statistics, Colonial Times to 1957*, series Q 246 and, for similar but not exactly comparable data, series Q 247 and Q 251]

GOVERNMENTAL CONTROL	1930	1940	1945	1950	1955	1957	1958	1959	1960
Total mileage	------	------	3,319	3,313	3,418	3,454	3,479	3,511	3,546
Rural mileage	3,009	2,990	3,012	2,990	3,045	3,064	3,074	3,094	3,116
Under State control	324	524	544	581	619	636	643	654	659
Under local control	2,685	2,466	2,398	2,336	2,333	2,329	2,330	2,333	2,345
Under Federal control			70	73	93	99	101	107	112
Municipal mileage	(1)	------	307	323	373	389	405	416	430
Under State control	(1)	27	33	36	42	45	47	48	50
Under local control	(1)	(1)	274	287	331	344	358	368	380

[1] Not available.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 749. Existing Mileage of Rural Roads: 1930 to 1960

[**In thousands.** As of December 31. Beginning 1959, includes Alaska and Hawaii. For definition of rural roads, see headnote, table 748. See also *Historical Statistics, Colonial Times to 1957*, series Q 247–250, for similar but not exactly comparable data]

TYPE AND CONTROL	1930	1940	1945	1950	1955	1957	1958	1959	1960
All rural roads	3,009	2,990	3,012	2,990	3,045	3,064	3,074	3,094	3,116
Primary State highways	324	329	339	363	387	391	395	403	403
Secondary State highways		81	84	88	91	97	98	101	105
County roads under State control	------	114	118	122	131	135	136	136	136
County and local roads [1]	2,685	2,466	2,471	2,417	2,436	2,441	2,445	2,455	2,472
Surfaced rural roads	694	1,340	1,495	1,679	1,942	2,021	2,083	2,125	2,165
Primary State highways	227	302	316	351	381	386	391	398	399
Secondary State highways		65	71	73	84	90	92	96	100
County roads under State control	------	55	63	83	103	107	109	110	111
County and local roads [1]	467	918	1,045	1,172	1,374	1,438	1,491	1,521	1,555
Nonsurfaced rural roads [2]	2,315	1,650	1,517	1,311	1,103	1,043	991	969	951
Primary State highways	97	27	23	12	6	5	4	4	4
Secondary State highways		16	13	15	7	7	6	5	5
County roads under State control	------	59	55	39	28	28	27	26	25
County and local roads [1] [2]	2,218	1,548	1,426	1,245	1,062	1,003	954	934	917

[1] Includes mileage in national and State parks, forests, reservations, etc., not included as part of State or local systems.

[2] Includes mileage not classified by type of surface.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 750. Highway Construction—Contracts Awarded, by Ownership, Source of Funds, and Type of Facility: 1947 to 1961

[**In millions of dollars.** Beginning 1959, includes Alaska and Hawaii. Includes force-account work started on Federal and State projects]

OWNERSHIP, SOURCE OF FUNDS, AND TYPE OF FACILITY	1947	1950	1955	1956	1957	1958	1959	1960	1961
All construction	1,108	1,816	2,992	3,303	3,917	4,585	3,805	4,756	4,483
Federally owned	25	36	59	92	92	96	86	129	92
State owned	892	1,492	2,560	2,718	3,311	3,996	3,213	3,901	3,803
Federally aided projects:									
Total value	635	798	1,256	1,737	2,390	3,489	2,638	3,097	3,168
Federal funds	329	415	667	963	1,614	2,504	1,877	2,218	2,289
Independent State projects:									
Total value	257	694	1,304	981	921	507	575	804	634
Toll facilities	(1)	228	695	337	343	44	59	165	92
Locally owned [2]	191	289	374	493	514	494	506	725	588

[1] Not available.

[2] By municipalities, counties, and local level special districts.

Source: Department of Commerce, Bureau of the Census. Published in Department of Commerce, Business and Defense Services Administration, *Construction Review*.

No. 751. Existing Road Mileage—Municipal Mileage and Rural Mileage, by Type and Governmental Control, by States: 1960

[As of December 31. For definition of municipal and rural roads, see headnote, table 748. Compiled for latest available year from reports of State authorities and planning survey data]

State	Total rural and municipal	Municipal	Rural					
			Total	Type		Governmental control		
				Surfaced	Nonsurfaced	State [1]	Local	Federal [2]
United States	**3,545,693**	**429,568**	**3,116,125**	**2,165,468**	**950,657**	**658,896**	**2,345,317**	**111,912**
Alabama	73,345	9,020	64,325	51,119	13,206	[3] 16,611	[3] 47,714	----------
Alaska	4,647	422	4,225	3,865	360	4,212	----------	13
Arizona	37,125	4,437	32,688	12,294	20,394	4,595	16,091	12,002
Arkansas	78,519	6,307	72,212	41,972	30,240	10,380	59,694	2,138
California	147,370	32,083	115,287	71,261	44,026	14,269	77,514	23,504
Colorado	78,590	5,256	73,334	36,220	37,114	7,850	64,306	1,178
Connecticut	16,718	5,571	11,147	10,958	189	2,738	8,409	----------
Delaware	4,629	625	4,004	3,728	276	[3] 4,004	----------	----------
Dist. of Columbia	1,251	1,251	----------	----------	----------	----------	----------	----------
Florida	69,216	16,834	52,382	30,760	21,622	13,548	38,834	----------
Georgia	96,910	13,379	83,531	45,464	38,067	14,427	69,076	28
Hawaii	3,092	652	2,440	2,244	196	1,058	1,315	67
Idaho	42,172	2,427	39,745	24,103	15,642	4,526	27,435	7,784
Illinois	123,350	20,886	102,464	93,801	8,663	11,163	91,301	----------
Indiana	102,185	14,466	87,719	79,741	7,978	9,949	77,770	----------
Iowa	111,671	11,916	99,755	89,780	9,975	9,080	90,675	----------
Kansas	133,132	8,877	124,255	73,067	51,188	9,849	114,396	10
Kentucky	69,514	4,634	64,880	49,096	15,784	19,600	45,016	264
Louisiana	48,388	8,394	39,994	33,187	6,807	[3] 14,066	[3] 25,928	----------
Maine	20,845	1,965	18,880	16,122	2,758	[3] 10,820	[3] 7,930	130
Maryland	22,310	3,822	18,488	18,262	226	4,536	13,933	19
Massachusetts	26,250	9,776	16,474	14,977	1,497	2,078	14,396	----------
Michigan	110,588	16,923	93,665	73,435	20,230	8,113	85,552	----------
Minnesota	124,212	14,176	110,036	91,547	18,489	11,219	[4] 97,451	1,366
Mississippi	63,788	5,122	58,666	53,270	5,396	9,820	48,692	154
Missouri	112,666	13,644	99,022	88,255	10,767	28,066	70,409	547
Montana	75,065	1,697	73,368	28,386	44,982	10,941	54,707	7,720
Nebraska	102,725	5,815	96,910	56,526	40,384	8,917	87,605	388
Nevada	44,514	996	43,518	13,012	30,506	[3] 6,116	[3] 37,402	----------
New Hampshire	14,040	1,414	12,626	9,775	2,851	3,812	8,709	105
New Jersey	31,124	12,150	18,974	15,186	3,788	2,095	16,879	----------
New Mexico	62,479	2,906	59,573	13,629	45,944	11,349	43,512	4,712
New York	106,450	17,337	89,113	76,596	12,517	13,465	75,638	10
North Carolina	80,678	11,183	69,495	59,136	10,359	[3] 68,141	----------	1,354
North Dakota	100,183	2,706	97,477	53,347	44,130	6,061	90,877	539
Ohio	104,500	20,568	83,932	81,993	1,939	16,042	67,890	----------
Oklahoma	103,357	8,865	94,492	56,949	37,543	11,161	82,885	446
Oregon	72,503	5,529	66,974	40,088	26,886	8,263	33,895	24,816
Pennsylvania	109,261	16,379	92,882	70,539	22,343	43,165	49,409	308
Rhode Island	4,200	2,287	1,913	1,776	137	719	1,194	----------
South Carolina	56,405	5,185	51,220	27,331	23,889	25,192	26,028	----------
South Dakota	92,283	2,696	89,587	45,881	43,706	7,120	81,247	1,220
Tennessee	75,206	7,903	67,303	63,753	3,550	8,038	58,511	754
Texas	230,783	36,607	194,176	118,125	76,051	53,328	140,848	----------
Utah	34,531	3,913	30,618	15,382	15,236	5,005	17,754	7,859
Vermont	13,718	872	12,846	10,566	2,280	2,009	[4] 10,814	23
Virginia	56,581	5,984	50,597	48,515	2,082	[3] 48,854	[3] 662	1,081
Washington	60,460	7,786	52,674	40,128	12,546	6,222	38,599	7,853
West Virginia	36,137	3,014	33,123	20,661	12,462	[3] 30,919	[3] 1,675	529
Wisconsin	97,876	11,808	86,068	77,998	8,070	10,291	75,717	60
Wyoming	58,151	1,103	57,048	11,662	45,386	5,094	49,023	2,931

[1] Includes 15,175 miles of State park, forest, institutional, and other roads, rural and municipal, that are not part of State or local highway systems. Also includes 3,437 miles of toll roads, bridges, tunnels, etc.
[2] Comprises mileage of roads not forming a part of State or local highway systems.
[3] Includes mileage of county roads under State control in Alabama (8 counties), Delaware, Nevada, North Carolina, Virginia (all but 2 counties), and West Virginia; farm-to-market system in Louisiana; and the State-aid system in Maine.
[4] Includes mileage of local roads designated as State aid in Minnesota, 27,054 miles; and Vermont, 2,510 miles.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics, 1960*, and records.

No. 752. Mileage and Cost of Designated Federal-Aid Highway Systems: 1917 to 1960

[Includes Hawaii and Puerto Rico and, beginning 1957, Alaska. See also *Historical Statistics, Colonial Times to 1957*, series Q 261–264]

Year	Miles of highway		Cost ($1,000) [3]		
	Total existent [1]	Completed during year [2]	Total	Federal funds	State funds
1917–1921	----------	12,919	221,740	95,054	126,686
1925	178,797	11,001	220,921	100,030	120,891
1930	193,049	10,339	236,520	99,839	136,681
1935	214,000	12,811	242,420	218,112	24,307
1940	234,112	11,549	269,216	149,724	119,492
1945	232,772	3,035	101,037	76,485	24,552
1950	640,753	19,876	753,199	389,578	363,621
1951	651,826	17,060	771,708	389,564	382,144
1952	673,137	22,147	977,548	505,444	472,104
1953	694,677	21,136	1,077,733	558,913	518,820
1954	717,379	20,548	1,146,419	591,202	555,217
1955	741,824	22,571	1,287,364	665,913	621,451
1956	777,514	23,609	1,444,059	756,926	687,133
1957	809,672	22,424	1,714,240	968,564	745,676
1958	830,569	28,137	2,744,486	1,669,015	1,075,471
1959	854,204	32,633	3,708,857	2,517,502	1,191,355
1960	866,841	20,969	3,264,033	2,272,518	991,515

[1] Through 1945, total existing mileage of Federal-aid primary system; beginning 1950, includes secondary system. Through 1955, data as of June 30; thereafter, as of December 31.
[2] Comprises construction and reconstruction mileage.
[3] Represents actual expenditures of funds on calendar-year basis. Beginning 1935, includes money spent on public works and defense highways. Beginning 1940, includes secondary highways.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*, and *Annual Report, 1961*.

No. 753. Mileage of Designated Federal-Aid Highway Systems, by States and for Puerto Rico: 1960

[**In miles.** As of December 31. See text, p. 549]

State or other area	Primary highway system		Secondary highway system	State or other area	Primary highway system		Secondary highway system
	Total miles	National system of interstate highways			Total miles	National system of interstate highways	
Total	265,477	40,617	601,364	Missouri	9,294	1,105	23,151
				Montana	6,236	1,179	5,232
Alabama	6,366	874	22,187	Nebraska	5,849	489	17,518
Alaska	2,202	----------	3,174	Nevada	2,194	534	2,790
Arizona	2,769	1,161	4,052	New Hampshire	1,234	214	1,674
Arkansas	3,946	518	14,494	New Jersey	2,119	371	2,152
California	9,436	2,182	11,938	New Mexico	4,030	1,003	5,555
Colorado	4,502	948	4,067	New York	10,580	1,227	19,291
Connecticut	1,269	297	1,150	North Carolina	7,042	769	25,664
Delaware	585	40	1,416	North Dakota	4,523	568	13,206
District of Columbia	141	28	93	Ohio	8,770	1,484	18,043
Florida	5,370	1,120	13,120	Oklahoma	8,242	796	12,904
Georgia	8,823	1,109	19,676	Oregon	4,018	732	7,606
Hawaii	568	48	655	Pennsylvania	8,535	1,541	13,417
Idaho	3,216	612	5,317	Rhode Island	502	71	474
Illinois	10,828	1,587	13,921	South Carolina	5,455	679	16,912
Indiana	5,999	1,119	16,637	South Dakota	6,039	678	12,481
Iowa	10,240	709	33,111	Tennessee	5,738	1,048	10,975
Kansas	7,789	801	23,566	Texas	17,345	3,023	31,882
Kentucky	4,550	696	15,236	Utah	2,384	934	3,760
Louisiana	3,314	683	7,725	Vermont	1,594	324	1,837
Maine	1,929	312	2,300	Virginia	5,646	1,053	18,516
Maryland	2,316	354	7,124	Washington	4,015	725	11,026
Massachusetts	2,340	462	2,221	West Virginia	2,779	385	10,729
Michigan	7,606	1,080	24,975	Wisconsin	6,362	452	18,849
Minnesota	8,833	898	30,366	Wyoming	3,622	917	2,377
Mississippi	5,841	678	13,735	Puerto Rico	552	----------	1,087

Source: Department of Commerce, Bureau of Public Roads; *Annual Report, 1961*.

No. 754. Federal-Aid Highway Projects, by States and for Puerto Rico: 1961

[Money figures in millions of dollars. As of June 30. Comprises projects financed from Federal-aid primary, secondary, urban, and interstate funds]

State or other area	Completed during fiscal year			Under construction			Plans approved—not under construction			Federal-aid funds	
	Total cost	Federal funds	Miles	Total cost	Federal funds	Miles	Total cost	Federal funds	Miles	Programed,[1] plans not approved	Programed only
Total	**3,441.2**	**2,418.5**	**22,083**	**7,877.1**	**5,855.9**	**25,605**	**1,391.8**	**1,007.9**	**6,770**	**1,544.3**	**1,185.2**
U.S.	3,434.7	2,415.5	22,075	7,847.4	5,841.6	25,530	1,390.6	1,007.4	6,766	1,536.5	1,177.5
Ala.	76.2	57.5	688	164.7	117.2	822	26.4	20.0	262	27.8	41.2
Alaska	16.7	14.0	132	36.8	32.4	158	10.9	10.1	96	13.6	33.6
Ariz.	40.4	35.2	222	59.7	53.2	213	15.4	12.8	47	19.8	21.5
Ark.	26.8	17.6	389	120.3	90.7	613	21.3	14.9	174	23.7	31.4
Calif.	265.2	149.4	382	753.7	487.2	349	98.7	75.2	106	73.0	31.5
Colo.	40.3	28.1	407	52.6	33.7	304	10.4	7.6	134	29.7	7.8
Conn.	42.3	25.2	39	134.3	105.8	77	4.9	2.9	2	14.6	.1
Del.	11.8	7.5	72	19.8	16.3	1	17.1	14.3	10	21.2	6.9
Dist. of Col.	25.2	19.3	11	75.9	56.1	10	16.5	13.3	2	32.2	5.4
Fla.	104.6	76.9	295	82.5	68.3	220	15.4	11.6	63	51.3	14.8
Ga.	70.8	46.8	409	224.4	165.8	931	28.5	16.3	202	9.4	100.6
Hawaii	8.0	3.9	13	11.8	7.7	5	.5	.3	2	9.9	5.9
Idaho	26.6	21.2	200	41.2	33.6	260	11.7	9.5	135	32.6	14.1
Ill.	172.8	123.4	706	449.1	342.3	930	75.5	56.7	98	14.1	63.2
Ind.	114.5	78.4	533	196.3	144.6	411	17.6	12.6	98	113.4	33.3
Iowa	63.1	46.5	719	83.0	56.4	1,153	18.0	13.3	148	5.6	11.3
Kans.	59.9	40.1	1,217	66.3	46.6	1,242	14.6	9.6	219	31.7	9.1
Ky.	75.5	56.5	214	156.4	118.9	342	32.7	24.6	116	6.1	24.8
La.	44.2	23.1	245	229.1	173.2	536	34.8	28.2	100	14.7	28.3
Maine	31.3	25.3	96	33.2	23.2	95	6.0	4.1	32	10.0	16.8
Md.	25.4	16.6	137	100.6	79.0	174	23.7	15.8	110	75.0	20.7
Mass.	105.3	75.8	68	185.6	139.5	88	69.6	47.6	53	39.4	19.7
Mich.	152.4	117.2	785	358.3	276.4	916	42.0	23.7	445	15.5	3.9
Minn.	64.5	44.7	1,084	228.4	171.2	1,729	21.8	17.5	132	7.6	46.2
Miss.	54.6	37.4	730	106.8	79.1	765	20.7	15.8	206	18.2	28.8
Mo.	71.4	45.3	1,046	205.1	154.2	1,161	25.2	17.3	198	26.5	36.4
Mont.	37.6	27.8	462	86.6	68.7	528	22.7	17.5	194	55.1	15.0
Nebr.	30.3	21.5	274	73.1	52.4	914	55.4	41.8	471	12.4	20.2
Nev.	4.4	3.7	76	59.1	54.8	188	7.5	6.9	75	23.6	11.9
N.H.	31.5	24.9	63	31.6	23.6	49	6.5	5.3	14	5.9	4.6
N.J.	61.2	47.0	57	232.8	175.5	77	45.2	37.2	33	96.8	20.9
N. Mex.	25.6	19.5	202	51.9	41.7	218	6.5	5.7	31	22.0	14.2
N.Y.	214.2	134.5	435	678.5	491.2	486	125.4	86.8	155	30.3	21.9
N.C.	63.1	44.0	614	94.4	63.6	588	19.9	13.9	232	22.9	25.6
N. Dak.	36.2	23.7	1,311	41.2	28.3	907	2.2	1.4	127	19.6	2.0
Ohio	197.4	152.5	202	317.1	234.0	353	82.5	56.7	122	9.6	.4
Okla.	48.1	32.2	639	78.5	54.3	660	23.2	14.9	284	28.4	11.6
Oreg.	50.7	38.2	355	126.7	104.7	319	16.3	12.8	134	6.7	14.6
Pa.	145.7	101.9	201	240.8	172.0	278	74.5	56.9	138	78.1	126.0
R.I.	16.5	10.1	22	38.6	28.6	15	1.1	.6	3	21.3	3.0
S.C.	65.3	50.7	839	89.1	64.1	1,036	10.1	6.7	200	8.2	15.1
S. Dak.	44.0	32.2	768	59.2	49.3	698	6.3	4.0	142	4.9	17.2
Tenn.	66.2	47.6	726	246.9	197.9	719	27.5	18.0	315	43.7	41.8
Tex.	202.8	142.6	1,620	360.2	260.1	1,646	52.2	35.8	307	70.3	29.3
Utah	28.7	24.9	170	50.4	45.1	162	17.7	15.1	86	6.2	18.5
Vt.	32.5	25.7	64	52.6	42.7	87	4.4	3.5	9	27.2	.8
Va.	44.6	30.9	344	282.2	231.9	553	22.7	16.0	104	107.9	22.5
Wash.	46.2	34.3	372	114.0	86.5	381	13.4	6.4	78	36.6	11.0
W. Va.	42.3	32.5	424	96.0	69.6	147	30.0	21.5	92	11.5	46.6
Wis.	76.1	51.4	713	109.4	77.6	595	24.9	15.9	140	30.0	20.2
Wyo.	33.7	28.3	283	60.6	50.8	421	12.6	10.5	90	20.7	5.3
P.R.	6.5	3.0	8	29.7	14.3	75	1.2	.5	4	7.8	7.7

[1] Initial commitment of funds.

Source: Department of Commerce, Bureau of Public Roads; *Annual Report, 1961.*

No. 755. Highway and Street Receipts and Disbursements: 1950 to 1962

[In millions of dollars. Federal and State data are for calendar years; local data for varying fiscal years. Includes Alaska, Hawaii, and Puerto Rico. Data for municipal places and streets include all municipalities and other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1957*, series Q 280-309, for related but not exactly comparable data]

Source and purpose	1950	1955	1958	1959	1960	1961 (prel.)	1962 (est.)
SOURCE OF RECEIPTS							
Total funds available	4,487	7,382	10,337	10,886	10,743	11,258	12,037
Federal Government [1]	72	103	182	157	161	183	192
Motor fuel and vehicle taxes [2] [3]	-------	-------	1,967	2,240	2,826	2,922	3,128
General fund appropriations	492	770	168	156	159	192	209
Investment income and other receipts [4]	8	20	51	32	32	36	36
Intergovernmental payments	−431	−687	−2,273	−3,080	−2,543	−2,960	−3,299
Funds drawn from (+) or placed in (−) reserves	+3	-------	+269	+809	−313	−7	+118
State agencies	2,557	4,670	6,868	7,410	7,125	7,512	8,191
Motor fuel and vehicle taxes [2]	2,270	3,578	4,192	4,428	4,732	4,924	5,195
Tolls	72	209	325	396	430	455	475
Parking fees	-------	-------	-------	1	1	1	1
General fund appropriations	52	65	64	48	56	59	59
Investment income and other receipts [4]	47	96	122	136	162	162	162
Bond issue proceeds [5]	400	646	913	669	680	800	641
Intergovernmental payments	−182	−164	1,223	1,998	1,387	1,778	2,068
Funds drawn from (+) or placed in (−) reserves	−102	+240	+29	−266	−323	−667	−410
Local rural governments	980	1,333	1,602	1,610	1,667	1,718	1,751
Motor fuel and vehicle taxes [2]	2	4	4	9	11	13	15
Tolls	12	15	19	20	21	23	24
Parking fees	-------	-------	-------	-------	-------	1	1
Property taxes and assessments	327	438	521	512	485	501	495
General fund appropriations	81	87	121	153	121	115	100
Investment income and other receipts [4]	30	48	60	48	50	45	45
Bond issue proceeds [5]	90	204	140	153	190	190	202
Intergovernmental payments	468	622	702	736	777	817	852
Funds drawn from (+) or placed in (−) reserves	−30	−85	+35	−21	+12	+13	+17
Municipalities	878	1,276	1,685	1,709	1,790	1,845	1,903
Motor fuel and vehicle taxes [2]	20	56	62	66	68	71	73
Tolls	32	46	53	54	57	58	59
Parking fees	21	23	38	56	70	80	90
Property taxes and assessments	153	240	358	389	412	436	460
General fund appropriations	412	397	374	346	348	360	366
Investment income and other receipts [4]	39	53	79	78	80	84	88
Bond issue proceeds [5]	162	335	299	336	336	335	342
Intergovernmental payments	145	229	348	346	379	365	379
Funds drawn from (+) or placed in (−) reserves	−106	−103	+74	+38	+40	+56	+46
PURPOSE OF DISBURSEMENT							
Total disbursements	4,487	7,382	10,337	10,886	10,743	11,258	12,037
Federal Government	72	103	182	157	161	183	192
Capital outlay	55	88	133	102	107	123	130
Maintenance	6	-------	27	25	26	27	29
Administration and research [6]	11	15	22	30	28	33	33
State agencies	2,557	4,670	6,868	7,410	7,125	7,512	8,191
Capital outlay	1,648	3,300	5,008	5,402	4,983	5,277	5,873
Maintenance	514	693	886	923	1,005	1,052	1,090
Administration and research [6]	113	163	262	287	296	305	314
Highway police and safety	79	134	205	218	236	250	264
Interest	60	189	255	272	305	315	331
Debt retirement [7]	143	191	252	308	300	313	319
Local rural governments	980	1,333	1,602	1,610	1,667	1,718	1,751
Capital outlay	265	449	549	521	544	570	586
Maintenance	557	700	846	874	895	915	926
Administration and research [6]	44	64	81	86	94	97	100
Highway police and safety	(8)	(8)	-------	5	5	5	5
Interest	31	31	32	32	33	33	34
Debt retirement [7]	83	89	94	92	96	98	100
Municipalities	878	1,276	1,685	1,709	1,790	1,845	1,903
Capital outlay	339	508	656	631	672	690	708
Maintenance	348	479	614	659	681	701	719
Administration and research [6]	51	42	74	62	66	68	75
Highway police and safety	(8)	40	81	72	76	80	83
Interest	44	54	63	75	75	78	82
Debt retirement [7]	96	153	197	210	220	228	236

[1] Includes forest highway and other funds administered by the Bureau of Public Roads, as well as funds of other Federal agencies not derived from the Highway Trust Fund.
[2] Excludes amounts allocated for collection expenses and nonhighway purposes.
[3] Receipts of Federal Highway Trust Fund. [4] Includes miscellaneous taxes and fees.
[5] Par value of long-term obligation. Premiums and discounts on sale of bonds included in investment income and other receipts. Excludes short-term notes and refunding issues.
[6] Includes engineering and equipment costs not charged to capital outlay and maintenance, and miscellaneous expenditures.
[7] Par value of long-term obligations. Redemption premiums and discounts included with interest payments. Excludes redemption of short-term notes, or by refunding of notes.
[8] Included with administration and research.

Source: Department of Commerce, Bureau of Public Roads; releases.

No. 756. Public Highway Debt—Long-Term Highway Obligations of State and Local Governments: 1945 to 1962

[In millions of dollars. State data are for calendar year; local data are for varying fiscal years. Beginning 1959, includes Alaska and Hawaii. Excludes duplicated and interunit obligations except as noted. Municipal obligations include data for all municipalities and other political subdivisions urban in character. See also *Historical Statistics, Colonial Times to 1957*, series Q 279, for State obligations outstanding]

ITEM	1945 [1]	1950	1955	1957	1958	1959	1960	1961 (prel.)	1962 (est.)
Total debt issued [2]	49	652	1,174	1,200	1,352	1,158	1,206	1,325	1,185
State obligations	11	400	646	702	913	669	680	800	641
County and local rural obligations	22	90	205	123	140	153	190	190	202
Municipal obligations	20	162	323	375	299	336	336	335	342
Total debt redeemed [3]	258	322	421	535	543	610	616	639	655
State obligations	115	143	191	253	252	308	300	313	319
County and local rural obligations	87	83	89	92	94	92	96	98	100
Municipal obligations	78	96	141	190	197	210	220	228	236
Total debt outstanding	3,640	4,436	9,658	11,422	12,278	12,576	13,166	13,852	14,382
State obligations	1,638	2,096	6,619	7,945	8,641	9,004	9,384	9,871	10,193
County and local rural obligations	869	872	1,027	1,084	1,130	1,186	1,280	1,372	1,474
Municipal obligations	1,218	1,468	2,012	2,393	2,507	2,386	2,502	2,609	2,715

[1] Duplicated and interunit obligations have been excluded from totals only.
[2] Excludes refunding issues.
[3] Excludes redemptions by refunding.

Source: Department of Commerce, Bureau of Public Roads; releases.

No. 757. State-Highway Systems—Existing Mileage, Mileage Built, Funds Available, and Disbursements: 1940 to 1960

[Data refer to calendar years for most States. Beginning 1959, includes Alaska and Hawaii. For definition of rural and municipal roads, see headnote, table 748. See also *Historical Statistics, Colonial Times to 1957*, series Q 255-259, for data on total mileage built by State highway departments]

ITEM	1940	1950	1955	1958	1959	1960
Total mileage at end of year	551,766	608,468	661,519	690,155	702,198	709,054
Primary rural State-highway systems	329,472	363,213	386,611	395,399	402,686	402,805
Nonsurfaced roads	26,991	12,007	6,303	4,552	4,355	4,157
Surfaced roads	302,481	351,206	380,308	390,847	398,331	398,648
Low type [1]	180,091	168,554	169,458	163,163	162,080	159,691
High type [1]	122,390	182,652	210,850	227,684	236,251	238,957
Secondary rural roads	195,245	209,339	222,729	234,180	236,972	240,916
Municipal extensions of State-highway systems [2]	27,049	35,916	41,912	46,869	48,390	50,158
Other State roads [3]	----------	----------	10,267	13,707	14,150	15,175
Total mileage built during year by State-highway departments	32,594	55,487	53,559	54,753	50,232	49,428
Graded and drained	2,207	3,364	1,545	2,071	2,287	2,076
Surfaced	30,387	52,123	52,014	52,682	47,945	47,352
State controlled	29,695	44,265	41,120	36,824	36,282	36,944
Graded and drained	1,423	1,784	694	313	185	328
High-type surface [1]	5,223	13,379	17,672	23,644	21,892	22,013
Low-type surface [1]	23,049	29,102	22,754	15,867	14,205	14,603
State-highway funds available [4 5] ..... mil. dol.	2,038	5,068	9,547	11,216	12,301	12,303
Disbursements of State-highway funds [4] ..... do.	1,678	3,562	6,034	8,479	9,277	8,957

[1] For 1940, low type was distinguished from high type by quality of surfacing material used; for 1950, also by rigidity of base; and beginning 1955, also by combined thickness of surface and base.
[2] Includes connecting streets not under State control. Beginning 1950, excludes streets of this type in Kentucky, Maryland, Mississippi, and District of Columbia. May include the municipal portion of a State route entering a city or town.
[3] Mileage of State park, forest, institutional, toll, and other roads under State control.
[4] Includes funds transferred to or from local units and proceeds of highway-user imposts allotted by the State treasurer for county and other local roads and streets, and nonhighway purposes. See also tables 758 and 759.
[5] Includes accumulated reserves.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 758. Disbursements of State Highway Funds, by States: 1930 to 1960

[In millions of dollars. Comprises disbursements, whether from current revenues or proceeds of loans, for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous disbursements. Includes transactions by State toll authorities. Beginning 1940, covers calendar years; figures for earlier years for many States represent fiscal years]

STATE	1930	1940	1945	1950	1955	1957	1958	1959	1960
United States [1]	1,331	1,678	1,302	3,562	6,034	7,702	8,479	9,277	8,957
Alabama	20	28	26	49	87	119	117	140	174
Alaska	(2)	(2)	(2)	(2)	(2)	(2)	(2)	23	19
Arizona	6	9	6	20	33	51	58	64	72
Arkansas	40	18	15	46	55	67	76	82	95
California	56	99	138	268	558	715	726	761	786
Colorado	11	15	12	38	56	88	99	93	91
Connecticut	16	23	15	38	79	202	188	180	161
Delaware	8	4	3	32	26	41	44	43	36
Dist. of Columbia	2	7	4	11	24	24	31	41	48
Florida	20	39	36	93	152	238	237	287	316
Georgia	17	39	24	74	109	128	151	179	167
Hawaii	(2)	(2)	(2)	(2)	(2)	(2)	(2)	25	23
Idaho	8	8	6	19	27	34	41	49	44
Illinois	53	71	53	113	229	449	563	481	475
Indiana	27	40	35	69	200	136	188	225	241
Iowa	57	33	23	79	109	140	168	179	169
Kansas	17	21	16	50	110	104	129	134	109
Kentucky	20	26	20	67	102	106	143	188	138
Louisiana	30	30	22	71	115	157	183	225	204
Maine	18	14	10	24	65	50	61	65	62
Maryland	20	27	19	84	138	195	168	171	166
Massachusetts	24	38	21	98	203	240	236	277	237
Michigan	48	67	50	106	249	344	344	381	418
Minnesota	39	31	23	65	101	123	158	179	167
Mississippi	11	31	23	42	75	82	99	114	110
Missouri	44	28	21	53	105	132	151	162	165
Montana	8	12	7	22	30	42	52	55	54
Nebraska	16	20	16	36	59	62	81	79	95
Nevada	3	4	2	9	15	26	26	28	22
New Hampshire	10	8	7	14	30	41	44	47	50
New Jersey	49	58	46	188	303	191	212	245	221
New Mexico	10	13	8	26	39	66	71	72	64
New York	109	199	114	304	471	598	641	781	652
North Carolina	26	40	29	136	141	180	173	180	179
North Dakota	6	7	6	22	28	41	54	60	50
Ohio	68	93	76	147	383	444	526	543	523
Oklahoma	27	24	24	73	113	130	158	149	134
Oregon	19	18	14	50	79	92	98	123	113
Pennsylvania	104	128	73	279	350	406	454	477	423
Rhode Island	4	8	6	14	30	31	37	37	42
South Carolina	23	23	22	46	57	74	92	116	109
South Dakota	8	9	6	20	34	42	49	57	57
Tennessee	56	34	32	79	108	131	153	176	187
Texas	65	80	67	178	282	372	450	531	493
Utah	5	6	6	15	23	30	46	56	49
Vermont	9	8	4	10	17	26	33	39	43
Virginia	23	28	29	76	112	222	182	163	211
Washington	16	40	29	78	127	160	190	181	171
West Virginia	24	26	27	51	64	70	84	106	110
Wisconsin	27	41	28	68	109	138	166	181	171
Wyoming	4	6	3	14	22	36	47	47	44

[1] Beginning 1959, includes Alaska and Hawaii.
[2] Not available.

Source: Department of Commerce ,Bureau of Public Roads; annual report, *Highway Statistics*.

No. 759. State Highway Funds Available, by Source and Disbursements, by Purpose, by States: 1960

[**In millions of dollars.** Comprises receipts and disbursements of all State imposts on highway users, all other funds available to State highway departments, and State funds other than those of highway department which were reported as being applied to highway purposes. Includes transactions of interstate and intrastate toll authorities that are operated by State or quasi-State agencies. See also *Historical Statistics, Colonial Times to 1957*, series Q 266-278]

STATE	FUNDS AVAILABLE					DISBURSEMENTS				
	Total	Motor-vehicle fees, motor-fuel and motor-carrier taxes	Federal funds	Income from issue of bonds, notes, etc.	All other sources[1]	Total[2]	For State-administered highways[3]			For county and local roads and streets[3]
							Capital outlay, roads and bridges[4]	Maintenance[4]	Other[5]	
United States	12,303	5,313	2,521	707	3,761	8,957	4,669	986	1,148	1,557
Alabama	203	84	56	25	37	174	86	16	18	51
Alaska	26	5	14	-------	8	19	11	6	2	-------
Arizona	87	40	31	-------	16	72	44	7	6	12
Arkansas	119	55	34	-------	30	95	49	12	17	13
California	1,020	608	152	-------	259	786	391	41	66	154
Colorado	100	57	29	-------	15	91	49	9	11	18
Connecticut	217	67	26	36	89	161	83	19	30	9
Delaware	47	13	7	9	17	36	16	5	13	1
Dist. of Columbia	48	22	19	2	5	48	-------	-------	-------	40
Florida	436	185	75	42	134	316	189	19	37	15
Georgia	247	103	56	-------	88	167	85	11	11	41
Hawaii	46	13	5	-------	28	23	10	3	5	5
Idaho	47	25	17	-------	4	44	24	6	5	9
Illinois	627	251	187	-------	190	475	249	34	40	137
Indiana	307	145	71	-------	91	241	119	23	23	68
Iowa	197	108	44	-------	44	169	78	15	8	65
Kansas	133	63	43	-------	27	109	55	19	15	17
Kentucky	197	85	47	30	36	138	83	28	18	6
Louisiana	282	77	67	30	107	204	122	20	34	25
Maine	84	33	17	-------	33	62	32	15	11	3
Maryland	209	88	28	22	72	166	55	13	43	51
Massachusetts	319	102	53	15	150	237	121	25	64	18
Michigan	614	222	95	84	213	418	220	26	54	113
Minnesota	244	104	64	-------	76	167	92	17	10	42
Mississippi	141	58	37	7	39	110	50	10	12	35
Missouri	192	87	48	(6)	57	165	119	28	13	2
Montana	63	26	28	-------	9	54	39	6	4	4
Nebraska	94	53	33	-------	7	95	53	9	5	26
Nevada	25	13	9	-------	3	22	12	4	2	2
New Hampshire	42	21	17	-------	3	50	29	8	9	2
New Jersey	559	173	42	-------	344	221	82	29	61	21
New Mexico	68	37	23	-------	8	64	38	12	6	4
New York	1,239	368	160	80	631	652	378	73	98	73
North Carolina	249	140	44	-------	65	179	83	54	25	7
North Dakota	55	21	25	-------	9	50	31	5	3	10
Ohio	669	321	120	-------	229	523	273	41	75	122
Oklahoma	164	98	29	-------	37	134	48	15	11	38
Oregon	130	68	34	-------	28	113	54	13	16	23
Pennsylvania	577	265	79	10	224	423	211	72	85	48
Rhode Island	48	25	12	-------	12	42	20	6	5	1
South Carolina	140	63	40	-------	37	109	68	17	13	7
South Dakota	63	26	27	-------	11	57	36	6	3	11
Tennessee	208	110	78	10	10	187	94	10	11	53
Texas	556	330	164	-------	62	493	302	59	24	35
Utah	60	26	24	-------	9	49	34	6	5	3
Vermont	44	17	19	8	(7)	43	25	6	5	7
Virginia	445	106	56	234	50	211	92	40	64	12
Washington	243	112	33	55	44	171	69	19	22	31
West Virginia	119	60	33	8	18	110	62	31	15	-------
Wisconsin	198	119	41	-------	38	171	74	18	8	59
Wyoming	57	16	29	-------	12	44	32	4	3	4

[1] Balances from 1959, totaling $3,026,809,000, and miscellaneous current revenues, totaling $734,581,000.
[2] Includes disbursements of $211,960,000 for collection and administration of highway-user revenues, and of $385,347,000 for nonhighway purposes.
[3] Expenditures on county roads under State control in Ala. (8 counties), Del., N. C., Va. (all except 2 counties), and W. Va. included with those for State-administered highways.
[4] Includes some administration, engineering, and miscellaneous disbursements.
[5] Disbursements for administration, engineering, and miscellaneous; State highway police and safety; bond interest; and bond retirement.
[6] Less than $500,000. [7] Credit of less than $500,000.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics, 1960.*

No. 760. Federal and State Motor-Fuel Tax, by States: 1940 to 1961

[**Cents per gallon.** Where 2 figures appear in a cell, the former is tax in effect at beginning of year, the latter is tax at end of year. See also *Historical Statistics, Colonial Times to 1957*, series Q 328-329]

STATE	1940	1950	1955	1960	1961 [1]	STATE	1940	1950	1955	1960	1961 [1]
Federal tax	1-1.5	1.5	2	4	4	Missouri	2	2	3	3	[4] 3-5
State average [2]	**3.96**	**4.65**	**5.35**	**5.94**	**6.09**	Montana	5	6	[5] 6-7	[5] 6	[5] 6
						Nebraska	5	6-5	6	7	7
Alabama	6	6	6-7	7	7	Nevada	4	4.5	[5] 5.5-6	6	6
Alaska	(3)	2	2-5	5-7	[4] 7-8	New Hampshire	4	4	5	7	7
Arizona	5	5	5	5	5	New Jersey	3	3	4	5	[4] 5-6
Arkansas	6.5	6.5	6.5	6.5	6.5						
California	3	4.5	[5] 6	[5] 6	[5] 6	New Mexico	5	7	6	6	6
Colorado	4	6	6	6	6	New York	4	4	[5] 4	[5] 6	[5] 6
						North Carolina	6	7	7	7	7
Connecticut	3	4	4-6	6	6	North Dakota	4	4	5-6	6	6
Delaware	4	5	5	5	[4] 5-6	Ohio	4	4	5	7	7
Dist. of Col.	2	4	6	6	6						
Florida	7	7	7	7	7	Oklahoma	4	6.5	6.5	6.5	6.5
Georgia	6	7	6-6.5	6.5	6.5	Oregon	5	6	6	6	6
Hawaii	4	4	4-5	[6] 5	[6] 5	Pennsylvania	4	5	5-6	5	[4] 5-7
Idaho	5.1	6	6	6	6	Rhode Island	3	4	4	6.7	7
Illinois	3	3	5	5	5	South Carolina	6	6-7	7	7	7
Indiana	4	4	4	6	6						
						South Dakota	4	4	5	[5] 6	[5] 6
Iowa	3	4	[5] 5-6	[5] 6	[5] 6	Tennessee	7	7	7	7	7
Kansas	3	5	5	[5] 5	[5] 5	Texas	4	4	[5] 4-5	[5] 5	[5] 5
Kentucky	5	7	7	[7] 7	[7] 7	Utah	4	4	5	6	6
Louisiana	7	9	7	7	7	Vermont	4	5	[5] 5-5.5	[5] 6.5	[5] 6.5
Maine	4	6	6-7	7	7						
						Virginia	5	6	6	[7] 6-7	[7] 7
Maryland	4	5	6	6	6	Washington	5	6.5	6.5	6.5	[4] 6.5-7.5
Massachusetts	3	3	5	5.5	5.5	West Virginia	5	5	5-6	7	7
Michigan	3	3	4.5-6	6	6	Wisconsin	4	4	4-6	6	6
Minnesota	4-3	5	5	5	5	Wyoming	4	4	[5] 5	[5] 5	[5] 5
Mississippi	6	6-7	[5] 7	[5] 7	[5] 7						

[1] As of August 1, except in Missouri where the new rate became effective October 13.
[2] Weighted average, based on net gallons taxed. Beginning 1960, includes Alaska and Hawaii.
[3] No tax.
[4] Tax rates changed as follows during 1961; Alaska 7 to 8 cents, July 1; Delaware 5 to 6 cents, December 15; Missouri 3 to 5 cents, October 1; New Jersey 5 to 6 cents, June 1; Pennsylvania 5 to 7 cents, April 1; Washington 6.5 to 7.5 cents, April 1.
[5] Diesel fuel tax differs from gasoline tax.
[6] State tax rate is 8 cents in Hawaii County and 5 cents in the other counties.
[7] Trucks or combinations with more than 2 axles pay motor-fuel tax rates of 9 cents per gallon in Kentucky and Virginia. (Prior to July 1, 1960, the tax in Virginia was 8 cents.)

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 761. Motor Fuel Consumption, by Use: 1940 to 1960

[**In millions of gallons, except averages.** Beginning 1959, includes Alaska and Hawaii. Comprises gasoline and all other fuels under State motor fuel laws. Excludes exports and Federal purchases for military use. Obtained chiefly from reports of State authorities. See also *Historical Statistics, Colonial Times to 1957*, series Q 318-320, for highway and nonhighway usage]

ITEM	1940	1945	1950	1955	1956	1957	1958	1959	1960
Total consumption [1]	24,404	22,304	40,280	53,116	55,711	57,443	59,087	62,226	63,714
Highway	22,001	19,149	35,653	47,731	50,214	51,865	53,418	56,332	57,878
Nonhighway	2,037	2,898	4,178	4,835	4,935	5,090	5,171	5,384	5,332
Passenger vehicles	16,759	14,023	25,037	34,319	36,128	37,594	38,904	40,879	41,996
Passenger cars [2]	16,323	13,323	24,305	33,548	35,326	36,769	38,095	40,056	41,169
Buses [3]	436	700	732	771	802	825	809	823	827
Trucks and combinations	5,156	5,055	10,566	13,308	13,978	14,271	14,514	15,453	15,882
Average gallons consumed per vehicle	680	617	728	759	768	767	776	782	777
Passenger cars [2]	594	517	603	644	651	652	664	666	661
Buses [3]	3,050	4,300	3,752	3,021	3,145	3,125	2,996	3,106	3,040
Trucks and combinations	1,095	1,020	1,257	1,278	1,302	1,302	1,301	1,324	1,330
Average mileage per gallon consumed per vehicle	13.79	13.05	12.87	12.67	12.54	12.47	12.44	12.43	12.42
Passenger cars [2]	15.29	14.95	14.95	14.53	14.37	14.40	14.30	14.30	14.28
Buses [3]	6.10	5.48	5.57	5.85	5.74	5.32	5.33	5.28	5.26
Trucks and combinations	9.68	9.08	8.57	8.37	8.31	7.93	7.96	7.97	7.96

[1] Includes losses allowed for evaporation, handling, etc.
[2] Includes taxicabs and motorcycles.
[3] Includes school buses.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 762. Motor-Vehicle Operators and Chauffeurs Licenses, by States: 1959 and 1960

[In thousands. Incomplete data for some States]

State	Period for which issued [1]		1959			1960		
	Operators	Chauffeurs	Licenses in force [2]	Licenses issued: Operators	Licenses issued: Chauffeurs [3]	Licenses in force [2]	Licenses issued: Operators	Licenses issued: Chauffeurs [3]
United States			84,498	36,993	4,249	87,361	38,431	4,539
Alabama	2 years	Not required	1,324	646		1,321	675	
Alaska	3 years	Not required	109	72		109	37	
Arizona	3 years	2 years	716	234	45	778	252	40
Arkansas	1 year	1 year	799	768	31	811	780	31
California	3 and 5 years	3 and 5 years	8,155	2,155	129	8,694	2,542	113
Colorado	3 years	3 years	1,077	293	30	1,092	366	32
Connecticut	2 years	1 year	[4] 1,396	702	10	[4] 1,449	747	9
Delaware	(5)	(5)	225	51	3	231	94	20
District of Columbia	3 years	Not required	340	121		342	109	
Florida	2 years	2 years	2,553	2,261	292	2,659	2,356	302
Georgia	1 or 5 years	1 or 5 years	1,729	967	86	1,791	946	89
Hawaii	Indefinite	1 year	(6)	39	3	[4] 384	40	4
Idaho	2 years	2 years	403	206	20	420	172	21
Illinois	3 years	1 year	4,538	869	297	4,565	1,694	299
Indiana	2 years	1 year	2,299	740	238	2,298	1,325	234
Iowa	2 years	1 year	1,471	655	153	1,458	647	156
Kansas	2 years	2 years	1,394	649	105	1,407	594	58
Kentucky	2 years	1 year	[4] 1,250	608	5	[4] 1,254	607	5
Louisiana	2 years	1 year	1,275	622	133	1,308	549	137
Maine	1 year	Not required	442	442		446	446	
Maryland	2 years	2 years	[4] 1,410	406	48	[4] 1,480	512	143
Massachusetts	2 years	1 year	[4] 2,506	1,675	(7)	[4] 2,610	1,121	(7)
Michigan	3 years	1 year	4,040	1,337	241	4,078	1,378	241
Minnesota	4 years	1 year	[4] 1,756	456	[8] 199	[4] 1,793	629	[8] 203
Mississippi	1 or 2 years	1 or 2 years	723	464	32	747	427	47
Missouri	3 years	1 year	1,987	943	160	2,085	374	168
Montana	2 years	2 years	353	143	16	356	177	20
Nebraska	2 years	Not required	888	771		896	125	
Nevada	2 years	2 years	156	95	14	167	56	15
New Hampshire	2 years	2 years	298	76	5	312	177	61
New Jersey	1 or 3 years	Indefinite	[4] 2,574	1,832	(7)	[4] 2,757	1,891	(7)
New Mexico	2 years	1 year	499	239	69	498	181	78
New York	3 years	3 years	6,885	1,445	364	7,062	1,521	410
North Carolina	4 years	1 year	1,941	496	65	2,000	490	66
North Dakota	2 years	Not required	358	330		353	23	
Ohio	3 years	3 years	4,606	1,176	113	4,694	2,499	224
Oklahoma	2 years	2 years	1,200	556	73	1,223	521	73
Oregon	2 years	2 years	[4] 928	466	41	[4] 949	483	59
Pennsylvania	2 years	Not required	5,416	5,218		5,770	5,770	
Rhode Island	2 years	2 years	410	189	11	416	204	12
South Carolina	4 years	1 year	[4] 1,053	51	(9)	[4] 1,097	44	(9)
South Dakota	4 years	Not required	390	146		425	36	
Tennessee	2 years	2 years	1,606	1,388	104	1,604	104	8
Texas	2 years	1 year	4,282	1,583	894	4,352	1,829	941
Utah	3 and 5 years	3 and 5 years	459	87	10	482	63	7
Vermont	1 year	Not required	177	177		179	179	
Virginia	3 years	1 year	1,792	502	70	1,827	755	80
Washington	2 years	Not required	1,405	723		1,422	700	
West Virginia	4 years	1 year	808	117	34	833	284	47
Wisconsin	2 years	1 year	1,894	703	73	1,863	849	66
Wyoming	3 years	1 year	203	103	15	212	51	16

[1] In effect as of January 1, 1962.
[2] Estimated from data reported by States for current and previous years; no allowance made for deaths, emigration, or revocation.
[3] Includes public service and other special licenses that are issued to operators of vehicles for hire.
[4] Chauffeurs' licenses not added to operators' licenses since an operator's license is required in addition to the chauffeur's license.
[5] Issued for 2-year period, but drivers meeting certain requirements may obtain licenses for indefinite period.
[6] Not available.
[7] Special bus operators' licenses are required; numbers issued not available.
[8] Includes 9,399 school bus operators' licenses in 1959, and 9,517 in 1960.
[9] A permit to operate "For hire" vehicles is required, but the number issued is not available.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 763. Motor Vehicles—Summary of Selected Items: 1950 to 1961

[Excludes Alaska and Hawaii]

ITEM	1950	1955	1957	1958	1959	1960	1961
SALES, EXPORTS, IMPORTS, AND SCRAPPAGE							
Passenger car factory sales 1,000	6,666	7,920	6,113	4,258	5,591	6,675	5,543
4-door sedans ..... do	3,247	3,044	1,952	1,481	2,066	2,697	2,142
2-door sedans, coaches and coupes [1] ..... do	2,794	1,691	908	705	895	1,094	976
"Hard-top" coupes and sedans ..... do	267	2,169	2,073	1,200	1,459	1,517	1,292
Convertibles (except "hard-top") ..... do	208	240	285	194	255	305	300
Station wagons [2] ..... do	142	759	890	673	913	1,059	826
Chassis ..... do	9	18	6	5	4	3	5
Truck and bus factory sales ..... do	1,337	1,249	1,107	877	1,137	1,194	1,134
Passenger cars (new), exported ..... do	153	254	161	126	117	145	140
Passenger cars (new), imported ..... do	21	57	259	431	668	444	279
Exports, value $1,000,000	794	1,367	1,465	1,226	1,279	1,407	1,301
Passenger cars (new) ..... do	179	380	299	258	220	235	215
Trucks and buses (new) ..... do	217	340	434	294	321	378	304
Rubber tires and tubes ..... do	47	82	100	79	77	79	61
Parts and accessories (incl. used vehicles) ..... do	350	565	633	595	662	717	722
Imports of new passenger cars, value ..... do	21	69	301	487	735	513	307
Vehicles scrapped [3] 1,000	3,234	4,392	4,264	4,177	5,217	(4)	(4)
Passenger cars [3] ..... do	2,598	3,773	3,702	3,639	4,526	(4)	(4)
Trucks and buses [3] ..... do	636	619	562	538	691	(4)	(4)
TIRES AND PARTS							
Tires, passenger car:							
Production 1,000	78,598	97,223	93,547	83,636	102,696	105,361	103,370
Shipments ..... do	84,423	93,730	90,217	85,696	97,339	105,687	104,570
Original equipment ..... do	36,678	42,574	32,724	23,408	29,758	36,278	30,423
Replacement ..... do	47,103	50,189	56,605	61,570	66,795	68,475	73,336
Export ..... do	642	966	888	717	786	934	810
Inventory, year-end ..... do	3,050	15,963	19,818	17,778	23,599	23,583	22,807
Tires, truck and bus:							
Production ..... do	14,156	14,955	13,394	12,927	15,238	14,482	13,367
Shipments ..... do	15,164	14,769	13,430	13,232	15,076	13,911	13,741
Original equipment ..... do	4,671	4,800	4,041	3,375	4,418	3,925	3,628
Replacement ..... do	9,705	9,057	8,544	9,226	10,015	9,210	9,560
Export ..... do	788	912	845	631	644	776	554
Inventory, year-end ..... do	743	2,815	3,408	3,161	3,355	3,957	3,561
Replacement parts and accessories, domestic sales (wholesale value) [5] $1,000,000	1,882	1,806	2,009	2,025	2,264	2,313	[3] 2,400
Auto battery shipments for replacement, United States 1,000	24,442	25,828	25,943	25,270	27,495	26,329	[3] 28,400
SPECIAL MOTOR-VEHICLE TAXES [6]							
Special motor-vehicle taxes $1,000,000	4,339	7,212	8,659	8,420	9,542	10,457	[3] 10,601
Federal excise ..... do	1,479	2,736	[7] 3,513	[7] 3,132	[7] 3,760	[7] 4,397	[3] [7] 4,270
State gross registration receipts ..... do	948	1,483	1,661	1,702	1,826	1,924	[3] 2,000
State gasoline, net ..... do	1,667	2,543	2,907	2,982	3,265	3,396	[3] 3,550
Special city and county [8] ..... do	87	159	195	182	197	206	[3] 220
Bridge, tunnel, ferry, road tolls ..... do	157	292	382	422	495	533	[3] 561
TRAFFIC DEATHS							
Traffic deaths [9] ..... number	34,763	38,426	38,702	36,981	37,910	38,200	[3] 38,000
Noncollision accidents ..... do	10,600	12,100	11,800	11,600	11,800	12,100	[3] 12,200
Collision accidents:							
With other motor vehicles ..... do	11,650	14,500	15,400	14,200	14,900	14,800	[3] 14,600
With pedestrians ..... do	9,000	8,200	7,850	7,650	7,850	7,750	[3] 7,750
With other vehicles or objects ..... do	3,490	3,605	3,629	3,505	3,358	3,556	[3] 3,475
Traffic death rates:							
Per 100,000 population ..... do	23.0	23.4	22.7	21.3	21.5	21.2	[3] 20.8
Per 10,000 motor vehicles ..... do	7.1	6.1	5.8	5.4	5.3	5.2	[3] 5.0
Per 100 million vehicle miles ..... do	7.6	6.4	6.0	5.6	5.4	5.3	[3] 5.2

[1] Includes business coupes. [2] Excludes station wagons on commercial vehicle chassis. [3] Estimated.
[4] Not available. [5] Government purchases not included. Estimates based on Federal excise tax receipts.
[6] Special taxes on motor-vehicle users. Excludes income and property taxes on motor vehicle, body, parts and tire factories; garages; dealers; repair shops; terminal and truck, including taxicab and bus, operating companies.
[7] Includes amounts collected on use of vehicles over 26,000 lbs. as follows: 1957, $54,999,000; 1958, $32,820,000; 1959, $35,855,000; 1960, $44,539,000; 1961, $60,000,000.
[8] Includes parking meter revenues.
[9] Totals do not equal the sum of the various types because the estimates were generally made only to the nearest 10 deaths, and to the nearest 50 deaths for certain types.

Source: Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures.*

No. 764. Motor-Vehicle Travel, by Type of Vehicle and Class of Road: 1940 to 1960

[In millions of vehicle-miles, except averages. Beginning 1959, estimates for total United States travel based on automatic traffic recorder data from 50 States and District of Columbia. Urban travel includes all travel in municipalities and most travel in urbanized areas. All other travel is classed as rural. See also *Historical Statistics, Colonial Times to 1957*, series Q 321-327]

ITEM	1940	1945	1950	1955	1957	1958	1959	1960
Total travel	302,188	250,173	458,246	603,434	647,004	664,653	700,478	718,845
CLASS OF ROAD								
Rural	152,195	120,012	239,998	336,153	350,305	357,584	376,688	387,260
Main rural roads	109,861	85,921	174,350	227,988	259,996	265,197	280,393	288,483
Local rural roads	42,334	34,091	65,648	108,165	90,309	92,387	96,295	98,777
Urban	149,993	130,161	218,248	267,281	296,699	307,069	323,790	331,585
TYPE OF VEHICLE								
Passenger vehicles	252,257	204,232	367,694	492,047	533,798	549,183	577,324	592,436
Rural	121,988	92,831	183,218	265,667	277,235	283,454	297,393	305,538
Urban	130,269	111,401	184,476	226,380	256,563	265,729	279,931	286,898
Passenger cars [1]	249,600	200,398	363,613	487,540	529,405	544,873	572,976	588,083
Rural	120,540	90,926	181,095	263,088	275,034	281,253	295,153	303,283
Urban	129,060	109,472	182,518	224,452	254,371	263,620	277,823	284,800
Buses	2,657	3,834	4,081	4,507	4,393	4,310	4,348	4,353
Rural	1,448	1,905	2,123	2,579	2,201	2,201	2,240	2,255
Urban	1,209	1,929	1,958	1,928	2,192	2,109	2,108	2,098
Trucks and combinations	49,931	45,941	90,552	111,387	113,206	115,470	123,154	126,409
Rural	30,207	27,181	56,780	70,486	73,070	74,130	79,295	81,722
Urban	19,724	18,760	33,772	40,901	40,136	41,340	43,859	44,687
AVERAGE MILES PER VEHICLE								
Passenger vehicles	9,129	7,870	9,078	9,400	9,425	9,524	9,559	9,474
Passenger cars [1]	9,080	7,771	9,020	9,359	9,391	9,494	9,529	9,446
Buses	18,580	23,521	20,910	17,658	16,640	15,963	16,408	16,004
Trucks and combinations	10,626	9,270	10,776	10,697	10,328	10,348	10,552	10,583

[1] Includes taxicabs and motorcycles.

Source: Department of Commerce, Bureau of Public Roads; releases.

No. 765. Motor Vehicles—Factory Sales and Registrations: 1900 to 1961

[Beginning 1959, registrations include Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 310-317]

YEAR	FACTORY SALES								REGISTRATIONS [3] (1,000)		
	Number (1,000)			Wholesale value [2] ($1,000,000)							
	Total	Passenger cars	Trucks and buses [1]	Total	Passenger cars		Trucks and buses [1]		Total	Passenger cars and taxis [4]	Trucks and buses [4]
					Total value	Average price	Total value	Average price			
1900	4	4	--------	5	5	1,169	--------	--------	8	8	--------
1910	187	181	6	225	215	1,189	10	1,610	469	458	10
1920	2,227	1,906	322	2,232	1,809	949	423	1,315	9,239	8,132	1,108
1930	3,363	2,787	575	2,035	1,644	590	391	679	26,750	23,035	3,715
1940	4,472	3,717	755	2,938	2,371	638	568	752	32,453	27,466	4,987
1945	725	70	656	1,239	57	823	1,182	1,803	31,035	25,793	5,242
1950	8,003	6,666	1,337	10,176	8,468	1,270	1,708	1,277	49,162	40,334	8,828
1955	9,169	7,920	1,249	14,474	12,453	1,572	2,021	1,618	62,694	52,136	10,558
1956	6,921	5,816	1,104	11,832	9,755	1,677	2,077	1,881	65,154	54,201	10,953
1957	7,221	6,113	1,107	13,281	11,198	1,832	2,083	1,881	67,131	55,906	11,225
1958	5,135	4,258	877	9,740	8,010	1,881	1,730	1,973	68,299	56,871	11,428
1959	6,729	5,591	1,137	12,873	10,534	1,884	2,339	2,056	71,497	59,562	11,935
1960	7,869	6,675	1,194	14,515	12,164	1,822	2,350	1,968	73,941	61,724	12,217
1961	6,667	5,543	1,134	[5] 12,490	[5] 10,319	[5] 1,862	[5] 2,171	[5] 1,914	[5] 75,847	[5] 63,274	[5] 12,572

[1] A substantial part of the trucks and buses reported comprises chassis without body; hence, excludes the value of bodies for these chassis. Includes military trucks.
[2] Beginning 1940, includes value of standard equipment. [3] Includes publicly owned vehicles.
[4] Prior to 1930, buses included with passenger cars. [5] Preliminary estimate.

Source: Factory sales—Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures*. Registrations—Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 766. Motor-Vehicle Registrations (Passenger Cars, Buses, and Trucks), by States: 1920 to 1961

[In thousands. Includes publicly 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	1920	1925	1930	1935	1940	1945	1950	1955	1960	1961
United States	9,239	20,069	26,750	26,546	32,453	31,035	49,162	62,694	73,769	75,847
Alabama	75	196	281	249	346	366	686	1,041	1,282	1,311
Alaska	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	81	86
Arizona	35	69	112	107	143	148	271	415	624	664
Arkansas	59	184	221	210	261	279	477	584	708	731
California	584	1,459	2,060	2,177	2,808	2,894	4,620	6,189	7,799	8,093
Colorado	129	241	311	288	358	348	564	737	924	971
Connecticut	119	252	334	371	498	510	716	921	1,107	1,144
Delaware	18	40	57	58	73	69	108	154	192	199
District of Columbia	34	105	159	174	165	114	195	197	206	207
Florida	74	288	331	362	503	526	985	1,616	2,367	2,448
Georgia	146	251	345	399	510	531	898	1,239	1,512	1,559
Hawaii	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	231	245
Idaho	51	83	120	121	167	154	272	338	375	386
Illinois	569	1,267	1,646	1,536	1,939	1,734	2,651	3,268	3,776	3,858
Indiana	333	732	880	857	1,009	990	1,435	1,763	2,046	2,090
Iowa	437	662	783	705	803	701	1,072	1,195	1,325	1,353
Kansas	294	459	598	558	589	607	853	1,048	1,163	1,190
Kentucky	113	263	334	352	470	442	784	1,032	1,198	1,235
Louisiana	73	209	279	275	372	409	707	952	1,177	1,190
Maine	63	141	188	184	209	210	276	323	374	384
Maryland	103	238	324	349	449	462	685	938	1,155	1,184
Massachusetts	274	639	851	792	914	868	1,280	1,546	1,803	1,859
Michigan	413	993	1,338	1,254	1,571	1,475	2,433	3,114	3,306	3,354
Minnesota	324	571	736	733	879	757	1,169	1,365	1,592	1,612
Mississippi	68	178	239	190	264	268	484	637	723	746
Missouri	297	606	766	772	930	860	1,261	1,490	1,623	1,642
Montana	61	96	137	153	196	161	265	336	381	388
Nebraska	219	340	428	409	417	410	569	662	734	756
Nevada	10	22	30	36	46	47	77	124	175	187
New Hampshire	35	82	113	118	137	131	172	212	256	276
New Jersey	228	586	861	899	1,100	1,031	1,579	2,061	2,401	2,534
New Mexico	18	50	85	95	128	121	238	340	426	443
New York	676	1,638	2,330	2,359	2,775	2,360	3,735	4,643	5,067	5,200
North Carolina	141	344	462	475	607	620	1,056	1,437	1,720	1,788
North Dakota	91	145	184	165	184	182	276	309	345	349
Ohio	621	1,354	1,773	1,732	1,942	1,927	2,795	3,526	4,087	4,167
Oklahoma	213	427	555	508	584	512	831	1,026	1,184	1,222
Oregon	115	218	255	299	401	421	689	802	919	942
Pennsylvania	570	1,340	1,775	1,765	2,168	1,983	3,010	3,737	4,287	4,370
Rhode Island	50	102	137	150	189	180	251	308	341	348
South Carolina	94	170	221	240	343	341	579	782	879	899
South Dakota	120	169	206	181	198	181	290	325	354	365
Tennessee	102	247	374	360	461	467	858	1,102	1,307	1,363
Texas	428	987	1,378	1,398	1,716	1,605	2,968	3,869	4,457	4,562
Utah	43	74	115	108	143	157	247	336	417	436
Vermont	32	70	87	83	95	91	121	136	152	155
Virginia	115	287	381	393	509	556	918	1,243	1,426	1,482
Washington	174	332	452	463	573	626	924	1,164	1,377	1,406
West Virginia	81	219	269	254	309	290	482	552	601	619
Wisconsin	293	597	788	763	913	830	1,201	1,386	1,600	1,636
Wyoming	24	48	62	71	88	85	145	174	207	210

[1] Not available.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 767. Motor-Vehicle Registrations, by States: 1960 and 1961

[In thousands]

STATE	1960					1961				
	Automobiles, trucks, and buses				Motorcycles (incl. official) [1]	Automobiles, trucks, and buses				Motorcycles (incl. official) [1]
	Total	Private and commercial		Publicly owned vehicles, Federal, State, county, etc. [1]		Total	Private and commercial		Publicly owned vehicles, Federal, State, county, etc. [1]	
		Automobiles (incl. taxicabs)	Trucks and buses				Automobiles (incl. taxicabs)	Trucks and buses		
United States	73,769	61,300	11,498	971.0	574.1	75,847	63,011	11,810	1,025.8	595.7
Alabama	1,282	1,039	225	18.2	11.0	1,311	1,062	229	19.2	11.4
Alaska	81	59	19	2.8	0.9	86	63	21	2.5	1.0
Arizona	624	485	127	11.5	8.6	664	516	135	12.7	9.8
Arkansas	708	501	198	9.3	4.8	731	515	206	9.8	5.3
California	7,799	[2] 6,625	1,069	105.1	79.6	8,093	6,859	1,123	110.3	87.4
Colorado	924	710	199	15.9	11.0	971	746	208	17.4	11.6
Connecticut	1,107	975	121	11.0	6.4	1,144	1,007	125	11.2	5.8
Delaware	192	142	48	2.2	0.9	199	146	51	2.3	1.0
Dist. of Col.	206	181	19	[3] 6.3	0.8	207	182	19	[3] 6.4	0.9
Florida	2,367	2,041	296	29.9	29.5	2,448	2,116	301	31.0	31.4
Georgia	1,512	1,218	274	19.4	8.7	1,559	1,258	281	20.7	10.0
Hawaii	231	198	29	4.0	3.5	245	210	30	4.7	4.1
Idaho	375	254	112	8.5	3.6	386	262	115	8.8	4.1
Illinois	3,776	3,302	440	34.4	26.1	3,858	3,377	444	36.9	25.6
Indiana	2,046	1,678	351	17.4	18.7	2,090	1,714	360	17.3	19.2
Iowa	1,325	1,070	239	16.2	11.1	1,353	1,086	250	17.0	11.7
Kansas	1,163	870	275	18.6	11.2	1,190	892	280	18.8	11.5
Kentucky	1,198	948	235	14.9	6.9	1,235	974	245	15.7	7.0
Louisiana	1,177	937	225	15.1	8.1	1,190	947	227	15.4	7.7
Maine	374	299	70	5.0	1.9	384	308	71	5.2	1.9
Maryland	1,155	1,003	142	9.9	5.9	1,184	1,030	144	10.1	4.5
Massachusetts	1,803	1,590	181	23.5	10.0	1,859	1,652	182	25.1	12.5
Michigan	3,306	2,883	388	35.2	32.6	3,354	2,928	390	36.9	28.2
Minnesota	1,592	1,302	271	18.5	12.3	1,612	1,317	276	18.9	13.1
Mississippi	723	527	183	13.4	3.4	746	547	186	13.9	3.9
Missouri	1,623	1,274	331	16.9	10.0	1,642	1,287	337	18.0	10.4
Montana	381	260	114	7.1	2.6	388	265	116	7.2	3.2
Nebraska	734	554	171	9.2	5.4	756	569	178	9.6	5.5
Nevada	175	134	37	4.1	3.1	187	140	43	4.4	3.7
New Hampshire	256	208	41	6.9	2.0	276	228	41	7.5	2.2
New Jersey	2,401	2,115	262	24.4	12.4	2,534	2,240	268	25.7	12.4
New Mexico	426	303	115	8.5	7.4	443	324	111	8.9	7.5
New York	5,067	4,492	509	65.7	16.1	5,200	4,608	516	75.9	15.8
North Carolina	1,720	1,374	307	38.8	6.2	1,788	1,427	319	42.0	6.3
North Dakota	345	231	109	5.0	1.5	349	233	110	5.4	1.7
Ohio	4,087	3,625	421	40.6	38.7	4,167	3,697	428	41.7	36.4
Oklahoma	1,184	879	288	17.3	13.0	1,222	901	302	17.9	13.2
Oregon	919	737	164	18.0	8.8	942	758	166	18.3	8.3
Pennsylvania	4,287	3,713	530	44.0	29.0	4,370	3,791	534	44.8	29.7
Rhode Island	341	302	36	3.2	1.8	348	308	36	3.4	2.0
South Carolina	879	718	143	17.7	4.7	899	734	147	18.5	4.8
South Dakota	354	254	94	5.7	2.4	365	261	97	6.1	2.8
Tennessee	1,307	1,067	221	19.1	10.4	1,363	1,115	227	20.9	11.5
Texas	4,457	3,524	877	55.2	47.0	4,562	3,600	906	55.7	46.3
Utah	417	329	80	7.5	3.4	436	343	85	8.2	4.5
Vermont	152	122	28	2.3	1.2	155	124	29	2.5	1.3
Virginia	1,426	1,190	214	22.4	6.6	1,482	1,230	219	24.3	6.5
Washington	1,377	1,104	245	27.7	6.8	1,406	1,126	251	28.8	9.6
West Virginia	601	475	114	11.0	3.1	619	487	120	11.7	3.9
Wisconsin	1,600	1,329	249	21.8	12.5	1,636	1,351	260	25.4	13.0
Wyoming	207	140	62	4.7	1.8	210	141	64	5.0	2.2

[1] Excludes vehicles owned by military services.
[2] Includes an unspecified number of commercial-type vehicles under 3,000 pounds that cannot be segregated.
[3] Includes 2,268 automobiles of the diplomatic corps for 1960, and 2,502 for 1961.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 768. Automobile Ownership, Age, and Financing: 1950 to 1961

[Excludes Alaska and Hawaii. For definitions of families and spending units, see text, p. 3, and headnote, table 442, respectively]

ITEM	1950	1955	1957	1958	1959	1960	1961
Total number of families in U.S. [1] ..... millions	45.7	49.3	51.2	52.0	52.6	53.4	54.2
Total owning automobiles ..... percent	60	71	75	74	74	77	76
Total number of spending units in U.S. [1] ..... millions	52.6	54.3	56.1	56.9	56.8	56.8	58.0
Total owning automobiles [2] ..... percent	55	67	72	70	71	74	74
Automobiles owned, by age: [3]							
Less than 2 years old ..... do	17	12	14	12	10	14	13
2 and 3 years old ..... do	19	22	24	25	23	20	17
4, 5, 6, and 7 years old ..... do	6	43	40	37	38	41	42
8 years old and over ..... do	58	23	22	26	28	25	28
Total automobile purchasers [2] ..... millions	12.8	15.5	12.8	12.6	13.5	16.5	(4)
New car ..... do	5.3	6.1	4.4	3.9	5.0	5.5	
Average price paid ..... dollars	2,220	2,940	3,230	2,990	3,150	3,030	
Used car ..... millions	7.5	9.4	8.4	8.7	8.5	11.0	
Average price paid ..... dollars	730	780	900	850	1,020	820	
Method of financing by purchasers: [2]							
All passenger-car buyers [5] ..... percent	100	100	100	100	100	100	
Full cash (including trade-in allowance) ..... do	47	38	38	43	38	47	
Installment credit and other borrowing ..... do	52	60	60	56	61	52	
New-passenger-car buyers [5] ..... do	100	100	100	100	100	100	
Full cash (including trade-in allowance) ..... do	54	39	34	36	33	39	
Installment credit and other borrowing ..... do	46	60	65	63	66	61	
Used-passenger-car buyers [5] ..... do	100	100	100	100	100	100	
Full cash (including trade-in allowance) ..... do	41	37	39	45	41	52	
Installment credit and other borrowing ..... do	57	60	58	54	57	47	

[1] At time of survey, early in year.
[2] Covers spending units buying cars during year and still owning them at survey time (January–February of following year). [3] Age is determined by subtracting model year from year of survey.
[4] Not available. [5] Includes buyers from whom method of financing was not ascertained. Beginning 1958, such buyers were assigned to either the cash or credit group; prior to that, the data shown for cash and credit buyers reflect only those buyers who reported method of financing.

Source: The University of Michigan, Survey Research Center; *Survey of Consumer Finances*. Prior to 1959, sponsored by Board of Governors of Federal Reserve System and published periodically in *Federal Reserve Bulletin*.

No. 769. Automobile Insurance—Premiums Written and Losses Paid, by Type: 1950 to 1960

[**In millions of dollars.** Beginning 1957, includes Alaska and Hawaii. 1950, net basis; 1955 to 1958, direct writing basis, and beginning *1959, direct premiums earned and direct losses incurred*]

YEAR	TOTAL INSURANCE			LIABILITY, BODILY INJURY			LIABILITY, PROPERTY DAMAGE [1]			PHYSICAL DAMAGE [2]		
	Premiums written	Losses paid	Percent losses paid of premiums written	Premiums written	Losses paid	Percent losses paid of premiums written	Premiums written	Losses paid	Percent losses paid of premiums written	Premiums written	Losses paid	Percent losses paid of premiums written
1950	2,625	1,069	40.7	931	396	42.5	482	231	47.9	1,212	442	36.5
1955	4,644	2,122	45.7	1,735	820	47.3	896	415	46.3	2,013	887	43.6
1957	5,037	2,714	53.9	2,180	1,141	52.3	989	541	54.7	1,868	1,032	55.2
1958	5,404	2,846	52.7	2,432	1,280	52.6	1,087	572	52.6	1,885	994	52.7
1959	6,060	3,445	56.8	2,596	1,615	62.2	1,185	655	55.3	2,279	1,175	51.6
1960	6,480	3,667	56.5	2,842	1,698	59.7	1,259	696	55.3	2,388	1,273	53.3

[1] Covers real property against damage by autos. [2] Covers auto fire, theft, collision, and comprehensive.

Source: The Spectator, Philadelphia, Pa.; *Insurance Yearbook*, Fire and Casualty Volume; and beginning 1955, Insurance by States Volume.

No. 770. Speed of Motor Vehicles: 1945 to 1961

[Excludes Alaska and Hawaii. Based on actual speed of each vehicle recorded on tangent sections of main rural highways during off-peak hours]

ITEM	1945 [1]	1950	1953	1954	1955	1956	1957	1958	1959	1960	1961
Number of vehicles recorded 1,000	96	280	241	236	395	381	344	515	396	459	500
Average speed, all vehicles ..... m. p. h.	44.0	47.6	49.7	49.7	50.7	50.5	51.4	51.7	52.0	52.6	52.5
Passenger cars ..... do	45.0	48.7	51.1	51.1	52.1	51.8	52.6	52.8	53.3	53.8	53.7
Trucks ..... do	39.8	43.0	44.9	45.2	45.8	46.2	47.0	47.3	47.3	48.2	48.2
Buses ..... do	45.5	49.8	51.5	51.8	52.6	52.3	52.6	53.6	53.5	55.5	54.9
Vehicles exceeding—											
40 m. p. h. ..... percent	64	77	85	86	87	87	89	90	90	92	92
45 m. p. h. ..... do	42	58	69	69	73	72	75	77	77	80	80
50 m. p. h. ..... do	24	37	47	46	51	49	52	55	56	58	60
55 m. p. h. ..... do	11	20	27	26	31	30	33	33	36	37	38
60 m. p. h. ..... do	5	8	13	12	15	14	15	15	16	16	18

[1] August 15 to December 31.

Source: Department of Commerce, Bureau of Public Roads.

No. 771. Motor-Vehicle Accident Deaths, by Age and Sex: 1959

[Excludes Hawaii]

AGE	Both sexes	Male	Female	AGE	Both sexes	Male	Female
All ages	37,910	28,064	9,846	25 to 34 years	5,699	4,544	1,155
				35 to 44 years	4,659	3,552	1,107
Under 5 years	1,842	1,024	818	45 to 54 years	4,446	3,261	1,185
5 to 9 years	1,550	1,008	542				
10 to 14 years	1,169	842	327	55 to 64 years	3,817	2,675	1,142
15 to 19 years	4,379	3,369	1,010	65 years and over	5,727	3,876	1,851
20 to 24 years	4,590	3,888	702	Not stated	32	25	7

No. 772. Motor-Vehicle Accident Deaths, by Place of Death and Place of Residence: 1950 to 1959

STATE	BY PLACE OF DEATH						BY PLACE OF RESIDENCE					
	1950	1955	1956	1957	1958	1959	1950	1955	1956	1957	1958	1959
United States[1]	34,763	38,426	39,628	38,702	36,981	37,910	34,763	38,426	39,628	38,702	36,981	37,910
Ala	859	859	980	947	878	870	855	864	1,016	937	902	900
Alaska	22	31	28	36	33	34	(2)	(2)	(2)	(2)	(2)	32
Ariz	333	384	502	473	529	518	278	335	414	383	459	440
Ark	365	447	503	503	445	461	383	467	497	508	445	491
Calif	3,082	3,524	3,859	3,792	3,594	3,712	3,171	3,609	3,975	3,895	3,696	3,823
Colo	415	455	427	411	414	408	408	406	415	418	401	410
Conn	287	353	304	302	266	252	291	351	314	317	269	289
Del	84	112	92	101	89	90	80	104	96	92	94	79
D. C	102	99	86	87	83	81	134	119	104	130	100	93
Fla	882	1,048	1,238	1,145	1,189	1,177	842	977	1,135	1,113	1,159	1,124
Ga	928	1,122	1,161	1,067	1,021	1,031	906	1,094	1,120	1,031	979	987
Hawaii	74	64	73	96	73	89	(2)	(2)	(2)	(2)	(2)	(2)
Idaho	243	184	245	214	290	232	226	181	237	195	263	219
Ill	1,953	1,877	2,013	1,931	1,797	1,660	2,042	1,994	2,167	2,044	1,926	1,724
Ind	1,136	1,189	1,262	1,200	1,099	1,168	1,087	1,148	1,239	1,172	1,077	1,109
Iowa	620	613	700	718	630	716	634	636	681	710	650	702
Kansas	546	613	691	608	582	598	529	587	678	589	570	570
Ky	753	907	812	843	779	764	722	862	765	797	735	755
La	585	703	916	842	841	810	551	677	876	827	810	802
Maine	161	177	174	157	216	144	155	176	177	151	211	149
Md	480	500	544	558	517	525	442	498	531	526	485	546
Mass	492	621	394	421	579	593	544	675	454	463	617	620
Mich	1,627	2,036	1,781	1,582	1,417	1,480	1,692	2,145	1,842	1,662	1,467	1,575
Minn	558	613	672	727	734	688	587	632	711	750	752	737
Miss	525	562	586	562	574	597	519	544	565	550	548	582
Mo	902	1,079	1,164	1,070	1,013	1,014	942	1,084	1,112	1,060	964	1,010
Mont	209	244	276	221	208	255	191	239	260	226	203	248
Nebr	317	331	325	317	359	343	305	337	355	351	369	351
Nev	122	186	150	144	151	200	81	123	94	104	117	135
N. H	103	110	100	98	101	120	96	103	100	98	95	112
N. J	715	815	791	854	773	784	646	767	796	825	755	764
N. Mex	340	383	431	465	431	482	263	295	349	370	346	382
N. Y	1,961	2,163	2,160	2,208	2,114	2,269	2,098	2,310	2,313	2,344	2,260	2,334
N. C	1,153	1,222	1,185	1,134	1,150	1,261	1,113	1,217	1,177	1,144	1,129	1,241
N. Dak	105	153	172	165	169	175	111	171	170	158	175	167
Ohio	1,850	2,089	2,011	2,076	1,819	1,898	1,892	2,137	2,056	2,124	1,855	1,993
Okla	504	569	672	696	666	630	510	608	685	709	686	640
Oreg	461	434	444	489	460	506	465	434	435	473	436	489
Pa	1,656	1,872	1,984	1,857	1,746	1,794	1,744	1,948	2,034	1,927	1,798	1,846
R. I	87	94	76	84	74	90	89	98	80	85	82	89
S. C	627	696	729	698	590	673	633	679	694	662	573	648
S. Dak	198	200	191	190	236	227	196	200	193	188	221	223
Tenn	801	968	835	783	799	872	778	913	801	776	779	837
Tex	2,499	2,602	2,655	2,575	2,424	2,515	2,498	2,599	2,712	2,587	2,469	2,557
Utah	199	211	223	230	206	224	202	192	208	207	200	230
Vt	69	87	101	103	80	92	82	82	93	98	83	83
Va	929	909	840	933	884	875	857	830	775	842	774	806
Wash	534	514	572	553	610	576	548	545	599	590	667	620
W. Va	400	398	446	488	388	412	422	410	459	495	405	390
Wis	857	954	976	913	818	841	806	910	921	882	815	824
Wyo	149	145	177	167	149	173	117	114	148	117	110	133

[1] Beginning 1959, includes Alaska. [2] Not available.

Source of tables 771 and 772: Department of Health, Education, and Welfare, Public Health Service, annual report, *Vital Statistics of the United States*.

Section 21

Transportation, Land and Air

This section presents statistics concerning the systems of mass transport of persons and goods by land and air. The modes of transport included are railroad, trucking, bus and streetcar, pipeline, and civil aviation.

The principal sources of these data are the Interstate Commerce Commission's *Annual Report* and its annual *Transport Statistics in the United States*, Part 1, which contains data on railroads; and the Federal Aviation Agency's annual *FAA Statistical Handbook of Aviation*. Other important sources published by the Interstate Commerce Commission include the quarterly and annual *Statistics of Class I Motor Carriers* (issued as Part 7 of *Transport Statistics*); the annual *Statistics of Oil Pipe-Line Companies* (issued as Part 6 of *Transport Statistics*); the annual *Accident Bulletin;* and, for historical data on railroads, *Statistics of Railways in the United States*, published annually from 1887 through 1953. Nongovernmental sources of data include *Cars of Revenue Freight Loaded*, published weekly and annually by the Association of American Railroads; the *Transit Fact Book*, relating to street railways and motor buses, published annually by the American Transit Association; and *Air Transport Facts and Figures*, published annually by the Air Transport Association of America.

Railroads.—The total railroad mileage of the United States comprises companies reporting to the Interstate Commerce Commission, grouped as follows: (1) Regular interstate carriers (and their nonoperating subsidiaries); (2) switching and terminal railroads; and (3) private railroads (identified by the Commission as "circular" bebecause they report on brief circulars, or as "unofficial" when their reports are received too late for tabulation). Except for certain mileage data, circular and unofficial companies are not included in the statistics. Switching and terminal roads, formerly included with operating railroads, are now separated, and data for them do not appear in most of the tables.

Nonoperating subsidiaries comprise proprietary companies, which are covered by the reports of operating carriers, and lessor companies, which have no traffic and whose reports appear only in statistics of capitalization, dividends, and investment.

Operating railroads are classified on the basis of operating revenues. Prior to 1956, the classification was as follows: Class I, those having more than $1,000,000 gross annual operating revenue; class II, from $100,000 to $1,000,000; and class III, less than $100,000. Since 1956, the following classification has been in effect: Class I, $3,000,000 or more; and class II, under $3,000,000. Class III has been eliminated.

Motor carriers.—Statistics of class I for-hire carriers are compiled by the Interstate Commerce Commission from annual and quarterly reports submitted to it by these carriers. Prior to 1950, class I motor carriers were those with $100,000 or more of gross annual operating revenue. Beginning with 1950, the class I minimum became $200,000. Beginning with 1957, the class I minimum for motor carriers of property was increased to $1,000,000; however, the minimum for class I motor carriers of passengers remained at $200,000.

Civil aeronautics.—Federal promotion and regulation of civil aviation are carried out by two bodies—the Federal Aviation Agency and the Civil Aeronautics Board. The Board issues certificates permitting persons to engage in air transportation as a business, fixes air mail rates which they may charge, and may establish maximum and minimum rates for transportation of passengers and goods. It also has the duty of investigating accidents in air transportation.

The principal activities of the Federal Aviation Agency are: Controlling the use of navigable airspace; prescribing regulations dealing with the competency of airmen, airworthiness of aircraft, and air traffic control; operation of air route traffic control centers, airport traffic control towers, and flight service stations; the design, construction, maintenance, and inspection of navigation, traffic control, and communications equipment for the airways; and promotion of air safety.

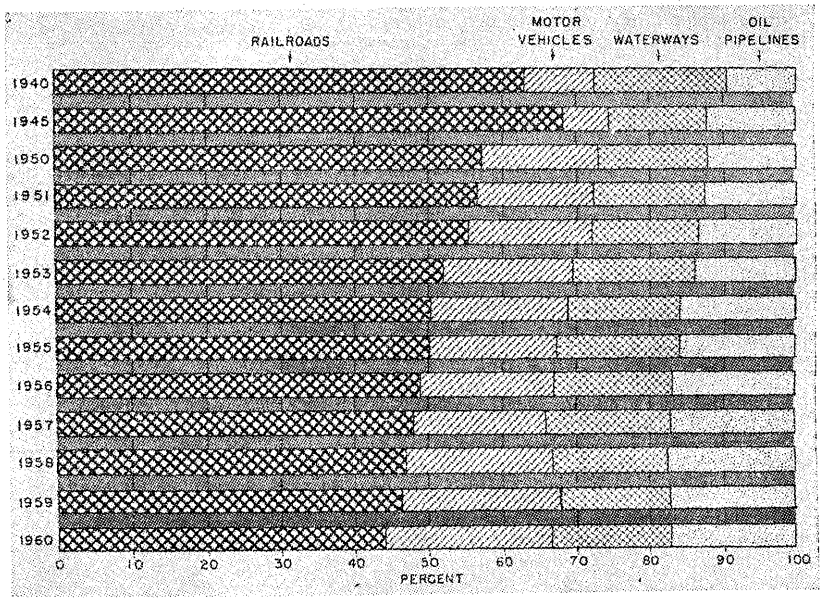
These agencies publish annual operational data on the use of airway facilities; data related to the location of airmen, aircraft, and airports; the activity volume in the field of non-aircarrier (general aviation) flying; and aircraft production and registration data by type of equipment.

Alaska and Hawaii.—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface.

Historical statistics.—Tabular headnotes (as "See also *Historical Statistics, Colonial Times to 1957*, series Q 1-11") provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XXXII. PERCENT DISTRIBUTION OF TON-MILES OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1940 TO 1960

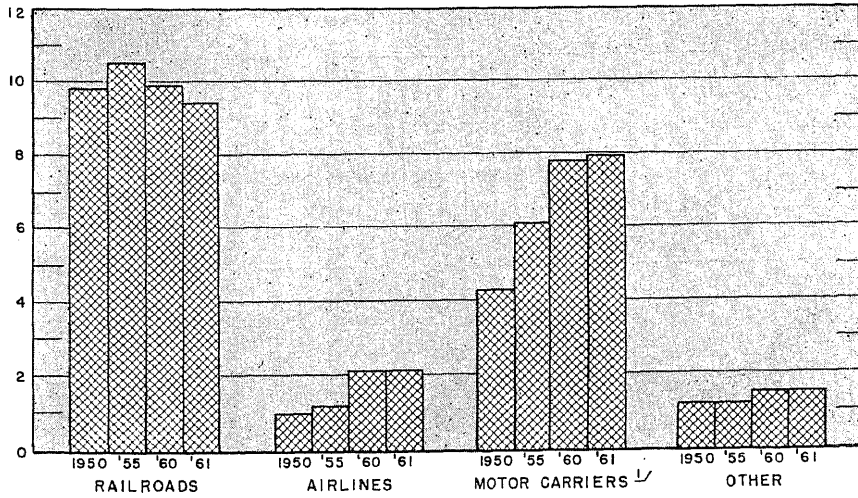
[Airways not shown separately—less than 1 percent. See table 773]



Source: Chart prepared by Department of Commerce, Bureau of the Census. Data are from Interstate Commerce Commission.

FIG. XXXIII. OPERATING REVENUES FOR SELECTED TRANSPORT GROUPS: 1950 TO 1961

[See table 775]



[1] Property and passenger.

Source: Chart prepared by Department of Commerce, Bureau of the Census. Data are from Interstate Commerce Commission and Federal Aviation Agency.

No. 773. Volume of Domestic Intercity Freight Traffic, by Type of Transportation: 1940 to 1960

[**In millions of ton-miles.** Excludes Alaska and Hawaii. A ton-mile is the movement of 1 ton (2,000 lbs.) of freight for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue. See also *Historical Statistics, Colonial Times to 1957*, series Q 1–11]

Year	Total traffic, volume	Railroads [1]		Motor vehicles		Inland waterways [2]		Oil pipelines		Airways [3]	
		Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total
1940	651,204	411,813	63.24	62,043	9.53	118,057	18.13	59,277	9.10	14	0.002
1945	1,072,490	736,184	68.64	66,948	6.24	142,737	13.31	126,530	11.80	91	0.008
1950	1,094,160	628,463	57.44	172,860	15.80	163,344	14.93	129,175	11.81	318	0.029
1951	1,209,099	686,377	56.77	188,012	15.55	[4] 182,216	15.07	152,115	12.58	379	0.031
1952	1,172,167	651,276	55.56	194,607	16.60	168,367	14.36	157,502	13.44	415	0.035
1953	1,232,477	642,578	52.14	217,163	17.62	[4] 202,439	16.43	169,884	13.78	413	0.034
1954	1,144,033	577,529	50.48	213,225	18.64	173,679	15.18	179,203	15.66	397	0.035
1955	1,298,060	654,573	50.43	223,254	17.20	216,508	16.68	203,244	15.66	481	0.037
1956	1,376,320	676,974	49.19	248,846	18.08	219,978	15.98	229,959	16.71	563	0.041
1957	1,354,012	644,746	47.62	254,174	18.77	231,792	17.12	222,728	16.45	572	0.042
1958	1,231,184	574,756	46.68	255,544	20.76	189,016	15.35	211,289	17.16	579	0.047
1959	1,312,155	599,347	45.68	288,519	21.99	196,559	14.98	226,991	17.30	739	0.056
1960	1,346,650	594,853	44.17	299,393	22.23	223,000	16.56	228,626	16.98	778	0.058

[1] Includes electric railways, express, and mail.
[2] Includes Great Lakes.
[3] Domestic revenue service only. Includes express, mail, and excess baggage.
[4] Part of this increase resulted from coverage of waterways previously existing but not covered.

Source: Interstate Commerce Commission; *Annual Report*; and Statement No. 6103, *Intercity Ton-Miles, 1939–1959*, April 1961.

No. 774. Volume of Domestic Intercity Passenger Traffic, by Type of Transportation: 1950 to 1960

[**In millions of passenger-miles.** Excludes Alaska and Hawaii. A passenger-mile is the movement of 1 passenger for the distance of 1 mile. Comprises public and private traffic, both revenue and nonrevenue]

Year	Total traffic, volume	Railroads [1]		Commercial motor carriers		Private automobiles		Inland waterways [2]		Airways [3]	
		Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total
1950	473,022	32,481	6.87	26,436	5.59	402,843	85.16	1,190	0.25	10,072	2.13
1952	575,345	34,710	6.03	28,704	4.99	495,547	86.13	1,396	0.24	14,988	2.61
1953	608,769	32,261	5.30	28,397	4.66	529,194	86.93	1,487	0.24	17,430	2.86
1954	625,113	29,467	4.71	25,614	4.10	548,763	87.79	1,701	0.27	19,568	3.13
1955	664,510	28,695	4.32	25,519	3.84	585,817	88.16	1,738	0.26	22,741	3.42
1956	698,895	28,610	4.09	25,189	3.60	617,713	88.38	1,860	0.27	25,523	3.65
1957	722,601	26,251	3.63	21,455	2.97	644,837	89.24	1,930	0.27	28,128	3.89
1958	704,452	23,605	3.35	20,756	2.95	629,496	89.36	2,073	0.29	28,522	4.05
1959	736,764	22,373	3.04	20,364	2.76	659,435	89.56	2,026	0.27	32,566	4.42
1960	755,085	21,574	2.86	19,896	2.63	677,589	89.74	2,068	0.27	33,958	4.50

[1] Includes electric railways.
[2] Includes Great Lakes.
[3] Includes domestic commercial revenue service and private pleasure and business flying.

Source: Interstate Commerce Commission; *Annual Report*.

No. 775. Operating Revenues, by Transport Agency: 1940 to 1961

[Excludes Alaska and Hawaii, except as noted]

TRANSPORT AGENCY	1940	1945	1950	1955	1959	1960	1961 [1]
REVENUES ($1,000,000)							
Pullman Company	60	148	104	95	58	56	53
Electric railways [2]	53	87	79	60	25	23	22
Railway Express [3]	120	284	223	241	247	248	251
Railroads [4]	4,459	9,136	9,820	10,495	10,207	9,899	9,408
Waterlines [5]	113	173	330	452	430	427	384
Pipelines (oil)	226	304	442	678	765	770	773
Domestic scheduled air carriers [6]	77	215	558	1,215	1,955	2,129	2,234
Motor carriers of property	898	1,840	3,737	5,535	7,145	7,214	7,252
Motor carriers of passengers [7]	176	652	530	552	631	667	678
INDEX (1939=100)							
Railroads [4]	107.7	220.6	237.2	253.5	246.5	239.1	(8)
Pipelines (oil)	106.3	143.2	207.8	318.9	360.1	362.5	(8)
Domestic scheduled air carriers [6]	137.6	384.1	997.9	2,151.8	3,491.1	3,801.8	(8)
Motor carriers of property	109.4	177.5	471.7	698.7	901.9	910.6	(8)
Motor carriers of passengers	103.6	327.3	318.6	331.2	373.0	394.4	(8)

[1] 12 months ending June 30.
[2] Since December 31, 1958, the Chicago Tunnel and Chicago Tunnel Terminal Companies and 1 other electric railway have ceased business; 4 others have been reclassified as class II line-haul railways. The result is an overstatement of the electric railway decrease and slight understatement of the railroad decrease.
[3] After deducting payments to others for express privileges
[4] Includes line-haul and switching and terminal companies. Includes Alaskan and Hawaiian companies in 1960 only.
[5] Includes only revenues from domestic traffic of carriers subject to the jurisdiction of the Interstate Commerce Commission.
[6] Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*. Includes Hawaii, and beginning 1955, Alaska.
[7] Excludes motor-carrier revenues of electric railways, included under electric railways.
[8] Not available.

Source: Interstate Commerce Commission; *Annual Report; Statistics of Class I, II, and III Motor Carriers, 1939-1956* (Statement No. 589); and *Transport Economics*, except as noted.

No. 776. Indexes of Intercity Freight Traffic, 1940 to 1959, and of Average Freight Rates on Railroad Carload Traffic, 1948 to 1959

[Excludes Alaska and Hawaii]

YEAR	INDEXES OF INTERCITY TON-MILES (1939=100)			Index of average freight rates [3] (1950=100)
	Total, all carriers	All motor carriers [1]	Class I, II, and III motor carriers [2]	
1940	113.8	117.5	105.3	----------
1945	189.0	126.7	138.9	----------
1946	166.3	155.2	155.0	----------
1947	187.4	193.3	191.9	----------
1948	192.3	219.7	237.7	93
1949	168.5	239.7	243.8	99
1950	195.5	327.3	334.2	100
1951	216.7	355.9	368.0	102
1952	210.5	368.4	360.6	109
1953	221.5	411.1	389.4	111
1954	206.6	403.7	368.0	109
1955	234.6	422.7	422.0	108
1956	249.3	471.1	422.6	112
1957	245.7	481.2	429.6	118
1958	223.6	483.8	429.3	121
1959	238.3	546.2	516.0	118

[1] Private and for hire.
[2] Excludes local carriers, which probably account for less than 3 percent of total intercity ton-miles of class I, II, and III motor carriers.
[3] On railroad carload traffic.

Source: Interstate Commerce Commission; *Statistics of Class I, II, and III Motor Carriers, 1939-1956* (Statement No. 589), *Indexes of Average Freight Rates on Railroad Carload Traffic, 1948-1956*, and *1951-1958* (Statement R I-1), and *Intercity Ton-Miles, 1939-1959* (Statement No. 6103, April 1961).

No. 777. Railroads—Summary Statistics: 1930 to 1960

[As of December 31. Beginning 1960, includes Alaska and Hawaii. Includes intercorporate duplications. See also *Historical Statistics, Colonial Times to 1957*, series Q 44–124]

ITEM	1930	1940	1950	1956	1957	1958	1959	1960
Operating companies [1] ..... number	775	574	471	422	415	412	411	407
Road owned, first track [2] ..... miles	249,052	233,670	223,779	220,221	219,067	218,399	217,565	217,552
Miles operated: [3]								
Total, reporting railroads [4] ..... miles	429,883	405,975	396,380	389,668	386,978	385,264	383,912	381,745
Road, first track [4] ..... do	260,440	245,740	236,857	233,509	232,177	231,494	230,930	230,169
Other main tracks ..... do	42,742	41,373	40,456	37,908	37,123	36,448	35,746	34,800
Yard track and sidings ..... do	126,701	118,862	119,067	118,251	117,678	117,322	117,236	116,776
Miles of road operated by receivers or trustees	9,486	75,270	12,223	1,594	1,022	1,040	1,097	1,259
Equipment:								
Locomotives in service ..... number	60,189	44,333	42,951	32,593	32,391	31,616	31,539	31,178
Average tractive effort [5 6] ..... pounds	45,225	50,905	57,075	68,745	61,515	61,312	61,408	61,314
Cars in service:								
Passenger-train ..... number	53,584	38,308	37,359	30,817	29,564	28,999	27,419	25,746
Freight-train [7] ..... thousands	2,322	1,684	1,746	1,739	1,778	1,756	1,708	1,690
Average capacity [8] ..... tons	46.9	50.0	52.6	54.0	54.5	54.8	55.0	55.4
Capital and property investment: [8]								
Road and equipment, book value [9] mil. dol	26,051	25,646	30,174	33,714	34,615	34,934	35,158	35,513
Depreciation reserve [10] ..... do	2,361	3,095	6,629	7,543	7,801	8,043	8,296	8,532
Capital outstanding [11] ..... do	24,331	23,371	20,399	19,324	18,695	18,241	18,019	17,854
Net capitalization ..... do	19,066	17,630	15,618	15,285	14,682	14,529	14,287	14,150
Stock paying dividends ..... do	7,702	3,741	6,769	6,785	6,465	5,290	5,751	5,617
Dividends declared ..... do	603	217	349	476	466	445	432	412
Interest accrued on funded debt mil. dol	589	547	367	373	382	393	390	387
Income and expenses:								
Operating revenues ..... do	5,356	4,355	9,587	10,686	10,625	9,686	9,955	9,642
Operating expenses ..... do	3,994	3,132	7,135	8,200	8,322	7,631	7,797	7,657
Tax accruals ..... do	354	403	1,212	1,144	1,091	977	1,070	1,020
Operating income ..... do	1,008	820	1,240	1,342	1,213	1,078	1,088	964
Net income [8] ..... do	578	243	855	908	765	630	608	473
Passenger service:								
Passenger revenue ..... do	731	418	815	758	736	676	652	641
Passengers carried ..... millions	708	456	488	430	413	382	354	327
Passenger-miles [12] ..... do	26,876	23,816	31,790	28,216	25,914	23,295	22,075	21,284
Commutation ..... do	6,669	3,997	4,990	4,841	4,901	4,776	4,549	4,197
Coach ..... do	.....	12,485	17,443	17,074	15,803	14,225	13,749	13,422
Parlor and sleeping car ..... do	.....	7,288	9,338	6,275	5,185	4,249	3,773	3,643
Revenue per passenger-mile ..... cents	2.72	1.76	2.56	2.69	2.84	2.90	2.96	3.01
Average journey per passenger miles	37.96	52.22	65.14	65.62	62.80	61.04	62.42	65.05
Freight service:								
Freight revenue ..... mil. dol	4,145	3,584	7,934	9,089	9,064	8,193	8,442	8,152
Revenue tons originated millions	1,220	1,069	1,421	1,521	1,449	1,247	1,293	1,301
Tons carried one mile ..... do	385,815	375,369	591,550	651,188	621,907	554,534	578,637	575,360
Revenue ton-miles per mile of road, thousands	1,481	1,526	2,497	2,789	2,677	2,394	2,506	2,497
Revenue per ton-mile ..... cents	1.074	0.955	1.341	1.396	1.457	1.477	1.459	1.417
Haul per ton ..... miles	316.21	351.13	416.32	428.08	429.20	444.55	447.66	442.14
Number of employees, average thousands	1,517	1,046	1,237	1,058	999	853	828	793
Compensation of employees mil. dol	2,589	1,991	4,645	5,388	5,422	4,991	5,049	4,957
Accidents:								
Persons killed ..... number	5,665	4,740	3,486	2,578	2,393	2,311	2,094	2,248
Persons injured ..... do	49,443	29,606	33,267	28,676	18,688	19,343	19,909	19,577

[1] Line-haul operating.
[2] Excludes all duplications; also excludes some mileage in Canada.
[3] Includes some duplication under trackage rights and some mileage in Canada.
[4] Excludes circular and unofficial.
[5] 1930–1956 average for steam locomotives only; beginning 1957, all locomotives.
[6] Covers class I railroads, excluding switch and terminal companies. [7] Excludes caboose cars. [8] Includes lessors.
[9] Increase in investment over a period of years cannot be obtained accurately by subtraction of 1 year's investment from that of another owing to reorganization, sale or abandonment, reclassification, etc. Includes lessor companies and proprietary companies except those which are part of systems filing consolidated annual reports.
[10] For 1950 and later years, includes amortization of defense projects and proprietary companies.
[11] Comprises actually outstanding, nominally issued, and nominally outstanding securities, and equipment obligations. [12] Class I railroads.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1, and *Accident Bulletin*.

No. 778. Railroad Companies, by Class: 1960

[Includes Alaska and Hawaii. See text, p. 567, for explanation of class limits]

Class of company	Companies	Miles of road [1]		Equipment in service			Revenue freight originated [5] (mil. tons)	Net railway operating income ($1,000)
		Owned [2]	Operated [3]	Locomotives	Freight-train cars [4]	Passenger-train cars		
Total	842	217,552	230,815	31,178	1,709,549	25,746	1,301	624,875
Class I line-haul operating	106	188,097	220,228	29,080	1,676,629	25,655	1,241	584,016
Lessors to class I	128	16,381						
Class II line-haul operating	304	9,136	9,941	725	18,093	84	61	10,602
Lessors to class II	8	137						
Switching and terminal	[6] 221	(7)	(7)	1,373	14,827	7		30,257
Proprietary [8]	53	2,946						
Circular	21	839	646					
Unofficial	1	16						

[1] Single or first main track. [2] Excludes 162 miles in Canada.
[3] Includes 1,226 miles in Canada. [4] Includes caboose cars.
[5] Excludes switching and terminal companies.
[6] Includes operating, lessor, proprietary, circular, and unofficial companies. [7] Not comparable.
[8] Excludes those in systems which file consolidated reports combining mileage, investment, and other items on a net system basis.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

No. 779. Railroads—Equipment in Service: 1950 to 1960

[Beginning 1960, includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 53-65]

Item	1950	1955	1956	1957	1958	1959	1960
Locomotives	42,951	33,533	32,593	32,391	31,616	31,539	31,178
Steam	26,680	6,266	3,918	2,608	1,488	871	374
Electric	827	639	616	597	562	517	498
Diesel	15,396	26,563	28,001	29,137	29,515	30,097	30,240
Other	48	65	58	49	51	54	66
New units installed [1]	*3,215*	*1,097*	*1,210*	*1,015*	*346*	*855*	*389*
Freight cars [2]	1,745,778	1,723,747	1,738,631	1,777,557	1,755,775	1,708,116	1,690,396
Box	718,150	723,962	733,630	745,269	731,437	714,789	700,331
Gondola and hopper	874,801	845,809	850,579	875,519	871,081	840,802	831,473
Other	152,827	153,976	154,422	156,769	153,257	152,525	158,592
Aggregate capacity [1] ....1,000 tons	90,465	91,229	92,161	95,084	94,486	92,264	91,948
Average capacity [1] ....tons	52.6	53.7	54.0	54.5	54.8	55.0	55.4
New units installed [1]	40,032	29,070	55,682	82,427	34,120	42,507	54,032
Passenger-train cars	37,359	32,118	30,817	29,564	28,999	27,419	25,746
Coaches	16,488	13,543	12,867	12,328	11,934	11,121	10,287
Average seating capacity [1]	75	75	75	75	76	76	76
Baggage, express, and other non-passenger	13,817	13,388	11,146	10,873	10,672	10,244	10,077
Other	7,054	5,187	6,804	6,363	6,393	6,054	5,382
New units installed [1]	1,078	412	391	232	143	66	251
Air-conditioned cars [3]	16,747	14,784	14,551	14,323	13,675	12,993	11,787

[1] Class I railroads. [2] Excludes caboose cars. [3] Class I railroads and Pullman Company.

Source: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

No. 780. Railroads (Class I)—Fuel and Power Consumed and Rails and Ties Laid: 1950 to 1960

[No class I railroads in Alaska and Hawaii. Line-haul railroads only. See text, p. 567, for explanation of change in class limit beginning 1956. See also *Historical Statistics, Colonial Times to 1957*, series Q 128-137, for related data]

Item	1950	1955	1957	1958	1959	1960
Fuel and power consumed:						
Coal ....1,000 short tons	55,452	11,427	4,866	1,150	300	39
Fuel oil ....1,000,000 gal	2,284	376	89	67	82	89
Diesel oil ....do	1,827	3,393	3,536	3,382	3,484	3,472
Electricity ....1,000,000 kwh	2,260	2,082	2,025	1,806	1,748	1,641
Rails and ties laid:						
Rails (replacement and betterment) ....1,000 short tons	2,454	1,890	1,592	921	1,012	915
Ties (in previously constructed tracks):						
Crossties 1,000	30,494	24,149	22,082	16,030	16,423	14,319
Switch and bridge ties ....1,000 board ft	98,400	79,098	71,582	54,985	54,378	49,902

Source: Interstate Commerce Commission; *Annual Report*.

No. 781. Railroads—Miles of Road Owned, by States: 1940, 1950, and 1960

[As of December 31. Data are for actual length of line of each State without duplication]

STATE	1940	1950	1960
United States	234,398	224,371	217,552
New England	6,677	6,396	6,088
Maine	1,882	1,830	1,784
New Hampshire	1,002	936	854
Vermont	919	889	811
Massachusetts	1,793	1,726	1,633
Rhode Island	194	185	181
Connecticut	887	830	825
Middle Atlantic	20,175	19,180	17,469
New York	7,739	7,493	6,463
New Jersey	2,108	1,992	1,914
Pennsylvania	10,328	9,695	9,092
South Atlantic	29,475	27,924	27,362
Delaware	295	295	293
Dist. of Columbia	35	34	31
Maryland	1,367	1,309	1,141
Virginia	4,261	4,073	4,113
West Virginia	3,831	3,719	3,681
North Carolina	4,668	4,435	4,310
South Carolina	3,466	3,223	3,284
Georgia	6,334	6,043	5,854
Florida	5,218	4,793	4,655
East North Central	41,281	39,851	38,949
Ohio	8,501	8,418	8,322
Indiana	6,889	6,652	6,593
Illinois	11,949	11,643	11,201
Michigan	7,303	6,803	6,640
Wisconsin	6,639	6,335	6,193
West North Central	48,293	47,108	46,367
Minnesota	8,421	8,333	8,174
Iowa	8,950	8,585	8,561
W. N. Central—Con.			
Missouri	7,042	6,735	6,582
North Dakota	5,266	5,256	5,194
South Dakota	4,006	3,958	3,920
Nebraska	6,044	5,800	5,721
Kansas	8,564	8,441	8,215
East South Central	16,179	15,574	15,233
Kentucky	3,691	3,641	3,526
Tennessee	3,573	3,471	3,402
Alabama	4,996	4,723	4,646
Mississippi	3,919	3,739	3,659
West South Central	31,497	29,771	28,341
Louisiana	4,357	4,079	3,937
Texas	16,356	15,611	14,755
Oklahoma	6,302	5,977	5,777
Arkansas	4,482	4,104	3,872
Mountain	23,518	22,101	21,355
Montana	5,149	5,059	4,962
Wyoming	2,008	1,925	1,882
Colorado	4,552	4,273	3,786
New Mexico	2,812	2,496	2,473
Arizona	2,228	2,197	2,184
Utah	2,082	1,788	1,736
Nevada	1,941	1,650	1,647
Idaho	2,746	2,713	2,685
Pacific	17,303	16,466	16,388
Washington	5,243	5,124	4,987
Oregon	3,385	3,217	3,174
California	7,947	7,533	7,630
Alaska	536	567	572
Hawaii	192	25	25

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States*, and, for 1960, *Transport Statistics in the United States*, Part 1.

No. 782. Railroads (Class I)—Operating Revenues, Expenses, Income, and Capital Expenditures: 1950 to 1961

[In millions of dollars. No class I railroads in Alaska and Hawaii. See text, p. 567, for explanation of change in class limits beginning 1956. See also *Historical Statistics, Colonial Times to 1957*, series Q 103–117]

ITEM	1950	1955	1956	1957	1958	1959	1960	1961 (prel.)
Operating revenues	9,473	10,107	10,545	10,506	9,565	9,825	9,517	9,189
Freight	7,817	8,539	8,946	8,942	8,071	8,312	8,028	7,739
Passenger	813	743	757	735	675	651	640	625
Mail	374	287	287	292	328	330	331	342
Express	81	118	119	98	91	116	100	83
Other	387	420	437	440	399	416	417	401
Operating expenses	7,059	7,641	8,102	8,238	7,544	7,705	7,566	7,274
Maintenance	2,995	3,172	3,295	3,346	2,944	3,034	2,952	2,801
Way and structures	1,287	1,387	1,404	1,433	1,223	1,236	1,192	1,118
Equipment	1,708	1,785	1,892	1,913	1,720	1,798	1,760	1,683
Traffic	192	236	254	259	252	259	258	247
Transportation, rail line	3,491	3,768	4,040	4,102	3,834	3,888	3,833	3,711
Miscellaneous operations	110	108	111	104	92	86	82	77
General	271	357	401	427	422	438	441	438
Net revenue from railway operations	2,414	2,466	2,443	2,269	2,021	2,120	1,951	1,915
Tax accruals	1,195	1,081	1,121	1,070	957	1,048	999	991
Operating income	1,219	1,385	1,322	1,199	1,064	1,073	952	924
Net railway operating income	1,040	1,129	1,070	923	762	748	585	538
Ratio of expenses to revenues (percent)	74.5	75.6	76.8	78.4	78.9	78.4	79.5	79.2
Expenditures for capital improvements	1,065	908	1,227	1,395	738	818	919	646
Equipment	779	568	821	1,008	480	568	633	427
Roadway and structures	286	340	406	387	258	250	286	219

Source: Interstate Commerce Commission; *Annual Report*.

No. 783. Railroads (Class I)—Selected Freight Statistics: 1950 to 1961

[No class I railroads in Alaska and Hawaii. Excludes switching and terminal roads. Tons of 2,000 pounds. See text, p. 567, for explanation of change in class limits beginning 1956]

ITEM	1950	1955	1958	1959	1960	1961 (prel.)
Average miles of road operated	225,339	222,295	220,837	220,001	219,665	219,151
Operating revenue ... mil. dol.	7,817	8,538	8,071	8,312	8,029	7,739
Per ton-mile ... cents	1.33	1.37	1.46	1.45	1.40	1.37
Per ton per road ... dollars	3.04	3.25	3.66	3.63	3.51	3.52
Revenue tons:						
Originated ... millions	1,354	1,393	1,190	1,232	1,241	1,194
Carried ... do	2,570	2,625	2,204	2,290	2,287	2,199
Carried 1 mile ... do	588,578	623,615	551,539	575,418	572,321	563,304
Miles per revenue-ton per road (average haul)	229.0	237.6	250.2	251.3	250.2	256.2
Freight train miles ... millions	515	476	400	414	405	386
Freight train car-miles:						
Loaded, revenue and nonrevenue ... do	19,644	20,099	17,176	17,803	17,287	16,661
Empty ... do	10,140	11,054	10,883	10,786	10,872	10,545
Net ton-miles per train-mile [1]	1,224	1,374	1,430	1,443	1,466	1,508
Net ton-miles per loaded car-mile [1]	31.7	32.1	33.0	33.3	34.0	34.7
Train-miles per train-hour	16.8	18.6	19.2	19.5	19.5	19.9

[1] Revenue and nonrevenue freight.

No. 784. Railroads (Class I)—Revenue Freight Originated and Gross Freight Revenue, by Commodity Groups: 1950 to 1961

[No class I railroads in Alaska and Hawaii. Carload freight only, except as specified. See text, p. 567, for explanation of change in class limits beginning 1956. See also *Historical Statistics, Colonial Times to 1957*, series Q 73-80]

ITEM	1950	1955	1958	1959	1960	1961 (prel.)
REVENUE FREIGHT ORIGINATED (1,000 short tons)						
Total	1,354,196	1,396,339	1,190,353	1,232,201	1,240,789	1,193,502
Products of agriculture	129,175	133,790	146,746	145,531	150,350	153,927
Animals and their products	14,321	13,161	9,895	9,094	9,463	9,341
Products of mines	746,808	761,993	628,911	632,870	649,228	615,372
Coal and coke	420,296	394,394	343,897	343,740	337,792	325,936
Other	326,512	367,599	285,013	289,130	311,436	289,436
Products of forests	78,860	82,585	73,287	80,397	79,211	74,900
Manufactures and miscellaneous [1]	374,145	397,819	327,112	359,485	349,323	337,376
All less-than-carload freight	10,887	6,993	4,402	3,923	3,213	2,585
GROSS FREIGHT REVENUE ($1,000)						
Total	8,145,630	8,938,388	8,469,586	8,703,988	8,401,686	8,113,192
Products of agriculture	1,054,574	1,133,492	1,286,329	1,226,417	1,192,422	1,172,139
Animals and their products	275,858	294,402	246,555	243,211	229,200	217,367
Products of mines	1,993,687	2,121,426	1,985,404	1,977,773	1,969,462	1,862,803
Coal and coke	1,301,101	1,280,761	1,201,645	1,171,570	1,139,789	1,103,929
Other	692,586	840,665	783,759	806,203	829,673	758,874
Products of forests	580,836	686,821	646,069	707,958	650,722	627,462
Manufactures and miscellaneous [1]	3,887,762	4,421,336	4,092,838	4,364,702	4,206,988	4,108,307
All less-than-carload freight	352,913	280,912	212,391	183,927	152,891	125,113

[1] Includes forwarder traffic.

Source of tables 783 and 784: Interstate Commerce Commission; annual report, *Transport Statistics in the United States*, Part 1.

No. 785. Railroads (Class I)—Number of Cars of Revenue Freight Loaded, by Principal Commodities: 1940 to 1961

[In thousands. Figures are 52-week totals. No class I railroads in Alaska and Hawaii. See text, p. 567, for explanation of change in class limits beginning 1956]

YEAR	Total	Grain and grain products	Livestock	Coal	Coke	Forest products	Ore	Miscellaneous	Mdse., less than carload	Cars loaded with highway trailers
1940	36,358	1,835	685	6,820	549	1,800	2,148	14,842	7,679	----------
1945	41,918	2,734	894	8,296	695	2,039	2,474	19,258	5,529	----------
1950	38,903	2,466	491	7,240	727	2,226	2,529	18,955	4,269	----------
1955	37,636	2,633	441	6,508	616	2,275	2,846	19,087	3,230	168
1956	37,845	2,705	442	7,007	616	2,317	2,749	18,953	3,056	208
1957	35,500	2,674	343	6,749	575	1,995	2,863	17,551	2,750	249
1958	30,222	2,874	307	5,522	343	1,853	1,752	15,242	2,329	278
1959	31,015	2,725	300	5,426	411	2,050	1,665	16,326	2,112	417
1960	30,441	2,786	259	5,318	403	1,950	2,209	15,707	1,809	554
1961	28,584	2,845	223	5,085	345	1,868	1,739	15,026	1,453	591

Source: Association of American Railroads, Car Service Division, Washington, D.C.; annual report, *Cars of Revenue Freight Loaded*. Weekly reports are published currently.

No. 786. Railroads (Class I)—Selected Passenger Statistics: 1950 to 1961

[No class I railroads in Alaska and Hawaii. See text, p. 567, for explanation of change in class limits beginning 1956. See also *Historical Statistics, Colonial Times to 1957*, series Q 87–89]

ITEM	1950	1955	1959	1960	1961 (prel.)
Average miles of road operated	150,349	119,545	100,243	93,816	89,322
Passenger revenue ... $1,000	813,417	742,945	650,943	640,057	624,446
Revenue per passenger-mile:					
Including commutation passengers ... cents	2.56	2.60	2.95	3.01	3.08
Excluding commutation passengers ... do	2.46	2.70	3.00	3.03	3.08
Revenue passengers carried ... 1,000	486,194	431,999	352,310	325,677	310,899
Revenue passenger-miles ... millions	31,760	28,523	22,051	21,261	20,287
Revenue passenger-miles per train-mile	88.5	95.2	97.6	100.9	101.7
Revenue passenger-miles per car-mile	17.0	17.8	18.9	19.3	19.7
Average journey per passenger per road ... miles	65.3	66.1	62.6	65.3	64.0
Passenger-train miles ... 1,000	357,618	298,602	225,889	210,635	199,378
Passenger-carrying car-miles ... do	1,854,737	1,570,916	1,166,916	1,101,021	1,028,053
Train-miles per train-hour	37.4	39.8	40.3	40.7	40.9

Source: Interstate Commerce Commission; *Annual Report*, and *Transport Statistics in the United States*, Part 1.

No. 787. Railroads—Number and Compensation of Employees: 1930 to 1961

[Beginning 1960, Alaska and Hawaii included in "All operating carriers." Excludes switching and terminal roads. See also *Historical Statistics, Colonial Times to 1957*, series Q 141–142]

YEAR	ALL OPERATING CARRIERS		CLASS 1 CARRIERS [1]					
	Average number of employees	Total yearly compensation ($1,000)	Average number of employees	Total hours (1,000)	Total yearly compensation ($1,000)	Average hours per employee	Average compensation: Per hour [2]	Average compensation: Per year
1930	1,517,043	2,588,598	1,487,839	3,759,772	2,550,780	2,527	$0.678	$1,714
1935	1,013,654	1,666,229	994,371	2,397,353	1,643,879	2,411	.686	1,653
1940	1,045,738	1,990,631	1,026,848	2,615,905	1,964,125	2,548	.751	1,913
1945	1,438,545	3,900,928	1,419,505	3,979,637	3,862,001	2,804	.970	2,721
1950	1,236,879	4,644,890	1,220,401	2,876,591	4,594,423	2,357	1.597	3,765
1955	1,071,387	5,045,278	1,057,866	2,502,608	4,992,235	2,366	1.995	4,719
1956	1,058,053	5,387,631	1,042,664	2,466,745	5,324,672	2,366	2.159	5,107
1957	998,880	5,422,080	986,001	2,314,976	5,358,044	2,348	2.315	5,434
1958	853,106	4,990,638	840,575	1,980,583	4,929,906	2,356	2.489	5,865
1959	827,716	5,048,524	815,474	1,924,500	4,986,253	2,360	2.591	6,115
1960	793,071	4,956,902	780,494	1,840,590	4,893,558	2,358	2.659	6,270
1961 (prel.)	(3)	(3)	717,543	1,698,704	4,623,982	2,367	2.722	6,444

[1] See text, p. 567, for explanation of change in class limits beginning 1956.
[2] Calculated for all classes of employees, including those not paid on an hourly basis.
[3] Not available.

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States* and, beginning 1955, *Transport Statistics in the United States*, Part 1.

No. 788. Pullman Company Operations: 1930 to 1961

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 138–140]

YEAR	Average miles of road over which operations conducted	Revenue-passenger miles [1] (millions)	Employees, annual average	YEAR	Average miles of road over which operations conducted	Revenue-passenger miles [1] (millions)	Employees, annual average
1930	129,578	12,516	26,165	1956	87,472	6,630	16,793
1935	112,117	7,146	20,436	1957	85,068	5,388	14,890
1940	109,595	8,214	20,877	1958	79,555	4,300	10,234
1945	95,765	27,276	41,601	1959	71,448	3,462	8,020
1950	102,722	10,558	22,820	1960	67,467	3,358	7,320
1955	89,124	6,882	18,061	1961	63,035	3,046	6,688

[1] Beginning 1940, includes operations on Canadian and Mexican railroads; excludes chartered car operations.

Source: Interstate Commerce Commission; annual reports, *Statistics of Railways in the United States* and, beginning 1955, *Transport Statistics in the United States*, Part 2.

No. 789. Railroad Accidents—Number of Persons Killed and Injured, by Status: 1921 to 1961

[As of December 31. Beginning 1960, includes Alaska and Hawaii. Covers all reportable accidents, including those due to suicide, mental derangement, and attempt to escape custody. For various reasons, including fact that returns were required under different acts, statistics are not strictly comparable. Accidents causing damage to railroad property in following amounts, with or without a casualty, were classified as train accidents for years specified: 1921–1947, over $150; 1948, over $250; 1949–1950, $275 or over; 1951, $300 or over; 1952, $325 or over; and beginning 1953, $350 or over. Accidents causing damage less than amounts specified and with a reportable casualty were classified as train-service accidents. See also *Historical Statistics, Colonial Times to 1957*, series Q 143–152]

Yearly average or year	Total		Passengers [1]		Employees		Trespassers		Other persons	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
1921–1925	6,618	141,688	173	5,578	1,654	123,790	2,566	2,901	2,225	9,420
1926–1930	6,623	89,543	101	3,667	1,395	73,522	2,521	2,532	2,606	9,822
1931–1935	5,127	29,834	38	1,995	589	18,222	2,688	3,087	1,811	6,529
1936–1940	4,987	31,292	56	2,533	613	19,765	2,452	2,111	1,866	6,883
1941–1945	5,060	53,813	174	4,274	989	41,223	1,838	1,278	2,059	7,038
1946–1950	3,918	41,868	97	3,706	598	30,778	1,446	1,141	1,777	6,243
1951–1955	2,969	29,411	55	2,447	336	20,401	1,012	926	1,566	5,637
1950	3,486	33,267	180	3,419	392	22,586	1,245	1,133	1,669	6,129
1953	3,039	29,214	49	2,503	343	20,170	1,076	964	1,571	5,577
1954	2,575	25,547	30	2,247	235	17,219	911	900	1,399	5,181
1955	2,849	27,846	24	2,253	282	19,011	897	817	1,646	5,765
1956	2,578	28,676	57	2,756	288	19,608	839	877	1,394	5,435
1957	2,393	18,688	15	1,566	195	12,246	742	617	1,441	4,259
1958	2,311	19,343	61	1,628	187	13,305	711	660	1,352	3,750
1959	2,094	19,909	10	1,352	178	14,203	641	619	1,265	3,735
1960	2,248	19,577	32	1,463	198	13,710	617	564	1,401	3,840
1961 (prel.)	2,127	27,118	17	1,887	145	20,194	624	678	1,341	4,359

[1] Data cover passengers on trains and travelers not on trains. Casualties sustained in nontrain accidents included with "Other persons."

Source: Interstate Commerce Commission; annual report, *Accident Bulletin*.

No. 790. Highway Grade Crossings and Accidents at Highway Grade Crossings—Total and Automobile Casualties: 1935 to 1961

[Beginning 1960, includes Alaska and Hawaii. Covers all railroads, except as noted. Excludes casualties due to suicide, mental derangement, and attempt to escape custody. See also headnote, table 789. See also *Historical Statistics, Colonial Times to 1957*, series Q 125–127]

Year	Highway grade crossings [1]			Accidents					
					All persons		Involving automobiles [3]		
	Total	Specially protected [2]	Eliminated during year by separation of grades	Number	Number killed	Number injured	Persons killed	Persons injured	Total casualties per 10,000 automobiles registered
1935	234,231	30,200	164	3,938	1,680	4,658	1,442	4,434	2.24
1940	230,285	32,421	209	4,104	1,808	4,632	1,576	4,430	1.88
1945	226,153	33,321	7	4,100	1,903	4,446	1,577	4,126	1.86
1950	227,364	35,968	61	4,000	1,576	4,368	1,393	4,206	1.15
1953	227,110	37,990	53	3,675	1,494	3,815	1,319	3,688	0.90
1954	226,522	38,528	80	3,336	1,303	3,426	1,151	3,314	0.76
1955	226,318	39,060	84	3,846	1,446	4,014	1,313	3,886	0.83
1956	224,519	39,324	72	3,639	1,338	3,755	1,202	3,629	0.74
1957	223,381	39,884	113	3,569	1,371	3,767	1,217	3,613	0.72
1958	225,938	41,155	78	3,099	1,271	3,161	1,129	3,026	0.61
1959	225,394	41,720	130	3,075	1,203	3,247	1,055	3,123	0.59
1960	224,513	42,267	102	3,195	1,364	3,424	1,254	3,277	0.61
1961 (prel.)	(4)	(4)	(4)	3,204	1,291	3,514	1,168	3,288	0.59

[1] Class I railroads only.
[2] Includes crossings with operated gates or watchmen, or both, during at least part of day, and those with audible or visible signals, or both. Excludes those with fixed signs only.
[3] Includes passenger automobiles, motortrucks, and motorbuses. [4] Not available.

Source: Interstate Commerce Commission; annual reports, *Accident Bulletin*, *Statistics of Railways in the United States*, and, beginning 1954, *Transport Statistics in the United States*, Part 1.

No. 791. Transit Industry—Summary: 1935 to 1960

[Calendar years except as noted. Beginning 1960, includes Alaska and Hawaii. Comprises all organized local passenger transportation agencies except taxicabs, suburban railroads, and sightseeing and school buses. Covers (a) local motorbus lines, (b) electric street railways, (c) elevated and subway lines, (d) interurban electric railways and (e) trolley coach lines. Based on financial and statistical reports received by American Transit Association from transit companies representing more than 85 percent of the industry. See also *Historical Statistics, Colonial Times to 1957*, series Q 330-340]

ITEM	1935	1940	1945	1950	1955	1957	1958	1959	1960
Operating companies	(1)	(1)	1,253	1,406	1,483	1,324	1,300	1,272	1,251
Motorbus companies [2]	(1)	(1)	1,164	1,354	1,450	1,304	1,282	1,255	1,236
Miles of route operated (Dec. 31):									
Electric railway—miles of single track	26,700	19,602	17,702	10,813	6,197	5,019	4,145	4,051	3,935
Surface	25,470	18,360	16,480	9,590	4,976	3,774	2,901	2,806	2,692
Subway and elevated	1,230	1,242	1,222	1,223	1,221	1,245	1,244	1,245	1,243
Trolley coach—miles of negative overhead wire	548	1,925	2,313	3,513	3,428	3,007	2,723	2,491	2,196
Motorbus—miles of route round trip	58,100	78,000	90,400	98,000	99,800	102,400	104,500	106,300	108,700
Passenger vehicles owned (Dec. 31)	74,844	75,464	89,758	86,310	73,089	68,971	67,149	65,780	65,292
Electric railway cars	50,466	37,662	36,377	22,986	14,532	12,759	12,201	11,983	11,866
Surface	40,050	26,630	26,160	13,228	5,300	3,601	3,108	2,983	2,856
Subway and elevated	10,416	11,032	10,217	9,758	9,232	9,158	9,093	9,000	9,010
Trolley coaches	578	2,802	3,711	6,504	6,157	5,412	4,848	4,297	3,826
Motorbuses	23,800	35,000	49,670	56,820	52,400	50,800	50,100	49,500	49,600
Investment (Dec. 31) ... mil. dol.	(1)	4,096	4,262	3,918	3,821	3,793	3,781	3,854	3,937
Electric railway ... do	(1)	3,588	3,620	3,060	2,902	2,870	2,870	2,938	3,003
Surface ... do	(1)	1,574	1,570	913	616	485	373	378	367
Subway and elevated ... do	(1)	2,014	2,050	2,147	2,286	2,385	2,497	2,560	2,636
Trolley coach ... do	(1)	58	76	144	160	143	139	125	117
Motorbus ... do	(1)	450	566	714	759	780	772	791	817
Operating finances:									
Operating revenue ... do	681	737	1,380	1,452	1,426	1,386	1,350	1,376	1,407
Electric railway ... do	520	456	710	578	440	383	366	365	369
Surface ... do	388	328	560	362	176	115	99	93	88
Subway and elevated ... do	132	128	149	216	264	268	267	272	282
Trolley coach ... do	6	25	68	122	131	116	103	91	82
Motorbus ... do	156	256	603	752	856	886	881	920	956
Operating expenses ... do	535	508	1,067	1,297	1,277	1,262	1,266	1,266	1,290
Percent of revenue	78.50	81.14	77.31	89.30	89.55	91.05	93.80	91.99	91.66
Net revenue ... mil. dol.	146	139	313	155	149	124	84	110	117
Taxes (all) ... do	50	63	165	89	93	87	77	85	87
Operating income ... do	96	76	149	66	56	37	7	26	31
Percent of revenue	14.09	10.35	10.77	4.57	3.91	2.64	0.49	1.86	218
Revenue vehicle-miles operated millions	2,312	2,596	3,254	3,008	2,448	2,290	2,201	2,159	2,143
Electric railway ... do	1,586	1,316	1,398	907	561	495	476	470	466
Surface ... do	1,148	845	940	463	178	107	90	81	75
Subway and elevated ... do	439	471	458	443	383	388	387	389	391
Trolley coach ... do	15	86	133	206	177	147	131	112	101
Motorbus ... do	711	1,195	1,722	1,895	1,710	1,648	1,594	1,577	1,576
Passengers carried ... do	12,226	13,098	23,254	17,246	11,529	10,389	9,732	9,557	9,395
Electric railway ... do	9,512	8,325	12,124	6,168	3,077	2,522	2,387	2,349	2,313
Surface ... do	7,276	5,943	9,426	3,904	1,207	679	572	521	463
Subway and elevated ... do	2,236	2,382	2,698	2,264	1,870	1,843	1,815	1,828	1,850
Trolley coach ... do	96	534	1,244	1,658	1,202	993	843	749	657
Motorbus ... do	2,618	4,239	9,886	9,420	7,250	6,874	6,502	6,459	6,425
Revenue passengers carried ... do	9,782	10,504	18,982	13,845	9,189	8,338	7,778	7,650	7,521
Electric railway ... do	7,409	6,464	9,636	4,903	2,586	2,197	2,050	2,025	2,005
Surface ... do	5,156	4,183	7,081	2,790	845	491	415	378	335
Subway and elevated ... do	2,252	2,282	2,555	2,113	1,741	1,706	1,635	1,647	1,670
Trolley coach ... do	77	419	1,001	1,261	869	703	593	517	447
Motorbus ... do	2,297	3,620	8,345	7,681	5,734	5,438	5,135	5,108	5,069
Number of employees (average)	209,000	203,000	242,000	240,000	198,000	177,000	165,000	159,100	156,400
Electric railway	164,000	123,000	129,200	90,900	66,000	54,500	49,000	47,700	46,500
Trolley coach	1,000	6,000	8,500	15,400	16,000	13,500	12,000	10,700	9,400
Motorbus	44,000	74,000	104,300	133,700	116,000	109,000	104,000	100,700	100,500
Payroll ... mil. dol.	321	360	632	835	864	840	831	832	857
Average annual earnings per employee ... dollars	1,536	1,773	2,612	3,479	4,364	4,746	5,036	5,229	5,481

[1] Not available.
[2] Comprises companies operating motor buses exclusively and companies with combined services such as trolley coach and motorbus, etc.

Source: American Transit Association, New York, N.Y.; annual report, *Transit Fact Book*.

No. 792. Class I Intercity Motor Carriers of Property—Summary of Financial and Operating Statistics: 1950 to 1960

[All money figures in thousands of dollars, except averages. Excludes Alaska and Hawaii. See text, p. 567, for explanation of change in class limits beginning 1957]

ITEM	1950	1955	1958	1959	1960
Number of carriers reporting	1,621	2,244	866	890	935
Investment in carrier operating property	747,756	1,514,971	1,595,711	1,823,708	1,991,725
Reserve for depreciation and amortization	309,430	735,704	801,231	903,236	997,822
Income statement:					
Operating revenue	2,379,713	4,030,291	3,851,305	4,590,312	4,763,288
Common carrier	2,180,779	3,621,933	3,581,070	4,261,388	4,384,109
Contract carrier	143,771	294,444	167,611	202,373	238,583
Other operating revenue	55,164	113,914	102,624	126,551	140,596
Expenses	2,215,006	3,869,852	3,723,222	4,391,553	4,644,707
Operation and maintenance expenses	1,968,089	3,496,521	3,337,157	3,954,615	4,151,116
Depreciation and amortization [1]	84,497	157,107	171,224	178,989	202,361
Operating taxes and licenses [2]	103,408	216,134	214,841	257,949	291,229
Operating rents, net	59,012	(3)	(3)	(3)	(3)
Operating ratio (percent expenses of operating revenue)	93.1	96.0	96.7	95.7	97.5
Net operating revenue	164,707	160,439	128,083	198,759	118,581
Lease of distinct operating unit, net	*540*	*979*	*730*	*1,788*	*1,350*
Other income, less income deductions	*5,608*	*13,763*	*24,349*	*29,414*	*36,197*
Net income before income taxes	158,565	145,697	103,004	167,557	81,034
Net income after income taxes	92,682	82,213	54,343	91,937	37,110
Dividend appropriations and withdrawals [4]	23,482	28,547	17,051	24,472	24,466
Operating statistics and averages:					
Owned revenue vehicles [5]	191,243	288,668	243,080	265,090	279,305
Intercity vehicle-miles ... millions	5,352	7,559	6,101	7,085	7,203
Tons of intercity revenue freight carried [6] ... 1,000	212,997	313,583	232,162	268,356	275,518
Miles per owned vehicle	53,833	53,008	56,736	61,696	59,590
Revenue per vehicle-mile (intercity)	$0.434	$0.518	$0.614	$0.630	$0.642
Expense per vehicle-mile (intercity) [7]	$0.414	$0.512	$0.610	$0.620	$0.645

[1] Amortization represents a very small part of this total. [2] Excludes Federal and State income taxes.
[3] Not available. [4] Withdrawals of sole proprietors and partners.
[5] Excludes equipment used under lease, including operations conducted under "purchased transportation" arrangements.
[6] Includes duplications on account of tonnage received from connecting motor carriers.
[7] Basic figures include expenses of operating vehicles in local services not available separately.

No. 793. Class I Intercity Motor Carriers of Property—Selected Operating Statistics, by Regions: 1959 and 1960

[Excludes Alaska and Hawaii. See text, p. 567, for explanation of change in class limits, beginning 1957. Regions: 1, Conn., Maine, Mass., N.H., R.I., Vt.; 2, Del., D.C., Md., N.J., N.Y., Pa., W. Va.; 3, Ill., Ind., Mich. (Lower Pen.), Ohio; 4, Ala., Fla., Ga., Ky., Miss., N.C., S.C., Tenn., Va.; 5, Mich. (Upper Pen.), Minn., N. Dak., S. Dak., Wis.; 6, Iowa, Kans., Mo., Nebr.; 7, Ark., La., Okla., Tex.; 8, Colo., Idaho, Mont., N. Mex., Utah, Wyo.; 9, Ariz., Calif., Nev., Oreg., Wash.]

REGION AND YEAR	Number of carriers reporting	Operating revenue ($1,000)	Total expenses ($1,000)	OWNED REVENUE VEHICLES [1]				Intercity vehicle-miles (millions)	EMPLOYEES [2]	
				Trucks	Truck-tractors	Semi-trailers	Full trailers		Average number	Compensation ($1,000)
1959	890	4,590,312	4,391,553	30,023	83,843	148,209	3,015	7,085	317,606	1,999,923
1. New England	54	167,598	162,464	1,800	3,525	5,502	-------	176	14,320	85,353
2. Middle Atlantic	161	712,353	687,827	4,955	13,880	25,881	56	942	53,937	327,447
3. Central	263	1,557,780	1,496,604	4,606	24,961	46,907	700	2,507	94,243	628,721
4. Southern	129	652,385	619,678	5,230	13,689	22,349	3	1,136	50,302	295,555
5. Northwestern	44	190,808	185,949	1,376	4,197	7,019	-------	261	14,919	94,522
6. Midwestern	60	298,782	288,648	1,725	5,632	10,624	38	489	19,157	124,084
7. Southwestern	70	389,455	364,369	3,623	7,524	10,736	22	693	28,414	171,064
8. Rocky Mountain	31	211,407	195,261	1,478	3,031	5,541	315	344	13,603	87,811
9. Pacific	78	409,745	390,754	5,221	7,404	13,650	1,881	536	28,711	185,367
1960	935	4,763,288	4,644,707	30,560	87,933	157,657	3,155	7,203	326,626	2,103,054
1. New England	60	178,720	177,223	1,882	3,586	5,803	-------	187	15,638	94,052
2. Middle Atlantic	172	762,995	747,227	5,228	14,793	27,370	163	1,014	56,477	353,800
3. Central	276	1,598,497	1,566,038	4,492	25,370	48,659	737	2,485	95,331	643,687
4. Southern	135	670,549	652,382	5,673	14,726	24,655	-------	1,161	51,628	310,104
5. Northwestern	47	204,083	200,616	1,371	4,729	7,548	-------	294	15,668	101,986
6. Midwestern	63	304,568	298,623	1,775	5,703	10,703	37	482	19,446	129,167
7. Southwestern	73	380,149	363,633	3,169	7,346	10,931	17	665	28,487	169,568
8. Rocky Mountain	28	210,754	198,097	1,620	3,280	6,288	335	325	13,403	90,444
9. Pacific	81	452,973	440,866	5,350	8,400	15,610	1,866	590	30,548	210,246

[1] See footnote 5, table 792. [2] Excludes drivers of equipment engaged to perform "purchased transportation" service.

Source of tables 792 and 793. Interstate Commerce Commission; annual reports, *Statistics of Class I Motor Carriers*, and, beginning 1955, *Transport Statistics in the United States*, Part 7.

No. 794. Class I Intercity Motor Carriers of Passengers—Summary of Financial and Operating Statistics: 1950 to 1960

[All money figures in thousands of dollars, except average fare and revenue and expense per vehicle-mile. Excludes Alaska and Hawaii. See headnote, table 792. Excludes carriers subject to ICC jurisdiction engaged preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers]

ITEM	1950	1955	1958	1959	1960
Number of carriers reporting	172	146	136	143	143
Investment in carrier operating property	286,000	372,801	432,326	441,194	465,102
Reserve for depreciation and amortization	144,489	197,076	225,050	242,803	257,397
Income statement:					
Operating revenue	350,751	361,644	409,733	439,127	463,115
Passenger revenue [1]	324,529	314,759	345,060	365,386	381,663
Special bus revenue	11,694	22,346	30,088	32,587	36,016
Other operating revenue	14,528	24,539	34,585	41,154	45,436
Expenses	314,773	330,598	366,087	380,254	405,393
Operation and maintenance expenses	254,905	269,660	301,093	313,016	333,775
Depreciation and amortization [2]	27,188	27,117	29,418	28,825	29,273
Operating taxes and licenses [3]	28,649	30,347	31,553	33,571	36,347
Operating rents, net	4,030	3,474	4,023	4,844	5,998
Operating ratio (percent expenses of operating revenue)	89.7	91.4	89.4	86.6	87.5
Net operating revenue	35,978	31,046	43,646	58,873	57,722
Lease of carrier property, net	*100*	*33*	*83*	*108*	*127*
Other income, less income deductions	*756*	*1,695*	*2,856*	*1,779*	*2,781*
Net income before income taxes	35,121	29,319	40,708	56,986	54,815
Net income after income taxes	18,908	15,570	19,834	28,694	28,231
Dividend appropriations and withdrawals [4]	16,088	28,345	4,620	3,933	3,365
Operating statistics and averages:					
Passenger vehicles owned, end of year	13,200	11,547	10,791	10,763	10,946
Vehicle-miles of owned and leased passenger vehicles [5] 1,000	958,530	850,207	815,927	810,455	843,239
Number of revenue passengers carried, total do	389,898	293,244	228,529	251,214	267,507
Miles per vehicle [6]	65,411	64,128	63,574	65,375	65,567
Average fare per passenger, per carrier, intercity service	$1.010	$1.370	$1.913	$2.001	$2.124
Passenger revenue per vehicle-mile, regular route intercity	$0.346	$0.381	$0.454	$0.484	$0.487
Expense per vehicle-mile [7]	$0.328	$0.384	$0.449	$0.469	$0.481

[1] Regular route intercity and local revenue. [2] Amortization represents a very small part of this total.
[3] Excludes Federal and State income taxes. [4] Withdrawals of sole proprietors and partners.
[5] Includes bus-miles of vehicles operated under "purchased transportation" arrangements.
[6] Averages for owned and leased vehicles. [7] See footnote 7, table 792.

No. 795. Class I Intercity Motor Carriers of Passengers—Selected Operating Statistics, by Regions: 1959 and 1960

[Excludes Alaska and Hawaii. See headnote, table 794; for description of regions, see headnote, table 793]

REGION AND YEAR	Number of carriers reporting	Operating revenue ($1,000)	Total expenses ($1,000)	PASSENGER VEHICLES		REGULAR-ROUTE INTERCITY			EMPLOYEES	
				Total [1]	Intercity [2]	Vehicle-miles (1,000)	Revenue passengers carried (1,000)	Average fare per passenger, per carrier	Average number	Compensation ($1,000)
1959	143	439,127	380,254	11,925	10,856	710,103	171,904	$2.001	33,454	183,759
1. New England	10	7,735	7,570	292	245	13,444	5,470	1.113	707	3,471
2. Middle Atlantic	36	48,522	45,785	1,773	1,202	56,471	28,359	1.074	4,130	20,866
3. Central	25	71,496	63,554	1,747	1,581	110,228	32,537	1.828	5,429	30,080
4. Southern	21	104,170	87,566	2,666	2,646	181,178	46,359	1.843	7,565	39,722
5. Northwestern	5	42,686	37,017	964	964	67,036	13,655	2.519	3,442	21,362
6. Midwestern	6	8,059	7,646	421	421	17,101	2,120	2.691	571	2,856
7. Southwestern	23	67,249	57,051	2,139	2,123	128,984	22,229	2.432	5,236	26,946
8. Rocky Mountain	9	5,571	4,947	317	316	10,644	1,931	2.072	487	2,341
9. Pacific	8	83,641	69,119	1,606	1,358	125,017	19,244	3.342	5,887	36,115
1960	143	463,115	405,393	12,680	11,142	728,873	166,997	2.124	34,514	196,152
1. New England	10	15,604	14,748	734	247	14,481	5,288	1.359	1,599	7,957
2. Middle Atlantic	36	51,600	48,340	1,773	1,280	60,277	28,454	1.170	3,970	21,438
3. Central	24	97,963	85,167	2,118	2,034	146,040	38,923	2.086	7,683	44,168
4. Southern	20	100,904	85,633	2,442	2,431	173,612	42,049	1.934	7,094	38,785
5. Northwestern	4	1,875	1,596	79	79	3,577	506	2.331	116	629
6. Midwestern	9	61,781	53,643	1,338	1,278	104,402	15,865	3.161	4,147	25,521
7. Southwestern	23	43,450	38,698	2,114	2,081	90,132	14,991	2.178	3,477	16,917
8. Rocky Mountain	9	6,556	5,942	300	299	12,325	2,054	2.258	550	2,730
9. Pacific	8	83,383	71,625	1,782	1,413	124,029	18,867	3.348	5,878	38,007

[1] Comprises average number operated in intercity service during year and number owned in local operations at close of year.
[2] Comprises vehicles owned, leased, and operated under "purchased transportation" arrangements, operated in intercity revenue service.

Source of tables 794 and 795: Interstate Commerce Commission; annual reports, *Statistics of Class I Motor Carriers*, and, beginning 1955, *Transport Statistics in the United States*, Part 7.

No. 796. Summary of Civil Flying: 1940 to 1961

[As of Dec. 31 or for year ending Dec. 31. Includes Alaska and Hawaii, except as noted. General aviation flying excludes civil flying performed by public carriers—scheduled, supplemental, contract, or intrastate. See also *Historical Statistics, Colonial Times to 1957*, series Q 376–383 and Q 394–397]

ITEM	1940	1950	1955	1958	1959	1960	1961
Miles of Federal airways [1]	32,100	70,253	148,979	182,575	176,934	178,924	135,447
Equipped with low/medium frequency radio aids	32,100	70,253	67,770	57,705	47,302	36,879	14,543
Equipped with very high frequency radio aids			81,209	124,870	129,632	142,045	120,904
Total civil aircraft [1 2]	17,928	92,809	85,320	98,893	105,309	111,580	(3)
Active aircraft	(3)	60,921	60,432	69,718	70,747	78,760	(3)
Hours flown (general aviation) [4] ... 1,000	3,200	9,650	9,500	11,700	12,000	12,203	(3)
Business [5] ... do	314	2,750	4,300	5,300	5,700	5,300	(3)
Commercial [6] ... do	387	1,500	1,950	2,200	2,300	2,200	(3)
Instructional ... do	1,529	3,000	1,275	2,000	2,000	1,700	(3)
Pleasure ... do	970	2,300	1,975	2,200	2,400	2,950	(3)
Other ... do		100				53	(3)
Miles flown (general aviation) [4] ... 1,000	264,000	1,061,500	1,216,000	1,544,000	1,649,000	1,645,000	(3)
Business [5] ... do	25,910	339,700	627,800	787,000	855,000	811,000	(3)
Commercial [6] ... do	31,961	180,500	245,700	278,000	291,000	281,000	(3)
Instructional ... do	126,264	286,600	120,650	216,000	216,000	184,000	(3)
Pleasure ... do	79,865	244,100	221,850	263,000	287,000	362,000	(3)
Other ... do		10,600				7,000	(3)
Fuel consumed (general aviation): [4]							
Gasoline ... 1,000 gal	22,400	131,200	190,000	227,000	249,000	268,160	(3)
Oil ... do	660	2,916	3,450	3,700	4,060	4,325	(3)
Certificated airplane pilots	69,829	(3)	643,201	731,078	758,368	783,232	(3)
Airline transport	1,431	(3)	13,700	18,303	19,364	20,985	(3)
Commercial	18,791	(3)	211,142	245,541	255,377	262,437	(3)
Private	49,607	(3)	418,359	467,234	483,627	499,810	(3)
Other certificated airmen:							
Glider pilots	138	(3)	3,659	4,271	4,592	4,974	(3)
Mechanics	11,177	(3)	91,001	107,072	113,520	115,688	(3)
Parachute riggers	444	(3)	2,859	2,543	2,835	2,936	(3)
Ground instructors	1,948	(3)	27,080	28,306	30,179	29,421	(3)
Aids to air navigation (Federal airways): [1]							
Radio range stations	292	749	768	885	983	1,030	1,042
Low/medium frequency	290	378	344	329	322	305	282
Very high frequency	2	371	424	556	661	725	760
Nondirectional radio beacons	48	141	175	191	191	190	176
Airport towers		172	100	128	139	153	184
Airways centers	11	31	31	32	33	35	36
Combined station/towers			75	84	83	75	70
Flight service stations	365	451	364	345	332	335	338
Instrument landing systems	1	96	157	171	174	191	195
Airports in operation [7]	2,331	6,403	6,839	[1] 6,018	6,426	6,881	7,715
General [8]			2,713	[1] 2,932	2,949	3,026	3,274
Limited and restricted [8]			4,126	[1] 3,086	3,477	3,855	4,441
Lighted airports	776	1,670	1,247	[1] 1,809	1,943	2,133	2,299
Aircraft accidents (general aviation) [9]	3,471	4,505	3,343	4,264	4,576	4,540	4,650
Aircraft destroyed	433	1,527	798	780	1,178	(3)	(3)
Substantial damage	2,505	2,947	2,509	3,462	3,369	(3)	(3)
Minor and no damage	533	31	36	22	29	(3)	(3)
Degree of injury to persons in aircraft accidents (general aviation):							
Fatal	359	871	619	688	823	835	794
Severe	327	546	347	308	449	(3)	(3)
Minor and no injury	4,744	6,263	4,974	6,661	3,304	(3)	(3)

[1] United States (including Alaska and Hawaii) and outlying areas.
[2] Includes gliders.
[3] Not available. [4] Beginning 1960, includes Alaska and Hawaii.
[5] Corporation and individual business transportation, not for hire.
[6] Passenger and cargo transportation for hire, aerial application (crop dusting, spraying, seeding, etc.), patrol, survey, and other miscellaneous work use.
[7] Existing airports and airfields recorded with FAA. "Limited" includes seaplane bases and heliports.
[8] See footnote 2, table 806, for current definitions.
[9] Detail shown is number of accidents. 1960 and 1961 figures are preliminary.

Source: Federal Aviation Agency and Civil Aeronautics Board. Published in *FAA Statistical Handbook of Aviation*.

No. 797. Scheduled Air Carriers—Summary of Operations: 1940 to 1961

[As of Dec. 31 or for year ending Dec. 31, except as noted. Beginning 1955, includes Alaska. Data for domestic air carriers include Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 352–362 and Q 384–393]

ITEM	1940	1945	1950	1955	1959	1960	1961
Number of operators:							
Domestic	19	20	38	38	37	39	38
International	3	4	12	17	18	18	17
Route miles in operation [1]	95,079	87,401	183,841	196,274	232,695	235,139	244,125
Domestic [2]	42,757	48,516	77,440	78,992	96,665	98,330	104,719
International [3]	52,322	38,885	106,401	117,282	136,030	136,809	139,406
Aircraft in service	437	518	1,120	1,409	1,803	1,808	1,767
Domestic	369	421	960	1,246	1,630	1,634	1,611
Single-engine		11	29	23	23	25	23
Twin-engine		405	571	675	659	638	607
Four-engine		5	360	548	948	971	981
International	68	97	160	163	173	174	156
Twin-engine		71	35	32	20	16	14
Four-engine		26	125	131	153	158	142
Average available seats: [4]							
Domestic	16.54	19.68	37.47	51.18	58.74	65.45	72.9
International	18.28	18.91	40.96	56.35	67.45	89.85	103.7
Average speed (miles per hour):							
Domestic	(5)	155.4	181.2	207.8	223.0	234.9	260.1
International	(5)	150.7	218.4	244.4	262.5	306.8	356.7
Fuel consumed:							
Gasoline ... 1,000 gal.	74,535	159,911	572,246	1,170,240	1,475,193	1,127,006	925,723
Domestic ... do.	65,675	134,824	418,442	911,748	1,141,734	922,480	774,094
International ... do.	8,860	25,087	153,804	258,492	333,459	204,526	151,629
Jet fuel, domestic ... do.				1,827	413,362	988,003	1,473,162
International ... do.					63,417	342,513	558,837
Oil ... do.	1,288	2,025	6,675	14,161	21,457	15,545	12,190
Domestic ... do.	1,104	1,710	5,007	11,418	16,807	12,688	10,135
International ... do.	184	316	1,668	2,743	4,650	2,857	2,055
Total personnel employed	22,051	68,281	82,786	124,527	162,408	164,790	166,493
Domestic	15,984	50,313	61,903	96,557	131,610	133,379	(5)
International	6,067	17,968	20,883	27,970	30,798	31,411	(5)
Revenue-miles flown (all scheduled services) ... 1,000	119,753	241,578	458,087	762,777	1,014,068	983,384	956,465
Domestic ... do.	110,101	208,969	364,256	627,336	841,925	820,753	795,169
International ... do.	9,652	32,609	93,831	135,441	172,143	162,631	161,296
Revenue passengers carried ... do.	[6] 2,965	7,052	19,019	41,709	60,296	62,258	63,012
Domestic ... do.	[6] 2,523	6,576	17,345	38,221	54,955	56,352	56,900
International ... do.	163	476	1,675	3,488	5,341	5,906	6,112
Revenue passenger-miles flown:							
Domestic ... 1,000,000	1,052	3,362	8,003	19,852	29,308	30,557	31,062
International ... do.	100	448	2,206	4,499	7,064	8,306	8,769
Average passenger-mile rate:							
Domestic	$0.0507	$0.0495	$0.0555	$0.0536	$0.0588	$0.0609	$0.0628
International	.0883	.0867	.0728	.0666	.0629	.0635	.0608
Express and freight, ton-miles flown ... 1,000	(5)	30,914	211,914	326,344	504,077	578,389	671,303
Domestic [7] ... do.	3,476	22,197	151,351	229,966	344,728	386,934	454,141
International ... do.	(5)	8,718	60,563	96,378	159,349	191,455	217,162
Mail, ton-miles flown:							
Domestic ... do.	10,118	[8] 65,093	47,009	88,751	20,276	135,597	150,451
International ... do.		3,399	21,188	53,390	73,718	94,859	135,714
Accidents, domestic: [9]							
Number of accidents	30	40	39	60	68	68	62
Revenue-miles flown per accident ... 1,000	3,684	5,234	9,859	10,456	12,118	11,734	12,422
Total fatalities	45	88	109	180	249	363	136
Passenger-fatalities per 100 million passenger-miles flown	3.0	2.2	1.1	0.8	0.7	1.0	0.3
Accidents, international: [9]							
Number of accidents	6	5	6	5	12	5	3
Revenue-miles flown per accident ... 1,000	1,609	6,522	15,986	28,984	16,523	33,688	55,758
Total fatalities		27	56	4	71	15	
Passenger-fatalities per 100 million passenger-miles flown		3.7	2.1	0.04	0.8	0.1	

[1] Not compiled for intra-Alaska.
[2] 1940 and 1945, averages for December; 1950–1961, based on fourth quarter.
[3] 1940, as of Dec. 31; 1945, average for December; 1950–1961, based on fourth quarter.
[4] Obtained by dividing passenger seat miles by revenue miles flown in passenger service.
[5] Not available.
[6] Data for domestic passengers include duplication.
[7] Excludes freight flown by certificated all-cargo operators and irregular carriers.
[8] Excludes regular mail carried under special contract.
[9] Revenue operations accidents. Beginning 1950, includes scheduled cargo carriers.

Source: Federal Aviation Agency and Civil Aeronautics Board. Published in *FAA Statistical Handbook of Aviation*.

No. 798. Scheduled Air Carriers—Available Service and Utilization, and Traffic Carried: 1952 to 1961

[In millions. Includes Alaska and Hawaii, except as noted]

ITEM	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961
SERVICE AND UTILIZATION										
Available ton miles	3,367	3,955	4,463	5,289	6,171	7,231	7,326	8,337	9,383	10,579
Revenue ton miles	2,005	2,288	2,564	3,088	3,619	4,082	4,120	4,734	5,024	5,394
Ton-mile load factor ..... percent	59.5	57.9	57.5	58.4	58.6	56.5	56.2	56.8	53.5	50.5
Available seat miles	24,125	28,962	33,377	38,574	43,674	51,059	53,115	59,247	65,566	71,849
Revenue passenger miles	15,624	18,245	20,613	24,351	27,625	31,261	31,499	36,372	38,863	39,827
Passenger load factor ..... percent	64.8	63.0	61.8	63.1	63.3	61.2	59.3	61.4	59.3	55.4
Revenue plane miles	570	638	672	763	851	954	950	1,005	978	969
TRAFFIC CARRIED (revenue ton-miles)										
Total	**2,005**	**2,288**	**2,564**	**3,088**	**3,619**	**4,082**	**4,120**	**4,734**	**5,024**	**5,394**
Passenger [1]	1,524	1,777	2,007	2,368	2,686	2,999	3,023	3,490	3,732	3,827
U. S. mail:										
Priority	93	98	108	128	137	144	160	181	202	223
Nonpriority	.....	2	11	15	15	17	17	19	39	76
Express	42	44	42	51	53	46	49	57	59	61
Freight	289	304	312	383	451	507	501	589	643	733
Charter flights	33	36	51	106	233	319	321	346	296	423
Excess baggage	25	28	32	37	43	50	48	52	52	50

[1] Passenger miles converted to ton-miles on basis of about 10 to 1; that is, 10 passengers with allowable free baggage are accepted as equaling 1 ton.

Source: Air Transport Association of America, Washington, D.C.; *Air Transport Facts and Figures*, and records.

No. 799. Scheduled Air Carriers—Operating Revenues and Expenses: 1957 to 1961

[In millions of dollars. Includes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 363-375]

ITEM	DOMESTIC AIR CARRIERS					INTERNATIONAL AIR CARRIERS				
	1957	1958	1959	1960	1961	1957	1958	1959	1960	1961
Net operating income	41.2	97.5	106.8	37.9	18.7	28.3	11.3	18.6	45.2	36.0
Operating revenues	**1,530.2**	**1,636.2**	**1,955.1**	**2,129.3**	**2,245.5**	**508.8**	**530.8**	**592.2**	**684.7**	**722.4**
Passenger	1,347.5	1,432.2	1,722.5	1,860.4	1,951.5	385.2	395.6	444.6	527.6	533.2
Mail (incl. subsidy)	74.7	81.8	95.0	113.1	54.3	42.8	47.1	49.0	56.1	64.4
Express and freight	68.6	77.6	91.2	102.8	114.5	42.9	45.4	51.8	58.7	63.3
Excess baggage	18.6	19.5	21.4	21.4	20.4	9.2	9.0	8.8	10.1	9.6
Other	20.7	25.1	25.0	31.7	104.8	28.8	33.8	37.9	32.1	52.0
Operating expenses	**1,489.0**	**1,538.7**	**1,848.3**	**2,091.4**	**2,226.8**	**480.5**	**519.6**	**573.7**	**639.5**	**686.4**
Aircraft	798.7	931.8	1,112.4	1,267.6	1,344.8	247.4	301.3	326.6	359.1	388.2
Flying operations	469.6	474.7	551.4	600.8	633.2	150.8	163.5	170.4	179.5	186.6
Direct maintenance flight equipment [1]	176.1	311.2	379.4	438.0	445.9	44.8	83.6	95.8	101.5	109.5
Depreciation flight equipment	153.0	145.9	181.6	228.8	265.7	51.8	54.2	60.4	78.1	92.2
Ground and indirect expense	690.3	606.9	736.0	823.7	882.0	233.1	218.3	247.1	280.2	298.1

[1] Beginning 1958, includes maintenance formerly reported as ground and indirect expense.

No. 800. Personnel of Domestic Scheduled Air Carriers: 1940 to 1961

[Includes Hawaii, and, beginning 1960, Alaska. Beginning 1958, groups not strictly comparable with prior years, because of change in reporting procedures]

TYPE OF PERSONNEL	1940	1945	1950	1955	1958	1959	1960	1961 [1]
Total	**15,984**	**50,313**	**61,903**	**95,548**	**119,746**	**132,042**	**134,546**	**136,987**
Pilots and copilots	1,939	4,967	5,785	8,721	11,287	12,175	11,579	11,741
Other flight personnel	18	108	776	1,721	3,092	3,370	3,156	3,334
Pursers, stewards, stewardesses	914	2,075	3,372	5,919	8,262	9,089	8,937	9,926
Meteorologists and dispatchers	193	2,613	2,450	2,548	2,970	3,240	3,161	2,728
Mechanics	4,054	10,844	15,788	23,776	24,996	26,884	28,303	28,360
Other hangar and field personnel	1,880	7,012	9,822	15,872	30,454	35,643	35,704	36,120
Office employees	5,855	19,241	21,894	34,148	25,368	26,949	27,959	28,885
All others	1,131	3,453	2,016	2,843	13,317	14,692	15,747	15,893

[1] Includes certain personnel chargeable to international operations.

Source of tables 799 and 800: Federal Aviation Agency and Civil Aeronautics Board. Published in *FAA Statistical Handbook of Aviation*.

No. 801. Supplemental Air Carriers—Summary of Operations: 1954 to 1960

[In thousands, except number of operators. Supplemental air carriers are those carriers operating by authority of letters of registration granted by the Civil Aeronautics Board. Includes international operations. Figures shown for military cover activities performed under charter or other contract with the Department of Defense]

ITEM	1954	1955	1956	1957	1958	1959	1960
Number of operators	(1)	50	48	37	35	31	30
Revenue-miles	35,769	40,330	42,381	32,942	36,825	38,670	40,498
Commercial	15,153	17,376	15,860	11,177	12,907	14,386	13,228
Military	20,616	22,954	26,521	21,765	23,918	24,284	36,270
Revenue passengers	695	789	663	535	676	859	1,048
Revenue passenger-miles	1,243,030	1,395,682	1,004,052	767,287	1,152,988	1,629,556	2,207,595
Commercial	585,410	716,096	628,876	429,807	595,191	769,382	671,094
Military	657,620	679,586	375,176	337,480	557,797	860,174	1,536,501
Available seat-miles	1,513,213	1,767,162	1,382,573	1,120,378	1,595,174	2,513,914	2,680,520
Revenue cargo ton-miles	52,087	74,601	110,377	86,707	89,195	84,570	120,400
Commercial	18,355	21,191	19,262	8,697	10,417	11,387	5,355
Military	33,732	53,410	91,115	78,010	78,778	73,183	115,045
Available ton-miles	230,865	307,932	268,712	216,267	263,068	311,332	411,010
Operating revenue	$54,061	$76,824	$67,609	$50,456	$65,204	$76,480	$83,447
Transport	51,798	66,923	60,974	44,051	59,241	66,405	79,711
Passenger	18,325	20,494	17,984	10,701	15,966	21,734	19,919
Freight	4,274	3,743	3,134	874	1,651	1,305	407
Contract and charter:							
Commercial	3,250	6,993	6,507	7,585	10,995	13,899	11,591
Military	25,673	35,133	33,109	24,656	30,487	29,309	47,527
Other	276	560	240	235	142	158	267
Other than transport	2,863	9,901	6,635	6,405	5,963	10,075	3,736
Operating expenses	58,482	73,067	68,058	55,290	69,464	84,676	85,265
Direct flight	39,512	49,149	46,110	37,755	46,964	(1)	(1)
Other	18,970	23,918	21,948	17,535	22,500	(1)	(1)
Operating profit or loss	−3,821	3,757	−449	−4,834	−4,260	−8,196	−1,818

[1] Not available.

Source: Civil Aeronautics Board; records.

No. 802. Employment, Hours, and Earnings in Aircraft Industries (Annual Averages): 1948 to 1961

ITEM	1948	1950	1955	1957	1958	1959	1960	1961
EMPLOYMENT [1] (1,000)								
Total	206.6	254.4	634.6	732.2	783.6	755.4	673.8	669.4
Aircraft	158.0	188.4	466.6	519.0	448.5	425.1	371.4	362.4
Aircraft engines and parts	48.6	57.0	168.0	213.2	184.3	182.0	170.5	182.5
Other aircraft parts and equipment [2]	(3)	(3)	(3)	(3)	150.8	148.3	131.9	124.5
HOURS AND EARNINGS								
Average weekly hours:								
Aircraft industries	41.2	41.4	41.4	40.8	40.5	40.1	40.6	41.1
Aircraft engines and parts industries	40.5	41.7	40.6	40.7	39.7	41.1	41.1	41.5
Average weekly earnings:								
Aircraft industries	$60.36	$67.15	$89.84	$95.88	$101.66	$105.86	$110.03	$114.26
Aircraft engines and parts industries	$61.52	$69.31	$86.48	$95.65	$58.65	$108.50	$112.20	$116.62
Average hourly earnings:								
Aircraft industries	$1.46	$1.62	$2.17	$2.35	$2.51	$2.64	$2.71	$2.78
Aircraft engines and parts industries	$1.52	$1.66	$2.13	$2.35	$2.51	$2.64	$2.73	$2.81

[1] Data for week ending nearest middle of month.
[2] Includes aircraft propellers and parts.
[3] Not available.

Source: Department of Labor, Bureau of Labor Statistics. Published in *FAA Statistical Handbook of Aviation.*

No. 803. Domestic Air Cargo—Ton-Miles Flown, by Type of Carrier: 1950 to 1961

[In thousands of ton-miles. Beginning 1955, includes Alaska and Hawaii. For scheduled combination and all-cargo carriers, comprises express and freight ton-miles; for supplemental carriers, freight only]

Year	Total, all carriers	Scheduled combination carriers			Scheduled all-cargo carriers			Supplemental carriers [2]
		Total	Scheduled	Nonscheduled [1]	Total	Scheduled	Nonscheduled [1]	
1950	229,039	152,327	150,718	1,609	63,599	58,420	5,179	13,113
1951	239,547	142,805	142,669	136	79,056	74,610	4,446	17,686
1952	256,375	159,673	159,514	159	86,447	81,829	4,618	10,255
1953	275,916	176,497	176,428	69	81,330	74,579	6,751	18,089
1954	272,725	186,721	186,615	106	62,295	58,089	4,206	23,709
1955	395,968	242,742	236,354	[3] 6,388	112,669	88,802	23,867	40,557
1956	484,321	283,393	265,324	[3] 18,069	142,123	103,522	38,601	58,805
1957	528,914	278,749	273,770	4,979	202,990	127,282	75,708	47,175
1958	532,103	299,814	296,916	2,898	170,979	92,717	78,262	61,310
1959	587,375	351,113	347,921	3,192	172,894	105,486	67,408	63,368
1960	637,948	389,439	386,934	2,505	136,539	89,564	46,975	111,970
1961	[4] 740,436	455,950	454,141	1,809	145,305	79,049	66,256	[4] 139,181

[1] Includes some military ton-miles and may include a small amount of international traffic.
[2] Civil and military. [3] Includes all classes of property transported in nonscheduled service.
[4] For the 12-month period ending September (latest figure available).

Source: Federal Aviation Agency and Civil Aeronautics Board, Office of Carrier Accounts and Statistics.

No. 804. Civil Aircraft Shipments: 1948 to 1961

Item	1948	1950	1955	1957	1958	1959	1960	1961
Aircraft shipments	7,302	3,520	4,820	6,805	6,882	8,242	8,181	7,472
Under 3,000 lbs. airframe weight	7,039	3,391	4,575	6,208	6,522	7,799	7,671	(1)
3,000 lbs. airframe weight and over	263	129	245	597	360	446	510	(1)
Airframe weight, total ... 1,000 lbs.	10,083	5,961	10,231	21,810	16,658	23,132	28,161	21,884
Value of complete units, total ... $1,000	114,207	100,097	271,250	700,831	500,540	899,637	1,240,978	985,336
Aircraft shipments, by size:								
1- and 2-place	3,302	1,029	786	1,178	1,012	7,588	7,493	(1)
3- to 5-place	3,737	2,362	3,586	4,783	5,355			
Over 5-place	263	129	448	844	515	654	688	(1)
Aircraft shipments, by horsepower: [2]								
1 to 99	2,990	597	4,144	445	324	7,348	6,864	(1)
100 to 399	4,026	2,789		5,366	5,867			
400 and over	286	134	676	994	601	894	1,317	(1)

[1] Not available. [2] Total rated horsepower of all engines.

No. 805. Civil Aircraft Exports: 1948 to 1961

[See also *Historical Statistics, Colonial Times to 1957*, series Q 349-350, for total number and value]

Item	1948	1950	1955	1957	1958	1959	1960	1961
Number								
Total	1,275	756	1,714	2,025	1,689	1,628	2,336	2,456
New fixed-wing aircraft	1,026	456	848	1,294	1,027	1,104	1,690	1,843
Transports	91	48	95	204	127	65	159	118
Utility aircraft	935	408	749	1,086	896	1,033	1,528	1,645
Commercial and civilian, n.e.c. [1]			4	4	4	6	3	80
Used and surplus utility planes [2]	202	262	800	627	595	461	564	494
Rebuilt, including converted								
Rotary-wing aircraft	47	38	66	104	67	63	82	119
New air-cooled reciprocating engines [3]	460	205	897	1,516	1,552	948	1,464	1,575
Value ($1,000)								
Total	44,121	44,287	129,924	248,943	204,051	152,984	537,126	334,786
New fixed-wing aircraft	41,536	42,697	88,574	193,797	158,669	124,992	503,740	294,046
Transports	37,395	40,444	81,144	180,651	146,436	107,619	480,126	262,548
Utility aircraft	4,141	2,253	7,422	13,141	12,108	14,500	23,592	27,526
Commercial and civilian, n.e.c. [1]			8	5	125	2,873	22	3,972
Used and surplus utility planes [2]	652	606	37,185	43,239	35,818	19,808	25,683	33,894
Rebuilt, including converted								
Rotary-wing aircraft	1,933	984	4,165	11,907	9,564	8,184	7,703	6,846
New air-cooled reciprocating engines [3]	326	201	2,016	3,860	4,312	2,448	3,716	4,398

[1] "N. e. c." means not elsewhere classified.
[2] Prior to 1955, excludes those of 3,000 pounds and over, empty airframe weight.
[3] Excludes those of 400 horsepower and over.

Source of tables 804 and 805: Department of Commerce, Bureau of the Census, and Federal Aviation Agency. Published in *FAA Statistical Handbook of Aviation*.

No. 806. Civil Aircraft, 1960, Airports and Federal-Aid Airport Program, 1961, by States and Other Areas

[As of December 31, except as noted]

State or other area	Civil aircraft [1]		Airports and airfields [2]			Federal-Aid Airport Program [4] ($1,000)		
	Total	Active	Total	General	Limited [3]	Total	Federal funds	Sponsor funds
Total	**111,580**	**78,760**	**7,715**	**3,274**	**4,441**	**1,183,067**	**570,517**	**612,550**
Alabama	1,095	783	85	44	41	17,192	8,589	8,603
Alaska	2,189	1,452	373	228	145	18,733	13,299	5,434
Arizona	1,757	1,230	133	51	82	18,071	9,482	8,589
Arkansas	1,441	992	97	50	47	8,623	4,259	4,364
California	14,704	10,022	448	218	230	110,318	51,331	58,987
Colorado	1,536	1,082	98	40	58	18,066	9,051	9,015
Connecticut	840	557	82	24	58	8,791	4,379	4,412
Delaware	348	260	17	10	7	1,149	577	572
District of Columbia	628	439	2	1	1	----------	----------	----------
Florida	4,332	2,691	168	108	60	40,442	19,495	20,947
Georgia	1,626	1,191	121	56	65	25,256	12,679	12,577
Hawaii	202	101	44	12	32	25,931	8,071	17,860
Idaho	1,020	748	172	34	138	5,506	3,054	2,452
Illinois	5,697	4,110	272	116	156	73,453	34,100	39,353
Indiana	2,949	2,145	140	97	43	21,377	10,333	11,044
Iowa	2,182	1,698	190	75	115	18,029	8,905	9,124
Kansas	2,586	1,862	220	81	139	8,821	4,332	4,489
Kentucky	831	633	40	26	14	19,013	9,258	9,755
Louisiana	1,854	1,268	155	51	104	33,842	15,408	18,434
Maine	552	392	133	39	94	4,876	2,411	2,465
Maryland	1,014	681	63	32	31	11,945	5,887	6,058
Massachusetts	1,496	1,017	109	58	51	27,197	13,209	13,988
Michigan	4,182	2,969	216	123	93	46,224	21,577	24,647
Minnesota	2,928	2,221	244	88	156	33,768	16,733	17,035
Mississippi	1,284	870	79	41	38	9,678	4,815	4,863
Missouri	2,656	1,944	186	72	114	33,660	16,516	17,144
Montana	1,357	1,054	170	46	124	7,270	3,910	3,360
Nebraska	1,676	1,291	179	58	121	12,428	6,181	6,247
Nevada	646	466	64	23	41	12,838	7,205	5,633
New Hampshire	302	199	33	18	15	2,348	1,172	1,176
New Jersey	2,245	1,480	112	62	50	22,762	9,836	12,926
New Mexico	1,225	909	100	39	61	7,193	4,007	3,186
New York	5,295	3,699	305	135	170	86,586	37,689	48,897
North Carolina	1,799	1,227	113	59	54	15,455	7,683	7,772
North Dakota	981	677	162	30	132	5,568	2,772	2,796
Ohio	4,836	3,413	359	146	213	50,423	24,487	25,936
Oklahoma	2,296	1,693	137	65	72	27,079	13,568	13,511
Oregon	2,123	1,535	156	50	106	16,365	8,356	8,009
Pennsylvania	3,792	2,644	427	138	289	69,625	33,108	36,517
Rhode Island	200	136	13	8	5	6,183	3,010	3,173
South Carolina	650	488	78	35	43	5,398	2,704	2,694
South Dakota	1,129	834	83	31	52	4,005	2,125	1,880
Tennessee	1,241	905	66	45	21	29,295	14,660	14,635
Texas	9,401	6,852	588	210	378	65,718	32,289	33,429
Utah	698	515	66	30	36	13,528	7,492	6,036
Vermont	159	99	28	9	19	1,779	885	894
Virginia	1,317	897	94	53	41	15,449	7,522	7,927
Washington	2,733	1,857	189	68	121	22,562	10,668	11,894
West Virginia	545	396	53	27	26	13,428	6,553	6,875
Wisconsin	2,157	1,544	170	81	89	25,526	12,447	13,079
Wyoming	616	451	69	23	46	4,205	2,438	1,857
Other areas	232	141	14	10	4	----------	----------	----------

[1] Includes gliders.
[2] Includes military airports with joint civil and military use. Airport type definitions: General use—airports serving as regular, alternate, or provisional stops for scheduled and large irregular carriers; non-air-carrier airports offering a minimum of services such as fuel and regular attendant during normal working hours; and airports operating seasonally which qualify under above definition. Limited use—airports available to public but not equipped to offer minimum services. Restricted use—use by general public prohibited except in case of forced landing or by previous arrangement.
[3] Includes restricted use airports, seaplane bases, and heliports.
[4] Cumulative since enactment of Federal Airport Act, May 16, 1946, through Dec. 31, 1961.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation.*

No. 807. Petroleum Pipeline Companies—Summary of Selected Financial Data: 1930 to 1960

[In thousands of dollars, except miles of line operated. Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 342, for miles of line operated]

YEAR	Miles of line operated	Investment in carrier property	Other investments	Total current assets	Pipeline operating revenues	Pipeline operating expenses	Pipeline operating income	Net income
1930	88,727	772,711	96,184	133,428	237,910	99,363	121,816	123,741
1935	92,037	763,009	119,071	46,949	197,368	89,364	79,586	78,249
1940	100,156	841,977	64,095	47,163	225,760	101,919	82,558	79,857
1942	106,485	918,848	44,525	81,259	245,061	123,507	58,332	56,845
1943	108,783	965,464	39,891	107,501	276,652	148,448	62,620	61,302
1944	111,615	1,000,741	62,767	104,150	310,194	172,368	67,840	65,715
1945	113,351	1,042,523	86,713	115,370	304,268	191,668	67,127	65,941
1946	116,544	1,106,454	69,991	103,819	293,723	183,869	56,485	56,094
1947	119,298	1,225,168	56,455	126,621	325,224	214,682	54,415	53,145
1948	124,092	1,381,402	52,168	168,020	377,034	252,971	58,806	56,679
1949	124,984	1,497,579	78,285	175,458	376,452	249,368	63,282	57,743
1950	128,589	1,655,973	100,798	192,291	441,627	254,701	89,047	81,303
1951	131,457	1,821,880	70,011	232,851	523,973	290,144	91,265	82,006
1952	132,715	2,064,405	107,412	322,677	562,268	310,311	111,053	96,650
1953	133,900	2,311,885	95,970	301,185	591,186	324,935	128,943	109,046
1954	138,962	2,501,330	67,451	315,731	617,463	331,834	149,845	124,409
1955	140,374	2,585,565	80,679	352,762	677,605	346,985	176,257	153,334
1956	142,686	2,716,234	82,453	367,633	737,386	370,787	188,272	178,457
1957	145,236	2,843,034	75,912	364,258	729,952	386,661	182,392	159,197
1958	144,354	2,948,598	194,855	347,369	720,670	389,678	190,748	161,838
1959	149,159	3,196,909	128,608	383,973	765,232	406,140	211,276	182,815
1960	151,968	3,299,501	113,504	393,028	770,417	417,640	198,911	169,398

Source: Interstate Commerce Commission; annual reports, *Statistics of Oil Pipe-Line Companies* and, beginning 1954, *Transport Statistics in the United States*, Part 6.

No. 808. Petroleum Pipelines—Oil Transported: 1945 to 1960

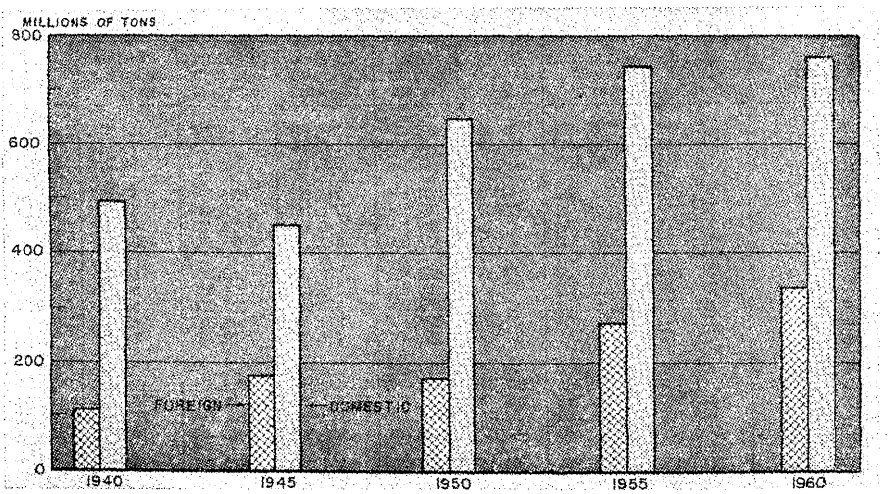
[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series Q 343-344, for oil originated]

ITEM	1945	1950	1955	1957	1958	1959	1960
Number of companies	74	76	84	82	82	85	87
Mileage operated	113,351	128,589	140,374	145,236	144,354	149,159	151,968
Gathering lines	43,994	47,593	50,645	52,077	49,787	49,567	49,401
Trunk lines	69,357	80,996	89,729	93,159	94,567	99,592	102,567
Oil transported (million bbls.):							
Total received into system	2,379	2,766	4,058	4,485	4,318	4,665	4,783
From connecting carriers	937	944	1,434	1,635	1,543	1,634	1,636
Crude oil	859	879	1,299	1,470	1,361	1,423	1,402
Refined oils	78	65	134	165	182	211	234
Originated	1,442	1,822	2,624	2,850	2,775	3,031	3,147
Crude oil	1,292	1,525	2,038	2,183	2,018	2,182	2,239
Refined oils	150	297	586	668	757	849	909
Total delivered out of system	2,365	2,740	4,039	4,472	4,317	4,659	4,783
To connecting carriers	964	937	1,444	1,590	1,509	1,624	1,639
Crude oil	894	874	1,329	1,447	1,345	1,403	1,400
Refined oils	70	63	115	143	165	221	240
Terminated	1,401	1,803	2,595	2,883	2,807	3,035	3,144
Crude oil	1,244	1,510	1,992	2,195	2,034	2,201	2,253
Refined oils	157	293	603	688	773	834	891
Trunk-line movement (million bbls.):							
Crude oil	1,721	1,977	2,781	3,056	2,947	3,038	3,091
Refined oils	228	360	717	876	935	1,055	1,124
Trunk-line barrel-miles (billions):							
Crude oil	430	577	839	931	905	980	976
Refined oils	65	107	205	248	260	284	304

Source: Interstate Commerce Commission; annual reports, *Statistics of Oil Pipe-Line Companies* and, beginning 1955, *Transport Statistics in the United States*, Part 6.

FIG. XXXIV. WATERBORNE COMMERCE OF THE UNITED STATES: 1940 TO 1960

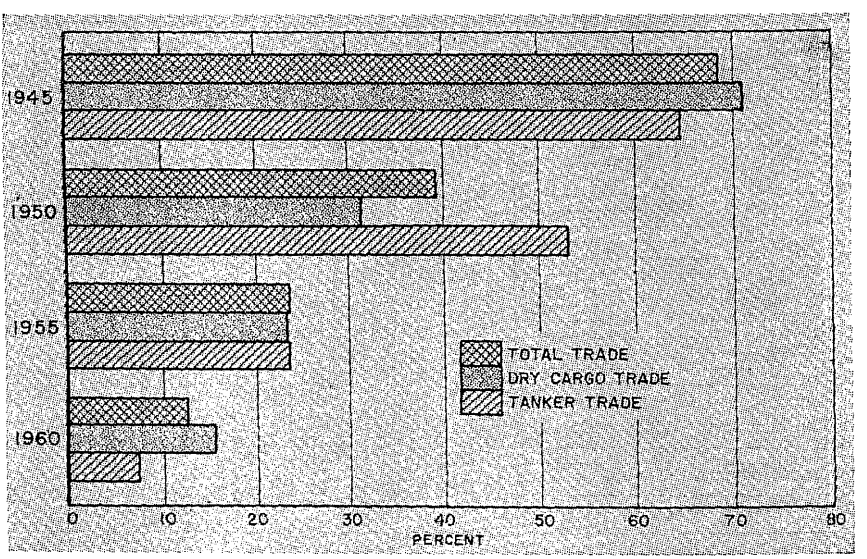
[See table 809]



Source: Chart prepared by Department of Commerce, Bureau of the Census. Data are from Department of the Army, Corps of Engineers.

FIG. XXXV. PERCENT OF CARGO TONNAGE ON U.S. FLAG VESSELS IN THE U.S. FOREIGN TRADE: 1945 TO 1960

[See table 811]



Source: Department of Commerce, Bureau of the Census.

Section 22

Waterways, Water Traffic, and Shipping

This section presents statistics concerning water transportation, including inland waterways and oceanborne commerce, the merchant marine, cargo and vessel tonnages, and shipbuilding. The principal sources of these data are the annual *Waterborne Commerce of the United States* and the *Annual Report of the Chief of Engineers*, Part 2, issued by the Corps of Engineers of the Department of the Army; the monthly and annual *U. S. Waterborne Foreign Trade*, issued by the Bureau of the Census; and the annual *Merchant Marine Statistics*, issued by the Bureau of Customs. Data in this field are also presented in *A Statistical Analysis of the World's Merchant Fleets*, issued periodically by the Maritime Administration of the Department of Commerce; *The Bulletin*, issued monthly by the American Bureau of Shipping; and the *Annual Summary of Merchant Ships Launched in the World* and the *Register Book* published by Lloyd's Register of Shipping, London, England. A basic source for historical data is *Foreign Commerce and Navigation of the United States*, issued annually through 1946 by the Bureau of the Census.

Data relating to merchandise exports and imports, their classification, dollar values, and countries of origin and destination may be found in section 31, Foreign Commerce.

Units of measurement.—Cargo tonnage and shipping weight both represent the gross weight of the cargo including the weight of containers, wrappings, crates, etc. 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. It represents substantially space available for cargo and passengers. The net tonnage capacity of a ship may bear little relation to weight of cargo. Dead-weight 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.

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 at the first port which it enters in the United States, regardless of whether any cargo is unladen at that port. A vessel is reported as cleared from the last port where outward cargo is completed or where the vessel cleared in ballast. Army and Navy vessels entering or clearing without commercial cargo and vessels touching at a United States port in distress, or for other temporary causes without discharging cargo, are not included in the figures.

Alaska and Hawaii.—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface.

Historical statistics.—Tabular headnotes (as "See also *Historical Statistics, Colonial Times to 1957*, series Q 216–229") provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

No. 809. Waterborne Commerce of the United States—Cargo Tonnage, Foreign and Domestic: 1940 to 1960

[**In thousands of short tons.** Includes Alaska, Hawaii, and outlying areas. Import and export figures differ slightly from those shown in tables 811 and 812, due to minor differences in basic concepts which are explained in the source. See also *Historical Statistics, Colonial Times to 1957*, series Q 216-229]

CLASS	1940	1945	1950	1955	1957	1958	1959	1960
Net total, foreign and domestic	607,900	618,906	820,584	1,016,136	1,131,401	1,004,516	1,052,402	1,099,850
Foreign commerce, total	111,255	172,094	169,225	271,103	358,539	308,851	325,670	339,277
Imports, through seaports	40,740	44,526	96,299	144,276	176,236	181,480	198,608	198,466
Exports, through seaports	49,568	100,333	43,640	95,404	146,890	101,555	91,629	104,810
Imports, Great Lakes ports	4,118	6,511	5,683	8,681	10,116	8,004	14,878	12,851
Exports, Great Lakes ports	16,829	20,724	23,603	22,742	25,298	17,811	20,555	23,150
Domestic commerce, net total [1]	496,645	446,812	651,359	745,033	772,862	695,665	726,732	760,573
Coastwise, between ports	157,027	90,705	182,544	195,718	196,419	194,050	205,509	209,197
Great Lakes, between ports	141,103	157,900	169,881	184,809	182,150	132,289	131,220	155,109
Local traffic of seaports, Great Lakes ports, and inland waterways ports	97,632	97,822	106,906	112,863	110,824	105,425	106,747	104,193
Traffic between ports and river ports [2]	70,217	87,073	190,789	249,693	281,066	261,069	282,269	291,057
Traffic between ports of outlying areas of the United States [3]	----------	----------	1,239	1,951	2,403	2,832	[4] 987	1,017

[1] For 1940 and 1945, approximate net total, excluding duplications in domestic traffic.
[2] Represents traffic among ports and communities mainly utilizing inland waterways.
[3] Included in other types of domestic traffic prior to 1950.
[4] Traffic confined to the States of Alaska and Hawaii transferred to other traffic categories as appropriate.

Source: Department of the Army, Corps of Engineers; figures through 1950, *Annual Report of Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 810. United States Receipts and Payments for International Transportation: 1947 to 1961

[**In millions of dollars.** Includes Alaska and Hawaii. Data are international transportation transactions recorded for balance of payments purposes (see table 1195). Receipts include freight on exports carried by U.S. operated carriers and foreign carrier expenditures in U.S. ports. Payments include freight on imports carried by foreign carriers and U.S. carrier port expenditures abroad. Freight on exports carried by foreign carriers is excluded since such payments are directly or indirectly for foreign account. Similarly, freight on U.S. imports carried by U.S. carriers is a domestic rather than an international transaction. Minus sign (—) denotes decrease. See also *Historical Statistics, Colonial Times to 1957*, series U 170 and U 177, for totals]

ITEM	1947	1950	1955	1956	1957	1958	1959	1960	1961 (prel.)
Total receipts	1,738	1,033	1,420	1,642	1,967	1,638	1,646	1,816	1,785
Ocean transportation	1,593	859	1,151	1,337	1,628	1,283	1,224	1,333	1,307
Export freight earnings	1,154	380	448	536	639	429	359	428	396
Privately controlled shipments:									
Coal	257	1	26	22	32	8	5	6	(1)
Grain	67	23	44	81	70	52	39	50	(1)
Other dry cargo	608	311	365	414	504	361	309	365	(1)
Tanker	29	12	12	19	33	8	6	7	(1)
Military-controlled shipments [2]	193	33	1	----------	----------	----------	----------	----------	----------
Freight earnings on shipments between foreign countries	100	110	106	140	179	130	140	136	147
Passenger fares	39	20	23	25	24	24	20	19	18
Port expenditures	281	313	562	619	766	692	698	742	738
Charter hire	19	36	12	17	20	8	7	8	8
Other transportation	145	174	269	305	339	355	422	483	478
Total payments	583	818	1,204	1,407	1,569	1,636	1,759	1,942	1,942
Ocean transportation	456	643	946	1,116	1,217	1,247	1,299	1,410	1,408
Import freight payments	141	295	480	597	717	743	812	853	833
Dry cargo	133	255	358	423	517	545	674	704	(1)
Tanker	8	40	122	174	200	198	138	149	(1)
Passenger fares	47	121	138	154	133	166	183	212	207
Port expenditures	231	138	153	168	203	170	155	167	159
Charter hire	37	89	175	197	164	168	149	178	209
Other transportation	127	175	258	291	352	389	460	532	534
Receipts balance	1,155	215	216	235	398	2	—113	—126	—157

[1] Not available.
[2] Represents freight on economic aid only. Freight on military end items not included.

Source: Department of Commerce, Office of Business Economics; *Balance of Payments Statistical Supplement*, 1958 edition, a supplement to the *Survey of Current Business*; *Survey of Current Business*, June 1961, March 1962, and records.

No. 811. Waterborne Imports and Exports—Cargo Tonnage, by Flag of Carrier Vessel: 1935 to 1961

[**In thousands of short tons.** Prior to 1946, excludes cargoes (small in aggregate) carried by ships of less than 100 tons gross capacity. Beginning 1950, excludes U.S. Army and Navy cargo, and includes Alaska, Hawaii, and Puerto Rico. Beginning July 1950, excludes commodities classified for security reasons as "special category." For 1955 and beginning July 1956, exports exclude shipments under $500 in value regardless of shipping weight; for January through June 1956, exclude those under $1,000 regardless of shipping weight. For 1955 through 1957, imports exclude shipments under 2,000 pounds shipping weight regardless of value, as well as shipments valued at less than $100 regardless of shipping weight. Beginning 1958, imports exclude only those shipments valued at less than $100 regardless of shipping weight. See also *Historical Statistics, Colonial Times to 1957*, series Q 210–215]

Year	Total trade	Percent by U.S. flag	Imports by flag of carrier vessels				Exports by flag of carrier vessels			
			Total	U.S.	Foreign	Percent U.S.	Total	U.S.	Foreign	Percent U.S.
TOTAL										
1935	80,765	31.7	38,042	15,820	22,221	41.6	42,723	9,789	32,935	22.9
1940	105,596	28.7	44,667	17,322	27,345	38.8	60,929	12,939	47,990	21.2
1945 [1]	101,030	68.4	39,426	31,415	8,011	79.7	61,603	37,729	23,874	61.2
1950	159,389	39.3	96,703	42,268	54,435	43.7	62,685	20,379	42,306	32.5
1955	253,919	23.5	141,123	37,409	103,715	26.5	112,796	22,144	90,652	19.6
1956	305,754	21.9	160,382	39,762	120,620	24.8	145,372	27,424	117,948	18.9
1957	337,826	18.8	172,030	34,558	137,472	20.1	165,796	29,092	136,704	17.5
1958	290,353	13.5	175,605	20,628	154,977	11.7	114,748	18,686	96,062	16.3
1959	308,762	11.9	200,481	19,219	181,262	9.5	108,281	17,724	90,557	16.3
1960	322,717	12.3	198,830	19,627	179,203	9.9	123,887	20,133	103,754	16.3
1961	316,101	10.6	188,313	15,188	173,125	8.1	127,788	18,471	109,317	14.5
DRY CARGO										
1945 [1]	63,083	70.9	21,716	17,053	4,663	78.5	41,367	27,672	13,695	66.9
1950	100,189	31.2	46,611	14,823	31,788	31.8	53,578	16,429	37,149	30.7
1955	169,231	23.2	68,437	19,855	48,582	29.0	100,794	19,762	81,032	19.6
1956	208,708	21.7	79,787	21,125	58,662	26.4	128,921	24,197	104,723	18.8
1957	229,544	19.6	86,868	19,607	67,261	22.6	142,676	25,396	117,280	17.8
1958	184,594	16.2	79,942	13,602	66,340	17.0	104,652	16,341	88,311	15.6
1959	194,966	15.6	98,515	14,679	83,836	14.9	96,451	15,870	80,581	16.4
1960	202,497	15.2	94,931	13,813	81,118	14.6	107,566	16,980	90,586	15.8
1961	196,497	13.8	84,331	10,948	73,383	13.0	112,166	16,088	96,079	14.3
TANKER CARGO										
1945 [1]	37,947	64.4	17,711	14,362	3,349	81.1	20,236	10,058	10,179	49.7
1950	59,199	53.9	50,092	27,445	22,647	54.8	9,107	3,950	5,157	43.4
1955	84,688	23.5	72,686	17,554	55,133	24.2	12,002	2,382	9,620	19.8
1956	97,046	22.4	80,595	18,637	61,958	23.1	16,451	3,227	13,224	19.6
1957	108,282	17.2	85,162	14,951	70,211	17.6	23,120	3,697	19,423	16.0
1958	105,760	8.9	95,664	7,026	88,638	7.3	10,096	2,345	7,751	23.2
1959	113,796	5.6	101,966	4,540	97,426	4.5	11,830	1,854	9,976	15.7
1960	120,219	7.5	103,898	5,814	98,084	5.6	16,321	3,153	13,168	19.3
1961	119,604	5.5	103,983	4,241	99,742	4.1	15,622	2,384	13,238	15.3

[1] Excludes U.S. Army and Navy cargo, and Great Lakes.

No. 812. Waterborne Imports and Exports—Cargo Tonnage, by Coastal District: 1945 to 1961

[**In thousands of short tons.** See headnote, table 811]

District	1945	1950	1955	1957	1958	1959	1960	1961
IMPORTS								
Atlantic ports	30,748	76,062	105,990	123,151	125,366	137,612	135,313	125,643
Gulf ports	5,675	10,930	17,345	21,920	26,288	28,241	27,304	27,018
Pacific ports	3,003	4,095	9,038	16,840	16,071	19,806	23,281	23,683
Great Lakes ports	----------	5,616	8,751	10,119	7,880	14,822	12,932	11,970
EXPORTS								
Atlantic ports	39,609	15,228	54,906	83,947	55,648	41,478	44,902	44,568
Gulf ports	14,737	16,818	22,500	39,057	27,674	31,394	36,730	40,098
Pacific ports	7,258	7,270	13,394	18,579	14,089	14,897	19,351	20,142
Great Lakes ports	----------	23,370	21,996	24,213	17,336	20,512	22,905	22,980

Source of tables 811 and 812: Department of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, releases, and records.

No. 813. Waterborne Imports—Shipping Weight on Dry-Cargo and Tanker Vessels, by Trade Area: 1959 to 1961

[In thousands of short tons. Represents general imports. See headnote, table 811]

Trade area	1959 Total	1959 On U.S. vessels	1959 Percent U.S.	1960 Total	1960 On U.S. vessels	1960 Percent U.S.	1961 Total	1961 On U.S. vessels	1961 Percent U.S.
DRY CARGO									
Trade area	98,514.4	14,679.4	14.9	94,931.3	13,813.1	14.6	84,331.0	10,947.8	13.0
Foreign except Canadian	70,566.1	10,331.7	14.6	70,784.3	10,231.1	14.5	61,074.2	8,009.5	13.1
Caribbean	31,666.3	2,405.2	7.6	32,896.8	2,408.7	7.3	27,158.0	2,195.4	8.1
East Coast South America	3,733.7	849.9	22.8	3,717.7	803.9	21.6	3,103.7	790.8	25.5
West Coast South America	9,043.5	1,958.9	21.7	9,704.2	2,342.5	24.1	7,066.9	1,092.9	15.5
West Coast Central America and Mexico	1,530.3	320.5	20.9	1,751.0	260.0	14.8	1,936.0	267.9	13.8
Gulf Coast Mexico	1,118.3	45.7	4.1	1,413.7	159.6	11.3	1,584.9	64.7	4.1
United Kingdom and Eire	1,442.8	417.6	28.9	1,260.1	360.4	28.6	1,057.1	292.4	27.7
Baltic, Scandinavia, Iceland and Greenland	1,805.7	101.6	5.6	1,527.7	85.2	5.6	1,443.8	78.3	5.4
Bayonne-Hamburg Range	6,220.5	569.4	9.2	4,809.2	401.0	8.3	4,632.1	352.1	7.6
Portugal and Spanish Atlantic	352.8	37.3	10.6	396.3	50.0	12.6	342.7	57.2	16.7
Azores, Mediterranean, and Black Sea	2,033.7	531.1	26.1	1,913.7	443.4	23.2	1,686.9	422.0	25.0
West Coast Africa	2,299.4	205.9	9.0	2,261.5	289.6	12.8	1,929.6	325.5	16.9
South and East Africa	1,726.3	748.4	43.4	1,671.9	658.1	39.4	1,693.4	593.6	35.1
Australasia	836.2	241.6	28.9	593.1	188.2	31.7	759.6	188.0	24.7
India, Persian Gulf, and Red Sea	1,353.1	474.5	35.1	1,511.4	480.4	31.8	1,168.9	329.6	28.2
Malaya and Indonesia	584.4	237.8	40.7	473.1	209.3	44.2	460.1	205.6	44.7
South China, Taiwan, and Philippines	2,673.6	577.4	21.6	2,741.9	529.1	19.3	3,034.1	325.8	10.7
North China, including Shanghai and Japan	2,144.9	608.5	28.4	2,141.5	562.5	26.3	2,016.1	428.1	21.2
Canadian	27,948.4	4,347.7	15.6	24,147.0	3,582.0	14.8	23,256.6	2,938.3	12.6
Pacific Canada	2,872.6	634.4	22.1	3,301.6	573.2	17.4	3,539.1	399.5	11.3
Great Lakes Canada	8,046.5	2,608.2	32.4	7,958.7	2,305.9	29.0	7,137.1	2,339.4	32.8
Atlantic Canada and Newfoundland	17,029.3	1,105.0	6.5	12,886.7	702.9	5.5	12,580.7	199.1	1.6
TANKER CARGO									
Trade area	101,966.6	4,539.3	4.5	103,898.4	5,813.8	5.6	103,982.5	4,240.5	4.1
Foreign except Canadian	101,440.3	4,480.9	4.4	103,415.7	5,699.4	5.5	103,703.3	4,149.6	4.0
Caribbean	74,170.3	4,161.3	5.6	78,357.1	5,207.1	6.6	76,770.1	3,581.6	4.7
East Coast South America	168.7			118.8			404.9		
West Coast South America	37.6			36.9			65.1		
West Coast Central America and Mexico	73.4	31.2	42.5	42.1	7.1	16.9	260.1	104.9	40.3
Gulf Coast Mexico	2,432.9	75.4	3.1	1,278.7			2,666.8		
United Kingdom and Eire	211.1			57.1			93.6		
Baltic, Scandinavia, Iceland, and Greenland	26.6			13.1			19.0		
Bayonne-Hamburg Range	240.5	28.4	11.8	186.3			290.1		
Portugal and Spanish Atlantic	29.9						12.3	12.3	100.0
Azores, Mediterranean, and Black Sea	3,602.0			3,939.6	21.6	0.5	3,194.8	4.7	0.1
West Coast Africa	27.0						49.9		
South and East Africa							77.6		
Australasia	6.0	6.0	100.0						
India, Persian Gulf, and Red Sea	16,548.2	144.4	0.9	15,016.1	377.6	2.5	15,935.1	438.3	3.1
Malaya and Indonesia	3,609.5	17.1	0.5	4,126.3	68.4	1.7	3,495.6		
South China, Taiwan, and Philippines	58.8	16.8	28.6	34.1	17.1	50.1			
North China, including Shanghai and Japan	197.8			209.6			367.9	7.6	2.1
Canadian	526.2	58.9	11.2	482.6	114.1	23.6	279.1	90.6	32.5
Pacific Canada	415.5	47.5	11.4	379.1	94.5	25.0	182.1	79.6	43.7
Great Lakes Canada	76.5	11.4	14.9	101.3	18.1	17.9	42.7	11.2	26.2
Atlantic Canada and Newfoundland	34.3			2.1	1.8	85.7	54.2		

Source: Department of Commerce, Bureau of the Census; current summary reports, FT 985, *Waterborne Foreign Trade Statistics*.

No. 814. Waterborne Exports—Shipping Weight on Dry-Cargo and Tanker Vessels, by Trade Area: 1959 to 1961

[In thousands of short tons. Covers domestic and foreign merchandise. See headnote, table 811]

Trade area	1959 Total	1959 On U.S. vessels	1959 Percent U.S.	1960 Total	1960 On U.S. vessels	1960 Percent U.S.	1961 Total	1961 On U.S. vessels	1961 Percent U.S.
DRY CARGO									
Trade area	96,451.5	15,869.6	16.4	107,566.4	16,980.3	15.8	112,166.2	16,087.7	14.3
Foreign except Canadian	78,114.6	11,510.5	14.7	87,601.4	13,704.9	15.6	92,348.0	13,912.8	15.1
Caribbean	4,406.9	944.4	21.4	3,685.3	644.6	17.5	2,696.6	408.4	15.1
East Coast South America	3,187.8	592.4	18.6	3,692.9	509.1	13.8	4,574.2	1,097.3	24.0
West Coast South America	1,259.0	497.3	39.5	1,732.4	537.8	31.0	1,962.7	747.0	38.1
West Coast Central America and Mexico	236.8	84.2	35.6	257.3	78.7	30.6	284.3	59.8	21.0
Gulf Coast Mexico	290.6	12.1	4.2	387.0	4.4	1.1	376.3	9.3	2.5
United Kingdom and Eire	5,980.6	729.6	12.2	7,129.3	1,014.6	14.2	5,307.3	512.6	9.7
Baltic, Scandinavia, Iceland, and Greenland	4,014.9	437.8	10.9	4,538.4	593.8	13.1	3,329.1	164.3	4.9
Bayonne-Hamburg Range	21,098.7	1,004.3	4.8	19,829.4	1,354.6	6.8	18,148.2	843.8	4.6
Portugal and Spanish Atlantic	1,108.7	329.9	29.8	989.4	207.9	21.0	1,409.4	274.9	19.4
Azores, Mediterranean, and Black Sea	13,353.8	2,363.1	17.7	14,342.8	2,277.3	15.9	17,611.8	3,447.0	19.6
West Coast Africa	565.1	218.0	38.6	708.6	263.6	37.2	1,241.8	583.7	47.0
South and East Africa	637.7	293.7	46.1	683.8	356.0	52.1	667.9	428.7	64.2
Australasia	774.4	46.1	6.0	1,182.2	205.5	17.4	876.3	149.6	17.1
India, Persian Gulf, and Red Sea	4,210.0	1,816.1	43.1	6,580.6	2,900.5	44.1	5,372.1	2,317.1	43.1
Malaya and Indonesia	356.9	117.7	33.0	464.6	189.2	40.7	540.3	187.1	34.6
South China, Taiwan, and Philippines	1,868.1	863.1	46.2	2,181.2	963.1	44.2	2,564.0	995.8	38.8
North China, including Shanghai and Japan	14,764.4	1,160.3	7.9	19,216.2	1,604.1	8.3	25,385.7	1,686.4	6.6
Canadian	18,336.8	4,359.1	23.8	19,965.1	3,275.3	16.4	19,818.2	2,175.0	11.0
Pacific Canada	194.1	52.3	26.9	257.8	57.1	22.1	221.6	41.2	18.6
Great Lakes Canada	17,005.8	4,293.1	25.2	18,091.7	3,145.9	17.4	15,914.3	2,054.1	12.9
Atlantic Canada and Newfoundland	1,136.9	13.6	1.2	1,615.6	72.4	4.5	3,682.4	79.5	2.2
TANKER CARGO									
Trade area	11,829.9	1,853.3	15.7	16,320.6	3,152.9	19.3	15,622.1	2,384.1	15.3
Foreign except Canadian	10,278.3	1,108.7	10.8	15,140.2	2,586.5	17.1	14,805.0	1,876.5	12.7
Caribbean	472.4	55.5	11.7	431.2	36.0	8.3	478.1	26.6	5.6
East Coast South America	381.3	140.9	37.0	919.7	379.1	41.2	746.3	270.3	36.2
West Coast South America	209.6	------	------	119.2	------	------	31.6	------	------
West Coast Central America and Mexico	225.9	------	------	52.6	------	------	4.3	------	------
Gulf Coast Mexico	18.2	3.7	20.3	17.1	9.3	54.4	8.6	------	------
United Kingdom and Eire	1,129.3	9.6	0.9	876.8	------	------	714.6	------	------
Baltic, Scandinavia, Iceland, and Greenland	261.2	2.0	0.8	885.3	488.3	55.2	512.6	263.3	51.4
Bayonne-Hamburg Range	2,814.5	42.7	1.5	4,839.4	9.8	0.2	5,188.6	------	------
Portugal and Spanish Atlantic	102.1	27.6	27.0	178.0	51.4	28.9	145.4	37.3	25.7
Azores, Mediterranean, and Black Sea	497.3	236.5	47.6	1,045.3	423.8	40.5	2,089.6	690.3	33.0
West Coast Africa	69.5	------	------	29.6	2.2	7.4	17.8	5.2	29.2
South and East Africa	41.5	------	------	86.1	------	------	80.6	------	------
Australasia	123.8	16.4	13.2	144.6	26.0	18.0	175.5	31.9	18.2
India, Persian Gulf, and Red Sea	1,225.7	573.8	46.8	2,140.8	1,147.6	53.6	1,316.8	477.5	36.3
Malaya and Indonesia	------	------	------	25.9	------	------	46.6	------	------
South China, Taiwan, and Philippines	41.8	------	------	39.5	------	------	63.6	------	------
North China, including Shanghai and Japan	2,664.2	------	------	3,308.8	13.1	0.4	3,184.3	74.1	2.3
Canadian	1,551.6	744.6	48.0	1,180.1	566.1	48.0	817.1	507.6	62.1
Pacific Canada	609.4	361.4	59.3	638.6	402.1	63.0	570.3	405.3	71.1
Great Lakes Canada	752.1	381.2	50.7	413.2	164.1	39.7	189.4	94.0	49.6
Atlantic Canada and Newfoundland	190.1	2.0	1.1	128.4	------	------	57.5	8.4	14.6

Source: Department of Commerce, Bureau of the Census; current summary reports, FT 985, *Waterborne Foreign Trade Statistics.*

No. 815. Waterborne Exports and Imports—Value of Trade, by Coastal District: 1958 to 1960

[In millions of dollars. Includes trade of Alaska, Hawaii, and Puerto Rico with foreign countries]

Type of vessel and district	Total trade			Exports			Imports		
	1958	1959	1960	1958	1959	1960	1958	1959	1960
Total	**20,576**	**22,388**	**24,047**	**10,948**	**10,776**	**13,163**	**9,628**	**11,612**	**10,884**
Atlantic	13,376	14,216	14,784	6,506	6,081	6,991	6,870	8,135	7,793
Dry cargo	12,055	12,934	13,498	6,435	6,011	6,897	5,620	6,923	6,601
Tanker	1,321	1,281	1,286	71	69	94	1,250	1,212	1,192
Gulf	4,026	4,270	5,074	2,829	2,882	3,738	1,197	1,388	1,336
Dry cargo	3,709	3,849	4,393	2,623	2,542	3,135	1,086	1,307	1,258
Tanker	317	421	681	206	340	603	111	81	78
Pacific	2,498	2,856	3,050	1,260	1,246	1,754	1,239	1,610	1,296
Dry cargo	2,223	2,580	2,707	1,165	1,151	1,632	1,058	1,429	1,075
Tanker	275	276	343	94	95	122	181	181	221
Great Lakes	674	1,047	1,139	353	568	680	321	479	459
Dry cargo	653	1,001	1,075	334	531	625	319	470	450
Tanker	22	47	65	19	38	56	3	9	9

Source: Department of Commerce, Bureau of the Census; *United States Foreign Waterborne Commerce*, annual review.

No. 816. Waterborne Exports and Imports—Shipping Weight of Principal Commodities in Oceanborne Trade: 1959 and 1960

[In thousands of short tons. Includes trade of Alaska, Hawaii, and Puerto Rico with foreign countries. Export data exclude shipments of under $500 in value. Import data exclude shipments of under $100 in value. "N.e.c." means not elsewhere classified]

Commodity	1959	1960	Commodity	1959	1960
Exports			Imports		
Bituminous coal and lignite	24,835	24,904	Crude petroleum	53,894	56,245
Wheat	10,351	14,550	Residual fuel oil	36,355	37,893
Iron and steel scrap	3,886	5,669	Iron ore and concentrates	29,799	20,604
Corn	4,868	4,694	Aluminum ores and concentrates	10,124	10,578
Phosphate rock	3,489	4,079	Gypsum or plaster rock	5,924	5,261
Soybeans, inedible	3,091	3,417	Sugar	4,552	4,702
Residual fuel oil	3,348	3,021	Petroleum products, n.e.c.	3,670	3,333
Grain sorghums	2,877	2,619	Iron and steel mill products	4,067	3,274
Iron and steel mill products	1,336	2,320	Manganese	2,561	2,742
Lubricating oils and greases	2,013	2,297	Molasses, inedible	1,523	2,547
Sulphur	1,783	1,908	Bananas	1,766	1,970
Wheat flour and semolina	1,308	1,888	Coffee, raw or green	1,551	1,475
Cotton, unmanufactured	1,062	1,886	Chrome	1,509	1,428
Barley and rye	2,213	1,560	Standard newsprint paper	1,342	1,425
Gas oil and distillate fuel oil	1,464	1,221	Lumber and shingles	1,428	1,338
Wood pulp	604	1,108	Gas oil and distillate fuel oil	2,059	1,268
Rice	762	1,094	Petroleum asphalt	1,195	1,155
Coke, including petroleum coke	713	987	Pulpwood	979	1,104
Iron ore and concentrates	578	948	Non-metallic minerals and manufactures, n.e.c.	943	896
Lumber and shingles	655	889	Wood pulp	876	736
Inedible animal products, n.e.c.	809	888	Sulphur	666	659
Chemical specialties, n.e.c.	753	881	Salt	405	655
Industrial chemicals, n.e.c.	1,235	853	Nitrogenous fertilizer	887	616
Animal feeds, n.e.c.	847	743	Building cement	694	614
Paper and manufactures, n.e.c.	622	703	Copper ores and concentrates	576	556

Source: Department of Commerce, Bureau of the Census; *United States Foreign Waterborne Commerce*, annual review.

No. 817. Commerce of Selected United States Ports: 1960

[In thousands of short tons (cargo). Excludes Great Lakes. In addition to commerce here shown, many ports have (a) commerce with ports on internal rivers and canals; (b) purely local port traffic]

PORT	Imports	Exports	Coastwise Receipts	Coastwise Shipments
Total [1]	198,466	104,810	209,114	209,169
ATLANTIC COAST PORTS				
Portland Harbor, Maine	12,407	119	3,171	387
Portsmouth Harbor, N. H	650	3	744	-------
Salem Harbor, Mass	127	-------	1,254	2
Boston, Mass	5,510	933	10,740	813
New Bedford and Fairhaven Harbor, Mass	50	(2)	114	7
Fall River Harbor, Mass	595	(2)	1,437	53
Providence River and Harbor, R. I	1,156	110	5,878	489
New London Harbor, Conn	479	(2)	509	55
New Haven Harbor, Conn	1,044	2	5,521	1,121
Bridgeport Harbor, Conn	418	113	1,292	270
Norwalk Harbor, Conn	-------	-------	588	-------
Stamford Harbor, Conn	-------	-------	729	60
Port of New York, N.Y., and N.J	37,455	7,584	42,812	13,775
Hempstead Harbor, N. Y	-------	-------	1,795	4,105
Huntington Harbor, N. Y	-------	-------	496	-------
Port Jefferson Harbor, N. Y	13	-------	1,249	23
Port of Albany, N.Y	487	374	4,080	16
Delaware River and tributaries	43,603	2,736	28,429	7,542
Baltimore Harbor and Channels, Md	20,176	4,907	6,980	1,664
Norfolk Harbor, Va	2,832	17,490	6,171	3,903
Port of Newport News, Va	2,023	8,557	25	1,586
Morehead City Harbor, N. C	217	77	227	23
Port of Wilmington, N. C	472	282	2,998	32
Charleston Harbor, S. C	1,346	471	2,399	219
Savannah Harbor, Ga	1,899	616	1,503	133
Jacksonville Harbor, Fla	2,055	328	3,331	221
Palm Beach Harbor, Fla	420	177	18	-------
Port Everglades Harbor, Fla	878	128	3,129	136
Miami Harbor, Fla	342	124	360	47
San Juan Harbor, P. R	1,827	66	1,327	753
Mayaguez Harbor, P. R	42	7	129	68
Ponce Harbor, P. R	76	26	197	429
GULF COAST PORTS				
Charlotte Harbor, Fla	91	222	135	670
Tampa Harbor, Fla	966	4,381	5,415	1,782
Port St. Joe Harbor, Fla	-------	16	1,595	-------
Panama City Harbor, Fla	36	141	272	4
Pensacola Harbor, Fla	75	65	-------	15
Mobile Harbor, Ala	6,442	1,786	389	1,547
New Orleans, La	5,423	9,144	930	12,408
Baton Rouge, La	3,767	3,422	313	8,049
Lake Charles, La. [3]	163	720	1,299	7,445
Galveston, Tex	299	4,684	116	371
Texas City, Tex	179	350	453	6,865
Houston, Tex	2,921	6,981	1,318	25,600
Corpus Christi, Tex	3,759	1,665	149	9,600
Harbor Island, Tex	64	(2)	-------	4,397
Freeport Harbor, Tex	18	174	33	1,914
Brazos Island Harbor, Tex	83	307	67	502
Beaumont, Tex	318	873	1,325	17,013
Port Arthur, Tex	111	2,627	3,290	18,458
PACIFIC COAST PORTS				
San Diego Harbor, Calif	358	134	1,522	9
Long Beach Harbor, Calif	2,498	2,266	957	3,211
Los Angeles Harbor, Calif	4,984	3,181	5,336	8,306
San Francisco Bay Area, Calif	6,907	4,720	12,196	10,507
Crescent City Harbor, Calif	-------	-------	179	153
Humboldt Harbor and Bay, Calif	(2)	130	193	83
Stockton, Calif	104	1,642	164	350
Coos Bay, Oreg	1	433	271	672
Portland, Oreg	569	2,790	5,227	290
Astoria, Oreg	14	84	95	38
Vancouver, Wash	31	1,073	171	89
Longview, Wash	131	1,165	377	104
Tacoma Harbor, Wash	578	1,202	677	254
Seattle Harbor, Wash	975	1,266	3,525	751
Bellingham Bay and Harbor, Wash	679	84	26	63
Port Angeles Harbor, Wash	198	50	205	21
Seward Harbor, Alaska	(2)	-------	505	112
Honolulu Harbor, Hawaii	575	114	3,211	1,142
Kahului Harbor, Maui, Hawaii	3	13	260	362
Hilo Harbor, Hawaii	1	5	358	444
Nawiliwili Harbor, Hawaii	1	4	95	276

[1] Includes data for ports not shown separately.
[2] Less than 500 tons.
[3] Includes Calcasieu River and Pass.

Source: Department of the Army, Corps of Engineers; *Waterborne Commerce of the United States.*

No. 818. Commerce of Selected Great Lakes Ports: 1950 to 1960

[In thousands of short tons (cargo). Comprises foreign, lakewise, and coastwise shipping]

PORT	RECEIPTS				SHIPMENTS			
	1950	1955	1959	1960	1950	1955	1959	1960
Total	175,637	193,591	146,187	168,043	193,511	207,588	151,817	178,287
Ashland Harbor, Wis	685	451	394	404	5,422	4,527	1,459	1,170
Ashtabula, Ohio	10,447	9,455	6,224	7,773	3,302	3,586	3,170	2,450
Buffalo, N.Y., Port of	16,458	19,318	12,588	15,595	2,417	2,436	1,190	1,226
Chicago, Ill., Port of	15,813	16,872	12,247	12,303	4,093	6,349	9,192	8,411
Cleveland, Ohio	17,375	19,744	11,740	17,113	382	358	581	451
Conneaut Harbor, Ohio	9,562	14,139	4,652	6,570	2,522	994	504	588
Detroit, Mich., Port of	21,090	24,295	24,011	25,334	1,298	1,626	1,805	1,892
Duluth-Superior, Minn. and Wis	10,117	7,142	5,594	5,155	53,009	61,156	25,868	37,512
Indiana Harbor, Ind	10,355	13,695	8,382	12,116	5,182	6,386	6,859	7,059
Lorain Harbor, Ohio	8,153	5,563	2,950	5,036	3,264	2,258	1,478	1,659
Milwaukee Harbor, Wis	7,357	7,157	7,226	6,861	1,421	1,532	1,572	1,647
Sandusky Harbor, Ohio	1	1	49	38	9,822	7,961	6,393	5,616
Toledo Harbor, Ohio	4,640	6,504	6,568	5,870	29,307	28,710	26,852	27,815
Two Harbors (Agate Bay), Minn	216	99	-------	-------	18,948	19,004	9,080	15,266
All other	43,368	49,156	43,562	47,875	53,122	60,705	55,814	65,525

Source: Department of the Army, Corps of Engineers; 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 819. Freight Carried on Inland Waterways, by System: 1940 to 1960

[In millions of ton-miles. Excludes Alaska and Hawaii]

SYSTEM	1940	1945	1950	1955	1959	1960
Total	118,057	142,737	163,344	216,508	196,559	220,122
Atlantic coast rivers	1,859	1,036	6,497	27,042	29,068	28,452
Gulf coast rivers	593	345	1,229	13,860	16,565	16,932
Pacific coast rivers	1,229	1,555	1,686	4,736	5,311	6,001
Mississippi River System [1]	13,934	19,595	33,598	52,019	65,721	69,257
Other waterways [2]	10	9	8	5	13	12
Canals and connecting channels [3]	4,787	7,168	8,639	-------	-------	-------
Great Lakes system	95,645	113,028	111,687	118,845	79,880	99,468

[1] Comprises main channels and all tributaries of the Mississippi, Illinois, Missouri, and Ohio Rivers.
[2] Beginning 1959, includes Alaskan waterways.
[3] Except Great Lakes. Beginning 1955, distributed by inland waterway system.

Source: Department of the Army, Corps of Engineers; figures through 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 820. Freight Carried on Great Lakes System: 1960

[In thousands of ton-miles]

AREA	Total	DOMESTIC				FOREIGN	
		Lakewise	Coastwise	Internal	Local and intraport	Canadian	Overseas
Total	99,468,198	79,749,253	59,797	699,094	95,506	13,797,042	5,067,506
Lake Superior	27,966,971	24,622,948	-------	-------	203	2,491,584	852,236
St. Marys River	5,225,808	4,462,228	-------	-------	1	623,714	139,865
Lake Michigan, including Port of Chicago [1]	18,265,756	16,125,505	7,719	476,091	78,676	1,147,363	430,402
Lake Huron	22,401,573	18,838,623	6,633	11,327	1,698	2,697,520	845,772
St. Clair River, including channels in Lake St. Clair	5,475,910	4,554,700	1,641	2,625	427	703,658	212,859
Detroit River	3,070,820	2,544,336	1,822	4,161	636	389,646	130,219
Lake Erie, including upper Niagara River	12,969,248	8,513,387	24,369	88,350	13,864	3,300,778	1,028,500
Welland Canal	550,285	9,684	2,831	16,061	-------	391,457	130,252
Lake Ontario, including lower Niagara River	2,310,852	68,309	14,782	92,462	1	1,362,397	772,901
St. Lawrence River, between International Boundary Line and Lake Ontario	1,230,975	9,533	-------	8,017	-------	688,925	524,500

[1] Comprises Chicago Harbor, North Branch, South Branch, Sanitary Ship Canal, Calumet-Sag Channel, Lake Calumet, Calumet Harbor and River.

Source: Department of the Army, Corps of Engineers; *Waterborne Commerce of the United States*.

No. 821. Freight Carried on Mississippi River System: 1940 to 1960

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

Year	Traffic in short tons (1,000)					Traffic in ton-miles (1,000,000)				
	Total	Inland	Coastwise	Foreign		Total	Inland	Coastwise	Foreign	
				Imports	Exports				Imports	Exports
1940	88,980	73,174	9,001	3,157	3,649	13,934	11,578	1,523	385	447
1945	95,543	82,081	4,954	3,114	5,394	19,595	17,738	849	340	668
1950	138,145	114,697	13,877	4,395	5,176	33,598	30,282	2,074	599	643
1955	194,363	163,760	16,060	6,296	8,248	52,019	47,418	2,473	1,046	1,082
1956	212,818	179,257	16,567	7,303	9,691	56,786	51,733	2,508	1,232	1,312
1957	227,028	188,214	17,643	8,536	12,635	60,710	54,769	2,734	1,459	1,749
1958	209,881	172,582	16,996	10,475	9,828	59,208	53,443	2,507	1,811	1,446
1959	223,950	183,909	19,146	10,424	10,471	65,721	59,565	2,811	1,732	1,614
1960	233,959	188,098	21,994	11,284	12,584	69,257	62,367	3,184	1,821	1,884

No. 822. Commerce on Selected Rivers, Canals, and Connecting Channels: 1940 to 1960

[In thousands of short tons (cargo). Excludes general ferry traffic and nonregulated car ferry traffic]

Waterway	1940	1945	1950	1955	1959	1960
Rivers						
Hudson River, N. Y. (Mouth of Spuyten Duyvil Creek to Waterford, N. Y.)	11,516	5,747	14,574	20,203	20,737	19,062
Delaware River, Philadelphia, Pa., to Trenton, N. J.	4,410	4,261	7,086	11,010	12,956	14,919
Delaware River, Philadelphia, Pa., to the sea	27,658	29,558	69,283	86,754	102,747	98,824
Potomac River below Washington, D. C.	3,016	1,936	2,402	3,796	4,603	4,378
James River, Va.	2,649	1,469	3,663	5,197	5,415	5,186
Wilmington Harbor, N. C.	[1] 2,785	[1] 1,169	4,022	4,693	4,368	5,168
Black Warrior, Warrior, and Tombigbee Rivers, Ala.	1,890	1,492	2,603	4,221	5,756	5,804
San Joaquin River, Calif.	1,049	1,220	1,495	2,414	3,679	4,467
Columbia and Lower Willamette Rivers below Vancouver, Wash., and Portland, Oreg.	15,028	16,635	18,578	19,826	20,631	21,867
Columbia River from Vancouver, Wash., to The Dalles, Oreg.	1,884	1,417	2,845	3,216	3,758	4,349
Willamette River above Portland and Yamhill River, Oreg.	3,067	2,877	3,948	4,290	3,724	4,065
Illinois Waterway, Ill.	5,729	6,591	16,421	21,363	26,392	26,929
Mississippi River, Minneapolis, Minn., to the Passes	32,372	43,969	66,923	94,042	120,278	128,348
Allegheny River, Pa.	3,929	2,416	3,594	4,722	4,034	3,833
Monongahela River, Pa. and W. Va.	29,560	26,556	28,510	37,618	27,174	29,533
Kanawha River, W. Va.	4,499	4,499	6,388	7,644	9,714	10,080
Ohio River, Pittsburgh to mouth	29,549	33,868	48,598	71,461	80,801	79,478
Cumberland River, Tenn. and Ky.	852	814	1,647	2,878	2,898	2,815
Tennessee River, Tenn., Ala., and Ky.	2,207	2,163	3,051	9,975	12,037	12,441
Federal canals and connecting channels						
Cape Cod Canal, Mass.	7,901	14,684	13,625	13,388	12,583	12,135
Inland Waterway from Delaware River to Chesapeake Bay, Del. and Md.	3,795	3,690	7,298	9,151	8,852	8,899
Lake Charles Deep Water Channel, La.	8,601	10,288	12,164	14,901	18,448	19,483
Gulf Intracoastal Waterway, Apalachee Bay, Fla., to the Mexican border	11,643	23,045	31,520	41,379	51,306	54,948
Sabine-Neches Waterway, Tex.	38,433	26,318	48,385	56,234	62,447	68,693
Port Aransas (Aransas Pass) Corpus Christi Waterway, Tex.	14,180	13,074	21,132	24,330	24,112	24,840
Detroit River, Mich.	18,294	127,045	127,292	132,507	92,618	111,165
St. Marys Falls Canal, Mich.	89,360	112,983	106,140	114,649	69,645	89,699
Grays Reef Passage, Mich.	5,962	4,905	6,045	5,399	5,900	5,230
State canals						
New York State Barge Canal	4,768	2,969	4,616	4,616	3,720	3,415
Innerharbor Navigation Canal, La.	2,687	1,430	2,338	3,834	6,064	6,004

[1] Reported as "Cape Fear River at and below Wilmington, N. C."

Source of tables 821 and 822: Department of the Army, Corps of Engineers; 1940 through 1950, *Annual Report of the Chief of Engineers*, Part 2; thereafter, *Waterborne Commerce of the United States*.

No. 823. Commercial Traffic Through the Panama Canal, 1940 to 1961, and by Nationality of Vessel, 1961

[For years ending June 30. Comprises oceangoing tolls-paying vessels and foreign naval vessels of 300 net tons and over (Panama Canal measurement) for vessels rated on net tonnage, or 500 tons displacement and over for vessels rated on displacement tonnage. See also *Historical Statistics, Colonial Times to 1957*, series Q 235-237]

Year	Number of transits	Net tonnage[1] (1,000)	Tolls ($1,000)	Tons of cargo (1,000 long tons)
1940	5,370	24,144	21,145	27,299
1941	4,727	20,643	18,158	24,951
1942	2,688	11,010	9,752	13,607
1943	1,822	8,234	7,357	10,600
1944	1,562	6,073	5,456	7,003
1945	1,939	8,381	7,244	8,604
1946	3,747	17,517	14,774	14,978
1947	4,260	20,233	17,597	21,671
1948	4,678	22,902	19,957	24,118
1949	4,793	23,473	20,541	25,305
1950	5,448	28,013	24,430	28,872
1951	5,593	27,180	23,906	30,073
1952	6,524	30,674	26,923	33,611
1953	7,410	36,679	31,918	36,095
1954	7,784	38,028	33,248	39,095
1955	7,997	38,568	33,849	40,646
1956	8,209	41,203	36,154	45,119
1957	8,579	43,628	38,444	49,702
1958	9,187	47,924	41,796	48,125
1959	9,718	52,154	45,520	51,153
1960	10,795	58,302	50,939	59,288
1961	10,866	61,826	54,128	63,670

Nationality of vessel, 1961	Number of transits	Net tonnage[1] (1,000)	Tolls ($1,000)	Tons of cargo (1,000 long tons)
Chile	108	652	587	839
China	63	283	253	364
Colombia	244	916	823	467
Denmark	340	1,678	1,474	1,210
Ecuador	49	171	160	78
France	133	825	732	785
Germany	1,129	4,498	3,902	3,246
Great Britain	1,190	8,016	7,064	7,607
Greece	612	4,028	3,522	5,950
Honduras	145	354	294	174
Israel	47	101	89	92
Italy	191	1,290	1,135	1,075
Japan	863	5,055	4,538	5,152
Liberia	1,044	6,600	5,630	9,039
Netherlands	485	2,625	2,301	2,645
Nicaragua	45	112	100	86
Norway	1,324	8,242	7,095	8,626
Panama	383	1,718	1,460	2,008
Peru	102	309	285	434
Philippine Islands	59	372	336	389
Sweden	314	1,809	1,575	1,654
United States	1,792	11,273	9,997	10,867
All other	204	900	776	882

[1] Panama Canal net.

Source: Panama Canal Company; *Annual Report*.

No. 824. Vessels Entered and Cleared in Foreign Trade—Net Registered Tonnage, Customs Districts: 1955 to 1961

[In thousands of net tons. Includes Alaska, Hawaii, and Puerto Rico. Excludes domestic trade]

Customs district and tonnage	1955	1956	1957	1958	1959	1960	1961
Entered							
North Atlantic Coast	71,159	80,959	87,616	79,266	76,304	75,829	75,032
With cargo	57,844	61,856	64,865	65,628	68,870	66,589	64,879
South Atlantic Coast	6,000	6,414	6,957	7,350	8,586	8,827	8,307
With cargo	5,292	5,551	5,992	6,688	7,845	7,808	7,303
Gulf Coast	17,434	20,629	24,022	22,233	22,532	27,022	30,237
With cargo	11,795	12,576	13,777	15,409	15,822	15,616	15,661
South Pacific Coast	9,582	11,562	13,949	13,391	15,277	17,148	18,200
With cargo	7,547	9,569	11,492	11,415	13,477	15,007	15,332
North Pacific Coast	6,385	7,176	8,453	8,235	9,154	10,133	9,851
With cargo	4,395	4,465	5,061	6,165	7,089	7,551	6,981
Great Lakes	14,597	17,077	16,781	12,806	16,369	16,937	17,593
With cargo	4,631	5,542	5,460	4,590	8,133	7,771	7,826
Puerto Rico, Alaska, Hawaii, and Virgin Islands	3,247	4,027	5,148	5,817	5,992	6,869	7,326
With cargo	2,678	3,423	4,301	4,976	5,267	5,968	6,369
Cleared							
North Atlantic Coast	71,240	80,274	85,947	79,032	76,923	80,842	79,127
With cargo	38,903	45,294	49,515	39,982	35,216	35,510	35,964
South Atlantic Coast	5,846	6,281	7,197	7,135	7,415	8,612	8,759
With cargo	3,635	4,000	4,485	4,444	4,582	5,121	5,362
Gulf Coast	17,289	20,805	24,402	22,240	24,109	25,218	27,235
With cargo	13,320	16,779	19,950	16,287	17,963	18,825	20,385
South Pacific Coast	11,172	12,941	14,817	14,226	15,502	18,007	18,616
With cargo	10,598	11,067	11,504	11,381	12,765	14,602	14,485
North Pacific Coast	5,060	6,219	7,710	7,123	8,367	9,444	9,473
With cargo	4,130	5,007	6,157	5,189	5,946	6,923	7,415
Great Lakes	14,561	16,878	16,624	12,714	16,244	16,937	17,583
With cargo	11,831	13,558	13,654	10,366	11,882	13,106	13,791
Puerto Rico, Alaska, Hawaii, and Virgin Islands	4,200	4,872	5,882	6,346	6,946	7,654	8,085
With cargo	3,077	3,138	3,768	3,741	3,736	3,491	3,663

Source: Department of Commerce, Bureau of the Census; current summary reports, FT 975 *Vessel Entrances and Clearances*.

No. 825. Vessels Entered and Cleared in Foreign Trade—Net Registered Tonnage, by Classes: 1936 to 1961

[In thousands of net tons, except number of vessels and percentages. Includes Alaska, Hawaii, and Puerto Rico. Excludes domestic trade. See also *Historical Statistics, Colonial Times to 1957*, series Q 192–203]

Yearly average or year	All ports					Seaports [1]					
	Number of vessels	All vessels				All vessels			With cargo		
		Total tonnage	U. S.	Foreign	Percent U. S.	Total tonnage	U. S.	Foreign	Total tonnage	U. S.	Foreign
ENTERED											
1936–1940	33,954	67,117	19,243	47,873	28.7	55,521	16,090	39,432	41,951	13,865	28,086
1941–1945	38,997	67,994	34,658	33,336	51.0	52,620	30,059	22,560	28,995	16,877	12,118
1946–1950	48,813	87,462	46,205	41,257	52.8	75,094	42,168	32,926	50,288	26,318	23,970
1951–1955	48,082	114,990	39,459	75,531	34.3	100,657	35,345	65,313	78,407	26,759	51,649
1956–1960	*51,874*	*155,368*	*31,118*	*124,251*	*20.0*	*139,375*	*26,938*	*112,436*	*110,023*	*21,884*	*88,139*
1952	50,076	116,375	45,223	71,152	38.9	101,263	40,732	60,532	73,973	28,496	45,477
1953	47,802	112,559	39,319	73,240	34.9	97,344	34,969	62,375	79,410	26,794	52,616
1954	45,651	109,524	33,860	75,664	30.9	97,198	30,133	67,065	82,234	25,167	57,067
1955	48,415	128,405	34,321	94,084	26.7	113,807	30,407	83,400	89,552	25,331	64,220
1956	52,999	147,844	36,247	111,598	25.5	130,767	31,254	99,514	97,442	26,224	71,218
1957	55,308	162,925	35,898	127,027	22.0	146,144	31,191	114,954	105,487	24,928	80,559
1958	48,455	149,097	26,842	122,255	18.0	136,291	23,642	112,648	110,280	19,806	90,474
1959	51,237	154,213	26,417	127,796	17.1	137,845	21,897	115,947	118,370	18,510	99,860
1960	51,375	162,765	30,189	132,575	18.5	145,828	26,708	119,119	118,539	19,955	98,584
1961	47,828	166,548	31,144	135,404	18.7	148,955	28,266	120,688	116,525	18,779	97,746
CLEARED											
1936–1940	32,706	68,541	19,448	49,093	28.4	56,967	16,302	40,665	46,126	13,116	33,009
1941–1945	38,195	71,792	37,283	34,509	51.9	56,304	32,585	23,718	45,147	26,377	18,770
1946–1950	45,135	87,190	44,942	42,244	51.5	74,889	40,933	33,953	54,584	29,510	25,073
1951–1955	45,324	115,447	39,533	75,914	34.2	101,213	35,531	65,682	68,396	25,407	42,989
1956–1960	49,079	156,376	31,157	125,219	19.9	140,498	27,018	113,478	85,273	19,791	65,481
1952	46,501	114,797	43,726	71,071	38.1	99,703	39,273	60,429	71,111	29,451	41,660
1953	*44,757*	*112,935*	*39,188*	*73,747*	*34.7*	*97,627*	*34,775*	*62,852*	*64,889*	*24,786*	*40,103*
1954	42,966	109,899	33,579	76,321	30.6	97,674	29,969	67,706	61,561	19,679	41,883
1955	46,642	129,368	34,407	94,961	26.6	114,806	30,615	84,192	73,663	20,763	52,900
1956	50,735	148,269	36,317	111,952	24.5	131,391	31,510	99,881	85,285	21,262	64,023
1957	52,687	162,578	35,118	127,460	21.6	145,954	30,569	115,385	95,379	22,067	73,312
1958	46,115	148,816	26,449	122,366	18.0	136,102	23,324	112,778	81,024	18,711	62,313
1959	49,608	155,505	26,623	128,883	17.1	139,262	22,042	117,221	80,208	18,269	61,939
1960	49,809	166,715	31,280	135,434	18.7	149,778	27,649	122,127	84,470	18,653	65,817
1961	46,354	168,878	31,941	136,936	18.9	151,295	29,062	122,233	87,273	18,952	68,321

[1] Comprises all ports except northern border ports.

Source: Department of Commerce, Bureau of the Census; *Foreign Commerce and Navigation of the United States*, and current summary reports, FT 975, *Vessel Entrances and Clearances*.

No. 826. Federal Expenditures (Costs) for Civil Functions of the Corps of Engineers, U.S. Army: 1940 to 1961

[In thousands of dollars. For years ending June 30. Includes Alaska, Hawaii, and outlying areas. Represents funds actually expended under the direction of the Chief of Engineers for maintenance and improvement of rivers and harbors, flood control, and other miscellaneous works]

Year	Amount	Year	Amount	Year	Amount
1940	213,889	1948	380,615	1956	556,724
1941	220,734	1949	572,830	1957	666,433
1942	198,041	1950	634,534	1958	718,532
1943	222,053	1951	620,581	1959	806,427
1944	175,589	1952	597,102	1960	868,573
1945	134,216	1953	*635,512*	*1961*	938,032
1946	168,957	1954	539,687		
1947	269,380	1955	511,587		

Source: Department of the Army, Corps of Engineers.

No. 827. Employees in Government and Private Shipyards, 1935 to 1960, and by Region, 1959 and 1960

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

Year	Total	Private yards [1]	Navy yards [2]
1935	68.5	48.7	19.8
1940	180.3	102.7	77.5
1941	377.0	236.0	141.0
1942	1,004.0	761.7	242.3
1943	1,655.5	1,336.9	318.6
1944	1,568.6	1,242.5	326.1
1945	1,033.9	741.9	292.0
1950	145.7	72.0	73.6
1951	223.3	102.2	121.2
1952	267.6	134.2	133.4
1953	255.0	131.2	123.8
1954	218.3	108.5	109.8
1955	208.0	101.0	107.0
1956	211.4	109.8	101.6
1957	224.6	126.9	97.7
1958	220.2	125.3	94.9
1959	214.1	120.9	93.2
1960	210.6	118.2	92.4

Year and region	Total	Private yards [1]	Navy yards [2]
1959:			
North Atlantic [3]	99.6	58.6	41.0
South Atlantic [4]	36.4	17.7	18.7
Gulf [5]	22.0	22.0	----------
Pacific [6]	47.5	14.0	33.5
Great Lakes [7]	4.6	4.6	----------
Inland [8]	4.0	4.0	----------
1960:			
North Atlantic [3]	93.6	52.1	41.5
South Atlantic [4]	37.8	19.5	18.3
Gulf [5]	21.3	21.3	----------
Pacific [6]	49.8	17.2	32.6
Great Lakes [7]	4.5	4.5	----------
Inland [8]	3.6	3.6	----------

[1] Includes all full- and part-time employees who worked during or received pay for any part of the pay period ending nearest the 15th of the month. Data have been adjusted to 1st quarter 1957 benchmark levels indicated by data from Government social insurance programs.
[2] Beginning 1942, includes Curtis Bay Coast Guard yard (Md.).
[3] Comprises yards bordering on the Atlantic in Conn., Del., Maine, Md., Mass., N. H., N. J., N. Y., Pa., R. I., Vt.
[4] Comprises yards bordering on the Atlantic in Ga., N. C., S. C., Va.
[5] Comprises all yards in Fla. and yards bordering on the Gulf of Mexico in Ala., La., Miss., Texas.
[6] Comprises yards in Calif., Oreg., Wash.
[7] Comprises yards bordering on Great Lakes in Ill., Mich., Minn., N. Y., Ohio, Pa., Wis.
[8] Comprises all other yards.

Source: Department of Labor, Bureau of Labor Statistics; current data published monthly in *Employment and Earnings*.

No. 828. Employment on U.S. Flag Merchant Vessels: 1935 to 1961

[As of June 30, except as indicated. Estimates of personnel employed on U. S. merchant ships, 1,000 gross tons and over. Excludes vessels on inland waterways, Great Lakes, and those owned by, or operated for, the United States Army and Navy, and special types such as cable ships, tugs, etc.]

Date	Employment	Date	Employment	Date	Employment
1935	56,150	1950	61,550	1960: Mar. 31	48,575
1940	49,810	1951	84,300	June 30	49,153
1941	51,280	1952	79,650	Sept. 30	48,846
1942	47,410	1953	72,750	Dec. 31	49,281
1943 (June 20)	75,000	1954	63,850		
1944 (June 20)	125,290	1955	57,507	1961: Mar. 31	48,972
1945 (June 20)	158,860	1956	57,192	June 30	[1] 30,930
1946 (June 20)	120,050	1957	61,059	Sept. 30	46,130
1947 (Dec. 20)	110,820	1958	51,515	Dec. 31	48,461
1948	80,250	1959	50,223		
1949	71,970				

[1] Result of Maritime strike, Atlantic, Gulf, and Pacific Coast Ports.

No. 829. Basic Wage Scale for Able-Bodied Seamen: 1935 to 1962

[Represents basic wage, over and above subsistence (board and room), paid to seamen having qualifying experience and employed on U.S. flag merchant vessels. Excludes overtime and fringe pay benefits]

Month established	Monthly wage rate	Area and month established	Monthly wage rate	Area and month established	Monthly wage rate
		East coast		West coast [1]	
In effect, Jan. 1, 1935	$55.00				
1940—January	72.50				
1941—February	90.00	1953—June	$314.41	1953—June	$314.41
1942—January	100.00	1956—June	333.27	1954—October	302.00
1945—October	145.00	1957—June	353.27	1955—November	423.00
1946—April	162.50	1960—January	369.17	1956—October	453.00
June	172.50	1961—June	383.94	1957—October	478.00
1947—February	182.85	In effect, June 16, 1962	392.58	1960—October	511.50
October	197.50			In effect, Jan. 1, 1962	511.50
1948—March	210.00				
December	226.00				
1950—September	248.50				
1951—October	288.00				
1952—April	302.40				

[1] Effective November 1955, based on 56 hours at sea and 40 hours in port for watchstanders. Includes penalty overtime.

Source of tables 828 and 829: Department of Commerce, Maritime Administration; records.

No. 830. United States Flag Merchant Vessels, Steam and Motor: 1940 to 1961

[*Dead-weight tonnage in thousands.* As of June 30, except as indicated. Covers seagoing vessels of 1,000 gross tons and over engaged in foreign and domestic trade, and inactive vessels. Excludes special types and vessels employed on Great Lakes]

Year and type of vessel	All vessels		Active vessels												Temporarily inactive		Reserve fleet		Special service	
			Total		Foreign trade		Domestic trade													
							Total		Coastwise		Intercoastal		Noncontiguous							
	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons	Number	Tons
1940	1,300	11,019	1,118	9,643	425	3,749	693	5,893	500	4,172	122	1,189	71	532	[1] 181	[1] 1,367	------	------	1	10
Combination	140	873	112	696	66	514	46	182	36	129	1	8	9	45	28	176	------	------	------	------
Cargo	790	6,020	641	4,882	291	2,443	350	2,438	188	988	109	1,033	53	417	148	1,129	------	------	1	10
Tankers	370	4,126	365	4,065	68	791	297	3,273	276	3,054	12	148	9	70	5	62	------	------	------	------
1946 (Sept. 30)	4,852	50,263	2,332	25,399	1,890	20,592	442	4,807	297	3,480	54	563	91	757	533	4,998	1,557	16,138	430	3,728
Combination	117	800	25	165	15	127	10	38	------	------	------	------	10	38	28	175	33	213	31	247
Cargo	3,829	36,675	1,833	18,110	1,607	16,200	226	1,910	101	728	53	561	72	617	450	4,198	1,159	11,069	387	3,298
Tankers	906	12,785	474	7,122	268	4,264	206	2,858	196	2,751	1	2	9	101	55	624	365	4,856	12	183
1950	3,408	36,526	1,145	13,828	711	8,353	434	5,474	279	3,716	87	1,131	68	626	86	845	2,177	21,853	------	------
Combination	83	639	51	417	45	389	6	28	------	------	------	------	6	28	4	27	28	195	------	------
Cargo	2,846	28,927	682	7,075	505	5,367	177	1,708	66	559	58	649	53	500	42	384	2,122	21,468	------	------
Tankers	479	6,959	412	6,335	161	2,597	251	3,737	213	3,157	29	482	9	98	40	434	27	190	------	------
1955	3,235	35,017	1,026	12,872	601	6,992	425	5,880	271	3,999	75	996	79	885	89	1,099	1,983	19,687	137	1,360
Combination [2]	249	1,687	40	371	39	361	1	10	------	------	------	------	1	10	14	68	185	1,166	10	82
Cargo	2,560	26,539	652	7,033	492	5,383	160	1,650	43	385	52	591	65	674	28	288	1,760	18,070	120	1,149
Tankers	426	6,790	334	5,468	70	1,248	264	4,220	228	3,614	23	405	13	201	47	742	38	451	7	129
1960	2,960	32,821	930	12,467	558	6,541	372	5,926	237	4,284	50	717	85	925	99	1,400	1,884	18,279	47	675
Combination [2]	306	2,044	36	319	34	305	2	14	------	------	------	------	2	14	4	31	265	1,686	1	6
Cargo	2,226	23,015	627	6,854	479	5,265	148	1,589	35	375	39	442	74	773	35	376	1,536	15,530	28	255
Tankers	428	7,762	267	5,295	45	972	222	4,323	202	3,910	11	275	9	138	60	993	83	1,062	18	414
1961	2,810	31,525	597	8,173	415	5,066	182	3,107	115	2,325	27	364	40	419	413	5,824	1,753	16,866	47	664
Combination [2]	300	2,012	17	152	17	152	------	------	------	------	------	------	------	------	18	171	262	1,669	3	20
Cargo	2,086	21,575	429	4,777	365	4,135	64	642	17	173	18	196	29	273	227	2,476	1,403	14,073	27	248
Tankers	424	7,941	151	3,246	33	781	118	2,465	98	2,152	9	168	11	145	168	3,176	88	1,125	17	395

[1] All inactive vessels.
[2] Includes ships originally constructed as cargo ships but converted to transports, hospital ships, etc., previously included in cargo classification as follows: 1955, 181 ships of 1,124,000t ons; 1960, 237 ships of 1,427,600 tons; 1961, 230 ships of 1,383,400 tons.

Source: Department of Commerce, Maritime Administration; records.

No. 831. Merchant Vessels Completed by U.S. Shipyards: 1930 to 1961

[Represents self-propelled steel vessels of 2,000 gross tons and over. Excludes Alaska and Hawaii]

Year	All merchant vessels		Passenger-cargo/transport			Cargo			Tanker		
	Number	Gross tons	Number	Gross tons	Deadweight tons	Number	Gross tons	Deadweight tons	Number	Gross tons	Deadweight tons
1930	18	163,500	5	50,311	39,269	2	15,824	24,000	11	97,365	161,219
1935	2	19,022							2	19,022	29,760
1940	53	444,727	6	68,943	61,222	31	227,275	334,660	16	148,509	238,852
1941	95	749,108	6	58,107	56,515	61	423,022	597,943	28	267,979	434,039
1942	724	5,392,848	11	101,847	81,290	652	4,678,880	6,842,689	61	612,121	982,381
1943	1,661	12,485,629	20	219,760	180,047	1,410	10,103,245	14,921,082	231	2,162,624	3,420,405
1944	1,463	11,403,163	48	461,201	330,311	1,175	8,455,475	11,857,797	240	2,486,397	3,954,957
1945	1,041	7,614,898	46	509,163	311,046	807	5,336,152	7,206,201	188	1,769,583	2,787,397
1950	26	404,617				3	26,854	43,500	23	377,763	608,593
1955	9	119,104				7	84,110	95,289	2	34,994	55,414
1956	8	113,298				2	6,844	15,032	6	106,454	169,377
1957	19	297,350				3	7,885	6,350	16	289,465	456,694
1958	30	571,886	4	60,700	34,707	5	48,211	66,681	21	462,975	759,496
1959	30	713,562	1	5,315	1,200	3	40,434	72,834	26	667,813	1,095,388
1960	26	409,736				15	133,592	163,309	11	276,144	455,672
1961	25	368,937				18	190,019	224,230	7	178,918	298,956

Source: American Bureau of Shipping, New York, N.Y.; published annually in *The Bulletin*.

No. 832. U.S. Merchant Marine—Number and Gross Tonnage of Vessels, by Tonnage Grouping: 1961

[As of January 1. Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more]

Tonnage grouping	All vessels		Steam		Motor		Sailing		Unrigged [1]	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
Total	**43,367**	**26,403**	**2,659**	**19,125**	**31,137**	**2,050**	**168**	**18**	**9,403**	**5,210**
5 to 49 tons	25,664	459	22	1	24,852	438	148	2	642	18
50 to 99 tons	3,851	266	41	3	3,393	232	4	(2)	413	31
100 to 499 tons	6,845	1,912	193	46	2,443	495	7	2	4,202	1,369
500 to 999 tons	3,549	2,542	60	42	198	130	5	4	3,286	2,365
1,000 to 4,499 tons	1,244	2,385	170	511	216	473	4	9	854	1,392
5,000 to 9,999 tons	1,803	13,329	1,768	13,081	29	212			6	36
10,000 to 19,999 tons	373	4,596	367	4,527	6	69				
20,000 tons and over	38	914	38	914						

[1] Vessels having no propelling power of their own. [2] Less than 500 gross tons.

No. 833. U.S. Merchant Marine—Number and Gross Tonnage of Vessels Built, and Removed: 1940 to 1960

[Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more. Vessels may be added to merchant marine by way of redocumentation. However, figures are available only for vessels documented. See also *Historical Statistics, Colonial Times to 1957*, series Q 178–182]

Year	Vessels built and documented				Gross tonnage of vessels removed (1,000)				
	Number	Gross tonnage (1,000)			Total	Lost and abandoned	Sold to aliens [3]	Sold to United States	All other
		Total [1]	Steam and motor	Unrigged [2]					
1940	705	447	386	61	1,697	274	1,114	(4)	308
1945	1,744	6,314	6,259	55	901	138	75	198	490
1950	861	194	103	91	1,238	163	488	147	440
1955	1,116	400	117	283	866	63	418	(5)	384
1956	1,385	446	152	293	890	60	274		557
1957	1,582	585	249	336	1,625	33	579		1,013
1958	1,390	837	406	431	961	35	87	(5)	838
1959	1,180	792	386	406	1,448	58	50	(5)	1,339
1960	949	629	352	277	3,065	55	249	1	2,760

[1] Includes small amount of tonnage for sailing vessels for certain years.
[2] Vessels having no propelling power of their own.
[3] Beginning 1955, sold or transferred to aliens. [4] Included in "All other." [5] Less than 500 gross tons.

Source of tables 832 and 833: Treasury Department, Bureau of Customs; annual report, *Merchant Marine Statistics*.

No. 834. U.S. Merchant Marine—Summary: 1930 to 1961

[As of June 30 for 1930 to 1940; January 1, thereafter. Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more. See also *Historical Statistics, Colonial Times to 1957*, series Q 153–174]

Year	Number of vessels			Gross tonnage of vessels (1,000)							
					Major class			Material of which built		Type of trade in which engaged [3]	
	Total	Steam and motor	All other	Total	Steam and motor	Sailing	Unrigged [1]	Metal [2]	Wood	Foreign trade	Coastwise and internal
1930	25,214	18,211	7,003	16,068	13,757	757	1,554	13,514	2,554	6,296	9,723
1935	24,919	18,495	6,424	14,654	12,535	441	1,677	12,469	2,185	4,560	10,049
1940	27,212	19,504	7,708	14,018	11,353	200	2,466	(4)	(4)	3,638	10,352
1945	29,797	22,772	7,025	32,813	30,247	115	2,452	30,898	1,915	26,043	6,766
1950	*36,083*	*28,793*	*7,290*	*31,215*	*28,327*	*82*	*2,806*	*29,263*	*1,952*	*19,154*	*12,048*
1952	37,389	30,189	7,200	30,416	27,459	66	2,891	28,559	1,857	19,279	11,134
1953	38,072	30,791	7,281	30,546	27,507	55	2,984	28,761	1,785	19,007	11,537
1954	39,008	31,565	7,443	30,764	27,631	46	3,087	28,982	1,782	18,974	11,787
1955	39,242	31,882	7,360	29,958	26,792	40	3,125	28,336	1,622	18,143	11,812
1956	39,499	32,030	7,469	29,610	26,251	34	3,326	28,073	1,537	17,765	11,843
1957	40,191	32,423	7,768	29,421	25,785	24	3,612	27,935	1,486	17,265	12,154
1958	41,276	32,988	8,288	28,586	24,599	23	3,965	27,118	1,469	16,206	12,376
1959	42,409	33,506	8,903	28,895	24,333	23	4,539	27,470	1,425	15,600	13,284
1960	43,088	33,640	9,448	28,581	23,553	23	5,005	27,184	1,397	14,737	13,833
1961	43,367	33,796	9,571	26,403	21,175	18	5,210	25,028	1,375	13,126	13,260

Area of location	Number of vessels					Gross tonnage of vessels (1,000)				
	1950	1955	1959	1960	1961	1950	1955	1959	1960	1961
Total	**36,083**	**39,242**	**42,409**	**43,088**	**43,367**	**31,215**	**29,958**	**28,895**	**28,581**	**26,403**
Atlantic and Gulf	21,623	23,355	24,958	24,963	25,063	20,420	20,402	19,266	18,926	16,751
Pacific	10,066	10,687	10,870	10,828	10,876	8,446	7,004	6,312	5,782	5,313
Northern lakes	2,026	2,005	1,970	1,950	2,020	1,628	1,590	1,627	1,728	2,121
Western rivers	2,368	3,195	4,611	5,347	5,408	721	962	1,691	2,145	2,218

[1] Vessels having no propelling power of their own.
[2] Comprises iron, steel, composite, concrete, and aluminum. Beginning 1961, includes plastic (fiberglass).
[3] Excludes vessels engaged in whale, cod, and mackerel fisheries.
[4] Not available.

No. 835. U.S. Merchant Marine—Number and Gross Tonnage of Vessels, by Year of Build: 1961

[As of January 1. Includes Alaska, Hawaii, Puerto Rico, Guam, and Virgin Islands. Covers documented vessels of 5 net tons or more]

Year of build	Number	Gross tons	Year of build	Number	Gross tons	Year of build	Number	Gross tons
Total	**43,367**	**26,402,986**	1930–1940	3,721	802,082	1950	1,031	236,992
			1941	899	458,336	1951	1,093	345,250
Unknown	621	45,548	1942	1,338	1,946,573	1952	1,099	463,291
1849–1900	640	197,124	1943	1,885	3,890,425	1953	1,313	663,090
1901–1905	519	338,332	1944	2,151	4,315,606	1954	1,270	586,227
1906–1910	812	846,696	1945	1,819	4,059,483	1955	1,261	432,400
1911–1915	1,162	285,943	1946	1,500	602,258	1956	1,565	491,048
1916–1920	1,497	381,133	1947	1,402	290,667	1957	1,815	660,661
1921–1925	1,711	417,087	1948	1,287	249,623	1958	1,513	844,887
1926–1930	3,129	604,593	1949	1,125	209,369	1959	1,307	827,206
1931–1935	1,933	281,761				1960	949	620,295

Source of tables 834 and 835: Treasury Department, Bureau of Customs; annual report, *Merchant Marine Statistics*.

No. 836. Merchant Vessels Launched and Owned, for the World and the United States: 1935 to 1961

[Vessels of 100 gross tons and over. Includes Alaska and Hawaii. Beginning 1945, excludes sailing ships, non-propelled craft, and all ships built of wood]

Year	World				United States			
	Launched		Owned		Launched		Owned	
	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)	Number	Gross tons (1,000)
1935	[1] 1,040	[1] 2,595	30,979	64,886	[1] 117	[1] 244	3,585	12,773
1940	495	1,754	(2)	(2)	167	579	(2)	(2)
1945	1,311	7,189	(2)	(2)	880	5,968	(2)	(2)
1950	990	3,489	27,922	83,996	51	437	4,531	27,404
1955	1,437	5,315	29,967	100,009	26	73	4,225	26,343
1956	1,815	6,670	30,620	104,720	50	169	4,157	26,074
1957	1,950	8,501	31,421	109,778	54	359	4,116	25,843
1958	1,936	9,270	32,857	117,578	64	732	4,054	25,526
1959	1,808	8,746	33,924	124,494	47	597	3,964	25,227
1960	2,020	8,356	34,056	129,339	60	485	3,845	24,781
1961	1,990	7,940	35,465	135,477	56	343	3,728	24,184

[1] 1935–1939 average. [2] Not recorded.

Source: Lloyd's Register of Shipping, London; records.

No. 837. Merchant Fleets of the World—Number and Average Age of Vessels, by Type of Vessel and Country of Registration: 1960

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

Country of registry	Total		Combination passenger and cargo		Freighters		Bulk carriers [1]		Tankers	
	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)	Number	Average age (years)
World total	**17,317**	**13.6**	**1,254**	**18.8**	**11,512**	**14.5**	**1,185**	**10.9**	**3,366**	**9.7**
United States	**2,926**	**15.9**	**309**	**16.3**	**2,138**	**16.3**	**57**	**15.7**	**422**	**13.7**
Privately owned	1,008	14.4	37	13.8	576	15.2	57	15.7	338	12.9
Government-owned	1,918	16.7	272	21.6	1,562	16.7	-------	-------	84	16.5
Foreign	**14,391**	**13.2**	**945**	**19.7**	**9,374**	**14.1**	**1,128**	**10.7**	**2,944**	**9.1**
Argentina	151	20.5	22	18.3	75	20.4	3	38.0	51	20.6
Australia	120	12.8	10	19.4	69	13.1	40	10.7	1	5.0
Brazil	227	23.0	25	43.8	147	24.9	15	13.5	40	6.6
China (mainland)	141	23.3	12	31.5	107	23.5	8	17.5	14	18.3
Denmark	349	9.2	24	23.2	254	8.8	4	7.0	67	5.5
Finland	225	20.7	8	38.4	176	20.8	16	26.9	25	10.2
France	641	9.4	58	12.7	387	9.7	49	7.9	147	8.1
Germany (West)	862	9.0	24	13.1	738	8.7	51	10.2	49	9.3
Greece	602	14.3	31	25.5	442	14.2	54	14.9	75	9.8
India	150	10.9	12	14.8	135	10.6	-------	-------	3	7.7
Italy	656	17.6	76	18.6	393	20.0	41	12.5	146	12.1
Japan	1,036	9.0	24	15.1	819	9.3	63	6.7	130	7.0
Liberia	875	11.1	5	26.2	385	14.9	104	9.1	381	7.6
Netherlands	557	9.6	59	14.9	372	9.4	21	3.6	105	8.7
Norway	1,336	9.1	30	12.9	716	10.5	89	5.8	501	7.5
Panama	495	19.0	21	26.3	267	23.4	45	17.2	162	11.1
Poland	123	14.0	2	21.5	107	13.7	9	16.4	5	12.0
Spain	337	29.2	44	22.4	221	34.4	17	27.5	55	14.2
Sweden	564	12.5	24	23.3	379	13.9	62	10.0	99	6.5
Turkey	135	29.4	30	24.9	91	32.0	3	42.7	11	17.3
United Kingdom	2,413	10.2	180	15.2	1,395	10.6	267	8.0	571	8.7
U.S.S.R.	873	18.0	73	27.9	568	20.7	98	7.9	134	8.4
Yugoslavia	140	15.5	10	16.0	119	15.5	2	32.0	9	11.6
All other [2]	1,383	16.0	141	18.6	1,012	15.5	67	20.6	163	14.5

[1] Includes ore carriers and ore/oil carriers.

[2] Includes the following countries with less than 100 merchant type ships (1,000 gross tons and over) under their registry: Albania, Belgium, British Colonies (British Commonwealth), Bulgaria, Burma, Canada, Ceylon, Chile, China (Taiwan), Colombia, Costa Rica, Cuba, Czechoslovakia, Dominican Republic, Ecuador, Ethiopia, Germany (East), Ghana, Guatemala, Honduras, Hungary, Iceland, Indonesia, Iran, Ireland, Israel, Korea, Kuwait, Lebanon, Libya, Mexico, Monaco, Morocco, New Zealand, Nicaragua, Nigeria, Pakistan, Peru, Philippines, Portugal, Romania, Saudi Arabia, Switzerland, Thailand, Tunisia, South Africa, United Arab Republic, Uruguay, Venezuela, and Viet-Nam.

Source: Department of Commerce, Maritime Administration; *A Statistical Analysis of the World's Merchant Fleets*, December 1960.

Section 23

Agriculture—Farms, Land, and Finances

This section presents statistics concerning the basic structure of our agricultural economy. Included are data on farm population; number, acreage, value, and ownership of farms; land utilization, irrigation, drainage, and soil conservation; and farm income, expenditures, debt, and prices. The principal sources of these data are reports issued by the Bureau of the Census, which conducts a Census of Agriculture every 5 years and Censuses of Irrigation and of Drainage every 10 years; the annual *Crop Report and Related Data, Federal Reclamation Projects*, issued by the Bureau of Reclamation, Department of the Interior; and current and annual publications of the Department of Agriculture, chief of which are *Report of Administrator of Soil Conservation Service, Agricultural Statistics, The Farm Income Situation*, and *Farm Real Estate Market Developments*.

Data on farm production, marketings, and imports and exports for crops, livestock, and poultry are in Section 24, Agriculture—Production, Marketing, and Trade.

A Census of Agriculture, entailing personal enumeration of individual farms, has been taken every 10 years since 1840 and every 5 years since 1920. The first Census, limited in scope, included such items as numbers of livestock, production of wool, value of poultry and dairy products, and production of principal crops. Data on number, acreage, and value of farms were first obtained in the 1850 Census; on farm tenure, in 1880; and on farmland classified by use, in 1925. The most recent Census of Agriculture provided detailed statistics on agricultural resources and production during 1959.

Farms and farmland.—In the course of its history, the Bureau of the Census has used varying definitions of a farm. In the 1959 Census, places of less than 10 acres were counted as farms if estimated sales of agricultural products for the year amounted to at least $250, and places of 10 or more acres if such sales amounted to at least $50. In the 1950 and 1954 Censuses, places of 3 or more acres were counted as farms if the annual *value* of agricultural products, whether for home use or for sale, but exclusive of home-garden products, amounted to $150 or more; places of less than 3 acres were counted as farms only if the annual *sales* amounted to $150 or more. In the Censuses from 1925 to 1945, farms included places of 3 or more acres having any agricultural production, other than from a home garden, and places of less than 3 acres having agricultural production valued at a minimum of $250. For definitions used in earlier Censuses, see *U.S. Census of Agriculture: 1959*, Vol. II, Introduction.

Currently included as farms are such agricultural enterprises as nurseries, greenhouses, hothouses, mushroom houses, and cranberry bogs; excluded are fish farms, fish hatcheries, oyster farms, frog farms, fur farms, apiaries, kennels, game preserves, parks, and the like. In the case of landowners who had one or more tenants, renters, croppers, or managers, the land operated by each was counted as a separate farm.

Farmland refers to all land under the control of a farm operator and considered as part of his farm, including land not actually under cultivation or used for pasture or grazing. Rent-free land was included as part of the farm only if the operator had sole use of it. Land used for pasture or grazing that was neither owned nor leased by the farm operator, such as national forests, Taylor grazing land, State or other public lands, and some railroad and other privately owned lands, are not included.

Irrigation.—Irrigated land as defined by the Bureau of the Census is the net acreage of farmland to which irrigation water is applied. It does not include any land that was not irrigated during the Census year. Excluded also is uncultivated land in irrigated farms and irrigated nonfarm land.

Most of the irrigated land is in the 18 Western States (Alaska excluded) and Louisiana. In these States the Bureau of the Census collects information on acres irrigated, irrigation works, capital investment, etc. from irrigation companies, districts, and other organizations, and from farms that operate their own irrigation supply works. Information for other States is generally limited to the regular farm Census.

The development of irrigation projects rests primarily on the Bureau of Reclamation. By Congressional directive its activities are confined to the 19 Western States (including Alaska and Hawaii). The operation of irrigation works, upon complete development, is transferred to capable private water user organizations.

Drainage.—Most farmland drainage works serve to reclaim and improve the land. Other purposes are to protect the land against overflow, to rid the land of seepage from irrigation ditches, and to control alkali formation.

The Bureau of the Census in 1950 and 1960 enumerated, in general, only organized enterprises with 500 acres or more of drained farmland. In 1950, smaller irrigation enterprises which had their own drainage works were also included. In previous Censuses (1920 to 1940), all organized enterprises draining farmlands were included regardless of size. Privately drained lands of less than 500 acres have not been enumerated in any drainage Census. The change in procedure for 1950 materially reduced the number of enterprises enumerated, but affected very little the amount of drained land enumerated.

Eight of the 48 conterminous States—the 6 New England States, Pennsylvania, and West Virginia—have had no drainage projects reported in any of the Censuses of Drainage. In 1960, Arizona also had no drainage projects that qualified for inclusion.

Soil conservation.—Soil conservation district legislation has been enacted in all 50 States, and in Puerto Rico and the Virgin Islands. A soil conservation district is a political subdivision of a State, determined by petition and referendum of farmers in the area, and approved by the State Soil Conservation Committee. In most cases, districts have authority to solicit Federal, State, county, and private assistance for their soil and water conservation programs. On request of the local governing body of a district, the Department of Agriculture provides technical and other assistance.

Farm prices and income.—Information on prices received by farmers for products they sell and prices paid for articles they buy for production and family living are obtained by the Statistical Reporting Service of the Department of Agriculture from about 33,000 voluntary reporters, including farmers, local merchants, and handlers of agricultural products. Season average prices received by farmers are calculated by weighing midmonth prices by monthly sales during the crop marketing season, beginning with the first month in which a particular crop harvest begins.

Index numbers of prices received and of prices paid by farmers (see table 874) are based on current midmonth prices. Information on construction of the indexes is in Agricultural Handbook No. 118, Volume 1, *Agricultural Prices and Parity*, and on revisions in the January 1959 issue of *Agricultural Prices*, both published by the former Agricultural Marketing Service. The ratio of the index of prices received to the index of prices paid measures the monthly variation in the average per unit exchange value of farm products in terms of commodities and services brought by farmers.

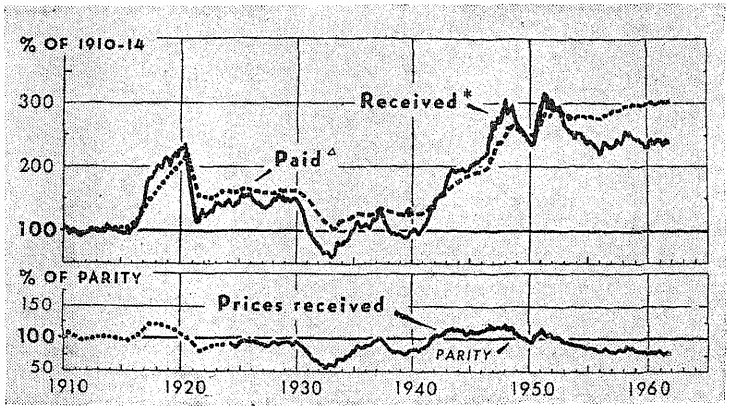
Cash income is the cash receipts from farm marketings and represents quantities of agricultural products sold by farmers multiplied by prices received per unit of production at the local market. Gross farm income includes cash receipts and also Government payments, value of farm products consumed on the farm, and rental value of farm homes.

Alaska and Hawaii.—For a general statement concerning the treatment of data for Alaska and Hawaii, see preface.

Historical statistics.—Tabular headnotes (as "See also *Historical Statistics, Colonial Times to 1957*, series C 74–79") provide cross-references, where applicable, to *Historical Statistics of the United States, Colonial Times to 1957*. See preface.

FIG. XXXVI. INDEXES OF PRICES RECEIVED AND PAID BY FARMERS: 1910 TO 1961

[See table 874]

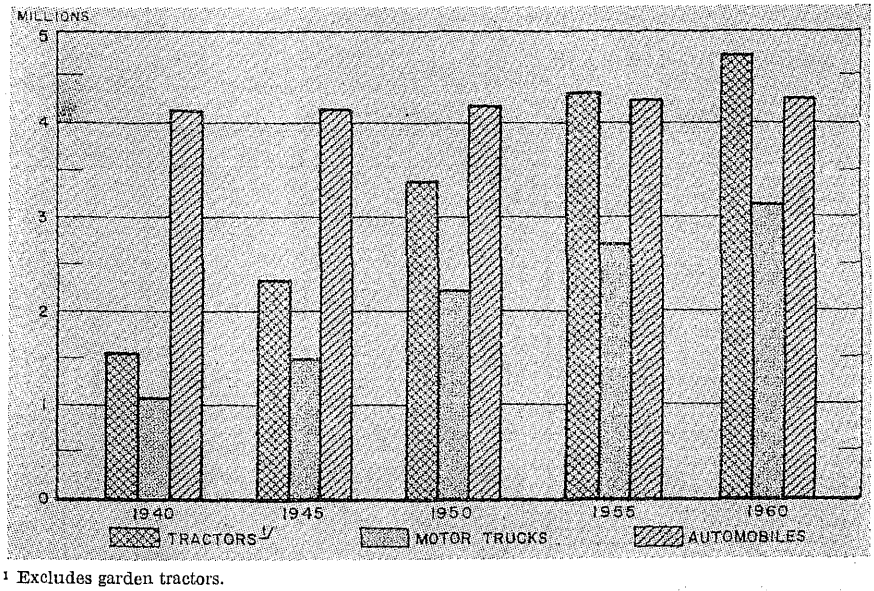


*Monthly data.
△ Includes interest, taxes, and wage rates. Annual average data, 1910 to 1923; by quarters, 1924 to 1936: by months, 1937 to date.

Source: Department of Agriculture, Economic Research Service.

FIG. XXXVII. TRACTORS, MOTOR TRUCKS, AND AUTOMOBILES ON FARMS: 1940 TO 1960

[See table 885]



[1] Excludes garden tractors.

Source: Chart prepared by Department of Commerce, Bureau of the Census. Data are from Department of Agriculture, Economic Research Service.

No. 838. Farm Population—Number, Percent of Total Population, and Components of Change: 1920 to 1961

[In thousands. Beginning 1960, includes Alaska and Hawaii. For definition of farm population, see text, p. 2. See also *Historical Statistics, Colonial Times to 1957*, series C 74–76]

Year	Farm population, Apr.[1]	Change since preceding April: Net change: Births and deaths	Migration[2]: Net	Migration[2]: To farms	Migration[2]: From farms	Farm population as a percent of total population[3]
1920	31,974	-------	-------	-------	-------	30.1
1925	31,190	-------	-------	-------	-------	27.0
1930	30,529	-------	-------	-------	-------	24.9
1935	32,161	-------	-------	-------	-------	25.3
1936	31,737	375	−799	825	1,624	24.8
1937	31,266	363	−834	719	1,553	24.3
1938	30,980	375	−661	872	1,533	23.9
1939	30,840	405	−545	823	1,368	23.6
1940	30,547	410	−703	819	1,522	23.2
1941	30,273	359	−633	696	1,329	22.7
1942	29,234	385	−1,424	822	2,246	21.7
1943	26,681	422	−2,975	824	3,799	19.6
1944	25,495	377	−1,563	1,095	2,658	18.5
1945	25,295	364	−564	916	1,480	18.1
1946	26,483	324	+864	2,585	1,721	18.8
1947	27,124	490	+151	1,768	1,617	18.9
1948	25,903	465	−1,686	1,016	2,702	17.7
1949	25,954	422	−371	1,171	1,542	17.5
1950	25,058	418	−1,314	995	2,309	16.6
1951	24,160	404	−1,302	597	1,899	15.7
1952	24,283	394	−271	643	914	15.5
1953	22,679	392	−1,996	528	2,524	14.3
1954	22,099	382	−962	674	1,636	13.7
1955	22,438	364	−25	547	572	13.6
1956	22,302	359	−435	504	939	13.3
1957	21,606	378	−1,134	461	1,595	12.7
1958	21,388	358	−576	475	1,051	12.3
1959	21,172	332	−548	440	988	12.0
1960[4]	20,541	(5)	(5)	(5)	(5)	11.4
1960[6]	15,635	(5)	(5)	(5)	(5)	8.7
1961[6]	14,803	(5)	(5)	(5)	(5)	8.1

[1] Estimates for 1920–1950 relate to April 1; estimates for 1951–1961 are April-centered annual averages.
[2] Beginning 1940, includes inductions and enlistments into Armed Forces, and persons returning from Armed Forces. For all years includes persons who have not moved but who are in and out of the farm population because agricultural operations have ceased or have begun on the places where they are living.
[3] Includes Armed Forces abroad. [4] Old definition; see text, p. 2. [5] Not available.
[6] New definition; see text, p. 2.

Source: Department of Agriculture, Agricultural Marketing Service; *Farm Population, Migration to and From Farms, 1920–1954*, AMS 10; and *Farm Population, Estimates for 1950–59*, AMS–80 (1959); Bureau of the Census and Agricultural Marketing Service; *Estimates of the Rural-Farm Population of the United States, April 1960*, Census-AMS (P–27) No. 28; and Bureau of the Census and Economic Research Service; *Estimates of the Farm Population of the United States, April 1961*, Census-ERS (P–27) No. 31.

No. 839. Farms and Farm Property—Summary: 1930 to 1961

[Excludes Alaska and Hawaii, except as noted. Revised estimates of farm population as of April 1 by Economic Research Service and Bureau of the Census; farm values, Economic Research Service as of March 1. See also *Historical Statistics, Colonial Times to 1957*, series K 1–7]

Item	1930	1940	1945	1950	1955	1959	1960	1961
Farm population ... 1,000	30,529	30,547	25,295	25,058	22,438	21,172	[1] 15,635	[1] 14,803
Percent of total population [2]	24.9	23.2	18.1	16.6	13.6	12.0	8.7	8.1
Number of farms [3] ... 1,000	6,546	6,350	5,967	5,648	4,654	4,097	3,949	3,811
Farmland and buildings, value ... mil. dol	47,873	33,636	53,884	75,256	98,780	[4] 128,988	[5] 130,225	[6] 131,776
Average value per farm ... dol	7,313	5,297	9,030	13,324	19,418	[4] 34,825	35,159	35,578
Average value per acre ... dol	48.52	31.71	47.20	64.96	85.29	[4] 115.15	[5] 116.25	[5] 117.64
Index of estimated value per acre: [6]								
1912–14=100	114	82	124	174	224	282	291	294
1947–49=100	68	49	74	103	133	168	173	175
Farms changing ownership per 1,000 farms (estimated number) [7]	61.5	62.8	69.5	52.2	46.6	48.1	47.1	44.5
Voluntary sales and trades [8]	23.7	30.3	51.5	37.0	31.9	31.2	30.7	28.1
Forced sales and related defaults	20.8	15.8	2.9	1.8	2.4	2.0	2.2	2.0
Foreclosures of mortgages, bankruptcies, etc.[9]	15.7	12.5	1.9	1.4	2.0	1.6	1.6	1.5
Delinquent taxes	5.1	3.3	1.0	0.4	0.4	0.4	0.6	0.5
Other transfers [10]	17.0	16.7	15.1	13.4	12.3	14.8	14.2	14.5
Percentage of voluntary sales and trades:								
Purchased by local residents	82	83	82	79	79	77	78	77
Purchased for operation	81	78	74	80	78	-------	-------	-------
Occupation of purchaser:								
Active farmer	72	68	63	67	63	61	63	65
Retired farmer	4	4	3	5	4	4	3	3
Other occupation	24	28	34	28	33	35	34	32

[1] Includes Alaska and Hawaii. New definition, see text. 1960 estimate comparable to 1959; 20,541,000.
[2] Total population includes Armed Forces abroad.
[3] Census figures, adjusted for underenumeration and changes in definition.
[4] Census of Agriculture, as of Nov. 1.
[5] Preliminary. Extrapolated from Bureau of the Census values for 1959 on basis of change in index of average value of land and buildings per acre.
[6] As of Mar. 1. [7] Year ending Mar. 15. [8] Includes contracts to purchase (but not options).
[9] Includes loss of title by default of contract, and surrender of title or transfers to avoid foreclosures.
[10] Inheritance and gift transfers; sales in settlement of estates; and miscellaneous and unclassified sales.

Source: Department of Agriculture, Economic Research Service. Published in part in *Farm Real Estate Market Developments*.

No. 840. Farms—Number and Acreage, by States: 1940 to 1959

[For composition of regions, see fig. I, p. XII]

STATE	NUMBER OF FARMS (1,000)				ALL LAND IN FARMS (1,000 acres)				AVERAGE ACREAGE PER FARM		
	1940	1950	1954	1959	1940	1950	1954	1959	1950	1954	1959
U.S.	6,103	5,389	4,782	3,711	1,065,114	1,161,420	1,158,192	1,123,508	216	242	303
The North	2,580	2,268	2,043	1,715	435,088	440,828	434,477	421,440	194	213	246
The South	3,007	2,652	2,317	1,646	370,168	393,215	386,289	357,448	148	167	217
The West	516	469	423	349	259,858	327,377	337,426	344,620	698	798	987
New England	135	103	82	57	13,371	12,547	11,121	9,316	122	136	164
Maine	39	30	23	17	4,223	4,182	3,614	3,082	138	155	178
New Hampshire	17	13	10	7	1,809	1,714	1,457	1,124	128	140	172
Vermont	24	19	16	12	3,667	3,527	3,318	2,945	185	208	243
Massachusetts	32	22	17	11	1,938	1,660	1,439	1,142	75	83	102
Rhode Island	3	3	2	1	222	191	155	138	74	77	99
Connecticut	21	16	13	8	1,512	1,272	1,138	884	82	89	107
Middle Atlantic	348	297	257	198	33,639	31,855	29,898	26,730	107	116	135
New York	153	125	106	82	17,170	16,017	15,071	13,490	128	143	164
New Jersey	26	25	23	15	1,874	1,725	1,665	1,379	70	73	89
Pennsylvania	169	147	129	100	14,594	14,113	13,162	11,862	96	102	119
East North Central	1,006	885	799	666	113,655	112,098	108,597	103,386	127	136	155
Ohio	234	199	177	140	21,908	20,969	19,992	18,507	105	113	132
Indiana	185	167	154	128	19,801	19,659	19,233	18,613	118	125	145
Illinois	213	195	176	155	31,033	30,978	30,399	30,327	159	173	196
Michigan	188	156	139	112	18,038	17,270	16,467	14,783	111	119	132
Wisconsin	187	169	154	131	22,876	23,221	22,507	21,156	138	147	161
West North Central	1,091	983	905	795	274,423	284,329	284,861	282,007	289	315	355
Minnesota	197	179	165	146	32,607	32,883	32,285	30,796	184	195	211
Iowa	213	203	193	175	34,149	34,265	34,045	33,831	169	177	194
Missouri	256	230	202	169	34,740	35,123	34,195	33,153	153	170	197
North Dakota	74	65	62	55	37,936	41,194	41,877	41,466	630	676	755
South Dakota	72	66	63	56	39,474	44,786	44,949	44,851	674	719	805
Nebraska	121	107	101	90	47,344	47,467	47,487	47,756	443	471	528
Kansas	156	131	120	104	48,174	48,611	50,024	50,153	370	416	481
South Atlantic	1,019	959	859	592	92,555	102,170	98,259	83,339	107	114	141
Delaware	9	7	6	5	836	851	814	763	114	129	146
Maryland	42	36	32	25	4,198	4,056	3,897	3,457	112	120	138
Dist. of Columbia	(1)	(1)	(2)	(2)	2	1	(2)	(2)	45	(2)	(2)
Virginia	175	151	136	98	16,445	15,572	14,686	13,126	103	108	135
West Virginia	99	81	69	44	8,909	8,215	7,352	6,063	101	107	138
North Carolina	278	289	268	191	18,845	19,318	18,260	15,888	67	68	83
South Carolina	138	139	124	78	11,239	11,879	11,069	9,149	85	89	117
Georgia	216	198	166	106	23,684	25,751	24,019	19,658	130	145	185
Florida	62	57	58	45	8,338	16,528	18,162	15,237	290	316	338
East South Central	1,023	913	790	563	77,086	79,576	77,202	68,285	87	98	121
Kentucky	253	218	193	151	20,294	19,442	18,034	17,031	89	93	113
Tennessee	248	232	203	158	18,493	18,534	17,654	16,081	80	87	102
Alabama	232	212	177	116	19,143	20,889	20,810	16,543	99	118	142
Mississippi	291	251	216	138	19,156	20,711	20,702	18,630	82	96	135
West South Central	964	780	668	491	200,527	211,469	210,828	205,824	271	316	419
Arkansas	217	182	145	95	18,045	18,871	17,944	16,459	103	124	173
Louisiana	150	124	111	74	9,996	11,202	11,441	10,347	90	103	139
Oklahoma	180	142	119	95	34,803	36,007	35,630	35,801	253	300	378
Texas	418	332	293	227	137,683	145,389	145,813	143,218	439	498	631
Mountain	233	195	180	149	191,901	250,213	260,942	264,429	1,284	1,450	1,774
Montana	42	35	33	29	46,452	59,247	61,469	64,081	1,689	1,859	2,213
Idaho	44	40	39	34	10,298	13,224	14,364	15,232	328	371	452
Wyoming	15	13	11	10	28,026	34,421	34,989	36,200	2,729	3,069	3,715
Colorado	51	46	41	33	31,527	37,953	38,385	38,787	833	942	1,162
New Mexico	34	24	21	16	38,860	47,522	49,451	46,293	2,014	2,347	2,908
Arizona	18	10	9	7	25,651	39,916	41,790	40,203	3,834	4,483	5,558
Utah	25	24	23	18	7,302	10,865	12,262	12,689	449	537	712
Nevada	4	3	3	2	3,785	7,064	8,231	10,943	2,271	2,881	4,649
Pacific	283	274	243	200	67,956	77,164	76,484	80,191	279	315	401
Washington	82	70	65	52	15,182	17,369	17,641	18,717	249	271	363
Oregon	62	60	54	43	17,988	20,328	21,047	21,236	340	387	499
California	133	137	123	99	30,524	36,613	37,795	36,888	267	307	372
Alaska	1	1	(2)	(1)	1,776	422	(2)	888	803	(2)	2,421
Hawaii	5	6	(2)	6	2,486	2,432	(2)	2,461	423	(2)	394

[1] Less than 500. [2] Not available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 841. Farms—Number and Acreage, by Size of Farm: 1930 to 1959

[Excludes Alaska and Hawaii. 1950 data, except number of farms, based on a sample of farms. May not agree with other 1950 sample data, since size data were not adjusted to agree with total count of farms. Minus sign (—) denotes decrease. See also *Historical Statistics, Colonial Times to 1957*, series K 61–72]

SIZE OF FARM	1930	1940	1945	1950	1954	PERCENT DISTRIBUTION 1930	1940	1945	1950	1954
NUMBER OF FARMS										
Total	6,288,648	6,096,799	5,859,169	5,382,162	4,782,416	100.0	100.0	100.0	100.0	100.0
Under 10 acres	358,504	506,402	594,561	484,914	484,291	5.7	8.3	10.1	9.0	10.1
10 to 29 acres	(1)	1,012,971	945,608	853,608	713,335	(1)	16.6	16.1	15.9	14.9
30 to 49 acres	(1)	767,289	708,796	624,242	499,496	(1)	12.6	12.1	11.6	10.4
50 to 99 acres	1,374,965	1,291,048	1,157,320	1,047,801	864,063	21.9	21.2	19.8	19.5	18.0
100 to 179 acres	(1)	1,309,741	1,199,809	1,102,562	953,109	(1)	21.5	20.5	20.5	20.0
180 to 259 acres	(1)	486,336	493,215	487,325	463,698	(1)	8.0	8.4	9.1	9.7
260 to 499 acres	451,338	458,787	473,184	478,084	482,246	7.2	7.5	8.1	8.9	10.1
500 to 999 acres	159,696	163,694	173,777	182,264	191,697	2.5	2.7	3.0	3.4	4.0
1,000 acres and over	80,620	100,531	112,899	121,362	130,481	1.3	1.6	1.9	2.3	2.7
LAND IN FARMS (1,000 acres)										
Total	986,771	1,060,852	1,141,615	1,159,789	1,158,192	100.0	100.0	100.0	100.0	100.0
Under 10 acres	1,908	2,668	2,805	2,430	2,260	0.2	0.3	0.2	0.2	0.2
10 to 29 acres	(1)	18,111	16,864	15,391	12,704	(1)	1.7	1.5	1.3	1.1
30 to 49 acres	(1)	29,388	27,074	23,945	19,165	(1)	2.8	2.4	2.1	1.7
50 to 99 acres	98,685	93,317	83,206	75,628	62,725	10.0	8.8	7.3	6.5	5.4
100 to 179 acres	(1)	177,509	162,375	149,942	130,120	(1)	16.7	14.2	12.9	11.2
180 to 259 acres	(1)	104,289	105,802	105,388	99,863	(1)	9.8	9.3	9.1	8.6
260 to 499 acres	156,522	159,569	164,648	166,584	168,368	15.9	15.0	14.4	14.4	14.5
500 to 999 acres	108,924	111,935	118,836	125,981	131,505	11.0	10.6	10.4	10.9	11.4
1,000 acres and over	276,213	364,069	460,006	494,501	531,482	28.0	34.3	40.3	42.6	45.9

SIZE OF FARM	1959 Number of farms	Land in farms: Total (1,000 acres)	Land in farms: Average per farm (acres)	Percent increase, 1954 to 1959: Number of farms	Percent increase, 1954 to 1959: Land in farms	Cropland harvested (1,000 acres)	Percent distribution: Number of farms	Percent distribution: All land in farms	Percent distribution: Cropland harvested
Total	3,703,894	1,120,158	302.4	−22.6	−3.3	313,446	100.0	100.0	100.0
Under 10 acres	240,733	1,039	4.3	−50.3	−54.0	452	6.5	0.1	0.1
10 to 49 acres	811,202	21,808	26.9	−33.1	−31.6	9,086	21.9	1.9	2.9
50 to 99 acres	657,685	47,929	72.9	−23.9	−23.6	18,280	17.8	4.3	5.8
100 to 179 acres	772,241	105,694	136.9	−19.0	−18.8	46,929	20.8	9.4	15.0
180 to 259 acres	414,373	89,482	215.9	−10.6	−10.4	43,198	11.2	8.0	13.8
260 to 499 acres	471,396	165,389	350.8	−2.2	−1.8	78,826	12.7	14.8	25.1
500 to 999 acres	199,965	137,319	686.7	4.3	4.4	54,303	5.4	12.3	17.3
1,000 acres and over	136,299	551,498	4,046.2	4.5	3.8	62,371	3.7	49.2	19.9

[1] Not available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1950*, Vol. II, *U.S. Census of Agriculture: 1954*, Vol. II, and *U.S. Census of Agriculture: 1959*, Vol. II.

No. 842. Average Acreage Per Farm, by Economic Class: 1940 to 1959

[Excludes Alaska and Hawaii. See headnote, table 845]

ECONOMIC CLASS	1940	1945	1950	1954	1959
All farms	174	195	215	242	302
Commercial farms	220	255	300	336	404
By value of sales:					
$25,000 and over	2,900	2,480	2,422	1,939	793
$10,000 to $24,999	536	585	567	538	
$5,000 to $9,999	292	299	298	312	288
$2,500 to $4,999	189	184	191	201	192
$1,200 to $2,499	118	112	131	133	[1] 106
$250 to $1,199	90	89	85	97	
Noncommercial farms	80	74	65	71	113

[1] $50 to $2,499.

Source: Department of Agriculture, Economic Research Service; *Family Farms in a Changing Economy*. (Agriculture Information Bulletin No. 171.)

No. 843. Farms—Number, by Size, by States: 1959

[For composition of regions, see fig. I, p. XII]

STATE	Total number of farms	Under 10 acres	10 to 49 acres	50 to 99 acres	100 to 179 acres	180 to 259 acres	260 to 499 acres	500 to 999 acres	1,000 acres and over
U.S.	**3,710,503**	**244,328**	**813,216**	**657,990**	**772,508**	**414,475**	**471,547**	**200,012**	**136,427**
The North	1,715,441	66,650	221,963	271,840	438,635	268,813	299,495	103,441	44,604
The South	1,645,949	127,584	500,413	344,082	293,356	126,401	141,418	69,955	42,740
The West	349,113	50,094	90,840	42,068	40,517	19,261	30,634	26,616	49,083
New England	**56,867**	**5,171**	**11,458**	**10,138**	**12,297**	**7,006**	**7,825**	**2,460**	**512**
Maine	17,360	796	2,711	3,737	4,543	2,306	2,299	763	205
New Hampshire	6,542	434	1,314	1,216	1,435	829	922	331	61
Vermont	12,099	427	1,088	1,246	2,805	2,234	3,178	956	165
Massachusetts	11,179	2,057	3,391	2,028	1,807	891	748	216	41
Rhode Island	1,395	287	401	297	218	84	63	36	9
Connecticut	8,292	1,170	2,553	1,614	1,489	662	615	158	31
Middle Atlantic	**197,867**	**15,074**	**38,227**	**42,974**	**52,466**	**24,842**	**19,833**	**3,824**	**627**
New York	82,356	4,863	12,547	14,834	21,914	13,192	12,245	2,415	346
New Jersey	15,459	3,320	4,893	2,477	2,660	1,149	735	167	58
Pennsylvania	100,052	6,891	20,787	25,663	27,892	10,501	6,853	1,242	223
East North Central	**666,189**	**26,228**	**107,196**	**136,723**	**186,860**	**104,209**	**88,319**	**15,016**	**1,638**
Ohio	140,353	7,094	27,012	34,555	38,619	17,416	13,160	2,216	281
Indiana	128,160	6,631	26,928	26,931	30,421	17,545	16,502	2,906	296
Illinois	154,644	6,245	18,668	20,079	39,045	31,154	32,689	6,190	574
Michigan	111,817	3,545	23,225	29,007	29,948	13,856	10,338	1,690	208
Wisconsin	131,215	2,713	11,363	26,151	48,827	24,238	15,630	2,014	279
West North Central	**794,518**	**20,177**	**65,082**	**82,005**	**187,012**	**132,756**	**183,518**	**82,141**	**41,827**
Minnesota	145,662	2,925	10,128	17,430	46,346	31,294	30,929	5,773	837
Iowa	174,707	5,457	13,727	18,559	56,994	40,808	34,342	4,475	345
Missouri	168,672	5,408	26,216	29,798	40,820	25,871	29,866	9,037	1,656
North Dakota	54,928	268	850	680	3,321	2,190	15,591	20,661	11,367
South Dakota	55,727	689	1,855	1,762	6,705	5,845	18,137	11,219	9,515
Nebraska	90,475	2,478	4,696	5,075	17,069	15,179	26,675	11,266	8,037
Kansas	104,347	2,952	7,610	8,701	15,757	11,569	27,978	19,710	10,070
South Atlantic	**592,153**	**52,977**	**206,680**	**131,545**	**99,054**	**40,774**	**37,676**	**15,890**	**7,557**
Delaware	5,208	568	1,200	1,073	1,065	568	504	182	48
Maryland	25,122	2,623	6,008	4,684	5,617	2,845	2,468	716	161
Virginia	97,623	8,038	28,914	21,668	18,925	8,272	7,721	3,087	998
West Virginia	44,011	1,713	11,373	11,465	10,192	4,175	3,475	1,236	382
North Carolina	190,567	17,806	81,112	46,612	26,823	8,839	6,664	2,041	670
South Carolina	78,172	6,714	34,483	15,798	10,151	3,906	4,105	1,986	1,029
Georgia	106,350	6,867	27,930	23,864	20,947	9,486	9,834	4,917	2,505
Florida	45,100	8,648	15,660	6,381	5,334	2,683	2,905	1,725	1,764
East South Central	**562,604**	**46,949**	**188,047**	**133,537**	**104,049**	**39,319**	**32,979**	**12,000**	**5,724**
Kentucky	150,986	13,752	37,271	39,473	34,526	13,234	9,734	2,408	528
Tennessee	157,088	14,867	52,746	38,467	28,948	10,955	8,528	2,485	692
Alabama	115,788	7,656	43,658	26,525	18,493	7,172	6,913	3,317	2,054
Mississippi	138,142	10,674	54,372	29,072	22,082	7,958	7,804	3,730	2,450
West South Central	**491,192**	**27,658**	**105,686**	**79,000**	**90,253**	**46,308**	**70,763**	**42,065**	**29,459**
Arkansas	95,007	5,998	26,103	19,892	18,937	8,912	8,974	4,272	1,919
Louisiana	74,438	7,900	33,750	13,753	8,422	3,362	3,536	2,189	1,526
Oklahoma	94,676	2,907	11,294	11,757	20,307	10,040	20,527	11,936	5,908
Texas	227,071	10,853	34,539	33,598	42,587	23,994	37,726	23,668	20,106
Mountain	**149,080**	**10,547**	**21,943**	**15,647**	**19,933**	**9,833**	**18,000**	**17,113**	**36,064**
Montana	28,959	675	1,690	1,353	2,451	1,407	3,531	4,671	13,181
Idaho	33,670	2,625	6,013	5,853	6,731	2,904	3,983	2,773	2,788
Wyoming	9,744	155	529	494	1,140	731	1,519	1,213	3,963
Colorado	33,390	1,934	3,976	2,717	4,590	2,268	4,856	4,834	8,215
New Mexico	15,919	1,766	3,232	1,273	1,448	740	1,580	1,663	4,217
Arizona	7,233	1,020	1,505	738	758	391	740	672	1,409
Utah	17,811	2,243	4,597	2,917	2,503	1,230	1,526	1,075	1,720
Nevada	2,354	129	401	302	312	162	265	212	571
Pacific	**200,033**	**39,547**	**68,897**	**26,421**	**20,584**	**9,428**	**12,634**	**9,503**	**13,019**
Washington	51,577	6,701	18,704	7,657	6,030	2,596	3,366	2,893	3,630
Oregon	42,573	5,141	13,609	6,807	5,744	2,644	3,281	2,099	3,248
California	99,274	24,110	34,570	11,652	8,543	4,086	5,836	4,464	6,013
Alaska	367	26	26	43	144	55	43	13	17
Hawaii	6,242	3,569	1,988	262	123	47	108	34	111

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 844. Farm Real Estate—Indexes of Average Value Per Acre, by States: 1940 to 1962

[1947-49=100. As of March 1. Value of farmland with improvements]

STATE	1940	1950	1955	1960	1962
U.S.[1]	49	103	133	173	183
New England:					
Maine	69	95	104	134	143
New Hampshire	67	97	105	137	147
Vermont	58	101	104	137	143
Massachusetts	74	99	106	147	156
Rhode Island	66	101	108	155	167
Connecticut	65	100	111	155	161
Middle Atlantic:					
New York	59	105	119	149	150
New Jersey	62	103	132	194	204
Pennsylvania	58	102	134	181	192
East North Central:					
Ohio	46	101	141	180	185
Indiana	44	103	147	186	184
Illinois	50	108	142	182	181
Michigan	46	100	133	173	176
Wisconsin	58	101	113	144	152
West North Central:					
Minnesota	55	109	135	182	186
Iowa	50	108	133	161	157
Missouri	50	106	130	172	186
North Dakota	48	107	132	182	189
South Dakota	47	111	139	173	184
Nebraska	47	104	134	160	169
Kansas	45	106	129	160	168
South Atlantic:					
Delaware	55	98	130	184	196
Maryland	50	99	136	185	205
South Atlantic—Con.					
Virginia	48	101	135	178	197
West Virginia	58	95	110	145	155
North Carolina	43	106	140	173	194
South Carolina	43	97	121	163	176
Georgia	45	99	138	201	221
Florida	57	97	141	252	300
East South Central:					
Kentucky	42	102	115	153	167
Tennessee	42	103	118	156	170
Alabama	47	101	125	174	187
Mississippi	46	106	137	191	213
West South Central:					
Arkansas	40	105	126	170	185
Louisiana	57	105	138	198	215
Oklahoma	50	108	136	177	189
Texas	55	102	137	176	193
Mountain:					
Montana	43	104	146	191	201
Idaho	43	107	142	176	182
Wyoming	40	100	123	145	158
Colorado	37	104	128	145	151
New Mexico	36	107	136	157	164
Arizona	40	99	137	176	192
Utah	49	107	137	158	166
Nevada	49	99	139	173	
Pacific: [1]					
Washington	45	101	137	179	183
Oregon	41	99	128	159	174
California	42	94	128	182	202

[1] Excludes Alaska and Hawaii.

Source: Department of Agriculture, Economic Research Service, periodic report, *Farm Real Estate Market Developments;* and Statistical Reporting Service, annual report, *Agricultural Statistics.*

No. 845. Farms—Number, by Economic Class: 1929 to 1959

[In thousands. Excludes Alaska and Hawaii. Based on Bureau of the Census data. Figures for 1959 differ from totals in table 846 due to difference in classification of farms. For example, in the group having sales of $1,200 to $2,499 Department of Agriculture includes only those farms for which such sales provide the major source of family income, whereas Bureau of the Census includes all farms falling within that sales range]

ECONOMIC CLASS	1929	1939	1944	1949	1954	1959 [1]
All farms	6,289	6,097	5,859	5,382	4,782	3,704
Commercial farms	4,723	4,265	3,941	3,465	3,100	--------
By value of sales: [2]						
$25,000 and over	47	60	91	103	134	794
$10,000 to $24,999	205	252	347	381	449	
$5,000 to $9,999	560	585	723	721	707	654
$2,500 to $4,999	1,078	1,015	976	882	811	618
$1,200 to $2,499 [3]	1,274	1,070	867	661	536	1,638
$250 to $1,199 [3]	1,559	1,283	937	717	463	
Noncommercial farms	1,480	1,685	1,738	1,917	1,682	
Part-time and residential (sales under $2,500) [4]	924	1,181	1,345	1,670	1,507	
Subsistence (sales under $250) [3]	556	504	393	247	175	
Excluded by revised definition [5]	86	147	180	--------	--------	--------

[1] Not comparable with prior years. A change in the 1959 census definition of a farm excluded 232,000 that would have been considered farms in the 1950 and 1954 Censuses of Agriculture. See text, p. 605.

[2] Value intervals in early years deflated to 1954 level of prices received by farmers for farm products.

[3] With operator not working off the farm as much as 100 days and farm sales greater than income of family members from off-farm sources.

[4] With operator working off the farm 100 or more days, or other income of family members exceeding sales from the farm.

[5] Farms listed in earlier censuses that would not have met the minimum criteria used in the 1950, 1954, and 1959 Censuses of Agriculture.

Source: Department of Agriculture, Economic Research Service; *Family Farms in a Changing Economy* (Agriculture Information Bulletin No. 171), and records.

No. 846. Farms—Number, by Economic Class, by States: 1959

[Based on reports for a sample of farms. For composition of regions, see fig. I, p. XII. For total commercial farms and other farms, see table 850]

State	All farms	Commercial farms by value of farm products sold: $50 to $2,499	$2,500 to $4,999	$5,000 to $9,999	$10,000 to $19,999	$20,000 to $39,999	$40,000 and over	Other farms [1]: Part-time	Part-retirement	Abnormal
U.S.	3,707,973	348,954	617,677	653,881	483,004	210,402	102,099	884,785	404,110	3,061
North	1,714,492	89,591	297,985	407,192	317,932	118,933	40,862	295,825	144,870	1,302
South	1,645,028	244,768	277,503	192,540	111,059	54,643	31,255	500,652	231,663	945
West	348,453	14,595	42,189	54,149	54,013	36,826	29,982	88,308	27,577	814
N.E.	56,861	2,386	6,417	8,806	9,663	5,859	2,696	15,123	5,783	128
Maine	17,342	679	1,714	2,099	2,533	1,825	935	5,308	2,221	28
N. H.	6,544	242	708	920	914	445	190	2,205	902	18
Vt.	12,167	545	1,672	2,914	2,667	971	237	2,341	811	9
Mass.	11,149	482	1,451	1,568	1,837	1,258	557	3,033	922	41
R. I.	1,400	116	176	210	266	220	98	220	92	2
Conn.	8,259	322	696	1,095	1,446	1,140	679	2,016	835	30
M.A.	197,866	8,228	26,446	37,581	35,181	14,950	4,943	51,285	18,939	313
N. Y.	82,354	2,778	11,183	17,323	16,707	6,658	2,111	18,723	6,769	102
N. J.	15,463	535	1,723	2,331	3,434	2,568	1,135	2,611	1,096	30
Pa.	100,049	4,915	13,540	17,927	15,040	5,724	1,697	29,951	11,074	181
E.N.C.	666,118	32,637	119,236	148,804	113,314	38,633	11,376	138,663	63,011	444
Ohio	140,366	7,716	25,578	26,784	17,638	5,585	1,707	38,020	17,161	177
Ind.	128,143	6,615	22,640	24,811	20,314	7,659	1,892	30,076	14,066	70
Ill.	154,652	6,071	21,062	34,303	38,848	17,345	5,699	20,041	11,225	58
Mich.	111,765	6,362	21,647	19,363	12,779	3,823	1,068	34,149	12,511	63
Wis.	131,192	5,873	28,309	43,543	23,735	4,221	1,010	16,377	8,048	76
W.N.C.	793,647	46,340	145,886	212,001	159,774	59,491	21,847	90,754	57,137	417
Minn.	145,639	9,271	28,223	44,546	28,428	7,503	2,330	17,010	8,242	86
Iowa	174,685	5,645	23,547	47,428	48,025	21,574	8,110	11,660	8,621	75
Mo.	168,679	14,768	34,479	30,398	18,365	6,394	2,274	39,566	22,364	71
N. Dak.	54,791	4,379	12,462	18,756	11,078	2,948	784	2,623	1,716	45
S. Dak.	55,496	4,240	12,443	17,954	10,484	3,429	1,131	2,972	2,786	57
Nebr.	90,223	3,517	15,263	26,485	22,808	9,633	3,741	4,711	4,618	47
Kans.	104,134	4,520	19,469	26,434	20,586	8,610	3,477	12,212	8,790	36
S.A.	591,863	79,050	103,524	79,113	40,855	17,811	9,333	179,175	82,559	443
Del.	5,203	270	545	918	983	773	398	836	475	5
Md.	25,108	1,383	3,535	4,064	4,008	2,142	847	6,396	2,606	37
Va.	97,619	14,630	16,084	9,408	5,438	2,749	1,218	30,820	17,220	52
W. Va.	43,982	4,946	3,531	2,063	1,336	500	229	21,458	9,895	24
N. C.	190,511	26,904	43,311	33,579	12,055	3,144	1,085	47,255	23,068	110
S. C.	78,163	13,591	13,164	9,344	3,823	1,603	808	25,842	10,453	35
Ga.	106,271	14,067	17,698	14,784	9,358	4,279	1,760	31,456	12,781	79
Fla.	45,006	3,259	5,656	4,053	3,854	2,621	2,079	15,612	5,971	101
E.S.C.	562,538	114,182	98,736	51,176	22,866	8,862	4,628	175,169	86,713	206
Ky.	150,972	27,157	30,438	18,420	7,808	2,264	564	40,461	23,768	92
Tenn.	157,695	29,598	30,122	14,792	5,718	1,760	649	50,630	24,375	51
Ala.	115,773	24,274	16,000	8,906	4,864	2,650	1,156	40,770	17,123	30
Miss.	138,098	33,153	22,176	9,058	4,476	2,188	2,259	43,308	21,447	33
W.S.C.	490,627	51,536	75,243	62,251	47,338	27,970	17,294	146,308	62,391	296
Ark.	94,980	13,484	14,322	9,918	7,350	4,276	3,112	29,361	13,108	49
La.	74,370	13,010	9,204	5,342	3,761	2,109	1,289	29,525	10,093	37
Okla.	94,678	8,219	16,801	15,864	10,638	4,054	1,366	28,143	9,539	54
Tex.	226,599	16,823	34,916	31,127	25,589	17,531	11,527	59,279	29,651	156
Mt.	148,507	7,430	20,465	28,148	27,934	16,612	10,171	27,737	9,496	514
Mont.	28,802	1,234	4,024	6,570	6,387	3,860	1,444	3,652	1,583	48
Idaho	33,648	1,264	4,895	7,164	7,038	3,550	1,660	6,067	1,906	104
Wyo.	9,705	496	1,390	1,999	2,160	1,268	771	1,136	467	18
Colo.	33,183	1,745	4,471	6,375	6,850	4,077	2,627	5,156	1,853	29
N. Mex.	15,869	1,740	1,904	1,840	1,837	1,407	1,071	4,284	1,717	69
Ariz.	7,173	252	652	656	920	984	1,609	1,633	394	73
Utah	17,811	606	2,871	3,216	2,450	1,163	638	5,286	1,430	151
Nev.	2,316	93	258	328	292	303	351	523	146	22
Pac.	199,946	7,165	21,724	26,001	26,079	20,214	19,811	60,571	18,081	300
Wash.	51,554	1,783	5,348	6,417	6,967	4,781	2,867	18,383	4,964	44
Oreg.	42,551	1,811	5,207	5,518	4,954	3,158	2,154	14,945	4,752	52
Calif.	99,232	3,090	10,311	13,335	13,632	12,035	14,526	24,341	7,782	180
Alaska	367	26	28	31	44	36	20	154	25	3
Hawaii	6,242	455	830	700	482	204	244	2,748	558	21

[1] See headnote, table 848.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

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No. 847. Farms—Value of Land and Buildings, by States: 1940 to 1959

[Beginning 1950, figures are based on reports for a sample of farms. For composition of regions, see fig. I, p. XII]

State	Total value ($1,000,000) [1]				Average value per farm [2] (dollars)			Average value per acre (dollars)		
	1940	1950	1954	1959	1950	1954	1959	1950	1954	1959
U.S.[3]	33,642	75,261	97,583	129,005	13,983	20,405	34,826	64.96	84.25	115.08
The North	18,909	38,455	48,025	61,761	16,955	23,506	36,003	87.23	110.54	146.55
The South	9,716	22,955	29,549	39,011	8,654	12,755	23,702	58.38	76.50	109.14
The West[3]	5,016	13,850	20,009	28,233	30,000	47,334	82,342	42.68	59.30	82.51
New England	741	1,222	1,253	1,414	11,839	15,303	24,860	97.40	112.67	151.75
Maine	124	227	219	256	7,462	9,392	14,756	54.17	60.72	83.11
New Hampshire	62	125	125	118	9,323	11,989	18,046	72.85	85.65	105.09
Vermont	111	196	202	240	10,314	12,662	19,837	55.68	60.99	81.49
Massachusetts	212	315	322	354	14,163	18,552	31,692	189.54	223.81	310.14
Rhode Island	26	44	53	52	17,062	26,475	37,571	232.02	343.02	379.98
Connecticut	205	315	331	393	20,189	25,971	47,372	247.77	291.07	444.13
Middle Atlantic	2,039	3,485	4,156	4,879	11,747	16,156	24,657	109.42	139.02	182.52
New York	947	1,467	1,675	1,971	11,742	15,844	23,936	91.62	111.14	146.13
New Jersey	228	505	672	717	20,343	29,635	46,397	292.84	403.73	520.12
Pennsylvania	864	1,513	1,809	2,190	10,299	14,039	21,892	107.19	137.46	184.65
East North Central	7,334	14,704	18,942	24,737	16,607	23,717	37,132	131.17	174.43	239.27
Ohio	1,444	2,859	3,707	4,573	14,341	20,937	32,583	136.34	185.45	247.11
Indiana	1,251	2,691	3,733	4,933	16,151	24,303	38,489	136.90	194.08	265.02
Illinois	2,537	5,395	7,036	9,580	27,628	40,083	61,946	174.15	231.47	315.87
Michigan	913	1,701	2,195	2,855	10,935	15,800	25,535	98.52	133.29	193.15
Wisconsin	1,189	2,057	2,271	2,796	12,203	14,789	21,309	88.58	100.90	132.16
West North Central	8,796	19,044	23,673	30,732	19,379	26,151	38,680	66.98	83.10	108.98
Minnesota	1,443	2,777	3,478	4,749	15,507	21,051	32,605	84.46	107.74	154.22
Iowa	2,691	5,507	6,770	8,587	27,105	35,090	49,150	160.71	198.86	253.82
Missouri	1,107	2,236	2,785	3,727	9,720	13,815	22,094	63.66	81.45	112.40
North Dakota	490	1,189	1,493	2,141	18,178	24,110	38,978	28.86	35.66	51.63
South Dakota	505	1,402	1,767	2,277	21,095	28,263	40,852	31.30	39.31	50.76
Nebraska	1,138	2,735	3,400	4,234	25,517	33,713	46,796	57.62	71.60	88.66
Kansas	1,421	3,199	3,980	5,017	24,344	33,117	48,084	65.80	79.55	100.04
South Atlantic	3,160	7,160	9,555	12,832	7,466	11,123	21,671	70.08	97.24	153.98
Delaware	55	97	128	180	13,043	20,287	34,551	114.11	156.88	235.98
Maryland	274	507	691	982	14,048	21,258	39,095	125.07	177.30	284.12
District of Columbia	6	5	(4)	(4)	166,643	(4)	(4)	3,688.54	(4)	(4)
Virginia	675	1,277	1,551	1,819	8,458	11,369	18,635	82.01	105.61	138.60
West Virginia	270	487	497	450	5,983	7,248	10,230	59.31	67.61	74.27
North Carolina	737	1,906	2,346	2,949	6,605	8,758	15,475	98.65	128.49	185.61
South Carolina	338	820	965	1,226	5,886	7,769	15,685	69.06	87.18	134.01
Georgia	480	1,115	1,442	1,908	5,623	8,710	17,944	43.28	60.03	97.08
Florida	324	946	1,935	3,317	16,617	33,627	73,554	57.23	106.54	217.72
East South Central	2,325	5,169	6,086	7,855	5,662	7,709	13,962	64.96	78.84	115.03
Kentucky	776	1,572	1,722	2,305	7,196	8,900	15,269	80.87	95.49	135.37
Tennessee	604	1,432	1,635	2,095	6,182	8,040	13,288	77.26	92.62	130.30
Alabama	409	1,017	1,206	1,480	4,809	6,816	12,780	48.69	57.96	89.45
Mississippi	475	1,148	1,523	1,974	4,566	7,053	14,292	55.42	73.56	105.97
West South Central	4,232	10,626	13,908	18,324	13,616	20,817	37,306	50.25	65.97	89.03
Arkansas	457	1,136	1,378	1,797	6,225	9,496	18,915	60.18	76.77	109.19
Louisiana	354	921	1,278	1,766	7,416	11,497	23,719	82.21	111.67	170.63
Oklahoma	831	1,851	2,256	3,002	13,016	18,964	31,710	51.42	63.33	83.86
Texas	2,590	6,718	8,997	11,759	20,263	30,711	51,787	46.21	61.70	82.11
Mountain	1,780	5,513	7,775	10,878	28,294	43,191	72,967	22.03	29.80	41.14
Montana	350	999	1,476	2,223	28,475	44,653	76,761	16.86	24.02	34.69
Idaho	339	923	1,296	1,701	22,920	33,466	50,528	69.82	90.26	111.69
Wyoming	159	455	535	774	36,060	46,935	79,447	13.21	15.29	21.39
Colorado	388	1,212	1,529	2,053	26,588	37,513	61,494	31.03	39.82	52.64
New Mexico	188	713	1,055	1,086	30,228	50,078	68,233	15.01	21.34	23.46
Arizona	154	604	1,075	1,951	57,996	115,330	269,724	15.13	25.72	48.53
Utah	154	471	586	755	19,492	25,652	42,391	43.37	47.75	59.50
Nevada	48	136	223	334	43,700	78,162	141,974	19.24	27.13	30.54
Pacific[3]	3,237	8,337	12,233	17,355	31,245	50,406	89,554	112.19	159.94	223.27
Washington	593	1,470	2,022	2,455	21,057	31,018	47,590	84.64	114.59	131.14
Oregon	477	1,216	1,643	1,857	20,327	30,178	43,608	59.82	78.06	87.42
California	2,166	5,650	8,569	13,026	41,192	69,620	131,212	154.32	226.71	353.12
Alaska	(4)	(4)	(4)	18	(4)	(4)	48,379	(4)	(4)	10.99

[1] Based on average value per acre for farms in sample for which value of land and buildings was reported.
[2] Average for farms reporting value of land and buildings.
[3] Beginning 1959, includes Alaska.
[4] Not available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 848. Farms—Number and Percent Distribution, by Type: 1959

[Includes Alaska and Hawaii. Based on reports for a sample of farms. Type of farm determined on basis of relationship of value of sales from a particular source to total value of products sold for each farm. In general, value of sales from a particular source was 50 percent or more of total sales when a farm was classified as that type. Part-time farms include those with a value of products sold of $50–$2,499 and with operator either reporting 100 days or more of off-farm work or other income exceeding value of farm products sold, provided the operator was under 65 years of age. Part-retirement farms include those with a value of farm products sold of $50 to $2,499 and the operator was 65 years old or over. Abnormal farms include public and private institutional farms, experiment stations, community projects, etc.]

TYPE OF FARM	Number of farms (1,000)	Percent distribution	TYPE OF FARM	Number of farms (1,000)	Percent distribution
All farms	3,708	100.0	**Commercial farms**—Continued		
Commercial farms	2,416	65.2	Livestock farms other than poultry and dairy farms and livestock ranches	618	16.7
Cash-grain farms	398	10.8	Livestock ranches	67	1.8
Tobacco farms	190	5.1	General farms	212	5.7
Cotton farms	242	6.5	Miscellaneous Farms	37	1.0
Other field-crop farms	38	1.0			
Vegetable farms	22	0.6			
Fruit-and-nut farms	61	1.6	**Other farms**	1,292	35.1
Poultry farms	103	2.8	Part-time farms	885	24.0
Dairy farms	428	11.6	Part-retirement farms	404	11.0
			Abnormal farms	3	0.1

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 849. Farms Reporting and Value of All Farm Products Sold, by Source of Income: 1949, 1954, and 1959

[Beginning 1959, includes Alaska and Hawaii]

SOURCE OF INCOME	NUMBER OF FARMS REPORTING (1,000)			VALUE OF FARM PRODUCTS SOLD					
				Total ($1,000,000)			Average per farm reporting (dollars)		
	1949	1954	1959	1949	1954	1959	1949	1954	1959
All farms	5,382	4,782	3,711	22,051	24,644	30,493	4,097	5,153	8,218
Farms with no farm products sold	361	(1)	(1)						
All farm products sold	5,021	(1)	(1)	22,051	24,644	30,493	4,392	(1)	(1)
All crops	(1)	(1)	(1)	9,803	12,222	13,246	(1)	(1)	(1)
Field crops, other than vegetables and fruits and nuts	(1)	(1)	(1)	8,012	9,925	10,493	(1)	(1)	(1)
Vegetables	*347*	*280*	*184*	*607*	*645*	*710*	*1,749*	*2,309*	*4,022*
Fruits and nuts	381	(1)	(1)	792	1,198	1,398	2,077	(1)	(1)
Horticultural specialties	(1)	(1)	(1)	392	454	615	(1)	(1)	(1)
All livestock and livestock products	(1)	(1)	(1)	12,114	12,292	17,059	(1)	(1)	(1)
Dairy products	2,007	(1)	(1)	3,079	3,334	4,022	1,534	(1)	(1)
Poultry and poultry products	2,730	(1)	(1)	1,823	1,919	2,258	668	(1)	(1)
Livestock and livestock products, other than dairy and poultry	(1)	(1)	(1)	7,211	7,030	10,780	(1)	(1)	(1)
Forest products	(1)	(1)	(1)	135	130	187	(1)	(1)	(1)

[1] Not available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 850. Farms—Number, by Type of Farm, by States: 1959

[For composition of regions, see fig. I, p. XII. See headnote, table 848]

State	All farms	Commercial farms: Total[1]	Cash grain	Cotton	Other field crop	Vegetable	Fruit and nut	Dairy	Poultry	Livestock farms and ranches[2]	General	Other farms
U.S.	3,707,973	2,416,017	398,047	241,849	38,332	21,912	61,419	428,293	103,279	684,061	211,613	1,291,956
The North	1,714,492	1,272,495	308,265	6,758	9,279	9,392	12,565	331,035	39,637	428,551	107,073	441,997
The South	1,645,028	911,768	54,760	225,983	19,009	6,735	14,966	66,945	50,946	188,964	82,439	733,260
The West	348,453	231,754	35,022	9,108	10,044	5,785	33,888	30,313	12,696	66,546	22,101	116,699
New England	56,861	35,827	31	-------	2,760	899	1,374	18,546	6,694	1,684	911	21,034
Maine	17,342	9,785	21	-------	2,457	157	403	3,257	2,243	338	259	7,557
New Hampshire	6,544	3,419	-------	-------	25	46	109	1,803	890	239	136	3,125
Vermont	12,167	9,006	5	-------	38	25	68	7,833	258	392	213	3,161
Massachusetts	11,149	7,153	-------	-------	133	403	565	2,817	1,550	432	197	3,996
Rhode Island	1,400	1,086	-------	-------	46	76	35	420	284	45	10	314
Connecticut	8,259	5,378	5	-------	61	192	194	2,416	1,469	238	96	2,881
Middle Atlantic	197,866	127,329	4,278	-------	1,906	3,836	4,484	73,647	14,206	11,329	7,599	70,537
New York	82,354	56,760	1,670	-------	833	1,670	2,694	39,072	3,693	2,816	2,380	25,594
New Jersey	15,463	11,726	506	-------	507	1,558	647	2,744	3,593	514	438	3,737
Pennsylvania	100,049	58,843	2,102	-------	566	608	1,143	31,831	6,920	7,999	4,772	41,206
E. N. Central	666,118	464,000	121,014	5	2,066	3,884	6,194	155,335	10,967	119,307	36,820	202,118
Ohio	140,366	85,008	19,904	-------	200	762	888	22,201	3,057	24,560	10,117	55,358
Indiana	128,143	83,931	25,825	-------	108	517	235	10,871	3,162	32,477	9,095	44,212
Illinois	154,652	123,328	58,753	5	32	513	450	11,222	1,122	42,481	7,677	31,324
Michigan	111,765	65,042	14,267	-------	1,230	1,304	4,145	24,673	2,079	9,839	6,192	46,723
Wisconsin	131,192	106,691	2,265	-------	496	788	476	86,368	1,547	9,950	3,739	24,501
W. N. Central	793,647	645,339	182,942	6,753	2,547	773	513	83,507	7,770	296,231	61,743	148,308
Minnesota	145,639	120,301	27,271	-------	1,166	308	85	43,203	2,273	28,245	17,073	25,338
Iowa	174,685	154,329	31,233	-------	23	122	60	11,343	1,800	96,237	13,161	20,356
Missouri	168,679	106,678	19,307	6,753	65	147	298	16,528	2,179	52,690	7,726	62,001
North Dakota	54,791	50,407	27,911	-------	771	-------	-------	2,282	232	14,218	4,910	4,384
South Dakota	55,496	49,681	6,305	-------	53	10	-------	2,606	334	36,099	4,218	5,815
Nebraska	90,223	80,847	30,828	-------	436	55	25	2,350	413	38,513	8,071	9,376
Kansas	104,134	83,096	39,997	-------	33	131	45	5,195	539	30,229	6,584	21,038
South Atlantic	591,863	329,686	11,781	29,699	9,869	4,019	11,270	23,796	27,654	43,622	34,643	262,177
Delaware	5,203	3,887	980	-------	39	106	8	728	1,532	140	274	1,316
Maryland	25,108	15,979	1,740	-------	98	342	130	5,070	2,142	2,184	1,054	9,129
Virginia	97,619	49,527	2,387	55	2,989	358	665	6,261	3,151	11,120	3,939	48,092
West Virginia	43,982	12,605	243	-------	86	60	243	2,705	1,600	6,134	609	31,377
North Carolina	190,511	120,078	3,509	4,827	2,506	668	573	4,487	6,209	7,040	10,680	70,433
South Carolina	78,163	42,333	1,328	12,081	159	343	956	1,463	1,461	3,394	4,096	35,830
Georgia	106,271	61,955	1,329	12,476	3,401	456	504	2,319	9,923	9,280	12,648	44,316
Florida	45,006	23,322	265	260	591	1,686	8,191	763	1,636	4,330	1,343	21,684
E. S. Central	562,538	300,450	8,163	99,648	2,382	968	927	25,040	11,114	58,115	28,819	262,088
Kentucky	150,972	86,651	2,860	124	207	100	139	8,189	1,156	18,561	10,267	64,321
Tennessee	157,695	82,639	1,972	23,170	191	255	212	9,642	1,907	17,796	9,666	75,056
Alabama	115,773	57,850	1,721	29,765	1,514	363	300	1,700	5,378	9,915	5,801	57,923
Mississippi	138,098	73,310	1,670	46,589	470	250	276	5,509	2,673	11,843	3,085	64,788
W. S. Central	490,627	281,632	34,816	96,636	6,758	1,748	2,769	18,109	12,178	87,227	18,977	208,995
Arkansas	94,980	52,402	4,811	24,892	251	397	924	4,266	5,018	9,468	2,040	42,518
Louisiana	74,370	34,715	3,743	14,906	2,481	302	834	2,634	987	6,898	1,446	39,655
Oklahoma	94,678	56,942	14,817	5,384	1,418	149	146	4,676	779	23,222	6,036	37,736
Texas	226,599	137,513	11,445	51,454	2,608	900	865	6,533	5,394	47,639	9,455	89,086
Mountain	148,507	110,760	23,083	4,021	6,303	835	1,640	12,749	1,988	46,328	12,583	37,747
Montana	28,802	23,519	8,820	-------	862	20	91	1,105	112	10,874	1,438	5,283
Idaho	33,648	25,571	5,198	-------	3,001	121	265	5,520	245	5,961	4,974	8,077
Wyoming	9,705	8,084	1,027	-------	242	5	-------	411	24	5,505	816	1,621
Colorado	33,183	26,145	6,693	-------	1,550	360	624	2,134	460	11,308	2,633	7,038
New Mexico	15,869	9,799	626	2,177	198	71	188	393	193	5,117	735	6,070
Arizona	7,173	5,073	170	1,830	32	141	213	361	228	1,656	353	2,100
Utah	17,811	10,944	522	-------	397	95	259	2,665	695	4,847	1,354	6,867
Nevada	2,316	1,625	27	14	21	22	-------	160	31	1,060	280	691
Pacific	199,946	120,994	11,939	5,087	3,741	4,950	32,248	17,564	10,708	20,218	9,518	78,952
Washington	51,554	28,163	6,070	-------	1,027	820	4,516	5,938	2,017	4,571	2,031	23,391
Oregon	42,551	22,802	2,518	-------	798	848	2,749	3,439	1,436	6,181	3,490	19,749
California	99,232	66,929	3,341	5,087	1,019	2,921	24,273	8,046	7,022	8,928	3,968	32,303
Alaska	367	185	10	-------	25	10	1	73	19	28	9	182
Hawaii	6,242	2,915	-------	-------	872	351	709	68	214	510	20	3,327

[1] Includes 227,212 tobacco farms and other miscellaneous commercial farms not shown separately.
[2] Other than dairy and poultry farms.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 851. Value of All Farm Products Sold, by Source of Income, by States: 1959

[In thousands of dollars. Calendar-year data]

STATE	All farm products sold	Field crops [1]	Vegetables	Fruits and nuts	Horticultural specialties [2]	Dairy products	Poultry and poultry products	Livestock and livestock products [3]
U.S.	30,492,721	10,492,816	739,626	1,398,423	802,724	4,021,591	2,257,822	10,779,718
N.E.	592,972	93,275	12,652	24,957	50,302	224,434	148,721	38,630
Maine	171,318	54,348	2,501	5,727	7,906	32,090	61,684	7,063
N.H.	48,122	1,654	933	2,970	3,537	20,152	14,874	4,002
Vt.	108,547	2,899	387	1,862	4,526	33,183	4,731	10,959
Mass.	126,440	11,545	5,443	10,569	18,848	41,021	29,530	9,484
R.I.	18,299	2,846	437	452	3,112	6,791	3,796	865
Conn.	120,246	10,984	2,951	3,377	12,373	41,198	34,106	6,256
M.A.	1,699,013	178,711	78,403	88,165	137,830	741,010	252,562	222,332
N.Y.	755,410	72,679	35,891	44,256	48,236	408,632	70,093	75,621
N.J.	231,069	20,664	29,965	18,618	25,679	53,061	67,790	15,292
Pa.	712,535	85,369	12,547	25,291	63,913	279,317	114,679	131,418
E.N.C.	5,203,259	1,593,071	80,018	91,266	145,772	1,065,199	265,378	1,962,555
Ohio	862,851	250,508	15,790	11,278	53,615	166,921	62,292	302,446
Ind.	945,685	333,314	9,970	5,767	17,120	92,513	75,752	411,250
Ill.	1,810,661	741,151	14,849	7,464	32,381	122,457	42,642	849,717
Mich.	622,960	184,662	19,943	56,569	27,593	166,069	32,376	135,748
Wis.	961,103	83,437	19,465	10,189	15,063	517,239	52,316	263,395
W.N.C.	7,798,654	2,404,489	16,986	8,078	45,208	645,508	325,533	4,352,851
Minn.	1,211,750	350,530	9,989	1,359	12,806	259,077	99,516	478,473
Iowa	2,284,110	482,772	2,400	1,039	10,724	140,735	98,181	1,548,258
Mo.	1,011,892	343,097	2,882	4,405	12,653	93,312	53,123	502,420
N. Dak.	468,709	277,397	72	38	701	29,675	7,075	153,751
S. Dak.	513,876	81,041	173	25	1,137	28,296	20,503	382,700
Nebr.	1,197,501	390,199	428	266	2,415	39,871	26,990	737,333
Kans.	1,110,817	479,453	1,044	946	4,770	54,543	20,146	549,914
S.A.	3,248,094	1,202,573	128,333	397,408	159,275	345,982	505,318	509,206
Del.	85,962	18,085	4,572	656	3,478	8,301	47,012	3,857
Md.	231,136	51,393	9,333	4,375	9,983	63,625	56,417	36,010
Va.	423,925	132,229	8,584	18,724	20,082	73,078	59,047	112,181
W. Va.	99,142	5,207	525	10,723	4,823	18,155	23,022	36,686
N.C.	797,214	528,496	8,476	7,317	24,379	49,677	99,387	79,482
S.C.	302,924	180,767	8,148	15,353	11,370	22,652	25,443	39,190
Ga.	607,317	229,585	6,784	15,859	29,052	40,148	165,810	120,079
Fla.	700,476	56,812	81,910	324,401	56,107	70,346	29,179	81,721
E.S.C.	1,972,391	966,675	11,934	14,281	55,232	192,067	207,488	524,714
Ky.	518,070	241,795	1,106	2,179	7,629	62,010	16,176	187,176
Tenn.	474,557	221,124	5,076	3,270	15,165	62,134	28,202	139,588
Ala.	414,263	164,679	3,668	4,204	21,430	26,990	95,010	98,283
Miss.	565,501	339,078	2,085	4,628	11,008	40,933	68,101	99,667
W.S.C.	3,663,710	1,941,374	39,000	30,123	39,940	206,903	227,513	1,178,857
Ark.	639,187	429,121	3,092	7,659	6,214	24,544	94,169	74,389
La.	334,908	202,334	1,952	4,979	7,088	28,923	17,852	71,781
Okla.	580,735	239,958	2,217	1,811	6,627	43,032	14,851	272,237
Tex.	2,108,881	1,069,961	31,740	15,674	20,011	110,404	100,641	760,450
Mt.	2,355,960	867,766	58,500	29,897	26,597	152,669	48,594	1,171,937
Mont.	377,401	158,487	218	734	2,824	13,229	3,053	198,858
Idaho	438,384	228,755	3,780	6,182	3,699	47,137	6,289	142,541
Wyo.	162,124	30,334	152	29	483	4,558	908	125,661
Colo.	579,976	172,732	10,622	7,067	9,410	31,554	10,677	337,915
N. Mex.	197,128	80,629	3,105	2,824	1,694	9,317	3,863	95,697
Ariz.	388,380	163,202	37,297	9,716	6,703	17,805	6,111	147,546
Utah	155,675	27,250	2,643	3,318	1,478	25,066	17,507	78,412
Nev.	56,892	6,377	684	28	306	4,002	187	45,307
Pac.	3,958,667	1,244,881	313,800	714,248	142,570	447,819	276,714	818,637
Wash.	569,204	228,011	19,571	85,763	20,470	70,587	34,368	110,433
Oreg.	411,843	132,656	22,198	43,084	23,651	42,386	25,063	122,805
Calif.	2,822,071	773,829	268,649	580,383	96,157	323,540	209,781	569,732
Alaska	3,214	581	188	2	76	1,635	317	415
Hawaii	152,334	109,804	3,194	5,015	2,215	9,672	7,185	15,250

[1] Other than vegetables and fruits and nuts.
[2] Includes forest products.
[3] Other than dairy and poultry.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 852. Farms—Number by Color and Tenure of Operator, and Acreage and Value by Tenure of Operator: 1910 to 1959

[1950 data for value of farms and all 1954 and 1959 data based on reports for a sample of farms. See also *Historical Statistics, Colonial Times to 1957*, series K 8-52]

Year, region, and color	All farms	Full owner	Part owner	Manager	Tenant	
					Cash [1]	Other
NUMBER OF FARMS						
United States: [2]						
1910	6,361,502	3,354,897	593,825	58,104	712,294	1,642,382
1920	6,448,343	3,366,510	558,580	68,449	480,099	1,974,705
1930	6,288,648	2,911,644	656,750	55,889	489,210	2,175,155
1940	6,096,799	3,084,138	615,030	36,351	514,438	1,846,833
1950	5,382,162	3,089,583	824,923	23,527	212,790	1,231,339
1954	4,783,021	2,744,708	868,180	20,894	160,131	989,108
1959	3,707,973	2,116,594	834,470	21,060	107,217	628,632
The South:						
1910	3,097,547	1,329,390	215,121	16,284	453,060	1,083,692
1920	3,206,664	1,405,762	191,463	18,318	219,188	1,371,933
1930	3,223,816	1,190,683	224,992	17,358	238,032	1,552,751
1940	3,007,170	1,327,690	216,607	13,580	254,351	1,194,942
1950	2,652,423	1,411,123	325,999	9,979	119,855	735,467
1954	2,317,296	1,275,226	351,016	9,571	88,782	592,701
1959	1,645,028	946,613	322,952	9,196	49,231	317,036
White:						
1910	2,207,406	1,154,100	171,944	15,084	192,094	674,184
1920	2,283,750	1,227,204	152,432	16,548	118,913	768,653
1930	2,342,129	1,059,187	183,460	16,529	140,112	951,832
1940	2,326,904	1,185,788	185,246	13,215	189,667	752,988
1950	2,093,333	1,269,641	274,135	9,740	80,293	459,524
1954	1,853,820	1,145,372	300,280	9,190	60,634	338,344
1959	1,379,407	856,864	285,418	8,906	34,376	193,843
Nonwhite:						
1910	890,141	175,290	43,177	1,200	260,966	409,508
1920	922,914	178,558	39,031	1,770	100,275	603,280
1930	881,687	140,496	41,523	829	97,920	600,919
1940	680,266	141,902	31,361	365	64,684	441,054
1950	559,090	141,482	51,864	239	39,562	325,943
1954	463,476	129,854	50,736	381	28,148	254,357
1959	265,621	89,749	37,534	290	14,855	123,193
LAND IN FARMS (1,000 acres)						
United States: [2]						
1910	878,798	464,023	133,631	53,731	67,847	158,636
1920	955,884	461,250	175,525	54,120	65,095	199,885
1930	986,771	372,450	245,926	61,986	71,370	235,039
1940	1,060,852	382,098	300,325	66,530	74,889	237,010
1950	1,158,568	418,970	422,394	105,241	42,203	169,757
1954	1,160,044	397,214	472,465	100,003	36,960	153,402
1959	1,123,378	346,483	503,682	109,990	33,985	129,238
VALUE OF FARMS (LAND AND BUILDINGS) ($1,000)						
United States: [2]						
1910	34,801,126	17,310,639	5,056,295	1,456,959	10,977,232	
1920	66,316,003	30,710,721	9,153,502	2,665,216	6,012,819	17,773,744
1930	47,879,838	21,123,468	8,136,335	2,238,478	3,801,132	12,580,426
1940	33,641,739	15,297,274	6,112,411	1,442,657	2,227,608	8,561,788
1950	75,260,606	(3)	(3)	(3)	(3)	(3)
1954	97,582,018	(3)	(3)	(3)	(3)	(3)
1959	128,987,659	(3)	(3)	(3)	(3)	(3)

[1] For 1910, standing renters (renters paying a fixed quantity of products) were included with "Cash tenants" for all States; for 1920, those for northern and western States were included with "Cash tenants," and those for the South with "Other tenants."
[2] Beginning 1959, includes Alaska and Hawaii except that value of farms excludes Hawaii.
[3] Averages only available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 853. Farms—Number, by Tenure of Operator, by States: 1954 and 1959

[Data based on reports for a sample of farms. For composition of regions, see fig. I, p. XII. For total number of farms (all tenures combined), see table 840]

STATE	NUMBER OF FARMS OPERATED BY—								TENANTS AS PERCENT OF TOTAL	
	Full owners		Part owners		Managers		Tenants			
	1954	1959	1954	1959	1954	1959	1954	1959	1954	1959
United States	[2]2,744,708	2,116,594	[1]868,180	834,470	[1]20,894	21,060	[1]1,149,239	735,849	[1]24.0	19.8
The North	1,189,462	955,172	430,306	424,380	6,800	6,747	416,707	328,193	20.4	19.1
The South	1,275,226	946,613	351,016	322,952	9,571	9,196	681,483	366,267	29.4	22.3
The West	[1]280,020	214,809	[1]86,858	87,138	[1]4,523	5,117	[1]51,049	41,380	[1]12.1	11.9
New England	64,889	41,502	13,867	13,001	625	695	2,435	1,663	3.0	2.9
Maine	19,999	13,759	2,823	3,071	114	159	435	353	1.9	2.0
New Hampshire	8,352	4,760	1,772	1,584	57	68	242	132	2.3	2.0
Vermont	11,602	8,116	3,553	3,492	106	117	738	442	4.6	3.6
Massachusetts	14,019	8,321	2,623	2,346	254	202	420	280	2.4	2.5
Rhode Island	1,495	928	341	347	12	23	105	102	5.4	7.3
Connecticut	9,422	5,618	2,755	2,161	82	126	495	354	3.9	4.3
Middle Atlantic	195,711	140,919	42,212	41,491	1,356	1,357	17,920	14,099	7.0	7.1
New York	78,547	57,078	21,511	20,832	585	540	5,028	3,904	4.8	4.7
New Jersey	17,713	10,883	3,307	3,069	187	212	1,488	1,299	6.6	8.4
Pennsylvania	99,451	72,958	17,394	17,590	584	605	11,404	8,896	8.9	8.9
East North Central	492,161	395,714	152,869	148,951	2,635	2,453	151,400	119,000	18.9	17.9
Ohio	116,788	88,081	30,308	28,958	687	660	29,315	22,667	16.6	16.1
Indiana	94,188	75,796	30,829	30,251	425	379	28,255	21,717	18.4	16.9
Illinois	75,640	63,646	38,270	38,815	525	451	61,270	51,740	34.9	33.5
Michigan	99,027	77,362	29,163	26,232	406	368	10,347	7,803	7.4	7.0
Wisconsin	106,518	90,829	24,299	24,695	592	595	22,213	15,073	14.5	11.5
West North Central	436,701	377,037	221,358	220,937	2,184	2,242	244,952	193,431	27.1	24.4
Minnesota	96,758	84,571	36,171	34,723	304	451	32,091	25,894	19.4	17.8
Iowa	87,984	79,677	30,581	33,546	456	391	73,988	61,071	38.3	35.0
Missouri	128,124	106,159	37,742	37,696	503	385	35,311	24,439	17.5	14.5
North Dakota	23,467	19,775	25,488	24,478	95	195	12,768	10,343	20.6	18.9
South Dakota	19,714	17,625	24,288	23,158	197	220	18,151	14,493	29.1	26.1
Nebraska	35,141	31,181	26,342	27,436	327	325	38,923	31,281	38.6	34.7
Kansas	45,513	38,049	40,746	39,900	302	275	33,730	25,910	28.0	24.9
South Atlantic	497,734	350,144	115,504	106,188	3,917	4,032	241,520	131,499	28.1	22.2
Delaware	4,237	3,143	1,132	1,310	79	106	843	644	13.4	12.4
Maryland	22,505	16,860	4,344	4,056	337	342	5,297	3,850	16.3	15.3
Virginia	94,431	64,647	19,185	18,312	595	596	22,159	14,064	16.2	14.4
West Virginia	56,243	36,550	5,943	4,406	169	203	6,215	2,823	9.1	6.4
North Carolina	129,239	92,261	41,429	39,905	564	442	96,586	57,903	36.1	30.4
South Carolina	57,626	38,974	17,337	14,743	446	337	48,779	24,109	39.3	30.8
Georgia	88,005	62,240	19,255	17,643	915	761	57,290	25,627	34.6	24.1
Florida	45,448	35,469	6,879	5,813	812	1,245	4,351	2,479	7.6	5.5
East South Central	428,840	333,048	109,430	97,688	2,040	1,818	249,357	129,984	31.6	23.1
Kentucky	126,118	98,654	28,523	27,599	384	390	38,421	24,329	19.9	16.1
Tennessee	121,221	98,209	30,590	28,925	388	349	51,186	30,212	25.2	19.2
Alabama	88,432	60,902	27,427	22,637	537	390	60,553	31,844	34.2	27.5
Mississippi	93,069	75,283	22,890	18,527	731	689	99,197	43,599	45.9	31.6
West South Central	348,652	263,421	126,082	119,076	3,614	3,346	190,606	104,784	28.5	21.4
Arkansas	77,739	55,849	18,652	16,195	638	548	48,263	22,388	33.2	23.6
Louisiana	60,360	44,264	12,828	11,755	528	401	37,524	17,950	33.7	24.1
Oklahoma	58,372	46,466	31,418	29,919	544	433	28,936	17,860	24.3	18.9
Texas	152,181	116,842	63,184	61,207	1,904	1,964	75,883	46,586	25.9	20.6
Mountain	101,177	76,455	49,933	49,229	1,794	2,278	26,967	20,545	15.0	13.8
Montana	14,493	11,659	13,425	12,900	251	312	4,787	3,931	14.5	13.6
Idaho	24,231	19,861	7,711	8,577	259	327	6,609	4,883	17.0	14.5
Wyoming	5,198	4,049	4,128	3,910	178	222	1,851	1,524	16.3	15.7
Colorado	20,938	15,485	10,457	10,580	305	373	8,972	6,745	22.1	20.3
New Mexico	12,769	8,959	5,656	4,963	249	249	2,303	1,698	11.0	10.7
Arizona	5,727	3,940	2,252	1,995	290	391	1,016	847	10.9	11.8
Utah	15,703	10,924	5,879	5,791	190	202	1,236	804	5.4	4.5
Nevada	2,118	1,578	425	513	72	112	193	113	6.9	4.9
Pacific	[1]178,843	138,354	[1]36,925	37,909	[1]2,729	2,839	[1]24,082	20,844	[1]9.9	10.4
Washington	48,723	36,398	9,991	10,266	371	325	6,050	4,565	9.3	8.9
Oregon	41,250	30,813	8,606	8,490	336	244	4,250	3,004	7.8	7.1
California	88,870	68,489	18,328	17,756	2,022	2,144	13,782	10,843	11.2	10.9
Alaska	(2)	256	(2)	82	(2)	12	(2)	17	(2)	4.6
Hawaii	(2)	2,398	(2)	1,315	(2)	114	(2)	2,415	(2)	38.7

[1] Excludes Alaska and Hawaii. [2] Not available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 854. Mortgaged Farms—Number, Acreage, Value, and Indebtedness, by Tenure and Region: 1940 to 1961

[See also *Historical Statistics, Colonial Times to 1957*, series K 53-60]

Region and tenure		Farms: Total number (1,000)	Farms: Mortgaged farms: Number (1,000)	Farms: Mortgaged farms: Percent of total	Land in farms: All farms (1,000 acres)	Land in farms: Mortgaged farms: Acres (1,000)	Land in farms: Mortgaged farms: Percent of total	Value of farms (land and buildings): All farms (mil. dol.)	Value of farms: Mortgaged farms: Amount (mil. dol.)	Value of farms: Mortgaged farms: Percent of total	Mortgage debt: Total (mil. dol.)	Mortgage debt: Ratio to value of mortgaged farms (percent)	Mortgage debt: Debt per acre	Mortgage debt: Debt per farm	Equity per mortgaged farm
U.S., all tenures [1]	1940	6,097	2,364	38.8	1,060,852	457,374	43.1	33,642	15,874	47.2	6,586	41.5	$14.40	$2,786	$3,929
	1950	5,382	1,480	27.5	1,158,565	303,610	26.2	74,705	22,049	29.5	5,579	25.3	18.38	3,769	11,125
	1956	4,783	(2)	(2)	1,160,044	348,687	30.1	106,577	36,282	34.0	9,066	25.0	26.00	(2)	(2)
	1961	3,704	(2)	(2)	1,120,158	361,820	32.3	131,178	48,662	37.1	12,833	26.4	35.47	(2)	(2)
Full owners	1940	3,084	1,278	41.4	382,098	180,452	47.2	15,297	7,887	51.6	3,353	42.5	18.58	2,623	3,547
	1950	3,090	894	28.9	418,970	135,343	32.3	32,690	11,273	34.5	3,116	27.6	23.03	3,485	9,123
	1956	2,745	909	33.1	397,214	149,111	37.5	44,007	17,626	40.1	4,720	26.8	31.65	5,191	14,194
	1961	2,116	732	34.6	348,478	138,164	39.6	49,287	21,478	43.6	5,907	27.5	42.75	8,067	21,268
Part owners (owned portion only)	1940	615	336	54.7	144,639	93,882	64.9	3,564	2,358	66.2	1,106	46.9	11.78	3,287	3,724
	1950	825	281	34.1	228,304	90,079	39.5	11,440	4,585	40.1	1,179	25.7	13.08	4,187	12,103
	1956	868	368	42.4	261,031	117,087	44.9	18,963	9,087	47.9	2,312	25.4	19.75	6,278	18,397
	1961	810	388	47.9	265,675	136,601	51.4	25,886	14,255	55.1	3,980	27.9	29.13	10,253	26,475
Tenants and managers and rented portion of part-owner farms	1940	2,398	749	31.2	534,115	183,040	34.3	14,780	5,628	38.1	2,127	37.8	11.62	2,840	4,674
	1950	1,468	305	20.8	511,291	78,188	15.3	30,574	6,190	20.2	1,284	20.7	16.43	4,213	16,095
	1956	1,170	(2)	(2)	501,798	82,489	16.4	43,607	9,570	21.9	2,034	21.3	24.66	(2)	(2)
	1961	778	(2)	(2)	506,005	87,055	17.2	56,005	12,928	23.1	2,947	22.8	33.86	(2)	(2)
The North, all tenures	1940	2,580	1,128	43.7	435,088	191,630	44.0	18,909	9,026	47.7	4,122	45.7	21.51	3,655	4,349
	1950	2,268	726	32.0	440,828	124,320	28.2	38,048	11,315	29.7	2,986	26.4	24.02	4,113	11,470
	1956	2,043	(2)	(2)	435,555	141,427	32.5	52,086	17,424	33.5	4,494	25.8	31.78	(2)	(2)
	1961	1,715	(2)	(2)	421,440	144,950	34.4	60,756	21,558	35.5	6,129	28.4	42.29	(2)	(2)
The South, all tenures	1940	3,007	1,003	33.4	370,168	163,471	44.2	9,716	4,221	43.4	1,502	35.6	9.19	1,497	2,710
	1950	2,652	586	22.1	393,214	102,683	26.1	22,609	6,122	27.1	1,470	24.0	14.32	2,508	7,937
	1956	2,317	(2)	(2)	387,002	111,886	28.9	32,699	10,574	32.3	2,566	24.3	22.93	(2)	(2)
	1961	1,646	(2)	(2)	357,448	111,916	31.3	39,974	14,293	35.8	3,578	25.0	31.97	(2)	(2)
The West, all tenures [1]	1940	510	233	45.7	255,596	102,273	40.0	5,016	2,626	52.4	962	36.6	9.41	4,133	7,151
	1950	462	168	36.4	324,523	76,607	23.6	14,048	4,612	32.8	1,123	24.3	14.66	6,676	20,747
	1956	422	(2)	(2)	337,487	95,374	28.3	21,792	8,284	38.0	2,006	24.2	21.03	(2)	(2)
	1961	343	(2)	(2)	341,270	104,954	30.8	30,448	12,811	42.1	3,126	24.4	29.79	(2)	(2)

[1] Excludes Alaska and Hawaii. [2] Not available.

Source: Department of Commerce, Bureau of the Census, and Department of Agriculture, Economic Research Service; cooperative report, *U.S. Census of Agriculture: 1959*, Vol. V, part 4.

No. 855. Land Utilization, Farm and Nonfarm: 1920 to 1959

[**In millions of acres.** For calendar year indicated; cropland and pastureland, except for 1954 and 1959, usually relate to preceding year. Excludes Alaska and Hawaii. (In 1959, Alaska had 24,000 acres in cropland and 2,990,000 in pasture and range of a total land area of 365,482,000 acres; and Hawaii had 500,000 acres in cropland and 1,087,000 acres in pasture and range of a total land area of 4,100,000 acres.) Changes in total area represent remeasurements. See also *Historical Statistics, Colonial Times to 1957*, series J 49-64]

MAJOR LAND USES	1920	1925	1930	1935	1940	1945	1950	1954	1959
Total land area	1,903	1,903	1,903	1,903	1,905	1,905	1,904	1,904	1,902
In farms	956	924	987	1,055	1,061	1,142	1,159	1,158	1,120
Cropland	402	391	413	416	399	403	409	399	392
Used for crops [1]	374	365	379	375	363	379	387	380	359
Idle or in cover crops	28	26	34	41	36	24	22	19	33
Grassland pasture [2]	328	331	379	410	461	529	485	526	530
Forest and woodland	168	144	150	185	157	166	220	197	163
Pastured	77	77	85	108	100	95	135	121	92
Not pastured	91	67	65	77	57	71	85	76	71
Farmsteads, roads, and other land	58	58	45	44	44	44	45	36	35
Not in farms	947	979	916	848	844	763	745	746	782
Grazing land [3]	661	646	578	533	504	428	400	353	326
Forest land not used for grazing [4]	160	203	208	184	203	186	201	238	296
Other land [5]	126	130	130	131	137	149	144	155	160

[1] Comprises cropland harvested, crop failure, and cultivated summer fallow.
[2] Comprises all open or nonforested pasture in farms. Includes cropland used only for pasture 1945 to 1959, and plowable pasture in prior years.
[3] Comprises land used chiefly for grazing. Includes open or nonforested grazing land and idle grassland for first decades; forest and arid woodland, and shrub and brush grazing land for all years.
[4] Excludes forested areas in parks, wildlife refuges, military areas, and recreation sites.
[5] Comprises urban, industrial, and residential areas outside farms; parks and wildlife refuges; military lands; roads; railroads; ungrazed desert, rock, swamp, and other unused and waste land.

Source: Department of Agriculture, Economic Research Service; *Major Uses of Land in the United States—Summary for 1959*, and records.

No. 856. Land Utilization, by Ownership: 1945 to 1959

[**In millions of acres.** Excludes Alaska and Hawaii. See headnote, table 855. Private land comprises land owned by individuals, private groups, corporations, and Indian land under Government administration. Public land comprises land owned by Federal, State, or local governments. See also *Historical Statistics, Colonial Times to 1957*, series J 65-79]

MAJOR LAND USES	1945			1950			1954			1959		
	Total	Private	Public	Total	Private	Public	Total	Private	Public	Total	Private	Public
Total land area	1,905	1,396	509	1,904	1,399	505	1,904	1,399	505	1,902	1,398	504
Cropland	403	401	2	409	405	4	399	396	3	392	390	2
Pasture and grazing [1]	1,052	748	304	1,020	724	296	1,000	704	296	948	662	286
Woodland and forest land not used for grazing	265	156	109	286	184	102	314	211	103	361	253	108
Special uses [2]	100	26	74	105	27	78	110	33	77	124	41	83
Other land	85	65	20	84	59	25	81	55	26	77	52	25

[1] Includes woodland and forest land used or usable for grazing.
[2] Towns, cities, farmsteads, highways, roads, parks, wildlife refuges, water supply areas, and military lands.

Source: Department of Agriculture, Economic Research Service.

No. 857. Farmland, by Use, by States: 1959

[In thousands of acres. For total land in farms, see table 840. For composition of regions, see fig. I, P. XII]

STATE	CROPLAND—			OTHER THAN CROPLAND				
	Harvested	Used only for pasture	Not harvested and not pastured	Total	Woodland pastured	Woodland not pastured	Other pasture	Other land
United States	311,476	65,517	71,095	675,420	92,568	71,636	466,225	44,991
The North	197,514	25,062	33,158	165,705	21,648	21,340	99,964	22,754
The South	75,173	30,744	18,351	233,179	44,211	46,332	131,593	11,042
The West	38,780	9,710	19,586	276,536	26,709	3,964	234,668	11,195
New England	2,209	636	372	6,098	1,076	3,651	922	449
Maine	698	171	208	2,004	170	1,545	133	156
New Hampshire	206	72	29	818	152	573	56	37
Vermont	743	196	44	1,962	555	809	521	76
Massachusetts	291	103	52	697	102	410	90	95
Rhode Island	34	15	6	83	8	54	10	11
Connecticut	238	79	34	534	89	260	111	74
Middle Atlantic	10,544	2,252	1,812	12,123	1,664	4,507	4,093	1,858
New York	5,033	1,281	807	6,369	976	2,035	2,466	892
New Jersey	658	125	109	487	24	227	82	155
Pennsylvania	4,854	845	896	5,266	664	2,245	1,546	811
East North Central	58,612	8,653	4,818	31,303	8,062	8,056	8,049	7,135
Ohio	9,743	1,505	1,007	6,251	1,057	1,486	2,351	1,357
Indiana	11,147	1,687	827	4,953	1,201	1,343	1,136	1,273
Illinois	20,068	2,076	917	6,367	1,553	1,191	1,886	1,738
Michigan	7,155	1,398	1,404	4,826	1,137	1,707	693	1,289
Wisconsin	9,599	1,987	665	8,906	3,115	2,330	1,984	1,478
West North Central	126,149	13,521	26,156	116,182	10,846	5,126	86,899	13,311
Minnesota	18,918	1,272	1,740	8,866	2,481	1,538	2,170	2,677
Iowa	22,873	2,850	679	7,429	1,561	407	3,337	2,124
Missouri	12,178	4,704	1,289	14,985	5,434	2,422	5,411	1,718
North Dakota	19,358	756	7,593	13,759	272	185	11,155	2,147
South Dakota	14,236	1,184	3,744	25,686	263	90	24,065	1,268
Nebraska	18,057	1,309	3,461	24,928	370	152	22,847	1,560
Kansas	20,528	1,446	7,650	20,529	465	332	17,913	1,819
South Atlantic	19,802	5,426	4,508	53,603	12,429	26,071	11,616	3,487
Delaware	416	43	37	266	6	185	20	55
Maryland	1,456	287	208	1,506	138	815	357	196
Virginia	2,858	1,018	551	8,699	1,153	4,516	2,551	478
West Virginia	832	520	200	4,511	1,017	1,587	1,686	221
North Carolina	4,746	674	996	9,472	1,024	6,725	1,040	682
South Carolina	2,694	641	700	5,114	927	3,432	447	309
Georgia	4,918	1,304	1,237	12,199	3,066	7,175	1,384	574
Florida	1,882	939	580	11,836	5,098	1,634	4,130	973
East South Central	16,409	11,000	4,138	36,738	10,585	14,501	8,510	3,142
Kentucky	4,013	4,740	1,174	7,103	1,397	3,099	1,628	979
Tennessee	4,116	3,217	1,166	7,582	1,744	3,457	1,485	896
Alabama	3,715	1,413	900	10,515	3,280	4,497	2,236	502
Mississippi	4,564	1,630	899	11,538	4,164	3,448	3,161	765
West South Central	38,962	14,318	9,705	142,838	21,197	5,761	111,468	4,413
Arkansas	5,325	2,270	841	8,023	3,003	2,654	1,622	743
Louisiana	2,426	2,033	448	5,440	1,750	1,463	1,690	537
Oklahoma	8,975	2,386	2,682	21,757	3,907	549	16,270	1,031
Texas	22,236	7,629	5,733	107,618	12,537	1,094	91,886	2,101
Mountain	23,045	4,839	13,421	223,124	16,225	1,189	198,438	7,272
Montana	8,159	945	5,974	49,004	2,178	260	45,471	1,094
Idaho	3,832	666	1,286	9,448	1,219	305	7,074	851
Wyoming	1,679	588	471	33,462	535	20	32,368	538
Colorado	5,879	1,235	3,918	27,755	1,838	192	24,647	1,078
New Mexico	1,077	429	786	44,001	3,539	283	39,414	767
Arizona	1,019	204	363	38,617	5,960	63	30,710	1,884
Utah	1,062	409	536	10,681	928	52	9,250	451
Nevada	338	362	87	10,156	28	16	9,504	609
Pacific	15,744	4,871	6,165	53,411	10,484	2,775	36,230	3,923
Washington	4,412	724	2,774	10,807	3,105	854	6,125	723
Oregon	3,118	942	1,319	15,856	3,145	736	11,482	493
California	8,023	3,033	1,911	23,922	4,076	823	17,181	1,842
Alaska	14	4	5	864	42	68	524	230
Hawaii	176	167	156	1,962	115	294	917	635

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 858. Irrigation Organizations—Summary: 1920 to 1959

[Data are for 17 Western States (Alaska and Hawaii excluded, except as noted) and Louisiana. Relates to multiple farm organizations only. Based on reports of management of organizations. An organization is defined as a group of two or more water users, a company, a corporation, or a governmental district or agency that operates facilities to supply water for irrigation of farm or ranch lands. It may be a formal legal arrangement or an informal cooperative arrangement]

ITEM	1920	1930	1940	1950	1959
Approximate land area [1] ..... 1,000 acres	1,159,389	1,159,362	1,195,412	1,194,632	1,193,103
Farms (irrigated and nonirrigated) [1] ..... number	1,689,671	1,826,434	1,686,166	1,435,847	1,050,408
Land in all farms [1] ..... 1,000 acres	490,686	555,456	613,491	701,611	717,322
Irrigation organizations:					
Organizations ..... number	(2)	4,378	5,637	10,491	[1] 8,765
Area irrigated ..... 1,000 acres	12,339	13,131	16,378	14,975	[1] 17,786
Investment in irrigation organizations ..... 1,000 dollars	542,913	704,763	864,611	1,384,564	2,424,153
Increase over preceding census ..... percent	(2)	29.8	22.7	60.1	75.0
Average per acre irrigated ..... dollars	44	54	63	92	137
Increase over preceding census ..... percent	(2)	21.9	17.7	46.0	48.9

[1] Includes Hawaii.
[2] Not available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1920*, Vol. VII; 1930 and 1940, *Irrigation of Agricultural Lands*; and *U.S. Census of Agriculture: 1950*, and *1959*, Vol. III.

No. 859. Irrigation Organizations—Area Irrigated, 1949 and 1959, and Capital Invested, 1950 and 1959, by States

[See headnote, table 858. Minus sign (—) denotes decrease]

STATE	AREA IRRIGATED				CAPITAL INVESTED			
	1949	1959		Increase, 1949 to 1959	1950	1959		Increase, 1950 to 1959
		Total	Proportion of total			Total	Proportion of total	
	1,000 acres	*1,000 acres*	*Percent*	*Percent*	*$1,000*	*$1,000*	*Percent*	*Percent*
19 States, total	[1] 14,975	17,786	100.0	[1] 18.8	[1] 1,384,564	[1] 2,424,153	[1] 100.0	[1] 75.0
Louisiana	261	186	1.0	−28.7	8,766	10,821	0.5	23.4
18 Western States, total	[1] 14,713	17,601	99.0	[1] 19.6	[1] 1,375,798	[1] 2,413,332	[1] 99.6	[1] 75.4
Arizona	556	644	3.6	15.8	104,725	167,649	6.9	60.0
California	3,135	4,184	23.5	33.5	402,412	898,382	37.1	123.2
Colorado	2,400	2,670	15.0	11.3	144,704	204,537	8.4	41.3
Hawaii	(2)	85	0.5	(2)	(2)	(2)	(2)	(2)
Idaho	1,896	2,299	12.9	21.3	123,315	147,843	6.1	19.8
Kansas and Oklahoma	78	106	0.6	35.9	12,854	55,166	2.3	329.2
Montana	1,149	1,347	7.6	17.2	72,024	96,265	4.0	33.7
Nebraska	508	706	4.0	39.0	41,974	55,814	2.3	33.0
Nevada	286	263	1.5	−8.0	16,092	17,151	0.7	6.6
New Mexico	384	366	2.1	−4.7	45,447	59,113	2.4	30.1
North Dakota	34	40	0.2	17.6	2,853	3,467	0.1	21.5
Oregon	739	846	4.8	14.5	60,988	70,576	2.9	15.7
South Dakota	68	84	0.5	23.5	5,062	9,896	0.4	66.0
Texas	1,043	944	5.3	−9.5	70,897	87,630	3.6	23.6
Utah	1,083	1,110	6.2	2.5	53,161	91,507	3.8	72.1
Washington	514	848	4.8	65.0	168,685	369,453	15.2	119.0
Wyoming	840	1,058	5.9	26.0	49,707	78,883	3.3	58.7

[1] Excludes Hawaii.
[2] Not available.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1950*, and *1959*, Vol. III.

No. 860. Irrigated Land in Farms, by States: 1944 to 1959

[In 1944 and 1949, figures for acres irrigated represent total land in irrigated farms; in 1954 and 1959, irrigated cropland harvested plus irrigated pasture. For composition of regions, see fig. I, p. XII. See also *Historical Statistics, Colonial Times to 1957*, series J 84-85, for U.S. totals]

STATE	FARMS REPORTING				ACRES IRRIGATED			
	1944	1949	1954	1959	1944	1949	1954	1959
U.S.[1]	288,195	306,219	320,236	307,783	20,539,470	25,904,873	29,552,155	33,162,978
The North	12,448	18,348	27,648	36,273	861,979	1,258,321	1,925,423	3,356,861
The South	29,008	39,087	57,185	63,011	2,372,296	4,552,481	7,102,185	7,783,403
The West[1]	246,739	248,784	235,403	208,499	17,305,195	20,094,071	20,524,547	22,022,714
New England	922	1,581	2,017	1,618	12,153	31,450	38,395	30,651
Maine	3	123	87	138	100	2,299	1,097	2,214
New Hampshire	10	51	61	76	63	622	942	1,249
Vermont	2	22	55	72	6	303	689	1,612
Massachusetts	874	1,053	1,366	1,093	11,355	18,507	22,683	19,999
Rhode Island	9	52	43	34	133	1,631	1,009	406
Connecticut	24	280	405	205	496	8,088	11,975	5,171
Middle Atlantic	1,415	2,208	4,333	4,430	30,792	54,616	135,886	148,393
New York	646	888	1,075	1,741	10,316	19,248	59,024	57,997
New Jersey	675	1,033	1,775	1,902	11,712	28,117	58,912	73,873
Pennsylvania	94	287	883	787	8,764	7,251	17,950	16,523
East North Central	1,206	2,110	3,509	3,934	12,795	36,237	75,578	111,376
Ohio	463	458	847	575	4,178	5,706	15,379	11,072
Indiana	123	164	443	480	830	5,339	11,738	17,237
Illinois	47	139	266	332	368	1,510	6,789	10,127
Michigan	347	995	1,408	1,909	2,850	13,901	23,473	40,178
Wisconsin	226	354	545	638	4,569	9,781	18,199	31,862
West North Central	8,905	12,449	17,789	26,291	806,239	1,136,018	1,675,564	3,066,441
Minnesota	27	274	347	387	210	4,235	9,207	14,991
Iowa	54	76	132	313	1,197	1,386	2,306	18,131
Missouri	118	142	752	590	1,113	2,089	32,998	29,957
North Dakota	206	304	399	471	22,814	35,294	37,672	47,656
South Dakota	708	807	923	1,002	52,895	78,069	90,371	115,029
Nebraska	7,156	9,680	12,500	18,936	631,762	876,259	1,171,369	2,077,926
Kansas	636	1,166	2,736	4,592	96,248	138,686	331,551	762,101
South Atlantic	4,199	6,516	11,660	18,924	224,446	381,044	536,195	596,844
Delaware	3	10	81	156	22	404	5,553	15,533
Maryland	8	30	235	328	287	697	8,344	11,174
District of Columbia	16	2	(2)	(2)	45	13	(2)	(2)
Virginia	31	71	763	1,996	1,419	2,817	21,805	31,101
West Virginia	11	9	62	66	42	40	1,381	1,115
North Carolina	19	96	2,704	8,537	229	2,083	25,423	65,743
South Carolina	5	84	748	1,308	62	6,408	22,009	24,952
Georgia	14	139	1,268	2,194	423	3,161	28,873	33,700
Florida	4,092	6,075	5,799	4,249	221,917	365,421	427,807	413,526
East South Central	211	180	4,475	3,253	1,113	6,950	185,130	136,627
Kentucky	34	67	1,226	1,130	230	485	13,434	8,605
Tennessee	21	35	1,094	1,005	393	1,012	22,548	10,979
Alabama	153	34	452	328	487	367	16,658	17,357
Mississippi	3	44	1,703	790	3	5,086	132,490	99,686
West South Central	24,598	32,391	41,050	40,834	2,146,737	4,164,487	6,380,860	7,049,932
Arkansas	2,229	3,060	6,218	5,652	288,665	422,107	857,863	711,812
Louisiana	7,185	7,438	6,897	4,817	535,619	576,775	707,818	484,850
Oklahoma	74	466	1,620	2,481	2,237	34,071	108,151	197,632
Texas	15,110	21,427	26,315	27,884	1,320,216	3,131,534	4,707,028	5,655,638
Mountain	127,963	122,280	112,231	96,094	10,703,164	11,642,484	11,207,997	12,094,712
Montana	12,997	13,457	13,114	11,935	1,555,480	1,716,792	1,890,671	1,874,520
Idaho	28,571	29,413	28,218	25,383	2,026,280	2,137,237	2,324,571	2,576,580
Wyoming	7,793	7,831	7,130	6,412	1,353,873	1,431,767	1,262,632	1,469,911
Colorado	28,054	27,121	23,355	20,312	2,698,579	2,872,348	2,262,921	2,684,757
New Mexico	14,299	12,691	11,690	8,850	534,640	655,287	649,615	731,835
Arizona	9,634	7,822	6,809	5,391	736,027	963,560	1,177,407	1,152,450
Utah	23,543	21,126	19,406	15,701	1,124,081	1,137,995	1,072,682	1,061,683
Nevada	3,072	2,819	2,509	2,110	674,204	727,498	567,498	542,976
Pacific[1]	118,776	126,504	123,172	112,405	6,602,031	8,451,587	9,316,550	9,928,002
Washington	15,074	16,928	18,844	19,292	520,153	589,035	778,135	1,006,969
Oregon	15,597	17,663	19,826	17,724	1,129,059	1,306,810	1,490,366	1,384,284
California	87,205	90,755	84,502	74,138	4,952,819	6,438,324	7,048,049	7,395,570
Hawaii	(2)	1,158	(2)	1,251	(2)	117,418	(2)	141,179

[1] Excludes Alaska. [2] Not available.

Source: Department of Commerce, Bureau of the Census; *U. S. Census of Agriculture: 1954* and *1959*, Vol. II.

No. 861. Federal Bureau of Reclamation Irrigation Projects: 1960

[Value in thousands of dollars. Detail may not add to State totals; listing includes only projects (and divisions of Missouri River Basin Project) of 25,000 acres and over. For definitions, see headnote, table 862]

STATE AND PROJECT	FULL IRRIGATION SERVICE LANDS			SUPPLEMENTAL AND TEMPORARY IRRIGATION SERVICE LANDS [1]		
	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value
Total	4,325,848	3,487,546	580,486	3,845,309	3,412,165	577,043
Arizona	397,148	281,512	90,158	95,730	68,291	19,916
Gila	103,449	78,934	15,130			
Salt River	238,357	153,987	49,134	95,730	68,291	19,916
Yuma [2]	51,936	45,649	24,793			
California	755,113	628,033	183,972	942,361	775,653	245,938
Boulder Canyon	604,718	489,889	159,511			
Cachuma	500	64	19	26,610	11,152	7,353
Central Valley	33,855	31,448	9,380	849,175	708,739	203,946
Klamath [2]	80,649	78,120	11,284			
Santa Maria				35,200	30,651	26,668
Solano				29,800	23,905	7,034
Yuma [2]	14,620	10,749	2,327			
Colorado	111,143	91,266	8,564	805,488	790,617	94,813
Colorado-Big Thompson				720,000	720,000	89,858
Grand Valley	34,686	27,671	2,959	7,995	7,356	883
Pine River [2]				40,111	35,167	1,518
Uncompahgre	76,457	63,595	5,605			
Idaho	491,209	439,651	52,396	1,095,948	1,022,798	124,799
Boise [2]	223,065	197,179	22,495	136,115	125,737	19,158
Minidoka	214,642	195,555	23,023	945,784	885,280	104,831
Owyhee [2]	33,360	31,289	4,227			
Kansas	47,289	29,330	2,384			
Mo. River Basin, Bostwick Division [2]	30,989	19,955	1,641			
Montana	344,316	263,909	13,801			
Huntley	32,447	24,161	1,707			
Lower Yellowstone [2]	36,832	30,192	2,316			
Milk River	116,062	87,148	3,876			
Sun River	91,823	66,843	2,688			
Nebraska	257,248	230,347	22,293	115,952	104,111	12,254
Missouri River Basin:						
Bostwick Division [2]	22,593	18,194	1,537			
Frenchman—Cambridge Division	38,522	32,698	2,728	1,030	984	62
Oregon Trail Division [2]				22,524	17,484	2,171
North Platte [2]	171,571	160,517	16,155	92,398	85,643	10,021
Nevada	71,901	57,817	3,983	68,378	43,884	3,129
Humboldt				39,623	22,822	1,612
Newlands	71,901	57,817	3,983			
Truckee Storage				28,755	21,062	1,517
New Mexico	304,107	200,793	34,790	1,030	1,030	93
Carlsbad	25,055	20,023	3,602			
Middle Rio Grande	121,680	53,799	4,322			
Pine River [2]				1,030	1,030	93
Rio Grande [2]	102,082	85,162	24,953			
Tucumcari	41,411	31,854	1,332			
North Dakota	31,945	24,902	2,042			
Lower Yellowstone [2]	19,388	15,615	1,363			
Oklahoma: W. C. Austin	47,809	42,161	5,793			
Oregon	340,461	306,132	39,262	122,216	111,458	15,437
Boise [2]	1,696	1,424	112			
Deschutes	50,000	46,647	9,689	48,990	43,930	3,878
Klamath [2]	135,330	120,596	14,195			
Owyhee [2]	71,656	67,384	9,816	13,000	12,277	3,280
Umatilla	17,859	12,938	900	13,528	11,620	1,408
Vale	32,000	31,346	2,481			
South Dakota	69,318	65,704	3,773	8,900	6,617	343
Belle Fourche	57,183	54,333	2,924			
Texas	76,114	58,228	15,170	28,938	15,829	2,721
Rio Grande [2]	76,114	58,228	15,170	18,330	8,907	1,870
Utah	17,269	15,189	1,035	322,076	262,408	22,373
Moon Lake				75,256	56,027	1,318
Provo River				48,156	42,319	4,346
Strawberry Valley	17,269	15,189	1,035	27,302	25,908	2,299
Weber River				108,978	91,379	10,528
Washington	713,334	532,751	87,000	181,999	160,878	31,254
Columbia Basin	425,514	294,195	40,912			
Yakima	279,922	232,952	44,711	181,999	160,878	31,254
Wyoming	250,124	219,821	14,070	56,293	48,591	3,973
Mo. River Basin, Oreg. Trail Div. [2]				8,732	6,287	653
North Platte [2]	54,752	54,398	4,765	16,317	15,079	1,507
Riverton	54,337	49,645	2,460			
Shoshone	93,529	77,634	5,171			

[1] Includes service under Warren Act and special contracts for excess water over and above regular project requirements to lands which are usually located outside project proper and largely unclassified as to irrigability.

[2] Project serves area in 2 States as follows: Yuma—Ariz. and Calif.; Klamath—Calif. and Oreg.; Pine River—Colo. and N. Mex.; Boise and Owyhee—Idaho and Oreg.; Missouri River Basin, Bostwick Division—Kans. and Nebr.; Lower Yellowstone—Mont. and N. Dak.; Missouri River Basin, Oregon Trail Division (Glendo Unit)—Nebr. and Wyo.; North Platte—Nebr. and Wyo.; Rio Grande—N. Mex. and Tex.

Source: Department of the Interior, Bureau of Reclamation; *1960 Crop Report and Related Data, Federal Reclamation Projects.*

No. 862. Federal Bureau of Reclamation Irrigation Projects—Acreage and Crop Value: 1909 to 1960

[In thousands. "Full irrigation service" applies to irrigable land receiving its sole irrigation supply through Bureau-constructed facilities and to previously irrigated land in non-Federal projects where a substantial part of the facilities were constructed, rehabilitated, or replaced by the Bureau; "supplemental and temporary irrigation service" applies to irrigable land receiving irrigation water through Bureau projects in addition to supply from nonproject sources and to land for which water is delivered under temporary arrangements. For 17 Western States included, see table 861]

Year	Entire area			Full irrigation service lands			Supplemental and temporary irrigation service lands [1]		
	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value	Irrigable acreage	Irrigated acreage	Gross crop value
1909	731	411	$11,921	731	411	$11,921	----------	----------	----------
1919	2,648	2,104	152,979	1,646	1,194	89,128	1,002	910	$63,851
1929	3,402	2,718	161,180	1,964	1,497	87,800	1,438	1,221	73,380
1939	3,890	3,141	114,083	2,295	1,752	68,386	1,595	1,389	45,697
1949	5,678	4,820	516,329	3,207	2,646	313,404	2,471	2,174	202,925
1950	6,024	5,077	578,238	3,304	2,716	311,437	2,720	2,361	266,801
1955	7,368	6,262	827,706	3,826	3,163	428,644	3,542	3,099	399,062
1960	8,171	6,900	1,157,529	4,326	3,488	580,486	3,845	3,412	577,043

[1] Includes service under Warren Act and special contracts for excess water over and above regular project requirements to lands which are usually located outside project proper and largely unclassified as to irrigability.

Source: Department of the Interior, Bureau of Reclamation; *Crop Report and Related Data, Federal Reclamation Projects.*

No. 863. Farm Drainage—Cost for all Drainage States: 1940 to 1959

[Excludes Alaska and Hawaii]

Item	All drainage States, cost ($1,000)	30 States [1]		10 States, cost [2] ($1,000)
		Number of enterprises reporting	Cost ($1,000)	
Construction and operation and maintenance:				
1940 to 1949	179,034	3,426	110,232	68,802
1950 to 1959	416,876	5,089	291,385	125,491
New drainage works:				
1940 to 1949	23,872	983	16,288	7,584
1950 to 1959	185,689	2,898	147,053	38,636

[1] For 1960 Census, 29 States; largely States with organized drainage districts and other corporate and private enterprises. See text, pp. 605 and 606. [2] Largely county-drain States.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. IV.

No. 864. Number and Area of Drainage Enterprises Classified by Size: 1930 to 1960

[Excludes Alaska and Hawaii]

Size group	Number of enterprises, 1960	Area of enterprises (1,000 acres) [1]						
		All drainage States			30 States [2]			
		1930	1940	1960	1930	1940	1950	1960
Total	8,461	128,495	132,828	99,098	41,644	45,207	54,618	47,189
Under 100 acres		324	525		3	4		
100 to 199 acres	----	1,041	1,447	----------	12	19	604	----------
200 to 499 acres		5,984	7,093		148	221		
500 to 999 acres	2,847	11,130	11,235	1,951	910	954	1,098	1,622
1,000 to 1,999 acres	2,081	34,074	14,558	2,881	4,999	1,726	1,962	2,459
2,000 to 4,999 acres	1,588		20,511	4,883		3,961	4,102	4,401
5,000 to 9,999 acres	728	15,865	16,388	5,082	4,485	4,543	4,528	4,631
10,000 to 19,999 acres	499	35,076	16,964	6,963	14,769	6,042	6,004	5,974
20,000 to 49,999 acres	320		20,142	9,795		10,048	7,921	7,617
50,000 to 99,999 acres	152	11,404	10,760	10,631	6,304	6,816	6,085	6,091
100,000 to 199,999 acres	246	10,219	5,925	56,912	10,014	3,794	3,566	14,394
200,000 to 499,999 acres			3,155			2,955	6,576	
500,000 acres and over		3,378	4,124			4,124	12,172	

[1] Sum of areas in individual enterprises without deduction for area in more than 1 enterprise (overlapped).
[2] For 1960 Census, 29 States; largely States with organized drainage districts and other corporate and private enterprises. See text, pp. 605 and 606.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. IV.

No. 865. Growth of Conservation Districts: 1940 to 1961

[For years ending June 30. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Beginning 1945, includes wind-erosion districts and grazing districts. Beginning 1950, includes Imperial Irrigation District, California. Beginning 1959, includes Elephant Butte Irrigation District, N. Mex.]

Year	Districts organized [1]		Total area in districts		Districts with supplemental memorandum [2]	
	Each year	Cumulative total	New districts and additions	Cumulative total	Each year	Cumulative total
	Number	*Number*	*1,000 acres*	*1,000 acres*	*Number*	*Number*
1940	153	314	101,306	189,752	120	233
1945	232	1,346	120,368	740,859	221	1,204
1950	121	2,285	74,721	1,253,484	133	2,207
1955	56	2,674	43,478	1,484,974	63	2,644
1957	49	2,770	50,535	1,596,991	46	2,734
1958	36	2,806	36,327	1,633,318	33	2,767
1959	55	2,861	28,650	1,661,968	47	2,814
1960	6	2,867	10,004	1,671,973	23	2,837
1961	33	2,900	17,633	1,689,605	6	2,843

[1] Totals at end of each year are net, including corrections and adjustments made during year.
[2] A basic "memorandum of understanding" is signed for any Department of Agriculture assistance; a supplemental memorandum is signed for assistance from the Soil Conservation Service.

Source: Department of Agriculture, Soil Conservation Service; *Report of Administrator of Soil Conservation Service*, and records.

No. 866. Soil Conservation Districts—Summary, by States and Other Areas: Cumulative to June 30, 1961

[See text, p. 606]

State or other area	Districts organized [1]	Approximate area and farms within organized districts: Total area	Farms and ranches	Land in farms	State or other area	Districts organized [1]	Approximate area and farms within organized districts: Total area	Farms and ranches	Land in farms
	Number	*1,000 acres*	*Number*	*1,000 acres*		*Number*	*1,000 acres*	*Number*	*1,000 acres*
Total	2,900	1,689,605	3,616,777	1,039,957	Mont.[3]	63	91,413	28,738	62,258
					Nebr	87	48,412	90,475	47,589
U.S.	2,882	1,687,335	3,562,507	1,038,101	Nev	36	65,288	3,115	8,133
Ala	54	32,678	115,610	16,530	N. H	10	5,769	6,542	1,124
Alaska	10	5,873	1,230	1,124	N. J	14	4,813	15,458	1,379
Ariz	47	55,777	6,529	26,393					
Ark	76	33,599	95,009	16,475	N. Mex.[4]	58	66,353	16,850	44,210
Calif.[2]	160	67,646	99,248	25,226	N. Y	46	24,561	75,197	12,529
Colo	96	50,132	37,884	31,452	N. C	50	28,691	190,567	15,886
Conn	8	3,135	8,292	884	N. Dak	73	44,349	54,883	41,293
Del	3	1,266	5,207	762	Ohio	87	24,756	139,236	18,406
Fla	59	29,378	44,594	14,924	Okla	87	44,180	94,675	35,802
Ga	27	37,268	106,347	19,664	Oreg	59	41,624	48,958	19,014
					Pa	54	24,244	89,508	10,719
Hawaii	16	3,582	4,147	2,444	R. I	3	677	1,395	138
Idaho	54	40,924	34,676	16,456	S. C	45	19,374	78,171	9,149
Ill	99	33,191	153,657	30,148					
Ind	83	20,280	112,140	17,970	S. Dak	67	46,499	52,474	42,902
Iowa	100	33,831	174,707	33,831	Tenn	95	26,727	157,688	16,081
Kans	105	52,526	104,345	50,153	Tex	182	165,320	226,094	139,167
Ky	121	25,069	150,984	17,030	Utah	43	51,391	17,809	12,675
La	26	27,939	73,950	10,301	Vt	13	5,931	12,099	2,945
Maine	15	16,485	14,540	2,951	Va	30	24,950	98,483	13,128
Md	24	6,319	25,121	3,456	Wash	77	40,395	52,184	18,078
					W. Va	14	15,411	44,011	6,062
Mass	15	5,000	11,145	1,142	Wis	71	35,011	131,215	21,156
Mich	78	31,643	102,256	13,598	Wyo	46	44,569	9,741	25,867
Minn	81	37,753	146,942	29,109					
Miss	74	30,223	138,142	18,630	P. R	17	2,185	53,515	1,792
Mo	41	15,110	60,239	11,758	V. I	1	85	755	64

[1] For specific procedure on organization of soil conservation districts, see respective State soil conservation district law. By provision of most State district laws, State soil conservation committee has responsibility for organization of districts. Local district governing bodies administer affairs of each individual district.
[2] Includes Imperial Irrigation District.
[3] Includes 6 grass conservation districts.
[4] Includes Elephant Butte Irrigation District.

Source: Department of Agriculture, Soil Conservation Service; annual report, *Soil Conservation Districts*, and records.

No. 867. Fertilizers—Quantities of Commercial Fertilizers Consumed and Average Plant Food Content: 1940 to 1960

[For years beginning July 1. Includes Hawaii and Puerto Rico, and Alaska in 1951 and 1952. Includes fertilizers distributed by Government agencies. See also *Historical Statistics, Colonial Times to 1957*, series K 160]

Year	All fertilizers				Mixed fertilizers			
	Quantity	Nitrogen	Phosphoric oxide	Potash	Quantity	Nitrogen	Phosphoric oxide	Potash
	1,000 tons	*Percent*	*Percent*	*Percent*	*1,000 tons*	*Percent*	*Percent*	*Percent*
1940	9,360	4.8	10.4	4.9	5,777	3.8	9.7	6.7
1950	20,991	5.9	10.0	6.6	13,978	4.2	11.0	9.0
1951	22,432	6.3	9.8	7.0	15,086	4.3	11.1	9.4
1952	23,413	7.0	9.7	7.4	15,722	4.6	11.3	9.9
1953	22,773	8.1	9.8	8.0	15,541	5.0	11.5	10.3
1954	22,726	8.6	10.0	8.2	15,348	5.2	11.9	10.8
1955	22,194	8.7	10.1	8.4	14,776	5.4	12.1	11.2
1956	22,709	9.4	10.1	8.5	14,703	5.7	12.4	11.4
1957	22,516	10.1	10.2	8.6	14,353	6.0	12.5	11.7
1958	25,308	10.6	10.1	8.7	16,069	6.2	12.5	11.9
1959	24,877	11.0	10.3	8.7	15,650	6.5	13.0	12.1
1960 (prel.)	25,317	11.9	10.3	8.6	15,554	6.7	13.1	12.1

Source: Department of Agriculture, Economic Research Service.

No. 868. Acreage Treated and Materials Dispensed by Aircraft, 1952 to 1960, and by Type of Activity, 1960

[Excludes Alaska and Hawaii]

Year and type of activity	Acres treated (1,000)	Materials dispensed		Flight hours of aircraft employed
		Dry (1,000 lb.)	Liquid (1,000 gal.)	
1952	37,421	736,915	49,298	707,277
1953	39,396	664,689	78,949	722,318
1954	36,969	628,257	90,848	672,226
1955	50,157	755,338	78,431	851,960
1956	51,938	581,688	84,803	802,500
1957	61,255	655,031	95,333	865,800
1959	50,891	592,062	113,086	879,750
1960				
Total	51,978	632,022	120,278	889,100
Insect control	33,057	150,331	73,569	505,690
Crops, orchards, soils	28,160	149,142	69,772	479,110
Forests	1,417	----------	1,754	7,200
Towns, water, swamps	3,480	1,189	2,043	19,380
Plant disease control	752	8,984	2,420	19,060
Weed control	7,939	93	13,509	128,740
Brush control	1,431	16	5,520	25,720
Fertilization	2,966	336,246	2,717	75,540
Defoliation	3,699	15,782	22,543	81,890
Seeding	2,134	120,570	----------	43,140
Other [1]	----------	----------	----------	9,320

[1] Antifrost agitation, agitating fruit trees, chasing birds from crops, checking crops and fallow land.

Source: Federal Aviation Agency; *FAA Statistical Handbook of Aviation*, and *Aircraft in Agriculture, 1959*, and records.

No. 869. Balance Sheet of Agriculture: 1940 to 1962

[In billions of dollars. As of January 1. Excludes Alaska and Hawaii]

ITEM	1940	1945	1950	1955	1958	1959	1960 [1]	1961 [1]	1962 [1] (prel.)
Assets	53.0	93.1	130.8	164.7	186.4	202.3	204.8	206.1	211.3
Physical assets:									
Real estate	33.6	53.9	75.3	98.8	116.3	125.1	134.8	136.5	140.6
Non-real-estate:									
Livestock [2]	5.1	9.0	12.9	11.2	14.1	18.1	15.5	15.5	
Machinery and motor vehicles	3.1	6.3	11.3	16.2	17.4	17.7	18.6	18.1	
Crops stored on and off farms [3]	2.7	6.7	7.6	9.6	7.6	9.3	7.9	8.1	53.0
Household furnishings and equipment [4]	4.3	4.7	7.8	11.4	12.8	13.1	10.1	10.3	
Financial assets:									
Deposits and currency	3.2	7.9	9.1	9.4	9.5	10.0	9.1	8.7	
United States savings bonds	.2	3.4	4.7	5.0	5.1	5.2	4.7	4.6	17.7
Investments in cooperatives	.8	1.2	2.1	3.1	3.6	3.8	4.1	4.3	
Claims	53.0	93.1	130.8	164.7	186.4	202.3	204.8	206.1	211.3
Liabilities	10.0	8.3	12.5	17.8	20.2	23.3	24.1	25.4	27.2
Real estate debt	6.6	4.9	5.6	8.3	10.5	11.3	12.3	13.1	14.0
Non-real-estate debt to—									
Commodity Credit Corporation [5]	.4	.7	1.7	2.2	1.2	2.5	1.2	1.3	1.7
Other reporting institutions [6]	1.5	1.6	2.8	4.0	5.0	5.8	6.7	7.0	11.3
Nonreporting creditors [7]	1.5	1.1	2.4	3.3	3.5	3.7	3.9	4.0	
Proprietors' equities	43.0	84.8	118.3	146.9	166.2	179.0	180.7	180.7	184.1

[1] Tentative estimates based on revisions in process as a result of the 1959 Census of Agriculture.
[2] Beginning 1961, excludes horses and mules.
[3] Includes all crops held on farms for whatever purpose and crops held off farms as security for Commodity Credit Corporation loans. The latter totaled $648 million on Jan. 1, 1961.
[4] Estimated valuation for 1940, plus purchases minus depreciation since then.
[5] Includes loans held and loans guaranteed. Although these are nonrecourse loans, they are included as liabilities because borrowers must either repay in cash or deliver the commodities on which they were based. The values of the underlying commodities are included among the assets; hence, the loans must be included as liabilities to avoid overstating the amount of proprietors' equities.
[6] Loans of all operating banks, production credit associations, and Farmers Home Administration, and discounts of Federal intermediate credit banks for agricultural credit corporations and livestock loan companies.
[7] Loans and credits extended by dealers, merchants, finance companies, individuals, and others. Estimates based on fragmentary data.

Source: Department of Agriculture, Economic Research Service; *The Balance Sheet of Agriculture.*

No. 870. Farms Reporting and Amount of Income of Farm-Operator Families Received From Sources Other Than Farm Operated: 1960

[Excludes Alaska and Hawaii]

SOURCE OF INCOME	FARMS REPORTING		AMOUNT OF INCOME		
	Total ($1,000)	Percent of all farms	Total ($1,000)	Average per farm operator family (dollars)	Average per farm operator family reporting (dollars)
Total off-farm income	2,534	77.9	7,415,924	2,280	2,926
Cash wages, salaries	1,454	44.7	4,175,654	1,284	2,872
Nonfarm business or professional practice	317	9.7	1,131,464	348	3,569
Custom work	521	16.0	243,497	75	467
Roomers and boarders and contributions for family support from persons outside family	43	1.3	20,650	6	963
Rental of farm property to others	386	11.8	397,948	122	1,031
Rental of nonfarm property	133	4.1	134,551	41	1,012
Interest, dividends, and regular payments from trust funds	459	14.1	314,176	97	684
Federal Social Security, pensions, retirement pay, veteran payments, and annuities	546	16.8	595,440	183	1,090
Unemployment income, workmen's compensation, and old age assistance	109	3.3	61,519	19	564
Other (oil leases, soil bank payments, etc.)	365	11.2	341,025	105	934

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. V.

No. 871. Farm Income and Expenses: 1940 to 1961

[In millions of dollars. Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 81 and K 122–128]

ITEM	1940	1950	1955	1957	1958	1959	1960	1961
Realized gross income	11,038	32,482	33,332	34,380	37,907	37,514	38,069	39,555
Cash receipts	9,105	28,795	29,785	30,840	34,494	34,133	34,707	36,239
Crops	3,469	12,410	13,676	12,461	14,182	14,573	15,076	15,510
Livestock and livestock products	4,913	16,102	15,880	17,363	19,223	18,879	18,938	19,245
Government payments	723	283	229	1,016	1,089	682	693	1,434
Value of home consumption	1,210	2,223	1,806	1,762	1,552	1,410	1,342	1,289
Rental value of dwellings	723	1,464	1,741	1,787	1,861	1,971	2,020	2,027
Total expenses of agricultural production	6,749	19,297	21,862	23,371	25,272	26,288	26,369	26,890
Current farm operating expense (excluding hired labor)	3,732	11,467	12,793	13,908	15,398	16,164	16,071	16,391
Feed purchased	998	3,283	3,840	4,083	4,592	4,808	4,848	4,988
Livestock purchased	517	2,004	1,530	1,957	2,711	2,723	2,508	2,550
Seed purchased [1]	197	531	577	529	526	506	538	512
Fertilizer and lime	306	978	1,256	1,280	1,338	1,460	1,463	1,506
Repairs and operation of capital items [2]	1,006	2,921	3,423	3,773	3,795	4,002	3,986	4,029
Miscellaneous [3]	708	1,750	2,167	2,286	2,436	2,665	2,728	2,806
Depreciation and other consumption of farm capital	796	2,736	3,722	3,885	3,948	4,135	4,144	4,085
Taxes on farms	451	919	1,149	1,277	1,343	1,436	1,553	1,638
Interest on farm mortgage debt	293	264	405	487	527	580	636	680
Wages paid hired farm labor [4]	1,029	2,678	2,736	2,785	2,895	2,962	2,935	3,016
Net rent to nonfarm landlords	448	1,233	1,057	1,029	1,161	1,011	1,030	1,080
Realized net income of farm operators from farming	4,289	13,185	11,470	11,018	12,635	11,226	11,700	12,665
Adjustment for inventory changes	+281	+815	+297	+762	+913	+92	+258	+296
Total net income of farm operators from farming	4,570	14,000	11,767	11,780	13,548	11,318	11,958	12,961
Farm wages to laborers living on farms	729	1,696	1,738	1,776	1,813	1,829	1,779	1,798
Net income to persons on farms from farming	5,299	15,696	13,505	13,556	15,361	13,147	13,737	14,759

[1] Includes bulbs, plants, and trees.
[2] Includes expenditures for repairs and maintenance of farm buildings; petroleum fuel and oil; other motor-vehicle operation, and repairs on other machinery.
[3] Includes short-term interest, pesticides, ginning, electricity and telephones (business share), livestock marketing charges (excluding feed and transportation), containers, irrigation, grazing, veterinary services and medicines, net insurance premiums (crop, fire, wind and hail), and miscellaneous dairy, nursery, greenhouse, apiary, and other supplies.
[4] Includes cash wages, perquisites, and Social Security taxes paid by employers.

Source: Department of Agriculture, Economic Research Service, *The Farm Income Situation;* and Statistical Reporting Service, annual report, *Agricultural Statistics.*

No. 872. Farm Income—Cash Receipts From Farm Marketings of Crops and Livestock and Products: 1940 to 1961

[In millions of dollars. Excludes Alaska and Hawaii]

ITEM	1940	1945	1950	1955	1958	1959	1960	1961
Farm marketings	8,382	21,663	28,512	29,556	33,405	33,452	34,012	35,243
All crops	3,469	9,655	12,410	13,676	14,182	14,573	15,103	15,828
Cotton (lint and seed)	638	1,208	2,434	2,568	2,143	2,631	2,340	2,511
Tobacco	242	898	1,061	1,225	1,020	1,060	1,154	1,321
Food grains	479	1,563	1,941	1,991	2,387	2,225	2,460	2,468
Oilbearing crops	126	615	936	1,130	1,333	1,279	1,364	1,786
Feed crops	600	1,509	2,143	2,542	2,877	2,747	3,025	2,937
Vegetables	559	1,611	1,347	1,558	1,597	1,651	1,845	1,744
Fruits and tree nuts	446	1,498	1,311	1,408	1,474	1,603	1,576	1,689
Sugar crops	79	151	205	200	269	251	251	264
Other [1]	300	602	1,032	1,054	1,082	1,126	1,088	1,108
All livestock and products	4,913	12,008	16,102	15,880	19,223	18,879	18,909	19,415
Hogs	836	2,263	3,214	2,709	3,367	2,784	2,869	3,141
Cattle and calves	1,375	3,318	5,080	5,174	7,321	7,834	7,388	7,573
Sheep and lambs	180	319	387	316	359	334	327	301
Wool	106	126	130	89	72	130	108	108
Dairy products	1,521	3,021	3,719	4,222	4,556	4,604	4,740	4,911
Poultry and eggs	828	2,817	2,839	3,196	3,353	2,985	3,282	3,183
Other [2]	67	144	133	174	195	208	195	198

[1] Greenhouse and nursery products, forest products, legume and grass seeds, hops, mint, broomcorn, popcorn, hemp fiber and seed, and flax fiber.
[2] Horses, mules, mohair, honey, beeswax, bees, goats, rabbits, and fur animals.

Source: Department of Agriculture, Economic Research Service; *The Farm Income Situation.*

No. 873. Farm Income—Cash Receipts, 1960 and 1961, From Farm Marketing and Government Payments, 1961, and Principal Commodities in Order of Cash Receipts, 1960, by States

[In millions of dollars. Cattle includes calves, and sheep includes lambs]

STATE	1960	1961				Principal commodities in order of cash receipts, 1960
		Total	Farm marketings		Gov't payments	
			Crops	Livestock and products		
United States [1]	**34,706.8**	**36,238.8**	**15,510.0**	**19,244.4**	**1,484.4**	**Cattle, dairy prod., hogs, cotton lint.**
New England	**737.0**	**689.0**	**200.1**	**482.3**	**6.6**	
Maine	211.7	176.6	57.3	116.7	2.6	Potatoes, dairy prod., broilers, eggs.
New Hampshire	56.8	55.9	9.7	45.5	.8	Dairy prod., eggs, broilers, apples.
Vermont	125.0	121.1	10.8	108.4	1.9	Dairy prod., cattle, eggs, hay.
Massachusetts	163.9	158.6	57.7	100.2	.6	Dairy prod., eggs, broilers, tobacco.
Rhode Island	21.2	22.8	6.8	15.9	.1	Dairy prod., eggs, potatoes, cattle.
Connecticut	158.5	154.0	57.8	95.6	.6	Dairy prod., eggs, tobacco, broilers.
Middle Atlantic	**1,985.3**	**2,003.8**	**590.8**	**1,370.9**	**42.1**	
New York	867.4	890.2	249.5	620.9	19.8	Dairy prod., cattle, eggs, potatoes.
New Jersey	306.7	307.7	139.5	164.7	3.5	Eggs, dairy prod., tomatoes, cattle.
Pennsylvania	811.3	805.9	201.8	585.3	18.8	Dairy prod., eggs, cattle, broilers.
East North Central	**6,027.3**	**6,564.3**	**2,317.4**	**3,933.0**	**313.9**	
Ohio	1,023.0	1,083.2	404.6	618.1	60.4	Dairy prod., hogs, cattle, corn.
Indiana	1,146.6	1,249.6	469.6	709.8	70.2	Hogs, cattle, soybeans, corn.
Illinois	1,984.9	2,247.0	962.1	1,178.9	106.1	Cattle, hogs, corn, soybeans.
Michigan	746.9	791.3	350.0	404.1	37.2	Dairy prod., cattle, wheat, corn.
Wisconsin	1,125.8	1,193.2	131.1	1,022.1	40.0	Dairy prod., cattle, hogs, eggs.
West North Central	**8,723.9**	**9,269.2**	**2,887.3**	**5,817.1**	**564.8**	
Minnesota	1,454.6	1,564.9	415.1	1,071.1	78.7	Cattle, dairy prod., hogs, soybeans.
Iowa	2,501.4	2,685.3	560.0	1,995.7	129.6	Cattle, hogs, corn, soybeans.
Missouri	1,130.3	1,243.3	407.1	740.1	96.1	Cattle, hogs, soybeans, dairy prod.
North Dakota	555.5	473.4	258.9	170.2	44.3	Wheat, cattle, barley, flaxseed.
South Dakota	629.7	664.8	160.5	460.1	44.2	Cattle, hogs, wheat, corn.
Nebraska	1,205.1	1,276.0	421.9	765.5	88.6	Cattle, corn, hogs, wheat.
Kansas	1,247.3	1,361.6	663.9	614.4	83.3	Wheat, cattle, sorghum grain, hogs.
South Atlantic	**4,025.5**	**4,237.8**	**2,474.4**	**1,653.4**	**110.0**	
Delaware	116.4	109.5	37.1	70.1	2.2	Broilers, dairy prod., soybeans, corn.
Maryland	281.0	281.2	96.6	178.7	5.9	Dairy prod., broilers, cattle, tobacco.
Virginia	477.0	507.7	242.3	252.8	12.7	Tobacco, dairy prod., cattle, eggs.
West Virginia	110.7	107.2	23.2	80.5	3.5	Cattle, dairy prod., broilers, eggs.
North Carolina	1,098.3	1,151.5	800.6	318.9	32.0	Tobacco, broilers, dairy prod., eggs.
South Carolina	381.0	404.2	272.8	113.6	17.8	Tobacco, cotton lint, eggs, dairy prod.
Georgia	793.1	811.7	369.3	415.5	26.9	Broilers, tobacco, cotton lint, eggs.
Florida	767.9	864.9	632.6	223.3	9.0	Oranges, dairy prod., cattle, tomatoes.
East South Central	**2,259.0**	**2,363.7**	**1,132.3**	**1,137.6**	**93.8**	
Kentucky	575.6	623.7	287.1	304.9	31.7	Tobacco, cattle, dairy prod., hogs.
Tennessee	525.7	531.5	244.0	261.7	25.7	Cotton lint, cattle, dairy prod., tobacco.
Alabama	545.6	533.9	212.5	301.8	19.5	Cotton lint, cattle, broilers, eggs.
Mississippi	612.0	674.7	388.7	269.2	16.9	Cotton lint, cattle, broilers, soybeans.
West South Central	**4,146.9**	**4,351.7**	**2,392.8**	**1,756.1**	**202.8**	
Arkansas	692.4	755.9	488.5	251.8	15.7	Cotton lint, soybeans, broilers, cattle.
Louisiana	386.3	416.4	252.2	147.7	16.5	Cotton lint, cattle, rice, sugarcane for sugar.
Oklahoma	718.7	719.2	334.2	348.2	36.7	Cattle, wheat, cotton lint, dairy prod.
Texas	2,349.5	2,460.3	1,317.9	1,008.4	133.9	Cattle, cotton lint, sorghum grain, wheat.
Mountain	**2,607.0**	**2,613.8**	**1,065.8**	**1,448.0**	**100.0**	
Montana	421.2	391.7	149.5	225.1	17.0	Cattle, wheat, barley, sheep.
Idaho	445.4	441.8	229.0	198.7	14.1	Cattle, potatoes, wheat, dairy prod.
Wyoming	174.8	177.2	31.8	135.3	10.2	Cattle, sheep, wool, wheat.
Colorado	663.5	666.8	233.5	402.9	30.3	Cattle, wheat, dairy prod., sugar beets.
New Mexico	247.2	267.1	101.8	151.1	14.1	Cattle, cotton lint, wheat, dairy prod.
Arizona	437.7	456.7	282.8	168.6	5.3	Cotton lint, cattle, lettuce, dairy prod.
Utah	165.2	164.2	30.7	125.5	8.0	Cattle, dairy prod., turkeys, sheep.
Nevada	51.9	48.3	6.6	40.8	.9	Cattle, dairy prod., hay, sheep.
Pacific	**4,194.9**	**4,145.5**	**2,449.1**	**1,645.9**	**50.4**	
Washington	583.9	561.1	336.7	212.2	12.1	Wheat, dairy prod., cattle, apples.
Oregon	424.2	403.3	208.0	185.0	10.4	Cattle, dairy prod., wheat, eggs.
California	3,186.8	3,181.1	1,904.4	1,248.8	27.9	Cattle, dairy prod., cotton lint, eggs.

[1] Excludes Alaska and Hawaii.

Source: Department of Agriculture, Economic Research Service; *The Farm Income Situation.*

No. 874. Prices Received and Paid by Farmers—Indexes, by Major Groups of Products: 1940 to 1961

[1910–14=100. Excludes Alaska and Hawaii. Indexes cover 55 major farm products. See also *Historical Statistics, Colonial Times to 1957*, series K 129–138]

ITEM	1940	1950	1955	1957	1958	1959	1960	1961
Prices received by farmers:								
All farm products [1]	100	258	232	235	250	240	238	240
Crops [1]	90	233	231	225	223	221	221	226
Food grains	84	224	228	225	208	202	203	209
Feed grains and hay	85	193	183	166	154	156	151	151
Tobacco	134	402	437	466	482	506	500	524
Cotton	83	282	272	263	253	267	254	259
Fruits	81	194	202	203	248	212	236	245
Commercial vegetables	122	211	223	227	238	235	227	221
Oil-bearing crops	103	276	249	244	225	219	214	257
Livestock [1]	109	280	234	244	273	256	253	251
Meat animals	108	340	246	275	335	313	296	299
Dairy products	120	249	247	259	254	257	259	259
Poultry and eggs	98	186	191	162	170	143	160	146
Prices paid by farmers:								
All commodities [2]	124	256	276	286	293	297	299	301
Living and production	122	246	259	267	273	275	275	279
Living [3]	121	246	270	282	287	288	290	291
Production [4]	123	246	251	257	264	266	265	266
Interest payable per acre	102	89	136	163	176	194	213	228
Taxes payable per acre	189	320	394	440	470	496	534	578
Wage rates for hired farm labor [5]	129	425	516	558	574	612	631	641
Parity ratio [6]	81	101	84	82	85	81	80	80

[1] Includes products not shown separately. [2] Prices paid, including interest, taxes, and wage rates.
[3] All commodities bought for use in family maintenance. [4] All commodities bought for use in production.
[5] Simple average of quarterly indexes seasonally adjusted.
[6] Ratio of prices received to prices paid, including interest, taxes, and wage rates.

Source: Department of Agriculture, Statistical Reporting Service; annual report, *Agricultural Statistics*.

No. 875. Farm Marketings, by Price Support Status: 1950 to 1961

[In millions of dollars. Excludes Alaska and Hawaii]

CROPS	TOTAL MARKET SALES				PERCENT OF TOTAL			
	1950	1955	1960	1961	1950	1955	1960	1961
Total	**28,512**	**29,556**	**34,014**	**35,243**	**100.0**	**100.0**	**100.0**	**100.0**
Under price support	12,205	13,564	15,216	16,100	42.8	45.9	44.7	45.7
Under mandatory support	10,426	11,520	12,813	13,247	36.6	39.0	37.7	37.6
Basic commodities	6,563	7,194	7,698	7,944	23.0	24.3	22.6	22.5
Cotton	2,143	2,324	2,140	2,227	7.5	7.9	6.3	6.3
Wheat	1,732	1,698	2,241	2,181	6.1	5.7	6.6	6.2
Corn	1,232	1,507	1,746	1,763	4.3	5.1	5.1	5.0
Tobacco	1,061	1,225	1,157	1,320	3.7	4.1	3.4	3.7
Rice	189	270	245	265	0.7	0.9	0.7	0.8
Peanuts	206	170	168	188	0.7	0.6	0.5	0.5
Nonbasic commodities	3,863	4,328	5,115	5,303	13.6	14.7	15.0	15.1
Dairy products	3,719	4,222	4,736	4,911	13.0	14.3	13.9	13.9
Wool	130	89	111	108	0.5	0.3	0.3	0.3
Mohair	10	14	22	24	(1)	(1)	0.1	0.1
Tung nuts	4	1	3	6	(1)	(1)	(1)	(1)
Sugar beets	----------	----------	193	194	----------	----------	0.6	0.6
Sugarcane	----------	----------	50	60	----------	----------	0.1	0.2
Under nonmandatory support	1,779	2,044	2,403	2,853	6.2	6.9	7.1	8.1
Soybeans	596	832	1,104	1,522	2.1	2.8	3.2	4.3
Cottonseed	290	244	225	284	1.0	0.8	0.7	0.8
Oats	229	246	206	186	0.8	0.8	0.7	0.5
Barley	194	238	252	263	0.7	0.8	0.7	0.8
Dry beans	113	124	138	137	0.4	0.4	0.4	0.4
Flaxseed	130	127	79	70	0.5	0.4	0.2	0.2
Sorghum grain	209	211	378	369	0.7	0.7	1.1	1.0
Rye	18	22	21	22	0.1	0.1	0.1	0.1
Not under price support	16,307	15,993	18,798	19,143	57.2	54.1	55.3	54.3

[1] Less than 0.05 percent.

Source: Department of Agriculture, Economic Research Service; *The Farm Income Situation*.

No. 876. Prices Received and Parity Prices for Selected Farm Products: 1962

[Excludes Alaska and Hawaii]

Commodity	Unit	Adjusted base price [1]	Average price, March 15	Effective parity price based on data for March [2]	Average price as percentage of parity price, March
Basic commodities:					
Cotton, American upland	Ct. per lb	12.86	29.35	39.22	75
Wheat	Dol. per bu	.798	1.90	2.43	78
Rice	Dol. per cwt	2.04	5.70	6.22	92
Corn	Del. per bu	.526	.968	1.60	60
Peanuts	Ct. per lb	[3] 4.41	11.4	13.5	84
Designated nonbasic commodities:					
Milkfat, in cream	do	25.0	60.2	76.2	79
All milk, wholesale	Dol. per cwt	1.72	[4] 4.14	5.25	[5] 80
Wool	Ct. per lb	[3] 24.1	[6] 42.7	73.5	58
Other nonbasic commodities:					
Barley	Dol. per bu	.413	1.03	1.26	82
Beans, dry edible	Dol. per cwt	3.05	6.39	9.30	69
Cottonseed	Dol. per ton	[3] 20.60	50.90	62.80	81
Flaxseed	Dol. per bu	1.26	3.21	3.84	84
Oats	do	.276	.652	.842	77
Rye	do	.474	.995	1.45	69
Sorghum grain	Dol. per cwt	.822	1.67	2.51	67
Soybeans	Dol. per bu	.968	2.34	2.95	79
Potatoes	Dol. per cwt	[3] .781	[4] 1.21	2.38	51
Sweetpotatoes	do	1.96	5.70	5.98	95
Grapefruit [7]	Dol. per box	[3] .347	[4] .62	1.06	58
Lemons [7]	do	[3] .721	[4] 1.07	2.20	49
Limes [7]	do	[3] 1.21	[4] 5.63	3.69	153
Oranges [7]	do	[3] .874	[4] 2.27	2.67	85
Tangerines [7]	do	[3] .737	[4] 1.24	2.25	55
Apples, for fresh use [8]	Dol. per bu	.964	[4] 2.53	2.94	86
Beef cattle	Dol. per cwt	7.73	21.20	23.60	90
Calves	do	8.58	25.30	26.20	97
All chickens, live	Ct. per lb	7.98	15.8	24.3	65
Eggs	Ct. per doz	15.5	[9] 33.0	47.3	[5] 70
Hogs	Dol. per cwt	7.09	16.00	21.60	74
Lambs	do	7.98	16.50	24.30	68
Turkeys, live	Ct. per lb	11.1	20.8	33.9	61

[1] Adjusted base price 1910-14 derived from 120-month, January 1952-December 1961, average by dividing by 247 percent, the 120-month average of the index of prices received by farmers, unless otherwise noted.
[2] These parity prices are the legally applicable parity prices for April 1962.
[3] Adjusted base price 1910–14 derived from 10-season average prices 1952–61.
[4] Monthly average. [5] Seasonally adjusted price as percentage of parity price.
[6] Average local market price excluding incentive payment.
[7] Equivalent on-tree returns for all methods of sale.
[8] Equivalent packing house—door returns for Pacific Coast States and prices as sold for other States.
[9] Average of all eggs sold by farmers including hatching eggs and eggs sold at retail by farmers.

Source: Department of Agriculture, Statistical Reporting Service; *Agricultural Prices*.

No. 877. Commodity Credit Corporation—Loans Made and Outstanding, Cost of Acquisitions, Value of Commodities Owned, Sales, and Storage Costs: 1950 to 1961

[**In millions of dollars.** As of June 30 or for years ending June 30. Beginning 1960, includes Alaska]

Year	Loans made	Loans outstanding (book value)	Cost of acquisitions [1]	Value of commodities owned [1]	Sales and donations [1]		Price support commodities storage and handling costs			
					Total	Exports	Total	Wheat	Corn	Other
1950	2,023	923	2,464	2,624	933	624	(2)	(2)	(2)	(2)
1951	771	354	721	1,433	2,115	862	117	51	31	36
1952	949	390	383	1,073	995	475	73	33	28	12
1953	2,129	1,163	1,598	2,339	520	211	120	81	20	20
1954	3,355	2,368	2,396	3,668	1,424	663	237	142	44	51
1955	2,377	2,137	2,854	4,972	2,115	1,313	333	185	54	95
1956	3,024	2,319	2,967	5,972	2,723	1,936	374	185	72	117
1957	2,445	1,994	2,800	5,371	4,208	3,040	364	162	117	85
1958	2,135	1,600	2,759	5,455	3,459	2,394	409	152	140	117
1959	3,543	2,480	2,558	6,200	2,010	1,328	482	205	134	143
1960	1,507	1,347	3,845	7,223	3,598	904	522	214	148	160
1961	1,814	1,523	2,873	[3] 5,563	4,058	1,290	460	176	149	135

[1] Price support commodities only. [2] Not available.
[3] Due to a change in accounting policy the value given should be adjusted upward by $1,268 million to make it comparable with previous years.

Source: Department of Agriculture, Agricultural Stabilization and Conservation Service.

No. 878. Commodity Credit Corporation—Total Loans Made, 1933 to 1961; and Loans Outstanding, Inventories, and Cost of Acquisitions, 1961

[Beginning 1960, includes Alaska. The Commodity Credit Corporation (CCC), established in 1933, is the financial organization through which farm price support is carried out by loans, purchases, and other operations. CCC now carries on 6 separate activities—price support, storage facilities, supply, foreign purchase, commodity export, and International Wheat Agreement programs]

Commodity	1933 to 1961				1961			
	Loans made,[1] cumulative			Realized program gains or losses[2] (—)	Loans outstanding[3] (book value)	Cost of acquisitions[4]	Inventories of commodities owned[3]	
	Quantity		Amount				Quantity, total[5]	Cost[6]
	Unit	Pledged						
		1,000	*$1,000*	*$1,000*	*$1,000*	*$1,000*	*1,000*	*$1,000*
Total			33,595,977	−9,605,173	1,522,765	2,872,747		5,563,332
Barley	Bu	736,348	680,876	−182,188	33,827	16,250	53,769	48,311
Beans, dry	Cwt	40,775	288,842	−79,507		11,936	1,206	7,922
Corn	Bu	5,406,965	6,257,472	−1,879,146	781,674	444,470	1,261,016	1,696,444
Cotton	Bale	76,152	9,275,811	−1,005,517	11,832	1,226,300	1,975	339,893
Eggs	Lb			−189,169				
Fiber flax	do			−397				
Flour and related grain products	do			−462,839		129,299		4
Fruit, dried	do	845,333	17,537	−14,882				
Grapefruit juice	do			−1,732				
Honey	do	28,723	2,971	−881	62			
Milk and milk products:								
Butter	do	127,166	32,156	−534,745		125,559	159,531	95,824
Butter oil	do			−121,190				
Cheese	do			−390,495		6,748	17,673	6,681
Milk, dried	do			−870,776		128,862	307,018	44,953
Milk, fluid	do			−130,211		25,294		
Whey	do	91,430	3,968	−3,584				
Naval stores:								
Rosin	do	2,108,482	89,460	1,503	917			
Turpentine	Gal	51,912	20,870		906	115		
Oats	Bu	446,899	287,924	−98,678	13,866	2,307	10,358	6,407
Oilseeds and products:								
Castor beans	Lb			−171				
Cotton linters	do							
Cottonseed	Ton	17	807					
Cottonseed meal	Lb			−117,420				
Cottonseed oil, crude	do							
Cottonseed oil, refined	do							
Flaxseed	Bu	82,895	264,359	−168,854	35	113	1	3
Linseed oil	Lb							
Peanuts	Ton	2,911	538,117	−202,017	44	28,671	43	12,875
Soybeans	Bu	494,130	1,028,430	−24,895	393	8,207	1	2
Hemp and hemp fiber	Lb			−21,459				
Hops	do	7,077	1,388	−954				
Olive oil	Gal	1,046	2,611	−578				
Peas, dry	Cwt	846	2,705	−824				
Potatoes, Irish	do	156,175	165,568	−478,583				
Potatoes, sweet	do	77	150	−135				
Rice	do	87,149	439,713	−184,833	40	40,846	4,293	20,635
Rye	Bu	61,847	60,189	−23,274	1,296	1,709	4,323	4,437
Seeds, miscellaneous	Lb	453,228	62,529	−38,717				
Sorghum, grain	Cwt	750,283	1,441,579	−533,834	19,580	156,182	392,311	759,997
Sugar	Lb			−16,493				
Tobacco	do	3,594,514	1,860,402	−6,815	387,850	25,618		
Tung oil	do	142,749	31,241	−4,984	384	3,354	4,828	1,012
Wheat	Bu	6,044,490	10,414,150	−1,364,186	222,084	490,907	1,242,518	2,484,114
Wool	Lb	322,641	150,438	−440,602				
Other			173,714	−11,111	47,375			33,818

[1] Comprises loans made directly by Commodity Credit Corporation and loans made by banks and other lending agencies under CCC. Obligations to purchase renewals and extensions of loans previously made are excluded.
[2] Price Support Program only. Net result of supply, foreign purchase, emergency feed, and commodity export programs amounted to a net loss of $830,189,789.
[3] As of June 30.
[4] For year ending June 30. Cost of acquisitions of agricultural commodities comprises purchases under price-support, and acquisitions in settlement of price-support loans.
[5] For unit of quantity, see first column.
[6] See footnote 2, table 877.

Source: Department of Agriculture, Statistical Reporting Service; annual report, *Agricultural Statistics* and records.

No. 879. Farm-to-Retail Price Spreads of Farm Food Products, by Commodity Groups: 1947 to 1961

[**In dollars, except for farmer's share of consumer's dollar.** Excludes Alaska and Hawaii. These estimates are based on prices of a market basket of farm food products containing quantities equivalent to 1952 annual average purchases per urban wage earner and clerical worker family. Quantities of foods valued do not change from year to year. See also *Historical Statistics, Colonial Times to 1957*, series T 352-355, for totals]

Commodity group and value	1947-1949, average	1950	1955	1957	1958	1959	1960	1961 (prel.)
All farm food products:								
Retail cost [1]	940	920	969	1,007	1,064	1,040	1,053	1,060
Farm value adjusted for byproducts [2]	466	432	395	401	430	398	407	404
Marketing margin [3]	474	488	574	606	634	642	646	656
Farmer's share of consumer's dollar [4] (percent)	50	47	41	40	40	38	39	38
Meat products:								
Retail cost [1]	256	264	241	259	292	281	276	278
Farm value adjusted for byproducts [2]	171	173	129	140	165	147	143	141
Marketing margin [3]	85	91	112	119	127	134	133	137
Farmer's share of consumer's dollar [4] (percent)	67	65	54	54	57	52	52	51
Dairy products:								
Retail cost [1]	169	164	181	191	194	195	200	202
Farm value adjusted for byproducts [2]	92	83	84	88	88	88	89	89
Marketing margin [3]	77	81	97	103	106	107	111	113
Farmer's share of consumer's dollar [4] (percent)	54	50	46	46	45	45	45	44
Poultry and eggs:								
Retail cost [1]	117	105	104	94	96	86	90	87
Farm value adjusted for byproducts [2]	81	69	68	57	60	50	56	52
Marketing margin [3]	36	37	36	37	36	36	34	35
Farmer's share of consumer's dollar [4] (percent)	69	65	66	61	63	58	62	60
Bakery and other cereal products:								
Retail cost [1]	122	127	149	157	160	161	165	168
Farm value adjusted for byproducts [2]	35	31	32	32	30	28	28	30
Marketing margin [3]	87	96	117	125	130	133	136	138
Farmer's share of consumer's dollar [4] (percent)	28	24	21	21	19	17	17	18
Fruits and vegetables:								
Retail cost [1]	185	180	210	219	234	231	237	238
Farm value adjusted for byproducts [2]	61	56	62	62	67	68	71	71
Marketing margin [3]	124	124	148	156	167	163	166	167
Farmer's share of consumer's dollar [4] (percent)	33	31	29	28	29	29	30	30
Fats and oils:								
Retail cost [1]	52	42	43	45	45	43	41	43
Farm value adjusted for byproducts [2]	20	15	13	14	12	11	11	14
Marketing margin [3]	32	27	30	31	33	32	30	30
Farmer's share of consumer's dollar [4] (percent)	38	35	31	32	27	25	27	31
Miscellaneous:								
Retail cost [1]	39	38	41	42	43	44	44	45
Farm value adjusted for byproducts [2]	6	7	7	7	7	7	7	7
Marketing margin [3]	33	31	34	35	36	36	37	38
Farmer's share of consumer's dollar [4] (percent)	15	17	17	17	17	17	17	16

[1] Calculated from retail prices collected by the Bureau of Labor Statistics.
[2] Calculated from official series showing prices received by farmers applied to quantities of farm products equivalent to retail purchases.
[3] Equals difference between retail cost and farm value.
[4] Obtained by expressing the farm value as a percentage of retail cost (based on unrounded figures).

Source: Department of Agriculture, Statistical Reporting Service; annual report, *Agricultural Statistics*.

No. 880. Farm-Operator Level-of-Living Index, by Geographic Divisions: 1950 and 1959

[**U.S. average, 1959=100.** Excludes Alaska and Hawaii. Based on percent of farms with telephones, home freezers, and automobiles; and average value of land and buildings per farm, and average value of sales per farm. These indexes are not comparable with any previously published]

Year	United States	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
1950	59	73	76	77	76	38	30	47	71	84
1959	100	108	114	115	114	81	68	91	122	132

Source: Department of Agriculture, Economic Research Service.

No. 881. Level-of-Living Indicators for Farm-Operator Families, by Geographic Region and Division: 1959

[For composition of regions and divisions, see fig. I, p. XII]

Region and division	Percent of farms reporting as having—					Average value of land and buildings per farm ($1,000)
	Telephone	Home freezer	Automobile	Farm sales of $10,000 or more	Other income greater than value of farm sales	
United States [1]	65	56	80	21	36	34.8
Region and division:						
North	81	63	90	28	28	36.0
Northeast	87	64	87	29	40	24.7
New England	88	56	84	32	42	24.9
Middle Atlantic	86	66	87	28	39	24.7
North Central	80	63	91	28	26	38.0
East North Central	81	67	91	25	34	37.1
West North Central	78	60	90	30	20	38.7
South	45	46	67	12	43	23.7
South Atlantic	45	48	70	11	43	21.7
East South Central	40	41	61	6	42	14.0
West South Central	52	51	71	19	44	37.3
West [1]	81	63	88	35	39	82.4
Mountain	73	66	86	37	30	73.0
Pacific	87	61	88	34	46	89.6

[1] Excludes Alaska and Hawaii.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 882. Specified Farm Expenditures: 1939 to 1959

[Beginning 1959, includes Alaska and Hawaii. All 1949, 1954, and 1959 figures based on reports for a sample of farms]

Item		Farms reporting		Amount expended		
		Number	Percent of all farms	Total	Average per farm (based on all farms)	Average per farm reporting
		1,000		*Mil. dol.*	*Dollars*	*Dollars*
All farms	1959	3,708	100.0			
Specified farm expenditures	1959	3,671	99.0	14,085	3,798	3,836
Machine hire and/or hired labor	1949	3,548	66.0	3,030	563	854
	1954	3,286	68.7	2,917	610	888
	1959	(1)	(1)	3,426	924	(1)
Machine hire	1949	2,758	51.3	612	114	222
	1954	2,545	53.2	638	133	251
	1959	1,991	53.7	895	217	404
Hired labor [2]	1939	2,260	37.1	782	128	346
	1944	2,799	47.8	1,865	318	666
	1949	2,670	49.6	2,418	450	906
	1954	2,221	46.4	2,279	477	1,026
	1959	1,785	48.1	2,622	707	1,469
Feed for livestock and poultry	1939	3,343	54.8	736	120	219
	1944	4,272	72.9	2,427	414	568
	1949	3,876	72.0	3,024	562	780
	1954	3,653	76.4	3,906	817	1,069
	1959	2,843	76.7	4,755	1,282	1,673
Gasoline and other petroleum fuel and oil for the farm business	1939	2,887	47.3	323	53	112
	1949	2,983	55.5	1,134	211	380
	1954	3,268	68.3	1,366	286	418
	1959	3,464	93.4	1,554	419	449

[1] Not available.
[2] Cash payments for farm labor, housework specifically excluded; excludes expenditures for contract construction work, machine hire, or labor included in cost of machine hire.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 883. Farm Labor—Farms Reporting, Persons Working on Farms During Week Preceding Enumeration, and Wages Paid: 1959

[Based on reports for a sample of farms. Relates to farm operators working 1 hour or more, hired workers doing farm work, and unpaid family members working 15 hours or more during week (September 26–October 2 or October 24–30). Excludes housework and contract construction work. For composition of regions, see fig. I, p. XII]

STATE	Family and/or hired workers, persons working	FAMILY WORKERS, INCLUDING OPERATOR		HIRED WORKERS		CASH WAGES PAID FOR HIRED LABOR IN 1959	
		Farms reporting	Persons working	Farms reporting	Persons working	Farms reporting	Amount ($1,000)
United States	**6,332,478**	**3,125,131**	**4,748,325**	**547,611**	**1,584,153**	**1,784,826**	**2,621,651**
The North	2,855,098	1,536,236	2,422,007	233,540	433,091	801,862	817,949
The South	2,751,609	1,299,699	1,892,157	239,706	859,452	789,257	916,407
The West	725,771	289,196	434,161	74,365	291,610	193,707	887,295
New England	**113,768**	**49,685**	**72,483**	**14,742**	**41,285**	**28,723**	**91,853**
Maine	29,457	14,760	20,440	3,318	9,017	8,484	21,735
New Hampshire	11,750	5,662	8,075	1,518	3,675	2,753	6,573
Vermont	22,269	11,022	16,539	3,535	5,730	6,763	10,812
Massachusetts	25,834	9,745	14,481	3,261	11,353	5,645	26,887
Rhode Island	3,628	1,281	1,860	509	1,768	801	3,142
Connecticut	20,830	7,215	11,088	2,601	9,742	4,277	22,703
Middle Atlantic	**376,192**	**175,763**	**277,973**	**43,720**	**98,219**	**95,242**	**207,183**
New York	157,863	72,896	111,184	20,544	46,679	41,931	93,453
New Jersey	35,334	13,091	20,539	5,447	14,795	9,629	42,604
Pennsylvania	182,995	89,776	146,250	17,729	36,745	43,682	71,126
East North Central	**1,065,246**	**591,274**	**918,646**	**84,552**	**146,600**	**298,854**	**264,984**
Ohio	215,325	123,301	185,995	15,563	29,330	59,594	57,914
Indiana	184,019	112,390	163,198	13,094	20,821	54,133	39,035
Illinois	234,559	139,458	197,959	23,904	36,600	77,092	71,712
Michigan	175,378	93,257	143,499	13,449	31,879	48,398	51,120
Wisconsin	255,965	122,868	227,995	18,542	27,970	59,637	45,203
West North Central	**1,299,892**	**719,514**	**1,152,905**	**90,526**	**146,987**	**379,043**	**253,929**
Minnesota	263,940	136,048	235,217	17,849	28,723	65,013	42,435
Iowa	293,449	164,618	260,126	23,901	33,323	92,975	59,060
Missouri	250,252	149,389	218,726	14,667	31,526	69,232	45,346
North Dakota	89,192	46,055	77,706	6,445	11,486	27,596	22,673
South Dakota	93,700	50,993	84,831	6,409	8,869	26,598	17,048
Nebraska	154,554	82,510	137,482	10,903	17,072	44,175	33,871
Kansas	154,805	89,901	138,817	10,352	15,988	53,454	33,496
South Atlantic	**994,704**	**466,012**	**687,673**	**95,157**	**307,031**	**307,677**	**375,152**
Delaware	9,222	4,372	6,589	1,076	2,633	2,617	6,028
Maryland	45,669	21,322	31,848	6,570	13,821	13,794	26,921
Virginia	161,648	82,194	120,087	15,978	41,561	45,554	50,575
West Virginia	59,120	37,516	51,532	3,520	7,588	13,504	10,361
North Carolina	307,811	150,960	232,016	25,971	75,795	112,344	74,676
South Carolina	136,349	58,158	87,682	13,189	48,667	41,403	36,425
Georgia	175,854	80,509	115,710	18,674	60,144	54,681	57,248
Florida	99,031	30,981	42,209	10,179	56,822	23,780	112,918
East South Central	**881,741**	**435,492**	**641,036**	**66,032**	**240,705**	**247,744**	**164,158**
Kentucky	211,941	121,726	170,853	18,826	41,088	74,506	34,672
Tennessee	241,229	126,636	184,084	17,994	57,145	72,576	36,868
Alabama	167,453	83,647	121,639	13,772	45,814	49,784	36,570
Mississippi	261,118	103,483	164,460	15,440	96,658	50,878	56,048
West South Central	**875,164**	**398,195**	**563,448**	**78,517**	**311,716**	**233,836**	**377,097**
Arkansas	192,064	76,341	111,369	12,284	80,695	39,775	75,808
Louisiana	126,819	56,420	81,201	9,206	45,618	27,122	40,039
Oklahoma	145,057	81,803	117,060	9,449	27,997	43,010	33,949
Texas	411,224	183,631	253,818	47,578	157,406	123,929	227,301
Mountain	**292,837**	**126,665**	**197,705**	**30,526**	**95,132**	**83,595**	**217,083**
Montana	49,580	24,268	38,056	5,668	11,524	16,143	28,250
Idaho	59,378	29,759	47,102	4,943	12,276	19,023	33,714
Wyoming	20,654	8,587	14,353	2,416	6,301	5,352	14,924
Colorado	62,707	28,586	45,584	7,487	17,123	19,650	41,294
New Mexico	35,433	11,989	17,743	3,807	17,690	7,853	25,015
Arizona	30,495	5,876	8,374	2,791	22,121	4,700	53,209
Utah	28,894	15,511	23,268	2,658	5,626	9,514	13,505
Nevada	5,696	2,089	3,225	756	2,471	1,360	7,172
Pacific	**432,934**	**162,531**	**236,456**	**43,839**	**196,478**	**110,112**	**670,212**
Washington	82,383	43,643	64,023	7,395	18,360	26,237	67,344
Oregon	68,219	35,322	51,887	5,819	16,332	19,500	49,522
California	255,828	78,028	110,613	29,556	145,215	62,284	498,743
Alaska	608	282	470	63	138	165	487
Hawaii	25,896	5,256	9,463	1,006	16,433	1,926	54,116

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 884. Farm Facilities—Telephone, Motor Vehicles, and Tractors, 1920 to 1959, and by States, 1959

[In thousands. Beginning 1950, based on reports for a sample of farms. For composition of regions, see fig. I, p. XII]

Year and state	Telephone		Motor trucks on farms		Automobiles on farms		Tractors on farms	
	Farms reporting	Percent of all farms	Farms reporting	Number	Farms reporting	Number	Farms reporting	Number
1920 [1]	2,498	38.7	132	139	1,980	2,146	229	246
1930 [1]	2,139	34.0	845	900	3,650	4,135	851	920
1940 [1]	1,527	25.0	944	1,047	3,542	4,144	1,410	1,567
1950 [1]	2,058	38.2	1,840	2,207	3,390	4,199	2,525	3,699
1954 [1]	2,332	48.8	2,213	2,703	3,392	4,263	2,876	4,692
1959								
U.S.	2,411	65.0	2,177	2,834	2,957	3,635	2,680	5,139
The North	1,385	80.8	1,055	1,314	1,545	1,934	1,504	3,124
The South	746	45.3	856	1,046	1,108	1,288	904	1,425
The West	280	80.5	266	474	304	413	272	591
New England	50	87.5	38	59	48	61	42	78
Maine	14	82.2	12	17	14	17	12	20
New Hampshire	6	85.4	5	7	5	7	5	8
Vermont	10	83.5	8	10	10	13	10	18
Massachusetts	10	94.1	7	12	9	12	8	15
Rhode Island	1	92.7	1	2	1	2	1	2
Connecticut	8	96.7	6	11	7	10	6	14
Middle Atlantic	171	86.4	117	159	173	225	171	354
New York	74	90.1	47	66	73	93	73	156
New Jersey	14	93.6	12	21	13	19	12	30
Pennsylvania	82	82.3	58	71	86	113	86	168
East North Central	542	81.3	390	450	606	759	592	1,237
Ohio	114	81.1	70	82	125	162	120	243
Indiana	107	83.1	76	88	114	140	110	225
Illinois	128	82.9	100	114	142	173	138	321
Michigan	89	80.1	64	76	102	131	102	194
Wisconsin	104	79.1	81	91	123	153	122	254
West North Central	622	78.4	510	646	718	889	699	1,455
Minnesota	114	78.4	87	103	136	171	134	287
Iowa	160	91.7	92	100	166	205	159	343
Missouri	112	66.3	96	110	134	151	128	218
North Dakota	36	65.8	48	75	51	67	52	125
South Dakota	40	72.1	39	52	52	66	51	118
Nebraska	73	80.4	64	83	85	110	82	180
Kansas	87	83.9	83	122	95	119	92	184
South Atlantic	266	44.9	286	349	417	493	331	512
Delaware	5	87.9	4	5	5	6	4	9
Maryland	20	80.1	16	21	22	28	21	43
Virginia	49	50.4	48	58	65	78	56	92
West Virginia	22	50.2	21	25	27	31	22	32
North Carolina	67	35.4	81	91	134	154	107	151
South Carolina	28	35.3	33	39	56	66	35	51
Georgia	47	44.5	61	73	76	88	63	93
Florida	28	61.2	24	36	33	42	23	40
East South Central	225	40.1	252	287	343	389	265	381
Kentucky	68	45.2	66	75	102	117	81	113
Tennessee	81	51.1	69	77	101	114	79	110
Alabama	40	34.4	55	63	67	76	54	71
Mississippi	37	26.7	61	71	73	82	53	87
West South Central	255	51.9	318	411	348	406	308	531
Arkansas	31	32.4	59	73	52	58	50	89
Louisiana	39	52.3	39	47	48	55	34	56
Oklahoma	58	61.3	70	93	72	83	67	109
Texas	127	56.0	150	198	177	211	157	278
Mountain	108	72.8	124	225	128	171	122	276
Montana	19	66.5	26	53	26	35	26	65
Idaho	27	81.6	27	44	30	38	29	62
Wyoming	6	66.4	9	16	8	11	8	22
Colorado	26	78.4	29	52	30	40	28	66
New Mexico	7	42.9	12	20	11	14	9	18
Arizona	5	69.7	6	17	6	10	5	14
Utah	16	87.2	14	19	16	20	14	24
Nevada	2	73.1	2	5	2	3	2	5
Pacific	172	86.2	142	248	176	242	150	315
Washington	44	85.5	37	60	46	61	43	78
Oregon	36	84.4	30	49	37	47	35	71
California	88	88.4	71	131	87	127	71	161
Alaska	(2)	52.6	(2)	1	(2)	(2)	(2)	1
Hawaii	4	70.2	3	8	4	6	2	4

[1] Excludes Alaska and Hawaii. [2] Less than 500.

Source: Department of Commerce, Bureau of the Census; *U.S. Census of Agriculture: 1959*, Vol. II.

No. 885. Farm Machinery and Equipment: 1940 to 1961

[Excludes Alaska and Hawaii. See also *Historical Statistics, Colonial Times to 1957*, series K 150–158]

ITEM	1940	1950	1955	1957	1958	1959	1960	1961 (prel.)
Value of farm implements and machinery [1] mil. dol.	3,060	11,314	16,164	17,077	17,039	18,457	18,574	18,094
Number on farms, Jan. 1:								
Tractors [2] 1,000	1,567	3,394	4,345	4,600	4,685	4,750	4,770	4,780
Motor trucks do	1,047	2,207	2,701	2,900	2,985	3,060	3,110	(3)
Automobiles do	4,144	4,199	4,258	4,260	4,260	4,260	4,260	(3)
Grain combines do	190	714	980	1,020	1,040	1,060	1,065	1,070
Corn pickers do	110	456	688	725	745	760	780	805
Pickup balers do	-------	196	448	550	580	620	650	710
Field forage harvesters do	-------	81	202	240	253	270	285	305
Farms with milking machines do	175	636	712	720	725	728	730	(3)
Farmers' expenditures:								
Motor vehicles [4] mil. dol.	384	1,735	1,492	1,402	1,620	1,655	1,361	1,468
Machinery and equipment do	241	1,279	1,099	976	1,328	1,348	1,178	1,151

[1] Date represent inventory valuations at beginning of year. Includes family share of automobiles.
[2] Excludes garden tractors. [3] Not available. [4] Excludes family share of automobiles.

Source: Department of Agriculture, Economic Research Service.

No. 886. Farm Taxes and Insurance: 1940 to 1960

[Excludes Alaska and Hawaii, except as noted. See also *Historical Statistics, Colonial Times to 1957*, series K 116–121]

ITEM	1940	1950	1955	1957	1958	1959	1960 (prel.)
Taxes levied on farm real estate mil. dol.	401	741	928	1,044	1,103	1,187	[1] 1,287
Amount per acre dol.	0.39	0.69	0.87	0.97	1.03	1.11	[1] 1.20
Amount per $100 of value do	1.18	0.86	0.92	0.91	0.89	0.93	0.99
Taxes levied on farm personal property mil. dol.	50	178	220	233	240	249	2.69
State automotive taxes paid by farmers:							
Motor vehicle licenses and permits do	68	120	157	167	171	172	173
Motor fuel taxes [2] do	79	139	192	198	199	232	243
FARMERS' MUTUAL FIRE INSURANCE [3]							
Number of companies [4]	1,898	1,777	1,651	1,634	1,635	1,608	-------
Insurance in force at end of year mil. dol.	12,294	24,161	28,223	29,164	30,733	32,516	34,141
Cost per $100 of insurance cents	25.2	23.0	23.4	22.6	23.8	25.8	24.7
Losses do	17.1	14.6	15.9	14.7	15.5	17.3	17.3
Expenses do	8.1	8.4	7.5	7.9	8.3	8.5	7.4
Surplus and reserves, end of year [5] mil. dol.	45	122	161	175	191	201	191

[1] Includes Alaska and Hawaii. [2] Beginning 1950, includes taxes on gasoline used in farm tractors.
[3] Includes companies with more than 50 percent of their insurance on farm property. About 85 percent of their total insurance is on farm property.
[4] Number of companies for which data were obtained; perhaps not entirely complete for any year.
[5] Excess of assets over liabilities. Most of farmers' mutuals are assessment companies and as such are not required to set up unearned premium reserves.

Source: Department of Agriculture, Economic Research Service; *Agricultural Finance Review*.

No. 887. Farmer Cooperatives—Number, Memberships, and Business: 1940 to 1960

[For years ending June 30, with limited exceptions. Beginning 1951, includes Alaska and Hawaii. Comprises independent local associations, federations, large-scale centralized associations, and sales agencies. Data are for marketing season during which farm products are moved into channels of trade. Marketing seasons overlap. See also *Historical Statistics, Colonial Times to 1957*, series K 181–189]

YEAR	COOPERATIVES LISTED			ESTIMATED MEMBERSHIPS (1,000) [2]			ESTIMATED BUSINESS ($1,000) [3]		
	Total	Marketing [1]	Farm supply	Total	Marketing [1]	Farm supply	Total	Marketing [1]	Farm supply
1940	10,700	8,051	2,649	3,200	2,300	900	2,087,000	1,729,000	358,000
1945	10,150	7,400	2,750	4,505	2,895	1,610	5,645,000	4,835,000	810,000
1950	10,035	6,922	3,113	6,584	4,075	2,509	8,726,000	7,082,600	1,643,400
1951	10,064	6,781	3,283	7,091	4,212	2,879	8,147,137	6,461,724	1,685,413
1952	10,179	6,855	3,324	7,364	4,331	3,033	9,409,887	7,491,164	1,918,723
1953	10,128	6,750	3,378	7,475	4,336	3,139	9,521,313	7,507,545	2,013,768
1954	10,072	6,698	3,374	7,608	4,355	3,253	9,474,640	7,496,588	1,978,052
1955	9,903	6,557	3,346	7,604	4,281	3,323	9,641,882	7,620,265	2,021,617
1956	9,894	6,519	3,375	7,732	4,288	3,444	9,756,125	7,710,039	2,046,086
1957	9,891	6,518	3,373	7,673	4,184	3,489	10,379,455	8,233,516	2,145,939
1958	9,735	6,352	3,383	7,486	3,943	3,543	10,717,545	8,530,055	2,187,490
1959	9,658	6,271	3,387	7,559	3,915	3,644	11,714,139	9,343,078	2,371,061
1960 (prel.)	9,345	6,048	3,297	7,273	3,673	3,600	12,000,266	9,592,109	2,408,157

[1] Includes service associations.
[2] Comprises members (those entitled to vote for directors) but excludes nonvoting patrons.
[3] Comprises value of commodities sold or purchased for patrons and charges for rendering other essential services in marketing or purchasing. Beginning 1951, net figures; adjusted for duplication resulting from transactions between cooperatives. Earlier figures included some duplication.

Source: Department of Agriculture, Farmer Cooperative Service; annual report, *Statistics of Farmer Cooperatives*.

No. 888. Farmer Cooperatives—Estimated Business, by Commodity: 1960

[Includes Alaska and Hawaii. Preliminary. See headnote, table 887]

COMMODITY	Number of co-ops. handling	Gross business ($1,000)	Net business ($1,000)[1]
Total	[2] 9,345	15,610,573	12,000,266
Marketing	[2] 6,643	11,652,427	9,293,932
Dry beans and peas	63	41,598	28,849
Cotton and products	562	668,747	607,390
Dairy products	1,669	3,679,523	3,055,521
Fruits and vegetables	723	1,285,441	905,829
Grain, soybeans, soybean meal and oil	2,649	2,944,798	1,929,114
Livestock and products	549	1,613,026	1,471,069
Nuts	122	136,854	114,533
Poultry products	613	464,730	390,488
Rice	59	167,680	145,018
Sugar products	67	336,952	336,952
Tobacco	32	241,287	241,287
Wool and mohair	282	23,291	22,527
Miscellaneous	215	48,500	45,355
Farm supply	[2] 7,162	3,659,969	2,408,157
Building materials	1,699	138,814	91,114
Containers	1,088	59,970	27,725
Farm machinery and equipment	1,898	110,081	76,472
Feed	4,489	1,198,680	885,924
Fertilizer	4,338	583,628	334,404
Meats and groceries	905	63,767	52,753
Petroleum products	2,803	965,184	596,180
Seed	3,961	141,446	101,635
Sprays and dusts (farm chemicals)	2,906	78,639	53,202
Other supplies	4,650	319,760	188,748
Services (trucking, cotton ginning, storage, grinding, locker plants, misc.)	[2] 5,564	[3] 298,177	[3] 298,177

[1] Represents value at the first level at which cooperatives transact business for farmers. Adjusted for duplication resulting from intercooperative business.

[2] Because many associations are engaged in more than one type of business, these totals are less than the number that would be obtained by adding the number of associations handling individual items or performing individual services. [3] Charges for services in which no duplication occurs.

Source: Department of Agriculture, Farmer Cooperative Service; annual report, *Statistics of Farmer Cooperatives*.

No. 889. Farmer Cooperatives—Number, Memberships, and Business, by States: 1960

[Preliminary. See headnote, table 887]

STATE	Cooperatives listed	Estimated memberships[1]	Estimated business[2] ($1,000)
United States	9,345	7,273,455	12,000,266
New England	119	83,355	271,084
Maine	19	20,525	41,104
New Hampshire	9	7,110	22,819
Vermont	28	18,445	87,243
Massachusetts	36	22,510	65,584
Rhode Island	2	2,870	8,576
Connecticut	25	11,895	45,758
Middle Atlantic	655	350,230	1,027,750
New York	402	148,415	565,305
New Jersey	69	31,695	106,716
Pennsylvania	184	170,120	355,729
East North Central	1,786	1,856,595	2,635,990
Ohio	272	375,795	566,282
Indiana	139	421,705	401,825
Illinois	459	484,140	668,886
Michigan	209	184,650	358,417
Wisconsin	707	390,305	640,580
West North Central	3,587	2,303,090	3,039,305
Minnesota	1,189	584,540	841,846
Iowa	636	430,655	684,396
Missouri	223	401,070	303,350
North Dakota	507	251,070	323,062
South Dakota	299	186,225	183,357
Nebraska	387	256,120	324,194
Kansas	346	193,410	379,100
South Atlantic	643	1,007,170	980,173
Delaware	17	27,455	31,687
Maryland	61	95,475	98,663
Virginia	155	247,710	193,664
South Atlantic—Con.			
West Virginia	77	74,360	42,630
North Carolina	116	302,875	169,970
South Carolina	35	65,475	40,841
Georgia	75	154,325	126,545
Florida	107	39,495	276,173
East South Central	428	576,240	535,767
Kentucky	97	211,945	188,685
Tennessee	141	139,690	89,016
Alabama	48	90,965	67,264
Mississippi	142	133,640	190,202
West South Central	849	463,575	990,831
Arkansas	112	87,105	136,352
Louisiana	54	24,960	61,289
Oklahoma	172	173,200	232,900
Texas	511	178,310	560,290
Mountain	533	317,755	650,148
Montana	177	74,185	131,338
Idaho	97	59,385	106,707
Wyoming	23	10,885	22,098
Colorado	113	63,670	175,359
New Mexico	35	12,170	53,134
Arizona	14	67,435	62,779
Utah	70	29,760	95,736
Nevada	4	265	2,997
Pacific	745	315,445	1,869,218
Washington	185	111,115	347,649
Oregon	114	70,645	215,438
California	425	132,070	1,290,109
Alaska	2	90	7,415
Hawaii	19	1,525	8,607

[1] See footnote 2, table 887. [2] See footnote 3, table 887.

Source: Department of Agriculture, Farmer Cooperative Service; annual report, *Statistics of Farmer Cooperatives*.