20.—STEAM AND ELECTRIC RAILWAYS AND EXPRESS COMPANIES

[Data in this section relate to continental United States unless otherwise stated]

GENERAL NOTE.—The total steam railroad mileage of the United States includes: (*a*) Regular interstate carriers (and their nonoperating subsidiaries) reporting to the Interstate Commerce Commission, (*b*) switching and terminal railroads, also reporting to the commission; and (*c*) private railroads (defined by the commission as "circular" because they report on brief circulars and as "unofficial"). Except in certain mileage data the circular and unofficial companies are not included in any of the statistics. The switching and terminal roads were formerly included with operating railways, but are now separated, and data for them do not appear in most of the tables.

Nonoperating subsidiaries include 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 railways are divided into three classes, according to the amount of gross operating revenue in 1919: Class I, having more than $1,000,000 of such revenue; Class II, from $100,000 to $1,000,000; and Class III, less than $100,000. During recent years more detailed reports are required from Class I carriers than from smaller companies. The basis of the figures in each table is indicated by notes. Omission of Class II and Class III railroads affects very little the comparability of statistics with those of earlier years as regards most items, since the bulk of the business is done by Class I.

The Interstate Commerce Commission divides railroads geographically into three districts and eight subsidiary regions. Each railroad is treated as a unit and placed wholly in some one district or region. Broadly speaking, the eastern district includes territory east of Chicago and north of the Ohio and Potomac Rivers; southern district, territory east of the Mississippi River and south of the Ohio and Potomac Rivers; and western district the remainder of the country. The principal railroads of the eight regions are listed in Table 449.

Class I companies make monthly reports and the yearly totals from these become available earlier than the sometimes slightly corrected totals from the final annual reports. The latest figures in these tables are in many cases from the monthly reports.

No. 423.—RAILWAY MILEAGE OWNED AND MILEAGE OPERATED CLASSIFIED BY TRACKAGE

NOTE.—Beginning with 1908 switching and terminal roads are omitted (they operate about 2,000 miles of first main track). The first and second columns cover all railways including "circular" and "unofficial" lines; the last five columns omit "circular" and "unofficial" lines. Mileage owned excludes all duplication and covers continental United States only. Mileage operated includes some duplication under trackage rights and some mileage in Canada operated by United States companies

Year	Miles of road (first track) owned	Miles operated					
		All railways: Road (first track)	Reporting railways				Class I railways: Road (first track)
			Road (first track)	Other main tracks	Yard track and sidings	Total track	
June 30, 1890	163,597	167,191	156,404	9,760	33,711	199,875	----------
1895	180,657	184,628	177,746	12,348	43,181	233,275	----------
1900	193,346	198,964	192,556	14,075	52,153	258,784	----------
1905	218,101	225,196	216,974	19,881	69,942	306,797	----------
1910	240,293	249,992	240,831	25,354	85,582	351,767	----------
1911	243,979	254,732	246,238	27,612	88,974	362,824	216,877
1912	246,777	258,033	249,852	29,367	92,019	371,238	220,063
1913	249,777	261,036	253,470	30,827	95,211	379,508	224,236
1914	252,105	263,547	256,547	32,376	98,285	387,208	226,999
1915	253,789	264,378	257,569	33,662	99,910	391,141	228,989
Dec. 31, 1916	254,037	266,381	259,705	34,325	102,984	397,014	231,674
1917	253,626	266,015	259,705	35,066	105,582	400,353	232,697
1918	253,529	264,233	258,507	36,228	107,608	402,343	233,145
1919	253,152	263,707	258,525	36,730	108,637	403,892	234,363
1920	252,845	263,821	259,941	36,894	109,744	406,579	235,234
1921	251,176	262,544	258,362	37,614	111,555	407,531	234,702
1922	250,413	261,984	257,425	37,888	114,046	409,359	234,976
1923	250,222	262,482	258,084	38,697	116,212	412,993	235,574
1924	250,156	262,158	258,238	39,916	116,874	415,028	235,894
1925	249,398	261,871	258,631	40,962	118,361	417,954	236,849
1926	249,138	261,562	258,815	41,686	120,840	421,341	237,054
1927	249,131	262,091	259,639	42,071	123,027	424,737	238,634
1928	249,309	262,713	260,546	42,432	124,772	427,750	240,747
1929	249,433	262,546	260,570	42,711	125,774	429,055	242,015

Source: Interstate Commerce Commission.

No. 424.—RAILWAY MILEAGE OWNED: BY STATES

NOTE.—See headnote to Table 423. The data are for the actual length of line in each State without duplication. Figures relate to June 30 prior to 1920 and Dec. 31 thereafter; they include reporting, *circular*, and unofficial railways, but since 1908 exclude switching and terminal roads

State	1860 [1]	1870 [1]	1880 [1]	1890	1900	1910 [2]	1920	1925	1928	1929
United States [3]	30,626	52,922	93,267	163,597	193,346	240,439	252,845	249,398	249,309	249,433
New England	3,660	4,494	5,982	6,718	7,521	7,921	7,942	7,754	7,580	7,600
Maine	472	786	1,005	1,338	1,915	2,248	2,295	2,228	2,198	2,197
New Hampshire	661	736	1,015	1,145	1,239	1,246	1,252	1,234	1,169	1,166
Vermont	554	614	914	921	1,012	1,100	1,077	1,057	1,034	1,057
Massachusetts	1,264	1,480	1,915	2,094	2,119	2,115	2,106	2,071	2,015	2,016
Rhode Island	108	136	210	213	212	212	211	196	196	196
Connecticut	601	742	923	1,007	1,024	1,000	1,001	968	968	968
Middle Atlantic	5,840	9,709	13,832	18,161	20,709	21,980	22,293	22,003	21,841	21,782
New York	2,682	3,928	5,957	7,661	8,121	8,430	8,390	8,373	8,338	8,331
New Jersey	560	1,125	1,684	2,047	2,257	2,260	2,352	2,292	2,295	2,297
Pennsylvania	2,598	4,656	6,191	8,453	10,331	11,290	11,551	11,338	11,208	11,154
South Atlantic	5,976	7,349	9,789	18,270	23,362	29,795	32,380	31,935	31,850	31,727
Delaware	127	197	275	323	347	335	335	332	325	325
District of Columbia	(4)	(4)	(4)	30	32	36	36	37	36	36
Maryland	386	671	1,040	1,231	1,376	1,426	1,436	1,447	1,427	1,439
Virginia	1,379	1,486	1,893	3,160	3,779	4,535	4,703	4,554	4,509	4,505
West Virginia	352	387	691	1,328	2,228	3,601	3,996	4,038	4,049	4,006
North Carolina	937	1,178	1,486	3,001	3,831	4,932	5,522	5,347	5,223	5,189
South Carolina	973	1,139	1,427	2,194	2,818	3,442	3,814	3,748	3,743	3,779
Georgia	1,420	1,845	2,459	4,532	5,652	7,056	7,326	6,980	6,800	6,762
Florida	402	446	518	2,471	3,299	4,432	5,212	5,452	5,738	5,686
East North Central	9,583	14,701	25,109	36,924	41,007	44,928	44,904	43,843	43,721	43,914
Ohio	2,946	3,538	5,792	7,912	8,807	9,134	9,002	8,812	8,867	8,810
Indiana	2,163	3,177	4,373	5,971	6,471	7,420	7,426	7,187	7,173	7,105
Illinois	2,790	4,823	7,851	10,214	11,003	11,878	12,188	11,994	12,119	12,511
Michigan	779	1,638	3,938	7,243	8,195	9,021	8,734	8,349	8,209	8,155
Wisconsin	905	1,525	3,155	5,584	6,531	7,475	7,554	7,501	7,353	7,333
West North Central	1,472	8,046	19,094	38,354	42,988	49,730	52,180	51,856	51,557	51,544
Minnesota		1,092	3,151	5,466	6,943	8,669	9,114	8,787	8,822	8,816
Iowa	655	2,683	5,400	8,356	9,185	9,755	9,808	9,814	9,751	9,709
Missouri	817	2,000	3,965	6,004	6,875	8,083	8,117	8,051	7,954	7,940
North Dakota		[5] 65	[5] 1,225	1,941	2,731	4,201	5,311	5,277	5,275	5,276
South Dakota		(6)	(6)	2,486	2,850	3,948	4,276	4,245	4,236	4,287
Nebraska		705	1,953	5,295	5,685	6,067	6,166	6,189	6,174	6,174
Kansas		1,501	3,400	8,806	8,719	9,007	9,388	9,493	9,345	9,342
South Central	3,392	4,656	6,343	11,144	13,343	17,074	17,754	17,492	17,593	17,537
Kentucky	534	1,017	1,530	2,746	3,060	3,526	3,929	4,005	4,037	4,033
Tennessee	1,253	1,492	1,843	2,752	3,137	3,816	4,078	4,063	4,008	3,962
Alabama	743	1,157	1,843	3,314	4,226	5,226	5,378	5,254	5,282	5,258
Mississippi	862	990	1,127	2,332	2,920	4,506	4,369	4,170	4,266	4,284
West South Central	680	1,417	5,044	13,782	18,221	31,122	32,972	32,588	32,983	33,145
Louisiana	335	450	652	1,759	2,824	5,554	5,223	4,868	4,772	4,763
Texas	307	711	3,244	8,613	9,886	14,282	16,125	16,198	16,771	16,891
Oklahoma			289	1,214	2,151	5,980	6,572	6,621	6,618	6,682
Arkansas	38	256	859	2,196	3,360	5,306	5,052	4,901	4,822	4,809
Mountain		1,466	5,082	12,676	15,808	22,956	25,170	24,723	24,972	24,866
Montana			106	2,181	3,010	4,207	5,072	5,037	5,232	5,231
Wyoming		459	512	942	1,229	1,645	1,931	1,992	2,042	2,043
Colorado		157	1,570	4,176	4,587	5,533	5,519	5,077	4,983	4,967
New Mexico			758	1,324	1,753	3,032	2,972	2,998	2,964	2,875
Arizona			349	1,097	1,512	2,097	2,478	2,378	2,495	2,494
Utah		257	842	1,090	1,547	1,986	2,161	2,189	2,194	2,194
Nevada		593	739	925	909	2,277	2,160	2,137	2,123	2,123
Idaho			206	941	1,261	2,179	2,877	2,915	2,939	2,939
Pacific	23	1,084	2,992	7,567	10,389	14,932	17,248	17,204	17,212	17,318
Washington			289	1,783	2,914	4,875	5,587	5,559	5,565	5,539
Oregon		159	508	1,428	1,724	2,285	3,305	3,357	3,416	3,487
California	23	925	2,195	4,356	5,751	7,772	8,356	8,288	8,231	8,292
Alaska Territory					22	390	246	801	793	790
Hawaii Territory						175	243	252	229	231

[1] Represents mileage operated.
[2] Revised total 240,293 not distributed by States.
[3] Totals exclude Alaska and Hawaii.
[4] Included in returns for Maryland.
[5] Figures for Dakota.
[6] For total Dakota see North Dakota.

Source: Interstate Commerce Commission.

No. 425.—RAILWAY MILEAGE OWNED AND OPERATED

NOTE.—See note to Table 423. Since 1890 the columns correspond to the first and third columns of that table. The exact basis of the data prior to 1890 is not stated. For years 1842 to 1889 and 1916 to date data relate to Dec. 31; for years 1890 to 1915 data relate to June 30

Year	Owned	Operated	Year	Owned	Operated	Year	Owned	Operated
1842		4,026	1888		156,114	1909	236,834	235,402
1850		9,021	1889		161,276	1910	240,293	240,831
1855		18,374	1890	163,597	156,404	1911	243,979	246,238
1860		30,626	1891	168,403	161,275	1912	246,777	249,852
1865		35,085	1892	171,564	162,397	1913	249,777	253,470
1870		52,922	1893	176,461	169,780	1914	252,105	256,547
1873		70,268	1894	178,709	175,691	1915	253,789	257,569
1874		72,385	1895	180,657	177,746	1916	254,037	259,705
1875		74,096	1896	182,777	181,983	1917	253,626	259,705
1876		76,808	1897	184,428	183,284	1918	253,529	258,507
1877		79,082	1898	186,396	184,648	1919	253,152	258,525
1878		81,747	1899	189,295	187,535	1920	252,845	259,941
1879		86,556	1900	193,346	192,556	1921	251,176	258,362
1880		93,262	1901	197,237	195,562	1922	250,413	257,425
1881		103,108	1902	202,472	200,155	1923	250,222	258,084
1882		114,677	1903	207,977	205,314	1924	250,156	258,238
1883		121,422	1904	213,904	212,243	1925	249,398	258,631
1884		125,345	1905	218,101	216,974	1926	249,138	258,815
1885		128,320	1906	224,363	222,340	1927	249,131	259,639
1886		136,338	1907	229,951	227,455	1928	249,309	260,546
1887		149,214	1908	233,468	230,494	1929	249,433	260,570

Source: Poor's Manual of Railroads prior to 1890; Interstate Commerce Commission thereafter.

No. 426.—MILEAGE OPERATED AND EQUIPMENT: CLASS I CARRIERS

NOTE.—Mileage operated includes some duplication due to trackage rights and some mileage in Canada operated by United States companies. For car equipment in detail see Table 430

Year ended Dec. 31	Mileage operated				Locomotives			Aggregate capacity of freight cars (1,000 tons)
	Road (first track)	Other main tracks	Yard track and sidings	Total track	Number, steam and electric	Tractive power, steam only		
						Aggregate (1,000 lbs.)	Average (lbs.)	
Total:								
1916	231,674	34,129	98,334	364,137	61,332	2,024,119	33,188	92,280
1920	235,234	36,737	105,408	377,379	64,746	2,340,761	36,365	98,343
1921	234,702	37,454	107,098	379,254	64,949	2,385,470	36,935	98,504
1922	234,976	37,704	109,463	382,143	64,512	2,401,452	37,441	98,847
1923	235,574	38,573	111,708	385,855	65,327	2,544,115	39,177	101,318
1924	236,894	39,735	112,253	387,882	65,358	2,593,178	39,891	104,149
1925	236,849	40,817	113,873	391,539	63,974	2,586,868	40,666	105,570
1926	237,054	41,537	116,353	394,944	62,761	2,611,238	41,886	105,953
1927	238,634	41,926	118,654	399,214	61,344	2,606,171	42,798	105,846
1928	240,747	42,255	120,479	403,481	59,441	2,579,643	43,838	105,322
1929	242,015	[1] 42,556	121,882	406,453	57,537	2,550,813	44,801	105,411
Eastern district:								
1916	59,175	20,879	40,056	120,110	28,179	958,339	34,333	47,185
1921	58,885	22,108	43,031	124,024	29,468	1,118,251	38,313	49,161
1923	59,302	22,404	44,820	126,526	29,479	1,193,235	40,888	49,633
1925	59,249	22,882	45,054	127,185	28,409	1,193,573	42,408	51,449
1927	59,135	23,264	45,869	128,268	26,915	1,181,792	44,475	51,597
1928	59,450	23,354	46,184	128,988	25,919	1,159,102	45,425	51,087
1929	60,362	23,448	46,677	130,487	24,921	1,141,547	46,563	50,998
Southern district:								
1916	42,753	3,940	15,695	62,388	9,754	323,023	33,165	15,633
1921	43,826	4,475	17,379	65,680	10,780	401,280	37,273	17,174
1923	43,894	4,694	18,188	66,776	10,893	428,896	39,435	17,818
1925	44,241	5,707	19,199	69,147	11,158	457,579	41,112	18,968
1927	45,416	6,075	20,815	72,306	11,229	483,124	43,155	19,424
1928	45,760	6,122	21,241	73,123	11,126	485,761	43,944	19,389
1929	45,758	6,149	21,387	73,294	10,808	478,826	44,600	19,177
Western district:								
1916	129,746	9,310	42,583	181,639	23,399	742,757	31,827	29,463
1921	131,991	10,871	46,688	189,550	24,701	865,939	35,155	32,169
1923	132,378	11,475	48,700	192,553	24,955	921,984	37,057	33,867
1925	133,359	12,228	49,620	195,207	24,407	935,716	38,448	35,153
1927	134,083	12,587	51,970	198,640	23,200	941,255	40,698	34,825
1928	135,537	12,779	53,054	201,370	22,396	934,780	41,967	34,846
1929	135,895	12,959	53,818	202,672	21,808	930,440	42,909	35,236

[1] Includes second track, 36,721 miles; third track, 3,207 miles; fourth and other, 2,628 miles.

Source: Interstate Commerce Commission.

No. 427.—MILEAGE OF ROAD AND TRACKS OPERATED: CLASS I CARRIERS, BY DISTRICTS

NOTE.—Figures include some mileage in Canada operated by United States companies as follows: 1916, 2,097 miles; 1920, 1,949 miles; 1925, 3,087 miles; 1927, 2,920 miles; 1928, 2,917 miles; 1929, 2,893 miles, consisting of 1,719 miles of road, 501 miles of second main track, 70 miles of industrial tracks, and 603 miles of yard track and sidings. Figures also include some industrial tracks as follows: 1925, 20,407 miles; 1927, 21,403 miles; 1928, 21,490 miles; 1929, 21,703 miles

District and year ended Dec. 31	Total, all tracks	Road (first main track)	Second main track	Third main track	Fourth and other main tracks	Yard track and sidings	Electrified mileage			
							Total track	Road (first main track)	Other main tracks	Yard track and sidings
All districts:										
1916	364,137	231,674	29,223	2,716	2,190	98,334	[1]	[1]	[1]	[1]
1920	377,379	235,234	31,512	2,936	2,289	105,408	3,132	1,449	900	783
1925	391,539	236,848	35,200	3,111	2,506	113,874	[2] 3,598	[2] 1,674	972	952
1928	403,481	240,747	36,409	3,160	2,596	120,479	4,850	2,383	1,243	1,224
1929	406,453	242,015	36,721	3,207	2,628	121,882	4,914	2,382	1,250	1,282
Eastern district:										
1916	120,110	59,175	16,666	2,408	1,805	40,056	[1]	[1]	[1]	[1]
1928	128,988	59,450	18,588	2,712	2,054	46,184	2,834	1,099	987	748
1929	130,487	60,362	18,621	2,743	2,084	46,677	2,842	1,088	987	767
Southern district:										
1916	62,389	42,753	3,725	43	173	15,695	[1]	[1]	[1]	[1]
1928	73,123	45,760	5,670	126	326	21,241	633	270	175	188
1929	73,294	45,758	5,696	127	326	21,387	657	270	181	206
Western district:										
1916	181,638	129,746	8,832	265	212	42,583	[1]	[1]	[1]	[1]
1928	201,370	135,537	12,241	322	216	53,054	1,383	1,014	81	288
1929	202,672	135,895	12,404	337	218	53,818	1,415	1,024	82	309

[1] Data not available.
[2] Does not include 43 miles of electric street railways operated by Boston & Maine R. R.

No. 428.—RAILWAY EQUIPMENT INSTALLED AND RETIRED FROM SERVICE: CLASS I CARRIERS

NOTE.—"Installed" includes new and used equipment purchased; equipment leased from others; the return to service of equipment that was leased to others; equipment rebuilt or converted; and units (except locomotives) transferred from one class of service to another. "Retired" includes equipment permanently withdrawn from transportation service; equipment leased to others; the return of leased equipment to the owning companies; equipment rebuilt or converted; and units (except locomotives) transferred from one class of service to another

Year ended	Locomotives		Freight-train cars		Passenger-train cars	
	Number installed	Number retired	Number installed	Number retired	Number installed	Number retired
June 30, 1908	3,227	1,140	171,556	70,976	2,183	1,630
1909	1,549	1,333	67,925	83,223	1,786	1,591
1910	3,073	1,452	134,593	75,652	3,505	1,914
1911	3,694	1,468	125,532	68,031	4,250	1,701
1912	2,861	1,858	97,972	69,876	3,060	1,387
1913	4,381	2,338	162,670	96,825	2,823	1,842
1914	3,245	1,862	150,813	96,985	3,629	1,854
1915	1,114	1,507	86,012	90,347	2,664	1,385
1916	1,475	2,576	88,254	109,996	1,261	2,156
Dec. 31, 1917	2,148	1,423	117,210	62,253	2,535	1,671
1918	2,803	977	65,249	56,024	1,817	1,051
1919	2,062	999	76,019	43,274	435	670
1920	1,017	1,254	36,044	75,197	621	885
1921	1,330	1,130	63,406	69,245	1,681	929
1922	1,226	1,682	105,394	126,471	1,328	1,286
1923	4,360	3,746	232,060	213,789	2,658	2,360
1924	2,786	2,529	156,572	118,590	2,755	2,295
1925	1,600	2,873	139,083	128,573	3,230	3,569
1926	1,882	3,105	93,369	103,152	3,455	3,309
1927	1,542	2,976	73,254	96,991	2,646	3,612
1928	1,017	3,047	62,945	90,707	2,524	3,252
1929	1,229	3,134	94,946	115,869	2,663	3,499

Source of Tables 427 and 428: Interstate Commerce Commission.

No. 429.—RAILWAY EQUIPMENT IN SERVICE, ALL REPORTING COMPANIES

NOTE.—"All reporting companies" include switching and terminal but not circular and unofficial lines. Data for tractive power and capacity of cars exclude switching roads beginning with 1908 and smaller roads during recent years; they would not be materially different if all carriers were included. The large number of cars owned by private car lines is not included

Year	Locomotives					Freight-train cars [1]			Passenger-train cars
	Total number	Steam			Electric, number	Total number	Capacity		
		Number	Tractive power				Aggregate (1,000 tons)	Average (tons)	
			Aggregate (1,000 lbs.)	Average (lbs.)					
June 30, 1890	30,140	-------	-------	-------	------	918,491	-------	-------	26,820
1895	35,699	-------	-------	-------	------	1,196,119	-------	-------	33,112
1900	37,663	-------	-------	-------	------	1,365,531	-------	-------	34,713
1905	48,357	-------	1,128,771	23,666	------	1,731,409	53,255	30.8	40,713
1910	60,019	-------	1,588,894	27,282	------	2,148,478	76,579	35.9	47,179
1915	66,502	66,229	[2] 2,014,201	[2] 31,546	273	2,341,567	[3] 92,238	[3] 39.6	55,810
Dec. 31, 1916	65,595	65,253	[2] 2,066,166	[2] 32,890	342	2,329,475	[3] 94,441	[3] 40.8	55,193
1917	66,070	65,699	[4] 2,087,950	[4] 33,932	371	2,379,472	[4] 96,467	[4] 41.5	55,389
1918	67,936	67,563	[4] 2,223,246	[4] 34,995	373	2,397,943	[4] 96,767	[4] 41.6	56,611
1919	68,977	68,592	[4] 2,312,634	[4] 35,789	385	2,426,889	[4] 99,001	[4] 41.9	56,290
1920	68,942	68,554	[4] 2,340,761	[4] 36,365	388	2,388,424	[4] 98,343	[4] 42.4	55,102
1921	69,122	68,733	[4] 2,385,470	[4] 36,935	389	2,378,510	[4] 98,504	[4] 42.5	56,950
1922	68,518	68,121	[4] 2,401,452	[4] 37,441	397	2,352,483	[4] 98,847	[4] 43.1	56,827
1923	69,414	69,005	[4] 2,544,115	[4] 39,177	409	2,379,131	[4] 101,318	[4] 43.8	57,159
1924	69,486	69,114	[4] 2,593,178	[4] 39,891	372	2,411,627	[4] 104,149	[4] 44.3	57,451
1925	68,092	67,713	[4] 2,586,868	[4] 40,666	379	2,414,083	[4] 105,570	[4] 44.8	56,814
1926	66,816	66,381	[4] 2,611,238	[4] 41,886	435	2,403,967	[4] 105,953	[4] 45.1	56,855
1927	65,348	64,843	[4] 2,606,171	[4] 42,798	467	2,378,800	[4] 105,846	[4] 45.5	55,729
1928	63,311	62,642	[4] 2,579,643	[4] 43,838	617	2,346,751	[4] 105,322	[4] 45.8	54,800
1929	61,257	60,572	[4] 2,550,813	[4] 44,801	621	2,323,683	[4] 105,411	[4] 46.3	53,838

[1] Excludes caboose cars.
[2] Class I, Class II, and Class III roads.
[3] Class I and Class II roads.
[4] Class I roads.

No. 430.—CLASSIFICATION OF RAILWAY CARS IN SERVICE

NOTE.—Data relate to June 30 prior to 1916 and Dec. 31 thereafter. Figures for "All operating companies" include switching and terminal companies but not circular and unofficial lines. Cars owned by private car lines, roughly equaling one-tenth of those owned by railway companies, are not included

	All operating companies					Class I, 1929			
	1910	1915	1920	1925	1929	Total	Eastern district	Southern district	Western district
Freight cars [1]	2,148,478	2,341,567	2,388,424	2,414,083	2,323,683	2,277,464	1,042,420	418,182	816,862
Box	966,603	1,041,695	1,056,514	1,086,562	1,058,252	1,053,057	449,541	168,884	434,632
Flat	153,958	146,343	117,604	113,562	108,992	99,397	20,669	21,612	57,116
Stock	78,811	86,326	81,678	87,452	85,131	84,683	14,358	7,630	62,695
Coal	818,731	910,637	968,034	979,483	935,985	913,464	532,668	206,931	173,865
Tank	7,434	10,165	11,130	12,151	11,041	9,613	28	22	9,563
Refrigerator	30,918	52,446	60,768	49,488	41,406	40,741	4,047	5,175	31,519
Other	78,666	93,955	92,696	85,385	82,876	76,509	21,109	7,928	47,472
Steel [2]	(3)	501,309	630,150	757,065	829,154	829,154	545,880	150,634	132,640
Steel underframe [2]	(3)	676,176	886,296	1,056,125	1,103,121	1,103,121	441,244	195,562	466,315
Caboose cars	27,224	28,965	29,575	31,325	30,235	29,299	12,131	5,737	11,431
Passenger-train cars	[4] 47,179	55,810	56,102	56,814	53,838	52,259	25,930	8,032	18,297
Coaches	25,881	30,135	29,343	28,744	25,424	24,680	12,979	3,765	7,936
Combination	5,697	8,847	8,570	8,624	8,437	7,759	3,270	1,333	3,156
Emigrant	97	50	11	7	-------	-------	-------	-------	-------
Parlor	634	651	574	502	501	494	97	74	323
Sleeping	490	750	558	377	248	246	6	7	233
Baggage and express	[5] 11,524	9,938	12,101	13,174	13,020	12,918	6,660	1,783	4,475
Postal	(5)	1,566	1,243	1,092	991	985	366	190	429
Other	2,752	3,873	3,702	4,294	5,217	5,177	2,552	880	1,745
Steel [2]	(3)	10,859	15,111	21,190	28,203	28,203	15,946	3,536	8,721
Steel underframe [2]	(3)	5,160	6,573	9,369	9,985	9,985	5,358	1,565	3,062
Company service equipment	80,891	98,752	108,485	112,592	111,815	108,364	35,443	18,367	54,554
Motor cars and trailers [2]	(3)	(3)	(3)	2,469	5,090	5,090	3,793	421	876

[1] Excludes caboose cars; total for 1910 includes 13,357 unclassified cars.
[2] Data represent Class I roads only.
[3] Data not available.
[4] Includes 104 unclassified cars.
[5] Postal cars included with baggage and express.

Source of Tables 429 and 430: Interstate Commerce Commission.

No. 431.—FREIGHT-CAR PERFORMANCE AND EQUIPMENT CONDITION

NOTE.—Data relate to Class I carriers. Yearly averages for 1920 to 1925 are as follows: Freight car-miles per car-day, 1920, 25.1; 1921, 22.4; 1922, 23.5; 1923, 27.8; 1924, 26.8; 1925, 28.5; percentage of unserviceable freight cars, 1920, 7.0; 1921, 13.1; 1922, 12.8; 1923, 8.0; 1924, 7.8; 1925, 7.7; percentage of unserviceable locomotives, 1920, 24.5; 1921, 23.7; 1922, 24.9; 1923, 21.4; 1924, 18.7; 1925, 17.8

Month	Freight-car miles per car day					Percentage of unserviceable freight cars					Percentage of unserviceable locomotives (freight and passenger)				
	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930
Yearly average	30.4	30.3	31.2	32.3	28.7	6.5	5.9	6.2	6.0	6.2	16.6	16.2	16.3	16.3	17.5
January	27.6	28.5	27.6	29.5	28.2	6.6	5.6	5.8	6.0	5.4	17.1	16.6	16.0	16.8	16.8
February	28.6	30.4	29.8	32.3	30.0	6.7	5.7	5.9	6.2	5.5	17.3	16.8	16.6	16.9	17.3
March	29.2	30.9	30.9	32.3	28.9	6.7	5.6	6.0	6.2	5.5	17.6	17.0	16.6	17.0	17.2
April	29.0	29.5	29.9	32.0	29.6	6.7	5.6	6.2	6.2	5.7	17.5	16.9	16.7	16.9	17.2
May	29.8	30.2	31.1	32.9	29.4	6.8	5.9	6.5	6.3	5.9	17.0	16.6	16.5	16.2	16.9
June	30.1	30.0	30.3	32.4	28.3	6.9	6.1	6.3	6.2	6.1	16.6	16.4	16.1	15.9	17.0
July	30.5	29.1	30.3	32.0	28.2	7.0	6.2	6.4	6.3	6.3	16.1	15.8	16.1	15.8	17.1
August	31.5	30.9	32.1	33.5	28.9	7.0	6.2	6.5	6.0	6.5	16.1	15.8	16.1	15.8	17.3
September	32.7	32.6	33.8	34.2	29.9	6.6	6.0	6.5	6.0	6.9	15.8	15.3	16.0	15.9	17.6
October	34.3	34.7	36.2	36.3	31.5	6.1	5.9	6.2	5.7	6.9	15.8	15.5	16.2	16.0	17.9
November	32.1	30.2	33.2	32.4	27.5	5.8	5.9	6.1	5.6	7.0	16.3	16.7	16.6	16.4	18.7
December	29.3	26.9	29.5	28.2	23.7	5.5	5.8	5.9	5.4	6.7	16.0	15.6	16.4	16.2	18.7

Source: Bureau of Railway Economics.

No. 432.—RECEIVERSHIPS OF RAILWAYS

Year (calendar, except as noted)	Under receivership end of year [1]		Placed under receivership			Year (calendar, except as noted)	Under receivership end of year [1]		Placed under receivership		
	Number	Mileage operated	Number	Miles	Stocks and bonds (1,000 dollars)		Number	Mileage operated	Number	Miles	Stocks and bonds (1,000 dollars)
1881			5	110	3,742	1906	34	3,971	6	204	55,042
1882			12	912	39,074	1907	29	3,926	7	317	13,585
1883			11	1,990	108,470	1908	52	9,529	24	8,009	596,359
1884			37	11,038	714,755	1909	44	10,530	5	859	78,095
1885			44	8,836	385,460	1910	39	5,257	7	735	51,428
1886			13	1,799	70,346	1911	39	4,593	5	2,606	210,607
1887			9	1,046	90,318	1912	44	9,786	13	3,784	182,112
1888			22	3,270	186,814	1913	49	16,286	17	9,020	477,781
1889			22	3,803	99,664	1914	68	18,608	22	4,222	199,571
1890			26	2,963	105,007	1915	85	30,223	12	20,143	1,070,809
1891			26	2,159	84,479	1916	80	34,804	9	4,439	208,160
1892			36	10,508	357,692	1917	82	17,376	19	2,486	61,170
1893			74	29,340	1,781,046	1918	74	19,208	8	3,519	242,091
1894	192	40,819	38	7,025	395,791	1919	65	16,590	7	244	11,887
1895	169	37,856	31	4,089	369,075	1920	61	16,290	10	541	21,620
1896	151	30,475	34	5,441	275,597	1921	68	13,512	14	1,744	63,872
1897	128	18,862	18	1,537	92,909	1922	64	15,259	12	4,330	329,115
1898	94	12,745	18	2,069	138,701	1923	64	12,623	10	2,218	87,914
1899	71	9,853	10	1,019	52,285	1924	61	8,105	11	920	30,223
1900	52	4,178	16	1,165	78,234	1925	53	18,687	6	11,368	680,422
1901	45	2,497	4	73	1,627	1926	45	17,632	6	88	2,821
1902	27	1,475	5	278	5,835	1927	40	16,752	6	924	45,237
1903	27	1,185	9	229	18,823	1928	33	5,256	1	19	529
1904	28	1,323	8	744	36,069	1929	29	5,703	3	634	30,981
1905	26	796	10	3,593	176,321	1930	[2]	[2]	4	4,752	277,324

[1] Data relate to June 30 prior to 1916, Dec. 31 thereafter. [2] Data not available.

Sources: First two columns, Interstate Commerce Commission; others, The Railway Age, Chicago.

No. 433.—EMPLOYEES OF RAILWAYS: NUMBER AND COMPENSATION[1]

Year ended—	All operating carriers: Average number of employees	All operating carriers: Total yearly compensation (1,000 dollars)	All operating carriers: Average compensation: Per hour[2]	All operating carriers: Average compensation: Per year
June 30:				
1890	749,301			
1895	785,034	445,508		$568
1900	1,017,653	577,265		567
1901	1,071,169	610,714		570
1902	1,189,315	676,029		568
1903	1,312,537	757,321		577
1904	1,296,121	817,599		631
1905	1,382,196	839,945		608
1906	1,521,355	900,802		592
1907	1,672,074	1,072,386		641
June 30:				
1908	1,436,275	1,035,438		$721
1909	1,502,823	988,324		658
1910	1,699,420	1,143,725		673
1911	1,669,809	1,208,466		724
1912	1,716,380	1,252,348		730
1913	1,815,239	1,373,831		757
1914	1,710,296	1,381,117		808
1916	1,654,075	1,403,968	$0.266	849
Dec. 31:				
1916	1,700,814	1,506,961	.275	886

Year ended Dec. 31—	All operating carriers: Average number of employees	Class I carriers: Average number of employees	Class I carriers: Total hours (thousands)	Class I carriers: Total yearly compensation (1,000 dollars)	Class I carriers: Average hours per employee	Class I carriers: Average compensation: Per hour[2]	Class I carriers: Average compensation: Per year
1916	1,700,814	1,647,097	5,189,791	1,468,576	3,150.9	$0.283	$892
1917	1,785,893	1,732,876	5,437,977	1,739,482	3,138.1	.320	1,004
1918[3]	1,891,517	1,841,575	5,701,417	2,613,813	3,095.9	.458	1,419
1919[3]	1,960,439	1,913,422	5,032,493	2,843,128	2,630.1	.565	1,486
1920	2,075,886	2,022,832	5,446,741	3,681,801	2,692.6	.676	1,820
1921	1,705,308	1,650,513	4,147,319	2,765,218	2,499.1	.667	1,666
1922	1,669,640	1,626,834	4,311,097	2,640,817	2,650.0	.613	1,623
1923	1,902,222	1,857,674	4,928,651	3,004,072	2,653.1	.610	1,617
1924	1,795,493	1,751,362	4,534,879	2,825,775	2,589.3	.623	1,613
1925	1,786,411	1,744,311	4,531,361	2,860,600	2,597.8	.631	1,640
1926	1,821,804	1,779,275	4,671,736	2,946,114	2,625.6	.631	1,656
1927	1,775,549	1,735,105	4,519,281	2,910,183	2,604.6	.644	1,677
1928	1,691,950	1,656,411	4,313,574	2,826,590	2,604.2	.655	1,706
1929	1,694,042	1,660,850	4,346,822	2,896,566	2,617.2	.666	1,744
1930	[4] 1,518,108	1,488,353	3,759,792	2,550,544	2,526.1	.678	1,714

[1] Data exclude switching and terminal companies beginning 1910. Class III roads are excluded in 1913 Exclusion of the latter has practically no effect on the comparability of the figures. Information for 1915 is incomplete, as 20 of the larger railways did not report, and is not shown.
[2] Calculated for all classes of employees, including those not paid on an hourly basis.
[3] Data cover Federal reports, reports of companies not under Federal control, and corporate reports.
[4] Estimated from data for Class I roads.

Source: Interstate Commerce Commission.

No. 434.—EMPLOYEES AND THEIR COMPENSATION: CLASS I CARRIERS

NOTE.—Data relate to years ended Dec. 31. Class I switching and terminal companies are included. Average compensation in fifth and sixth columns is per day where so indicated in the footnote or stub. Data shown for principal occupations only. Data for occupations not shown included in group totals

Occupation	Average number of employees: 1929	Average number of employees: 1930	Total compensation (1,000 dollars): 1929	Total compensation (1,000 dollars): 1930	Average per hour, straight time (dollars): 1929	Average per hour, straight time (dollars): 1930	Average per month, total compensation (dollars): 1929	Average per month, total compensation (dollars): 1930
All employees, all districts	1,686,769	1,510,688	2,940,869	2,590,275				
Daily basis	*123,502*	*119,422*	*339,153*	*331,379*	*8.42*	*8.55*	*229*	*231*
Hourly basis	*1,563,267*	*1,391,266*	*2,601,716*	*2,258,896*	*.625*	*.635*	*139*	*135*
Eastern district	734,207	664,376	1,352,517	1,187,101				
Daily basis	*59,539*	*57,662*	*158,114*	*154,164*	*8.09*	*8.20*	*221*	*223*
Hourly basis	*674,668*	*606,714*	*1,194,403*	*1,032,937*	*.665*	*.672*	*148*	*142*
Southern district	311,476	280,230	488,558	438,829				
Daily basis	*19,523*	*19,019*	*55,711*	*54,967*	*8.80*	*8.95*	*238*	*241*
Hourly basis	*291,953*	*261,211*	*432,847*	*383,862*	*.574*	*.585*	*124*	*122*
Western district	641,086	566,082	1,099,794	964,345				
Daily basis	*44,440*	*42,741*	*125,328*	*122,248*	*8.70*	*8.85*	*235*	*238*
Hourly basis	*596,646*	*523,341*	*974,466*	*842,097*	*.605*	*.618*	*136*	*134*

No. 434.—Employees and Their Compensation: Class I Carriers—Con.

Occupation	Average number of employees		Total compensation (1,000 dollars)		Average per hour, straight time (dollars)		Average per month, total compensation (dollars)	
	1929	1930	1929	1930	1929	1930	1929	1930
Executives, officials, and staff assistants	16,995	16,599	96,048	95,397				
Daily basis	*16,995*	*16,599*	*96,048*	*95,397*	*17.78*	*18.14*	*471*	*479*
Executives, general officers, and assistants	7,698	7,650	57,338	57,838	[1]24.07	[1]24.52	621	630
Division officers and assistants	9,297	8,949	38,710	37,559	[1]12.79	[1]12.92	347	350
Professional, clerical, and general	270,566	254,093	474,648	448,837				
Daily basis	*54,185*	*52,813*	*127,125*	*125,441*	*7.52*	*7.64*	*196*	*198*
Hourly basis	*216,381*	*201,280*	*347,523*	*323,396*	*.627*	*.636*	*134*	*134*
Supervisory clerks (major departments)	4,954	4,853	14,908	14,702	[1]9.67	[1]9.77	251	252
Chief clerks (minor departments)	12,942	12,779	30,299	29,966	[1]7.42	[1]7.49	195	195
Clerks	153,454	141,474	255,342	235,835	.651	.662	139	139
Mechanical-device operators (office)	8,180	7,751	11,420	10,732	.569	.573	116	115
Stenographers and typists	21,058	19,858	31,490	29,862	.613	.621	125	125
Telephone-switchboard operators and office assistants	5,011	4,773	4,895	4,703	.397	.403	81	82
Messengers and office boys	6,168	5,728	4,509	4,196	[1]2.31	[1]2.31	61	61
Lieutenants and sergeants of police	2,287	2,208	4,860	4,715	[1]6.15	[1]6.19	177	178
Patrolmen	5,235	4,914	9,645	9,016	.566	.571	154	153
Traffic, advertising, and development agents	7,737	7,865	20,904	21,287	[1]8.80	[1]8.83	225	226
Janitors and cleaners	7,694	7,369	7,374	7,012	.375	.375	80	79
Maintenance of way and structures	411,210	349,202	468,025	393,896				
Daily basis	*5,136*	*5,015*	*15,268*	*14,972*	*9.28*	*9.35*	*248*	*249*
Hourly basis	*406,075*	*344,187*	*452,757*	*378,924*	*.443*	*.456*	*93*	*92*
Roadmasters and general foremen	3,407	3,284	10,319	9,907	[1]9.45	[1]9.52	252	254
Bridge and building gang foremen (skilled)	5,472	4,898	11,513	10,198	.828	.841	175	174
Bridge and building carpenters	22,045	19,371	33,615	28,790	.626	.635	127	124
Bridge and building painters	3,096	2,000	4,629	2,906	.633	.646	125	121
Skilled trades helpers	11,230	9,109	13,651	10,743	.503	.507	101	98
Pumping equipment operators	4,319	3,868	4,503	4,028	.343	.346	87	87
Gang foremen (extra gang, work train, bridge, and building and signal and telegraph laborers)	5,162	3,936	9,289	6,950	.660	.681	150	147
Gang or section foremen	39,897	39,276	63,341	62,050	.617	.627	132	132
Laborers (extra gang and work train)	67,156	47,347	63,515	41,981	.364	.362	79	74
Track and roadway section laborers	210,084	179,691	185,415	152,718	.357	.360	74	71
Maintenance of way laborers (not track and roadway)	8,217	6,803	7,691	6,254	.382	.382	78	77
General foremen and supervising inspectors (signal, telegraph, etc.)	571	575	1,791	1,805	[1]9.72	[1]9.83	261	262
Gang foremen (signal and telegraph, skilled trades)	1,508	1,504	3,749	3,729	.953	.975	207	207
Signalmen and signal maintainers	9,457	9,235	19,576	18,951	.801	.811	173	171
Assistant signalmen and signal maintainers	3,239	2,930	5,231	4,730	.653	.660	135	135
Signalmen and signal maintainer helpers	4,258	3,867	5,755	5,219	.545	.558	113	112
Maintenance of equipment and stores	455,858	405,900	760,472	646,156				
Daily basis	*15,733*	*14,862*	*47,667*	*45,019*	*9.09*	*9.16*	*252*	*252*
Hourly basis	*440,125*	*391,038*	*712,805*	*601,137*	*.639*	*.645*	*135*	*128*
General foremen	1,417	1,364	5,230	5,029	[1]10.94	[1]10.96	308	307
Assistant general and department foremen	10,510	10,016	33,305	31,645	[1]9.32	[1]9.36	264	263
Gang foremen and leaders (skilled)	9,926	9,036	27,181	24,356	.947	.953	228	225
Blacksmiths	7,732	6,759	15,060	11,964	.835	.840	162	148
Boilermakers	16,207	14,646	33,307	28,174	.832	.843	172	160
Carmen	99,430	86,106	189,910	155,095	.759	.765	159	150
Electrical workers	10,403	10,139	21,568	20,051	.784	.791	173	165
Machinists	54,714	50,723	110,447	95,847	.816	.825	168	157

[1] Daily basis.

No. 434.—Employees and Their Compensation: Class I Carriers—Con.

Occupation	Average number of employees		Total compensation (1,000 dollars)		Average per hour, straight time (dollars)		Average per month, total compensation (dollars)	
	1929	1930	1929	1930	1929	1930	1929	1930
Maintenance of equipment, etc.—Continued.								
Sheet-metal workers	10,931	10,030	21,888	18,819	0.817	0.826	167	156
Skilled trades helpers	101,208	89,276	145,474	120,592	.578	.584	120	113
Helper apprentices	4,693	3,636	6,562	4,659	.607	.617	117	107
Regular apprentices	10,616	9,008	10,820	8,494	.451	.465	85	79
Gang foremen laborers (shops, engine houses, power plants, stores)	3,758	3,438	6,217	5,615	.610	.617	138	136
Coach cleaners	12,053	11,374	14,097	12,970	.414	.410	97	95
Laborers	89,786	78,856	95,065	80,696	.408	.410	88	85
Stationary engineers and firemen	7,123	6,604	12,530	11,620	.603	.610	147	147
Transportation (other than train service, engine, and yard)	195,948	180,881	298,541	274,092				
Daily basis	*24,641*	*23,767*	*30,713*	*29,886*	*3.54*	*3.59*	*104*	*105*
Hourly basis	*171,307*	*157,114*	*267,828*	*244,206*	*.577*	*.585*	*130*	*130*
Train dispatchers and directors	5,252	5,022	17,820	17,034	1.249	1.256	283	283
Station agents—								
Nontelegraphers—								
Major stations—supervisory	2,466	2,436	7,648	7,566	[1] 9.50	[1] 9.48	258	259
Smaller stations—supervisory	5,134	4,929	11,361	10,990	.831	.842	184	186
Nonsupervisory	3,078	2,903	3,909	3,765	.498	.503	106	105
Telegraphers and telephoners	18,664	18,357	33,506	32,684	.653	.657	150	148
Clerks—telegraphers and telephoners	13,268	12,122	23,994	22,002	.649	.654	151	151
Telegraphers, telephoners, and towermen	23,187	21,792	43,390	40,773	.683	.689	156	156
Baggage agents and assistants	708	647	1,217	1,121	.593	.601	143	144
Baggage, parcel-room, and station attendants	8,378	7,837	11,020	10,219	.475	.478	110	109
Gang foremen (freight station, warehouse, grain elevator, and dock labor)	3,519	3,336	6,308	5,934	.672	.679	149	148
Callers, loaders, scalers, sealers, perishable-freight inspectors	14,979	13,392	19,500	16,034	.533	.530	108	100
Truckers	34,013	28,529	39,499	31,932	.466	.466	97	93
Laborers	6,361	5,770	7,390	6,487	.426	.428	97	94
Crossing and bridge flagmen and gatemen	20,602	19,835	19,100	18,563	[1] 2.60	[1] 2.63	77	78
Transportation (yardmasters, switch tenders, and hostlers)	21,788	20,303	51,877	47,867				
Daily basis	*6,813*	*6,366*	*22,331*	*20,664*	*8.98*	*8.98*	*273*	*270*
Hourly basis	*14,975*	*13,937*	*29,546*	*27,203*	*.691*	*.690*	*164*	*163*
Yardmasters and assistants	6,813	6,366	22,331	20,664	[1] 8.98	[1] 8.98	273	270
Switch tenders	5,232	4,851	9,436	8,691	.646	.646	150	149
Hostlers	8,068	7,498	16,977	15,585	.732	.732	175	173
Transportation (train and engine service)	314,404	283,710	791,256	684,030				
Hourly basis	*314,404*	*283,710*	*791,256*	*684,030*	*.842*	*.845*	*210*	*201*
Road passenger conductors	10,077	9,685	32,014	30,529	.952	.953	265	263
Road freight conductors	24,098	21,075	69,717	58,467	.858	.860	241	231
Road passenger baggagemen	5,477	5,353	13,314	12,929	.714	.716	203	201
Road passenger brakemen and flagmen	13,067	12,411	28,232	26,496	.669	.668	180	178
Road freight brakemen and flagmen	56,587	49,929	123,086	103,101	.680	.682	181	172
Yard conductors and yard foremen	21,880	19,602	55,910	48,110	.896	.897	213	205
Yard brakemen and yard helpers	53,267	48,011	116,878	99,406	.827	.827	183	173
Road passenger engineers and motormen	12,558	12,177	43,429	41,361	1.268	1.269	288	283
Road freight engineers and motormen	29,411	25,986	98,297	81,994	1.035	1.039	279	263
Yard engineers and motormen	21,859	19,441	57,986	49,798	.940	.941	221	213
Road passenger firemen and helpers	11,519	11,061	30,168	28,301	.994	.998	218	213
Road freight firemen and helpers	30,979	27,739	74,103	61,828	.783	.786	199	186
Yard firemen and helpers	22,325	19,948	44,675	38,263	.732	.733	167	160

[1] Daily basis.

Source: Interstate Commerce Commission.

No. 435.—CAPITALIZATION OF RAILROADS: ALL REPORTING COMPANIES

NOTE.—All amounts except "per mile of road" in millions of dollars. Switching and terminal companies excluded beginning with 1908; their total capitalization in 1929 was $714,824,000. Figures include both operating and nonoperating railways. The gross figures include considerable amounts of securities held by the companies issuing them as well as larger amounts held by other railway companies

Year	Total capitalization				Held by railroads		Net capitalization				
	Total	Common stock	Preferred stock	Funded debt	Stock	Funded debt	Total	Per mile of road (dollars)	Stock	Funded debt	Funded debt, per cent of total
June 30, 1890	8,984	3,803	606	4,575	964	443	7,577	----------	3,445	4,132	54.5
1895	10,347	4,202	760	5,385	1,052	396	8,900	----------	3,910	4,989	56.1
1900	11,491	4,522	1,323	5,645	1,470	473	9,548	----------	4,375	5,172	54.2
1905	13,805	5,181	1,374	7,251	2,070	568	11,167	----------	4,485	6,683	59.8
1910	18,417	6,710	1,403	10,303	2,555	1,486	14,376	62,819	5,559	8,817	61.3
Dec. 31, 1916	21,049	7,594	1,455	12,000	2,633	2,084	16,333	66,591	6,416	9,917	60.7
1917	21,249	7,455	1,848	11,947	2,720	2,128	16,402	66,699	6,583	9,819	59.9
1918	20,785	7,249	1,806	11,730	2,323	2,008	16,454	66,893	6,732	9,722	59.1
1919	20,950	7,193	1,898	11,859	2,314	2,086	16,550	67,170	6,777	9,773	59.1
1920	21,891	7,216	1,898	12,778	2,407	2,490	16,994	68,787	6,707	10,287	60.5
1921	22,202	7,275	1,800	13,216	2,402	2,807	17,083	69,816	6,673	10,409	60.9
1922	22,290	7,307	1,834	13,149	2,390	2,621	17,280	70,899	6,751	10,528	60.9
1923	22,839	7,398	1,852	13,589	2,402	2,626	17,810	73,417	6,847	10,963	61.6
1924	23,636	7,539	1,935	14,162	2,668	2,766	18,202	75,322	6,806	11,396	62.6
1925	23,644	7,602	1,937	14,105	2,654	2,800	18,190	74,460	6,885	11,305	62.1
1926	23,677	7,560	1,925	14,192	2,654	2,789	18,234	74,398	6,831	11,403	62.5
1927	23,615	7,683	1,980	13,952	2,907	2,571	18,137	73,984	6,756	11,381	62.7
1928	23,747	7,809	2,034	13,904	2,759	2,477	18,511	75,316	7,084	11,427	61.7
1929	23,983	7,853	2,065	14,065	2,705	2,598	18,680	75,598	7,213	11,467	61.4

No. 436.—RAILWAY STOCK OUTSTANDING, DIVIDENDS, AND INTEREST

NOTE.—Data relate to years ending June 30 prior to 1916 and to calendar years thereafter. Nonoperating as well as operating roads are included. Switching and terminal roads are excluded since 1908. Dividend figures throughout cover all classes of roads but interest figure for 1913 excludes the unimportant Class III roads. The amount of stock shown in the first column is exclusive of stock held by the issuing company but includes that held by other railway companies

Year or yearly average	Stock			Dividends			Interest accrued on funded debt (1,000 dolls.)
	Actually outstanding (1,000 dolls.)	Paying dividends (1,000 dolls.)	Per cent paying dividends	Amount declared (1,000 dolls.)	Per cent on stock paying dividends	Per cent on all stock outstanding	
1891–1895	----------	1,737,048	----------	94,093	5.42	----------	243,013
1896–1900	----------	1,977,832	----------	104,295	5.27	----------	249,548
1901–1905	----------	3,505,694	----------	199,752	5.70	----------	285,755
1906	----------	4,526,959	66.54	272,796	6.03	4.01	322,556
1907	----------	4,948,756	67.27	308,089	6.23	4.19	344,243
1908	7,300,739	4,843,371	65.69	390,695	8.07	5.30	368,296
1909	7,612,411	4,920,174	64.01	321,072	6.53	4.18	382,675
1910	8,010,730	5,412,578	66.71	405,771	7.50	5.00	399,582
1911	8,363,276	5,730,250	67.65	460,195	8.03	5.42	410,327
1912	8,552,447	5,581,289	64.73	400,315	7.17	4.64	429,027
1913	8,599,993	5,780,982	66.14	369,078	6.37	4.22	434,753
1914	8,654,215	5,667,073	64.39	451,653	7.97	5.13	442,595
1915	8,635,319	5,219,847	60.45	328,478	6.29	3.80	464,186
1916	8,755,404	5,430,123	62.02	366,561	6.75	4.19	481,426
1917	9,003,797	5,610,774	62.32	381,852	6.81	4.24	474,123
1918	8,846,717	5,138,851	58.09	339,186	6.60	3.83	468,286
1919	8,883,125	5,298,321	59.64	335,242	6.33	3.77	476,075
1920	8,843,100	5,075,040	57.30	331,103	6.52	3.74	500,354
1921	8,889,921	5,059,844	56.92	456,482	9.02	5.13	529,398
1922	8,961,637	5,321,347	59.38	338,806	6.37	3.78	538,594
1923	9,092,933	5,646,076	62.09	411,882	7.30	4.53	551,705
1924	9,300,054	6,042,268	64.97	385,130	6.37	4.14	588,301
1925	9,413,101	6,278,532	66.70	409,645	6.52	4.35	583,875
1926	9,365,272	6,473,280	69.12	473,683	7.32	5.06	581,709
1927	9,539,491	6,701,427	70.25	567,281	8.47	5.95	583,452
1928	9,722,079	7,159,989	73.65	510,018	7.12	5.25	578,831
1929	9,847,311	7,506,265	76.23	560,902	7.47	5.70	580,770

Source of Tables 435 and 436: Interstate Commerce Commission.

No. 437.—RAILWAY SECURITIES ACTUALLY OUTSTANDING

NOTE.—**All figures in thousands of dollars.** Capital actually outstanding represents securities in the hands of the public or of railway companies other than those issuing same; securities held by or for the issuing company are excluded. Switching and terminal companies are not included

Security and year ended Dec. 31—	All railroads				Class I	Class II	Class III	Non-operating subsidiaries
	All districts	Eastern district	Southern district	Western district				
Total:								
1916	19,630,610	7,506,045	2,880,243	9,244,322	16,088,847	660,027	143,862	2,737,874
1920	20,098,046	7,881,150	3,004,532	9,212,314	16,855,230	537,113	107,269	2,598,434
1925	21,734,096	8,527,168	3,444,426	9,762,502	18,098,164	437,022	86,157	3,112,753
1928	22,025,588	8,670,475	3,537,797	9,817,316	18,607,051	381,983	76,653	2,959,901
1929	22,306,752	8,869,135	3,552,996	9,884,621	18,822,429	359,154	71,169	3,054,000
Stock:								
1916	8,755,403	3,426,697	1,167,376	4,161,330	6,953,102	382,614	91,634	1,328,053
1920	8,843,100	3,474,212	1,166,809	4,202,079	7,209,735	286,688	67,247	1,279,430
1925	9,413,101	3,771,338	1,324,472	4,317,291	7,633,456	253,208	56,452	1,469,985
1928	9,722,079	4,063,179	1,362,100	4,296,800	8,079,978	226,633	52,451	1,363,017
1929	9,847,311	4,188,304	1,383,862	4,275,145	8,184,640	209,586	48,072	1,405,013
Funded debt:								
1916	10,875,207	4,079,348	1,712,867	5,082,992	9,135,745	277,413	52,228	1,409,821
1920	11,254,946	4,406,938	1,837,773	5,010,235	9,645,495	250,425	40,022	1,319,004
1925	12,320,995	4,755,830	2,119,954	5,445,211	10,464,708	183,814	29,705	1,642,768
1928	12,303,509	4,607,296	2,175,697	5,520,516	10,527,073	155,350	24,202	1,596,884
1929	12,459,441	4,680,831	2,169,134	5,609,476	10,637,789	149,568	23,097	1,648,987
1929								
Common stock	7,797,219	3,522,016	1,176,797	3,098,406	6,280,017	192,545	46,120	1,278,537
Preferred stock	2,050,092	666,288	207,065	1,176,739	1,904,623	17,041	1,952	126,476
Mortgage bonds	9,677,097	3,572,677	1,670,156	4,434,264	8,001,964	140,886	19,737	1,514,510
Collateral trust bonds	699,700	339,163	153,891	206,646	642,638	561	240	56,261
Income bonds	365,592	18,866	36,726	310,000	348,543	2,667	1,050	13,332
Miscellaneous obligations	722,424	327,821	62,664	331,939	662,172	2,329	1,785	56,138
Equipment obligations	994,628	422,304	245,697	326,627	982,472	3,125	285	8,746

No. 438.—PROPERTY INVESTMENT, INCOME, INTEREST, AND DIVIDENDS: REPORTED BY OPERATING ROADS

NOTE.—**All figures except as indicated in thousands of dollars.** Investment is as reported by the carrier and should not be confused with the tentative valuation fixed by the Interstate Commerce Commission. It relates only to railway property, but includes leased lines, which are not included, however, under the other columns. All data exclude switching and terminal companies

Year ended—	Investment [1]	Investment per mile of road	Net railway operating income	Return on investment	Other income	Interest, rents, and other deductions	Dividends declared
		Dollars		*Per cent*			
June 30, 1908	13,213,767	61,779	634,794	4.80	246,420	485,311	329,062
1909	13,609,184	61,391	710,474	5.22	175,706	498,016	272,043
1910 [2]	14,557,816	64,382	805,097	5.53	222,915	511,417	351,202
1913	16,588,603	69,780	806,801	4.86	243,599	564,414	327,967
1914	17,153,786	72,079	674,190	3.93	246,187	576,487	380,339
1915	17,441,420	73,208	694,276	3.98	189,300	575,198	264,267
1916	17,689,425	73,795	1,002,935	5.67	195,458	594,378	286,618
Dec. 31, 1916	17,842,777	74,466	1,058,506	5.93	213,324	623,180	311,876
1917	18,574,298	77,163	950,557	5.12	[3] 233,252	[3] 574,200	325,601
1918	18,984,756	78,820	646,223	3.40	[4]	[3] 667,558	279,929
1919	19,300,121	79,974	454,132	2.35	[4]	[3] 630,559	281,569
1920	19,849,320	81,954	12,101	.06	[4]	[3] 640,516	275,348
1921	20,329,224	84,530	601,139	2.96	[3] 375,001	[3] 662,375	403,991
1922	20,580,168	86,004	769,411	3.74	[3] 265,033	[3] 655,647	275,722
1923	21,372,858	89,619	974,918	4.56	[3] 260,655	[3] 667,616	353,127
1924	22,182,267	93,233	984,463	4.44	[3] 269,188	[3] 684,559	325,983
1925	[1] 23,230,916	94,917	1,136,728	4.89	[3] 268,142	[3] 688,387	349,089
1926	[1] 23,880,740	97,433	1,229,020	5.15	[3] 297,929	[3] 701,965	411,208
1927	[1] 24,453,871	99,546	1,077,843	4.41	[3] 311,198	[3] 706,284	503,146
1928	[1] 24,875,984	100,974	1,182,467	4.75	[3] 320,011	[3] 706,052	436,217
1929	[1] 25,465,036	103,197	1,262,636	4.96	[3] 359,747	[3] 714,638	495,245

[1] Prior to 1925 figures include investment of leased lines and exclude investment of proprietary companies which do not render annual reports. Beginning with 1925, the investment in road and equipment of proprietary companies is included as follows: 1925, $493,923,000; 1926, $831,574,000; 1927, $919,095,000; 1928, $1,013,752,000; 1929, $1,051,469,000. In this column no allowance is made for cash and material and supplies, and no deduction is made for depreciation.

[2] Investment originally published is increased by $170,000,000, estimated reserve for depreciation.

[3] Does not include returns for Class II and Class III companies.

[4] Figures not comparable on account of Federal control accounting requirements.

Source of Tables 437 and 438: Interstate Commerce Commission.

No. 439.—FREIGHT TRAFFIC: TRAIN AND CAR MOVEMENT

NOTE.—Figures prior to 1916 relate to years ended June 30, thereafter to calendar years. Switching and terminal roads excluded beginning with 1908. The tonnage "per loaded car" for "All roads" is based on revenue tonnage only; and for "Class I roads" on revenue and nonrevenue tonnage, with exception of the "District" figures for 1916–1920. Tons are of 2,000 pounds

Class and year or yearly average	Train-miles (thousands)	Car-miles (thousands)		Tons of revenue freight		Freight revenue		Average miles per car per day
		Loaded (revenue and nonrevenue)	Empty	Per train	Per loaded car	Per train-mile (dollars)	Per loaded car-mile (cents)	
All roads:								
1891–1895	467,299			184		1.62		
1896–1900	489,723			229		1.76		
1901–1905	519,896	9,631,628	4,320,390	304	17.4	2.35		
1906–1910	603,105	11,754,421	5,234,008	359	19.5	2.72		
1911–1915	608,512	13,369,203	6,169,216	432	20.7	3.19		
1916–1920	617,430	15,444,150	6,904,625	604	25.3	[1] 5.30		
1921–1925	577,844	15,243,111	8,096,532	621	24.6	[1] 7.28		
1907	629,996	12,021,326	5,098,572	357	19.7	2.74		
1908	587,218	11,128,231	5,153,181	352	19.6	2.65		
1909	568,855	11,360,655	5,242,995	363	19.3	2.76		
1910	635,451	12,851,295	5,408,337	380	19.8	2.86		
1911	626,496	12,859,386	5,832,515	383	19.7	2.90		
1912	612,345	13,038,332	5,767,144	407	20.2	3.02		
1913	[2] 643,841	[2] 14,271,944	[2] 6,120,861	[2] 445	[2] 21.1	[2] 3.24		
1914	607,872	13,686,818	6,531,274	447	21.1	[2] 3.31		
1915	552,004	12,939,535	6,594,287	476	21.1	[2] 3.47	[2] 15.5	
1916	632,304	15,855,103	6,779,225	552	22.8	[2] 3.93	[2] 16.3	
1917	646,402	15,911,203	6,780,872	588	24.8	[1] 4.27	[1] 17.7	
1918	628,436	14,995,557	7,167,144	621	27.0	[1] 5.33	[1] 22.9	
1919	560,499	14,273,422	6,531,570	623	25.4	[1] 6.14	[1] 24.8	[1] 23.0
1920	619,507	15,336,778	7,264,316	639	26.7	[1] 6.81	[1] 28.1	[1] 25.1
1921	519,817	12,449,086	7,309,102	567	24.6	[1] 7.38	[1] 31.4	[1] 22.4
1922	544,486	13,926,355	6,798,121	599	24.3	[1] 7.19	[1] 28.6	[1] 23.5
1923	631,167	16,374,750	8,536,002	632	25.2	[1] 7.19	[1] 28.1	[1] 27.8
1924	590,879	15,859,163	8,519,637	634	24.5	[1] 7.22	[1] 27.3	[1] 26.8
1925	602,873	16,836,710	9,319,706	663	24.6	[1] 7.41	[1] 26.9	[1] 23.5
1926	622,295	17,759,004	10,154,842	689	25.0	[1] 7.58	[1] 27.0	[1] 30.4
1927	598,435	17,390,777	10,298,061	690	24.6	[1] 7.59	[1] 26.6	[1] 30.3
1928	589,616	17,757,670	10,487,254	706	24.3	[1] 7.77	[1] 26.3	[1] 31.2
1929	598,343	18,169,092	10,805,302	718	24.5	[1] 7.86	[1] 26.4	[1] 32.3
Class I roads, total:								
1916–1920	604,422	15,156,421	6,836,894	613	25.4	5.30	21.9	
1921–1925	567,286	14,988,046	8,032,691	633	27.1	7.28	28.3	25.8
1926	610,980	17,640,926	10,077,357	701	27.4	7.58	27.0	30.4
1927	588,081	17,288,758	10,231,801	702	27.1	7.59	26.6	30.3
1928	579,809	17,663,240	10,423,988	718	26.6	7.77	26.3	31.2
1929	589,319	18,084,276	10,747,666	730	26.9	7.86	26.4	32.3
1930	538,064	15,838,741	9,961,136	713	26.7	7.58	25.8	28.7
Eastern district:								
1916–1920	244,387	6,512,690	3,059,466	738	28.1	6.05	23.0	
1921–1925	220,560	6,183,778	3,317,411	744	28.8	8.51	30.7	22.4
1926	239,823	7,185,667	4,079,957	795	28.8	8.70	29.4	26.5
1927	226,704	6,952,881	4,141,499	796	28.5	8.70	28.8	26.2
1928	217,831	7,072,068	4,170,945	828	27.7	9.07	28.3	26.8
1929	222,537	7,343,854	4,335,313	849	28.0	9.25	28.4	28.1
1930	193,931	6,241,507	3,900,286	825	27.5	8.93	27.8	24.5
Southern district:								
1916–1920	113,132	2,620,391	1,246,908	581	26.0	4.44	19.9	
1921–1925	118,509	2,857,938	1,614,396	632	29.3	6.15	26.1	30.0
1926	135,916	3,540,988	2,203,300	727	31.1	6.55	25.7	36.7
1927	127,386	3,409,143	2,176,295	735	30.7	6.66	25.4	36.8
1928	120,979	3,296,245	2,105,551	736	30.1	6.67	25.1	36.4
1929	121,007	3,360,201	2,144,137	752	30.3	6.79	25.1	37.7
1930	113,609	3,013,577	2,040,593	745	30.7	6.59	24.9	32.6
Western district:								
1916–1920	246,903	6,023,340	2,530,519	510	22.2	5.00	21.7	
1921–1925	228,277	5,946,330	3,100,884	531	24.3	6.70	26.9	28.2
1926	235,241	6,914,271	3,794,100	596	23.9	7.07	25.2	32.6
1927	233,991	6,926,734	3,914,007	598	23.9	7.05	24.9	32.5
1928	240,999	7,924,987	4,147,492	615	23.9	7.17	24.8	34.5
1929	245,775	7,380,221	4,268,216	616	24.1	7.15	24.9	35.2
1930	230,524	6,583,657	4,020,257	603	24.0	6.93	24.3	31.9

[1] Data available for Class I roads only. [2] Class I and Class II roads.

Source: Interstate Commerce Commission.

No. 440.—FREIGHT TRAFFIC: TONNAGE AND REVENUE

NOTE.—Figures before 1916 relate to years ended June 30; thereafter to calendar years. Switching and terminal roads excluded beginning with 1908. For certain principal items for individual years, 1890 to 1900, see Table 444, p. 427. Tons are of 2,000 pounds

Class and year or yearly average	Tons of revenue freight carried (thousands)		Tons carried 1 mile (millions)		Revenue ton-miles per mile of road	Average haul, revenue freight (miles)		Freight revenue	
	Originated	Total	Revenue freight	Revenue and nonrevenue		System	Individual road	Amount (1,000 dolls.)	Per ton-mile (cents)
All roads:									
1891–1895		692,446	85,693		506,809		123.75	758,930	0.886
1896–1900		874,389	113,962		611,128		130.33	879,837	.772
1901–1905	691,120	1,266,313	167,715		820,016	242.67	132.44	1,298,713	.774
1906–1910	930,254	1,673,431	228,936		1,006,849	246.10	136.81	1,744,525	.762
1911–1915	1,074,121	1,903,074	277,073		1,104,718	257.95	145.59	2,051,625	.740
1916–1920	1,325,772	2,378,164	390,815		1,510,297	294.78	164.33	3,419,260	.875
1921–1925	1,231,193	2,216,318	375,468		1,455,688	304.96	169.41	4,377,618	1.166
1901	583,692	1,089,226	147,077		760,414	251.98	135.03	1,118,543	.750
1902	657,847	1,200,316	157,289		793,351	239.10	131.04	1,207,229	.757
1903	714,768	1,304,394	173,221		855,442	242.35	132.80	1,338,020	.763
1904	714,375	1,309,899	174,522		829,476	244.30	133.23	1,379,003	.780
1905	784,920	1,427,732	186,463		861,396	237.56	130.60	1,450,773	.766
1906	896,159	1,631,374	215,878		982,401	240.89	132.33	1,640,387	.748
1907	977,489	1,796,337	236,601		1,052,119	242.05	131.71	1,823,652	.759
1908	869,798	1,532,982	218,382		974,654	253.94	143.83	1,655,419	.754
1909	881,334	1,556,560	218,803		953,986	251.10	141.87	1,677,614	.763
1910	1,026,492	1,849,900	255,017		1,071,086	259.68	138.31	1,925,553	.753
1911	1,003,054	1,781,638	253,784		1,053,566	254.10	142.88	1,925,951	.757
1912	1,031,207	1,844,978	264,081		1,078,580	256.87	143.44	1,968,599	.744
1913	1,182,548	2,058,035	301,730		1,190,397	255.15	[2] 144.40	[1] 2,198,931	[1] .729
1914	1,129,992	2,002,026	288,637		1,125,084	255.43	144.17	2,126,717	.737
1915	1,023,803	1,828,692	277,135		1,075,962	270.69	151.55	2,037,926	.735
1916	1,317,246	2,347,396	366,173		1,409,957	277.98	155.99	2,631,092	.719
1917	1,382,005	2,453,423	398,263		1,538,211	288.18	162.33	2,897,436	.728
1918	1,376,845	2,477,092	408,778		1,582,796	296.89	165.02	3,522,052	.862
1919	1,189,765	2,185,285	367,161		1,423,390	308.60	168.60	3,624,886	.987
1920	1,362,999	2,427,622	413,699		1,597,133	303.52	170.41	4,420,833	1.069
1921	1,017,818	1,808,836	309,533		1,199,328	304.11	171.12	4,004,109	1.294
1922	1,111,822	1,974,618	342,188		1,330,460	307.77	173.29	4,085,742	1.194
1923	1,387,755	2,503,117	416,256		1,615,741	299.94	166.29	4,712,495	1.132
1924	1,287,413	2,331,291	391,945		1,581,556	304.44	168.12	4,437,380	1.132
1925	1,351,155	2,463,725	417,418		1,613,862	308.93	169.43	4,648,364	1.114
1926	1,430,612	2,627,492	447,444		1,732,295	310.81	170.29	4,905,981	1.096
1927	1,372,547	2,510,054	432,014		1,668,800	314.75	172.11	4,728,885	1.095
1928	1,371,359	2,504,196	436,087		1,677,089	318.00	174.14	4,771,562	1.094
1929	1,419,383	2,584,333	450,189		1,727,786	317.17	174.20	4,899,168	1.088
Class I Roads:									
1921–1925	1,135,499	2,068,262	372,216	409,740	1,581,865	327.80	179.97	4,277,134	1.149
1926	1,336,142	2,465,369	443,746	486,265	1,875,304	332.11	179.99	4,797,780	1.081
1927	1,281,611	2,363,639	428,737	471,793	1,801,414	334.53	181.39	4,632,321	1.080
1928	1,285,943	2,361,623	432,915	473,774	1,802,703	336.65	183.31	4,680,456	1.081
1929	1,339,091	2,451,601	447,322	489,887	1,851,620	334.05	182.46	4,815,448	1.076
1930	1,153,197	2,063,078	383,788	422,117	1,596,523	332.80	186.04	4,079,009	1.063
Eastern district:									
1921–1925	510,141	1,112,147	166,644	178,569	2,827,013	326.66	149.84	1,906,544	1.144
1926	580,200	1,309,242	193,717	207,798	3,284,052	333.88	147.96	2,120,301	1.094
1927	541,075	1,237,669	183,739	198,474	3,115,925	339.58	148.46	2,008,136	1.093
1928	545,968	1,238,607	183,518	196,783	3,091,354	336.13	148.16	2,011,314	1.096
1929	576,718	1,294,927	192,331	206,560	3,195,743	333.49	148.53	2,096,611	1.090
1930	495,974	1,055,454	160,062	171,432	2,697,823	322.72	149.85	1,732,153	1.082
Southern district:									
1921–1925	234,018	353,728	77,047	84,282	1,756,460	329.24	217.81	749,632	.973
1926	310,578	461,263	101,426	110,692	2,282,063	326.57	219.89	913,966	.901
1927	308,893	449,753	96,339	105,219	2,128,963	311.88	214.20	871,910	.905
1928	294,173	427,027	91,958	99,761	2,011,439	312.60	215.34	833,977	.907
1929	295,468	429,575	94,252	102,464	2,059,919	318.99	219.41	851,042	.903
1930	261,144	383,374	84,622	92,554	1,845,923	324.04	222.26	749,194	.885
Western district:									
1921–1925	391,340	602,387	128,525	146,889	970,062	328.42	213.36	1,620,958	1.261
1926	445,364	694,864	148,603	167,775	1,115,686	333.67	213.86	1,763,513	1.187
1927	431,643	676,217	148,629	168,100	1,111,412	344.40	219.84	1,752,275	1.179
1928	445,802	695,989	157,439	177,230	1,165,653	353.16	226.21	1,835,165	1.166
1929	466,905	727,099	160,739	180,863	1,184,992	344.26	221.07	1,867,795	1.162
1930	396,079	624,250	139,104	158,131	1,028,744	351.20	226.53	1,597,662	1.149

[1] Class I and Class II roads.
[2] Data included for Class II and Class III roads are partially estimated.

Source: Interstate Commerce Commission.

No. 441.—REVENUE AND TRAFFIC BY MONTHS: CLASS I CARRIERS

NOTE.—Except at times of general revisions in freight rates changes in freight revenue are closely parallel to those of ton mileage. Data except as indicated include Class I switching and terminal companies

Year	Average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TOTAL OPERATING REVENUES (millions of dollars)													
1910 [1]	234.7	209.1	200.7	235.7	223.9	232.5	236.2	231.5	253.0	254.8	261.2	244.9	233.2
1911	231.2	211.6	196.0	223.5	214.9	226.2	228.4	228.9	249.9	253.6	261.9	244.2	234.9
1912	249.8	209.2	216.1	235.8	219.2	232.3	242.9	253.0	275.8	274.4	298.2	275.9	264.4
1913	260.9	247.0	229.9	245.9	242.3	262.1	258.9	266.3	279.6	283.4	296.3	266.6	252.4
1914	244.0	231.3	207.1	247.5	235.4	237.7	249.3	256.0	267.1	269.6	266.6	233.8	226.3
1915	256.6	214.1	205.1	231.5	231.0	237.9	249.5	259.2	273.1	287.2	303.7	299.1	238.1
1916	302.1	260.9	262.8	290.2	282.0	301.0	300.0	303.2	327.2	325.3	338.7	322.7	311.1
1917	337.4	300.8	265.4	317.1	319.3	345.9	349.7	348.4	366.2	358.8	382.5	357.3	337.1
1918	410.5	285.4	290.0	366.4	371.6	379.0	395.2	470.4	504.7	489.7	490.8	440.9	441.5
1919	432.0	397.2	352.4	377.4	389.5	413.9	426.1	455.3	471.7	498.6	509.8	438.1	453.4
1920	519.0	500.8	424.6	460.2	402.3	457.6	494.7	529.1	555.5	618.9	641.8	592.1	550.6
1921	464.2	470.4	406.5	459.0	433.4	444.9	461.6	462.9	505.7	498.3	536.7	465.9	425.3
1922	468.3	395.8	401.6	475.2	417.1	449.4	474.0	443.8	474.1	500.9	550.3	523.6	513.6
1923	523.9	502.5	446.9	535.8	523.3	548.1	541.3	536.3	564.5	546.1	587.9	532.0	494.6
1924	499.0	469.0	479.5	505.4	475.2	477.5	465.7	481.8	508.5	541.0	572.9	505.9	505.2
1925	515.6	485.0	455.2	486.7	473.7	489.0	507.0	522.5	555.5	565.6	591.5	533.0	524.1
1926	538.8	481.4	460.8	531.5	500.5	518.0	541.4	557.9	580.3	591.2	610.4	562.3	527.7
1927	517.6	487.6	469.6	531.6	498.9	519.6	517.5	509.7	557.8	565.5	581.0	504.3	467.7
1928	515.7	458.2	456.8	506.1	475.1	511.5	503.2	513.7	558.8	556.9	618.8	532.1	496.8
1929	529.9	487.5	476.2	517.6	514.7	538.6	532.6	558.4	587.3	567.4	609.4	499.8	469.4
1930	445.2	451.2	427.9	452.7	451.2	463.1	444.8	457.0	466.4	467.5	483.5	398.8	377.9
FREIGHT REVENUE (millions of dollars)													
1914	166.0	156.1	140.9	174.3	160.2	159.0	164.1	168.5	177.0	185.1	188.8	163.3	154.3
1915	178.9	147.2	143.3	163.4	161.9	165.3	168.8	170.3	181.0	198.7	220.6	219.3	206.4
1916	214.6	185.9	191.1	212.3	202.7	217.9	208.1	204.2	227.3	228.8	245.6	236.4	214.6
1917	236.1	211.7	185.1	227.3	227.9	251.9	247.3	241.6	250.3	242.2	271.4	254.7	221.7
1918	288.2	188.8	198.6	259.9	264.5	263.3	263.8	328.4	350.9	342.1	365.4	322.6	309.7
1919	296.3	278.4	242.3	256.0	265.7	286.7	284.3	306.5	313.8	346.7	368.5	303.5	303.7
1920	360.6	311.6	299.2	324.6	268.8	314.1	340.3	356.1	369.6	438.9	480.4	436.9	386.6
1921	327.2	324.9	284.2	320.8	304.8	313.1	322.2	314.8	353.8	354.8	402.0	342.4	288.7
1922	334.1	277.1	294.6	354.3	288.9	319.6	331.9	299.6	326.5	355.9	406.4	389.9	364.2
1923	385.5	367.0	326.8	398.8	386.3	405.5	387.3	379.3	402.1	390.9	441.5	395.9	344.1
1924	362.4	333.4	352.7	371.7	342.9	344.8	323.4	340.1	358.5	399.2	439.0	381.0	362.2
1925	379.4	350.8	336.9	360.8	347.2	359.4	366.1	377.5	403.4	419.7	450.6	402.5	379.5
1926	401.7	347.8	340.8	402.0	370.6	385.5	397.8	409.5	429.6	445.0	472.4	433.5	384.9
1927	387.5	358.1	354.1	406.6	371.6	391.3	382.2	370.1	415.3	426.9	452.9	386.0	334.9
1928	391.4	338.0	346.3	388.4	356.6	391.7	370.8	382.2	421.8	424.1	493.1	415.9	368.1
1929	402.6	367.2	363.8	393.9	393.7	412.8	391.1	417.1	446.6	435.5	483.6	384.5	341.2
1930	340.4	338.0	327.1	345.2	345.8	354.3	331.6	347.3	354.7	363.5	385.7	311.0	280.9
PASSENGER REVENUE (millions of dollars)													
1918	86.0	66.5	62.3	73.1	72.5	79.2	94.8	104.7	113.8	105.9	84.8	81.8	93.0
1920	107.3	91.9	82.6	92.6	93.0	98.9	107.4	123.2	132.9	129.9	113.9	106.7	114.8
1922	89.7	83.7	73.6	80.6	83.5	85.5	96.0	100.7	101.6	97.5	90.2	84.8	98.5
1924	89.7	91.7	83.4	87.1	85.2	85.6	96.0	97.4	104.6	93.2	82.9	78.8	90.9
1926	87.0	89.6	78.6	80.8	80.7	82.8	92.5	97.9	99.0	92.7	82.2	77.4	89.7
1927	81.4	86.0	74.3	76.7	77.4	78.6	86.0	91.7	91.7	86.3	75.2	70.9	81.9
1928	75.2	78.6	69.5	70.6	71.1	70.4	81.8	82.8	85.2	80.2	69.7	65.3	76.7
1929	72.8	75.0	68.4	71.9	67.5	68.9	79.3	79.6	84.3	75.8	66.2	62.5	74.5
1930	60.8	70.5	61.3	61.8	59.6	60.4	67.1	65.8	67.4	59.1	52.4	48.7	55.4
FREIGHT TON-MILES (millions) [2]													
1918	36,410	27,620	29,678	37,706	37,993	37,507	37,668	39,347	40,776	39,579	39,842	35,564	33,639
1919	32,814	30,356	25,630	28,813	28,593	32,276	31,881	34,916	36,416	38,678	40,361	32,497	33,353
1920	37,445	34,964	32,958	37,865	28,592	37,892	38,246	40,449	42,734	40,998	42,570	37,349	34,726
1921	34,478	29,784	24,915	26,816	25,591	28,220	28,146	28,402	30,420	30,864	36,672	29,222	35,723
1922	31,320	27,151	28,451	32,941	24,735	27,940	29,062	27,115	30,472	34,334	39,287	38,077	36,271
1923	38,133	37,707	32,628	39,222	38,321	39,598	38,001	38,518	40,344	39,461	42,210	38,158	33,427
1924	35,803	34,510	35,982	36,426	31,926	33,915	31,968	33,185	36,457	39,064	43,134	38,067	35,006
1925	38,007	37,026	33,570	35,332	33,571	37,126	35,854	37,944	41,709	41,305	44,054	40,775	37,856
1926	40,725	37,680	35,405	38,669	36,300	39,834	39,252	41,717	43,734	44,346	48,296	43,360	40,116
1927	39,559	39,233	37,259	41,817	37,111	40,118	38,477	38,369	41,984	42,959	45,537	37,250	34,592
1928	39,769	36,289	35,723	39,486	35,887	39,263	37,307	39,153	42,425	43,791	48,234	41,991	37,673
1929	41,026	39,210	38,140	40,228	38,346	41,846	40,740	42,009	44,950	44,222	47,836	38,741	36,046
1930	35,170	36,664	34,341	35,310	34,894	36,576	34,419	35,580	37,421	36,220	39,292	32,295	29,026

[1] Returns for January to October, inclusive, do not include switching and terminal companies.
[2] Exclusive of switching and terminal companies.

Source: Interstate Commerce Commission.

No. 442.—PASSENGERS CARRIED AND PASSENGER REVENUE

NOTE.—Figures relate to years ended June 30 prior to 1916, to calendar years thereafter. Passenger service revenue per train-mile includes revenue from mail, express, etc., but average revenue per passenger-mile is computed only from revenue from passengers themselves

Class and year or yearly average	Passengers carried (thousands)	Passengers carried 1 mile (millions)	Average journey per passenger (miles)	Passenger train-miles (thousands)	Passenger train car-miles (thousands)	Passenger revenue (thousand dollars)	Passenger service train revenue per train-mile	Revenue per passenger per mile (cts.)	Average passengers per train
All roads:									
1891–1895	546,762	13,383	24.48	321,031	----------	281,415	$1.05	2.10	42
1896–1900	520,459	13,863	26.64	345,457	----------	279,900	.99	2.02	39
1901–1905	681,261	20,737	30.44	423,244	----------	416,609	1.11	2.01	45
1906–1910	885,003	28,683	32.41	509,868	----------	566,815	1.26	1.98	53
1911–1915	1,018,804	33,768	33.14	587,501	3,264,399	672,792	1.32	1.99	54
1916–1920	1,152,566	42,548	36.92	560,364	3,416,933	1,021,536	[1] 2.13	2.40	[1] 72
1921–1925	982,320	36,869	37.53	571,455	3,603,117	1,112,634	[1] 2.47	3.02	[1] 65
1901	607,278	17,354	28.58	385,173	----------	351,356	1.03	2.01	42
1902	649,879	19,690	30.30	405,613	----------	392,963	1.09	1.99	45
1903	694,892	20,916	30.10	425,142	----------	421,705	1.12	2.01	46
1904	715,420	21,923	30.64	440,465	----------	444,327	1.14	2.01	46
1905	738,835	23,800	32.21	459,827	----------	472,695	1.16	1.96	48
1906	797,946	25,167	31.54	479,038	----------	510,033	1.20	2.00	49
1907	873,905	27,719	31.72	509,328	----------	564,606	1.26	2.01	51
1908	890,010	29,083	32.86	605,946	2,705,660	566,833	1.27	1.94	54
1909	891,472	29,109	32.85	606,011	2,746,511	563,609	1.27	1.93	54
1910	971,683	32,338	33.50	549,015	2,998,171	628,992	1.30	1.94	56
1911	997,410	33,202	33.48	572,929	3,136,774	657,638	1.31	1.97	55
1912	1,004,081	33,132	33.18	585,854	3,235,634	660,373	1.29	1.99	53
1913	1,043,603	34,673	33.31	[2] 593,061	[2] 3,320,488	[2] 695,988	[2] 1.36	[2] 2.01	[2] 55
1914	1,063,249	35,357	33.25	605,212	3,399,604	703,484	[2] 1.34	1.99	[2] 56
1915	985,676	32,475	32.95	580,448	3,229,496	646,475	[2] 1.31	1.99	[2] 53
1916	1,048,987	35,220	33.58	595,441	3,409,639	722,359	[2] 1.44	2.05	[2] 56
1917	1,109,943	40,100	36.13	593,338	3,485,788	840,910	[1] 1.69	2.10	[1] 65
1918	1,122,963	43,212	38.48	544,327	3,276,489	1,046,166	[1] 2.23	2.42	[1] 76
1919	1,211,022	46,838	38.68	553,147	3,446,787	1,193,431	[1] 2.46	2.55	[1] 82
1920	1,269,913	47,370	37.30	574,826	3,618,617	1,304,815	[1] 2.78	2.76	[1] 80
1921	1,061,131	37,706	35.53	568,242	3,503,514	1,166,252	[1] 2.51	3.09	[1] 67
1922	939,509	35,811	36.19	553,919	3,445,869	1,087,516	[1] 2.50	3.04	[1] 65
1923	1,008,538	38,294	37.97	573,938	3,616,342	1,158,925	[1] 2.56	3.03	[1] 67
1924	950,459	36,368	38.26	579,384	3,676,746	1,085,672	[1] 2.41	2.99	[1] 63
1925	901,963	36,167	40.10	581,792	3,773,114	1,064,806	[1] 2.37	2.94	[1] 63
1926	874,589	35,673	40.79	584,972	3,862,610	1,049,210	[1] 2.33	2.94	[1] 61
1927	840,030	33,798	40.23	578,355	3,850,116	980,528	[1] 2.23	2.90	[1] 59
1928	798,476	31,718	39.72	570,038	3,815,337	905,271	[1] 2.13	2.85	[1] 56
1929	786,432	31,165	39.63	568,095	3,870,903	875,929	[1] 2.18	2.81	[1] 55
Class I roads:									
1916–1920	1,114,055	41,989	37.69	556,495	3,406,925	1,005,690	2.13	2.40	72
1921–1925	962,153	36,556	37.99	558,568	3,572,292	1,100,602	2.47	3.01	65
1926	862,361	35,478	41.14	573,627	3,836,788	1,041,816	2.33	2.94	61
1927	829,918	33,650	40.55	568,538	3,830,557	974,951	2.23	2.90	59
1928	790,327	31,601	39.99	561,600	3,798,733	901,019	2.13	2.85	56
1929	780,468	31,074	39.81	560,692	3,857,133	872,466	2.18	2.81	55
1930	704,053	26,823	38.10	543,656	3,725,324	728,505	-------	2.72	49
Eastern district:									
1921–1925	642,356	18,636	29.01	230,179	1,507,410	528,429	2.84	2.84	81
1926	608,365	18,762	30.84	238,329	1,634,092	523,475	2.77	2.79	78
1927	591,510	18,165	30.71	236,208	1,640,957	502,365	2.70	2.77	76
1928	571,801	17,386	30.41	234,585	1,634,510	474,824	2.61	2.73	74
1929	567,555	17,273	30.43	237,146	1,685,532	467,229	2.65	2.71	73
1930	521,339	15,377	29.49	227,946	1,629,768	403,658	-------	2.63	67
Southern district:									
1921–1925	108,845	5,191	47.69	96,314	582,587	174,435	2.22	3.36	53
1926	88,671	5,187	58.49	103,399	667,380	173,755	2.10	3.35	50
1927	85,609	4,508	52.65	100,870	642,168	147,282	1.87	3.27	44
1928	79,005	4,034	51.05	97,391	617,691	129,565	1.75	3.21	41
1929	75,985	3,762	49.51	95,171	612,382	118,804	1.75	3.16	39
1930	64,173	3,065	47.76	94,010	598,532	94,091	-------	3.07	33
Western district:									
1921–1925	210,952	12,729	60.34	232,075	1,482,295	397,738	2.21	3.12	54
1926	165,325	11,529	69.74	231,899	1,535,316	344,586	1.99	2.99	49
1927	152,799	10,977	71.84	231,460	1,547,432	325,304	1.90	2.96	47
1928	139,521	10,181	72.97	229,624	1,546,532	296,630	1.81	2.91	44
1929	136,928	10,039	73.32	228,375	1,559,219	286,433	1.87	2.85	44
1930	118,541	8,381	70.70	221,700	1,497,024	230,756	-------	2.75	38

[1] Data available for Class I only.

[2] Class I and Class II roads.

Source: Interstate Commerce Commission.

No. 443.—REVENUES, EXPENSES, AND INCOME OF OPERATING COMPANIES

NOTE.—Data relate to years ended June 30 prior to 1916, to calendar years thereafter. The method of calculating net revenue and net operating income is more fully shown in Table 447. Switching and terminal companies are excluded beginning with 1908. For certain principal items for individual years 1890 to 1900, see Table 445, p. 427

Class and year or yearly average	Average miles of line (first track) operated	Income account items (thousands of dollars)					Per mile of line		Per cent operating expenses of revenues
		Operating revenues	Operating expenses	Net revenue from operations	Tax accruals	Net railway operating income	Operating revenues	Net revenue from operations	
All roads:									
1891–1895	169,378	1,127,531	759,588	367,942	34,915	333,027	$6,657	$2,172	67.37
1896–1900	186,001	1,264,048	832,377	431,671	41,970	389,701	6,796	2,321	65.85
1901–1905	206,050	1,854,682	1,226,737	627,945	53,106	574,840	9,001	3,048	66.14
1906–1910	229,404	2,528,171	1,705,542	822,630	80,931	727,407	11,021	3,586	67.46
1911–1915	246,952	3,007,262	2,123,282	883,980	123,345	729,172	12,164	3,578	70.61
1916–1920	258,295	4,870,468	3,971,453	899,015	227,680	624,304	18,856	3,481	81.54
1921–1925	257,932	6,003,699	4,684,135	1,319,563	328,822	899,332	23,276	5,116	78.02
1901	195,562	1,588,526	1,030,397	558,129	46,708	511,421	8,123	2,854	64.86
1902	200,155	1,726,380	1,116,249	610,131	50,054	560,077	8,625	3,048	64.65
1903	205,314	1,900,847	1,257,539	643,308	53,252	590,056	9,258	3,133	66.16
1904	212,243	1,975,174	1,338,896	636,278	56,802	579,476	9,306	2,998	67.79
1905	216,974	2,082,482	1,390,602	691,880	58,712	633,168	9,598	3,189	66.78
1906	222,340	2,325,765	1,536,877	788,888	69,064	719,824	10,460	3,548	66.08
1907	227,455	2,589,106	1,748,516	840,590	73,743	766,846	11,383	3,696	67.53
1908	227,257	2,440,639	1,710,402	730,237	78,674	634,794	10,740	3,213	70.08
1909	232,981	2,473,205	1,650,034	823,171	85,140	710,474	10,615	3,533	66.72
1910	236,987	2,812,142	1,881,879	930,263	98,035	805,097	11,866	3,925	66.92
1911	243,434	2,852,855	1,976,332	876,523	102,657	744,669	11,719	3,601	69.28
1912	246,829	2,906,416	2,035,058	871,358	113,819	727,458	11,775	3,530	70.02
1913	[1] 242,677	[1] 3,193,118	[1] 2,235,923	[1] 957,195	[1] 122,005	[1] 805,266	[1] 13,159	[1] 3,945	[1] 70.02
1914	254,775	3,127,730	2,280,416	847,314	140,470	674,190	12,276	3,326	72.91
1915	256,214	2,956,193	2,088,683	867,510	137,775	694,276	11,538	3,386	70.65
1916	257,325	3,691,065	2,426,251	1,264,815	161,825	1,058,506	14,344	4,915	65.73
1917	258,913	4,115,413	2,906,283	1,209,130	218,632	950,557	15,895	4,670	70.62
1918	258,263	4,985,290	4,071,522	913,768	229,533	646,223	19,303	3,538	81.67
1919	257,949	5,250,420	4,498,817	751,603	239,136	454,132	20,354	2,914	85.68
1920	259,026	6,310,151	5,954,394	355,757	289,272	12,101	24,361	1,373	94.36
1921	258,089	5,632,665	4,668,998	963,667	283,163	601,139	21,825	3,734	82.89
1922	257,195	5,674,483	4,509,991	1,164,492	308,145	769,411	22,063	4,528	79.48
1923	257,625	6,419,210	4,999,383	1,419,827	339,577	974,918	24,917	5,511	77.88
1924	258,104	6,045,252	4,608,807	1,436,445	347,437	984,463	23,422	5,565	76.24
1925	258,646	6,246,883	4,633,497	1,613,386	365,790	1,136,728	24,152	6,238	74.17
1926	258,295	6,508,679	4,766,235	1,742,444	396,538	1,229,020	25,199	6,746	73.23
1927	258,877	6,245,716	4,662,521	1,583,195	383,112	1,077,842	24,126	6,116	74.65
1928	260,026	6,212,464	4,508,606	1,703,858	395,631	1,182,467	23,892	6,553	72.57
1929	260,558	6,373,004	4,579,162	1,793,842	402,698	1,262,636	24,459	6,885	71.85
Class I roads:									
1916–1920	232,974	4,763,039	3,879,220	883,819	219,774	616,987	20,445	3,794	81.44
1921–1925	235,302	5,881,855	4,583,425	1,298,431	321,536	883,599	24,997	5,518	77.92
1926	236,626	6,382,940	4,669,337	1,713,603	388,923	1,213,090	26,975	7,242	73.15
1927	238,000	6,136,300	4,574,178	1,562,122	376,110	1,067,985	25,783	6,564	74.54
1928	240,148	6,111,736	4,427,995	1,683,741	389,432	1,172,864	25,450	7,011	72.45
1929	241,584	6,279,521	4,506,056	1,773,465	396,683	1,251,698	25,993	7,341	71.76
1930	242,166	5,281,668	3,931,010	1,350,658	348,791	869,085	21,810	5,577	74.43
Eastern district:									
1921–1925	58,947	2,668,020	2,125,217	542,803	128,138	364,374	45,261	9,208	79.66
1926	58,937	2,893,986	2,167,706	731,280	159,240	514,945	49,146	12,397	74.77
1927	58,963	2,758,469	2,096,757	661,712	152,390	450,276	46,779	11,222	76.01
1928	59,365	2,732,316	2,004,157	728,159	163,052	503,494	46,026	12,266	73.35
1929	60,184	2,840,428	2,070,313	770,115	164,988	541,325	47,196	12,796	72.39
1930	59,895	2,355,055	1,789,727	565,328	142,286	355,597	39,319	9,439	76.00
Southern district:									
1921–1925	43,865	992,307	762,100	230,207	54,088	170,826	22,622	5,248	76.80
1926	44,445	1,165,528	830,126	335,402	75,720	253,499	26,224	7,546	71.22
1927	45,251	1,090,867	798,113	292,754	72,463	217,771	24,107	6,470	73.16
1928	45,717	1,033,102	749,058	284,044	71,136	213,181	22,598	6,213	72.51
1929	45,755	1,046,451	748,737	297,714	72,811	225,951	22,871	6,507	71.55
1930	46,107	907,186	666,279	240,907	65,680	171,476	19,676	5,225	73.44
Western district:									
1921–1925	132,490	2,221,528	1,696,108	525,421	139,310	348,399	16,767	3,966	76.35
1926	133,194	2,318,426	1,671,505	646,921	153,963	444,646	17,406	4,857	72.10
1927	133,781	2,286,964	1,679,308	607,656	151,257	399,938	17,095	4,542	73.43
1928	135,066	2,346,318	1,674,780	671,538	155,244	456,189	17,372	4,972	71.38
1929	135,645	2,392,642	1,687,006	705,636	158,884	484,422	17,639	5,202	70.51
1930	136,164	2,019,427	1,475,004	544,423	140,825	342,012	14,831	3,998	73.04

[1] Class I and Class II roads.

Source: Interstate Commerce Commission.

No. 444.—FREIGHT TRAFFIC: TONNAGE AND REVENUE, 1890 TO 1900

NOTE.—Includes switching and terminal companies. Further data for freight traffic are presented in Table 440, p. 423. Tons are of 2,000 pounds

Year ended June 30—	Total tons of revenue freight carried (thousands)	Tons of revenue freight carried 1 mile (millions)	Freight revenue		Year ended June 30—	Total tons of revenue freight carried (thousands)	Tons of revenue freight carried 1 mile (millions)	Freight revenue	
			Amount (1,000 dollars)	Per ton-mile (cents)				Amount (1,000 dollars)	Per ton-mile (cents)
1890	636,542	76,207	714,464	0.941	1896	753,717	95,328	786,616	0.806
1891	675,608	81,074	736,794	.895	1897	728,900	95,139	772,849	.798
1892	706,555	88,241	799,316	.898	1898	863,629	114,078	876,728	.753
1893	745,119	93,588	829,054	.878	1899	943,715	123,667	913,737	.724
1894	638,187	80,335	699,491	.860	1900	1,081,983	141,597	1,049,256	.729
1895	696,761	85,228	729,993	.839					

Source: Interstate Commerce Commission.

No. 445.—REVENUES AND EXPENSES OF OPERATING COMPANIES, 1890 TO 1900

NOTE.—Includes switching and terminal companies. Further data for revenues and expenses are presented in Table 443, p. 426

Year ended June 30—	Average miles of line (first track) operated	Operating revenues (1,000 dollars)	Operating expenses (1,000 dollars)	Per cent operating expenses of revenues	Year ended June 30—	Average miles of line (first track) operated	Operating revenues (1,000 dollars)	Operating expenses (1,000 dollars)	Per cent operating expenses of revenues
1890	156,404	1,051,878	692,094	65.80	1896	181,983	1,150,169	772,989	67.20
1891	161,275	1,096,761	731,888	66.73	1897	183,284	1,122,090	752,525	67.06
1892	162,397	1,171,407	780,998	66.67	1898	184,648	1,247,326	817,973	65.58
1893	169,780	1,220,752	827,921	67.82	1899	187,535	1,313,610	856,969	65.24
1894	175,691	1,073,362	731,414	68.14	1900	192,556	1,487,045	961,429	64.65
1895	177,746	1,075,371	725,720	67.48					

Source: Interstate Commerce Commission.

No. 446.—OPERATING REVENUES AND EXPENSES OF ALL CLASSES OF RAILWAYS

Class	1928				1929			
	Operating revenues		Operating expenses		Operating revenues		Operating expenses	
	Amount (1,000 dollars)	Per cent of grand total	Amount (1,000 dollars)	Per cent of grand total	Amount (1,000 dollars)	Per cent of grand total	Amount (1,000 dollars)	Per cent of grand total
Class I	6,111,736	96.67	4,427,995	96.50	6,279,521	96.81	4,506,056	96.68
Class II	83,611	1.32	65,235	1.42	76,607	1.18	58,151	1.25
Class III	17,117	.27	15,375	.34	16,876	.26	14,955	.32
Total	6,212,464	98.26	4,508,605	98.26	6,373,004	98.25	4,579,162	98.25
Switching and terminal companies	109,711	1.74	80,029	1.74	113,171	1.75	81,315	1.75
Grand total	6,322,175	100.00	4,588,634	100.00	6,486,175	100.00	4,660,477	100.00

Source: Interstate Commerce Commission.

No. 447.—INCOME ACCOUNT OF CLASS I CARRIERS: OPERATING ROADS

NOTE.—All figures in thousands of dollars. Switching and terminal companies are excluded

Item	1916–1920 (average)	1921–1925 (average)	1926	1927	1928	1929	1930[1]
Revenues	4,763,039	5,881,856	6,382,939	6,136,300	6,111,736	6,279,521	5,281,688
Freight	3,336,480	4,277,134	4,797,780	4,632,321	4,680,456	4,815,448	4,083,537
Passenger	1,005,690	1,100,603	1,041,816	974,951	901,019	872,466	729,625
Mail	76,508	94,900	96,157	95,961	104,385	151,485	111,460
Express	118,933	137,886	149,049	143,365	142,580	148,191	114,666
All other transportation	92,041	129,878	143,773	141,005	140,051	139,551	119,385
All other	133,387	141,455	154,364	148,697	143,245	152,380	122,995
Expenses	3,879,220	4,583,425	4,669,337	4,574,178	4,427,995	4,506,056	3,931,010
Maintenance, way, etc.	663,681	781,577	866,819	868,581	837,906	855,355	705,324
Maintenance, equipment	1,040,185	1,297,802	1,283,091	1,219,052	1,166,942	1,202,912	1,019,310
Traffic	59,749	93,919	114,691	120,349	125,008	130,158	127,836
Transportation	1,947,814	2,194,358	2,171,904	2,127,506	2,061,141	2,072,043	1,848,331
All other	167,791	215,769	232,832	238,690	236,998	245,588	230,209
Net revenue from railway operations	883,819	1,298,431	1,713,602	1,562,122	1,683,741	1,773,465	1,350,658
Deduct—							
Tax accruals	219,774	321,536	388,923	376,110	389,432	396,683	348,791
Uncollectible revenues	868	1,895	1,851	1,492	1,579	1,163	1,045
Equipment rents	25,647	67,659	82,888	88,351	92,515	95,417	99,764
Joint facility rents	20,543	23,742	26,850	28,184	27,351	28,504	31,973
Net railway operating income	616,987	883,599	1,213,090	1,067,985	1,172,864	1,251,698	869,085

Item	Eastern district			Southern district			Western district		
	1928	1929	1930[1]	1928	1929	1930[1]	1928	1929	1930[1]
Revenues	2,732,316	2,840,428	2,355,055	1,033,102	1,046,451	907,186	2,346,318	2,392,642	2,019,427
Freight	2,011,314	2,096,611	1,729,084	833,977	851,042	749,192	1,835,165	1,867,795	1,605,261
Passenger	474,824	467,229	404,123	129,565	118,804	94,079	296,630	286,433	231,423
Mail	40,384	61,917	42,576	17,739	22,980	18,500	46,262	66,588	50,384
Express	65,138	68,025	51,400	21,126	22,486	16,920	56,316	57,080	46,346
All other transportation	73,400	75,012	64,547	13,005	13,123	11,560	53,646	51,416	43,278
All other	67,256	71,634	63,325	17,690	18,016	16,935	58,299	62,730	42,735
Expenses	2,004,157	2,070,313	1,789,727	749,058	748,737	666,279	1,674,780	1,687,006	1,475,004
Maintenance, way, etc.	345,821	360,075	298,454	145,888	148,797	123,948	346,197	346,483	282,922
Maintenance, equipment	543,557	570,677	473,539	207,474	211,685	181,844	415,911	420,550	363,927
Traffic	46,556	49,864	48,916	24,239	23,733	23,675	54,213	56,561	55,245
Transportation	962,331	981,071	863,626	333,890	326,681	299,264	764,920	764,291	685,441
All other	105,892	108,626	105,192	37,567	37,841	37,548	93,539	99,121	87,469
Net revenue from railway operations	728,159	770,115	565,328	284,044	297,714	240,907	671,538	705,636	544,423
Deduct—									
Tax accruals	163,053	164,988	142,286	71,136	72,811	65,680	155,243	158,884	140,825
Uncollectible revenues	874	409	442	244	311	177	461	443	426
Equipment rents	47,854	49,559	50,295	[2] 2,774	[2] 3,803	666	47,435	49,661	48,803
Joint facility rents	12,884	13,834	16,708	2,257	2,444	2,908	12,210	12,226	12,357
Net railway operating income	503,494	541,325	355,597	213,181	225,951	171,476	456,189	484,422	342,012

[1] Water line transportation apportioned to the several accounts; included in "All other" in prior years.
[2] Add.

Source: Interstate Commerce Commission.

No. 447.—TAXES AND SPECIAL ASSESSMENTS OF CLASS I CARRIERS, BY STATES

NOTE.—Data for 1910 relate to year ended June 30, thereafter to calendar years, and for all years exclude switching and terminal companies and include nonoperating subsidiaries. Data for 1910 include also Class II and Class III and for 1916, Class II. Total railroad taxes, Federal and State, in 1929, by classes were as follows: Class I and subsidiaries, $398,384,711 (including $1,121,271 Canadian, $2,625 Mexican, and $5,041 not distributed by States); Class II and subsidiaries, $5,058,296; Class III and subsidiaries, $968,440; switching and terminal companies, $14,767,757; grand total, $419,179,204

State	Amount (thousands of dollars)						Per mile of line (dollars)			
	1910	1916	1920	1925	1928	1929	1910	1920	1925	1929
Total	103,738	162,475	282,751	359,370	389,993	397,256	----	1,262	1,603	1,731
United States Government taxes	4,315	12,531	50,543	87,680	89,277	90,691	----	226	391	395
New England:										
Maine	675	1,026	1,725	1,977	2,109	1,771	301	831	977	896
New Hampshire	778	746	1,005	1,042	1,123	1,103	629	827	868	971
Vermont	257	491	451	453	373	405	251	608	592	517
Massachusetts	3,097	2,575	3,339	3,920	4,143	4,219	1,484	1,616	1,929	2,116
Rhode Island	276	397	585	604	673	664	1,302	2,996	3,348	3,684
Connecticut	1,868	1,114	1,975	2,058	1,999	2,007	1,867	1,977	2,138	2,086
Middle Atlantic:										
New York	7,312	11,724	17,861	22,613	25,358	25,716	877	2,271	2,876	3,277
New Jersey	5,006	7,656	11,189	17,355	18,817	19,170	2,290	5,292	8,466	9,342
Pennsylvania	6,352	9,957	9,342	11,134	13,500	14,037	587	945	1,131	1,392
South Atlantic:										
Delaware	161	153	165	182	169	165	482	493	609	565
Dist. of Columbia	56	64	79	126	118	127	1,562	2,291	3,661	3,662
Maryland	1,016	1,211	2,004	1,352	2,095	2,052	742	1,591	1,112	1,813
Virginia	1,756	3,012	4,695	5,614	7,255	6,994	400	1,129	1,375	1,686
West Virginia	1,454	2,355	3,879	6,046	6,943	7,206	463	1,195	1,744	1,972
North Carolina	952	1,706	2,129	4,748	5,354	5,317	220	552	1,322	1,379
South Carolina	764	1,001	1,951	2,840	3,227	3,372	232	623	911	1,038
Georgia	1,386	1,957	2,481	3,310	3,838	3,949	206	455	612	711
Florida	839	1,572	2,167	3,888	5,475	5,538	208	542	879	1,076
East North Central:										
Ohio	5,457	10,618	16,841	18,518	19,635	19,549	611	2,048	2,184	2,288
Indiana	3,845	5,803	9,422	11,627	14,129	13,952	521	1,328	1,684	2,026
Illinois	5,938	9,049	16,422	21,576	22,027	23,336	501	1,421	1,908	1,953
Michigan	4,052	4,220	7,579	7,656	9,555	9,656	469	1,083	1,076	1,313
Wisconsin	3,162	4,968	6,876	7,295	6,870	6,990	440	995	1,030	1,002
West North Central:										
Minnesota	3,958	6,445	9,753	7,965	8,187	8,173	461	1,151	962	988
Iowa	2,463	3,871	7,855	6,842	7,015	7,335	253	808	706	763
Missouri	1,830	2,258	3,359	3,716	4,039	4,182	230	457	498	550
North Dakota	1,427	2,289	4,997	4,290	4,272	4,364	341	969	834	849
South Dakota	834	1,635	3,718	3,161	2,684	2,732	211	900	752	645
Nebraska	2,031	2,704	4,159	4,747	4,507	4,613	335	677	770	747
Kansas	3,074	4,108	6,188	6,670	8,857	9,132	344	688	727	997
South Central:										
Kentucky	1,073	2,018	2,184	4,246	5,333	5,873	312	624	1,157	1,561
Tennessee	1,181	1,718	2,584	3,107	3,365	3,507	326	702	847	963
Alabama	1,410	1,751	2,548	2,687	3,756	3,712	297	560	603	803
Mississippi	997	1,916	3,612	5,064	5,021	5,319	250	942	1,364	1,389
West South Central:										
Louisiana	1,238	2,235	3,788	4,578	4,955	5,023	250	971	1,180	1,248
Texas	2,688	4,656	5,098	6,514	7,108	7,307	196	364	469	484
Oklahoma	2,967	3,653	5,463	5,682	5,961	6,009	499	864	917	941
Arkansas	1,347	2,248	3,912	2,663	3,267	3,088	277	948	622	712
Mountain:										
Montana	1,486	2,781	4,284	4,728	4,779	5,108	356	871	966	1,003
Wyoming	614	901	1,213	1,659	1,890	1,965	384	686	924	1,064
Colorado	1,637	2,451	3,344	3,719	3,950	4,119	306	729	828	939
New Mexico	745	1,179	2,467	2,212	2,749	2,849	254	915	796	1,016
Arizona	321	1,341	1,572	2,485	2,980	3,314	158	776	1,187	1,500
Utah	692	1,123	1,856	2,161	2,196	2,372	383	907	1,039	1,128
Nevada	668	1,028	1,543	1,762	1,882	2,011	388	942	1,088	1,187
Idaho	714	1,475	3,844	2,872	3,111	3,297	345	1,500	1,099	1,239
Pacific:										
Washington	3,151	4,064	8,795	6,647	7,508	7,002	685	1,698	1,309	1,383
Oregon	913	1,492	2,722	2,736	3,165	3,502	444	1,060	1,025	1,267
California	3,444	5,142	7,187	12,863	13,394	13,312	508	1,071	1,893	1,846

Source: Interstate Commerce Commission.

No. 449.—PRINCIPAL RAILWAY COMPANIES: MILES OF ROAD OPERATED AND

NOTE.—Totals for regions include

Region and road	Average mileage of road operated, 1930	Ton-miles of revenue freight (millions)		Operating revenues (thousands of dollars)		Operating expenses (thousand of dollars)	
		1929	1930	1929	1930	1929	1930
All regions	242,159	447,322	383,450	6,279,520	5,281,197	4,506,056	3,930,929
New England Region	7,343	9,453	8,401	274,759	237,145	193,896	168,558
1. Boston & Maine	2,090	2,993	2,667	78,481	69,278	59,409	50,866
2. N. Y., New Haven & Hartford	2,128	3,913	3,369	142,459	118,886	94,119	79,955
Great Lakes Region	27,683	77,328	72,495	1,144,870	1,020,663	850,414	796,554
1. Delaware & Hudson [1]	882	3,463	3,180	41,366	37,906	32,141	30,735
2. Del., Lackawanna & Western	998	4,582	3,821	81,743	69,661	57,720	52,613
3. Erie	2,046	9,038	7,632	113,611	95,373	88,751	76,148
4. Chicago & Erie	270	1,733	1,499	15,620	13,623	8,880	8,321
Total Erie and Chi. & Erie	2,316	10,771	9,131	129,231	108,996	97,631	84,469
5. Lehigh Valley	1,362	5,145	4,407	71,723	60,664	53,501	48,145
6. New York Central	11,422	23,028	30,483	396,917	478,918	302,614	376,729
7. N. Y., Chicago & St. Louis	1,662	5,291	4,410	56,385	46,533	39,807	35,112
8. Pere Marquette	2,253	3,541	2,775	48,468	37,216	34,345	29,030
9. Pittsburgh & Lake Erie	232	2,564	2,144	34,135	27,341	28,396	21,531
10. Wabash	2,524	6,107	5,237	76,633	61,971	56,275	47,250
Central Eastern Region	25,102	105,550	79,637	1,420,798	1,102,672	1,026,003	828,525
1. Baltimore & Ohio	5,658	20,658	17,198	245,419	206,660	180,570	153,142
2. Central R. R. Co. of New Jersey	692	2,827	2,548	58,137	51,754	42,218	38,167
3. Chicago & Eastern Illinois	946	2,104	1,683	25,398	19,784	19,693	21,701
4. Elgin, Joliet & Eastern	452	1,796	1,467	26,412	21,808	17,096	15,573
5. Long Island	404	174	176	41,326	39,596	27,735	26,106
6. Pennsylvania	10,892	48,991	40,936	682,703	570,465	493,151	427,183
7. Reading Co	1,458	6,874	6,371	97,197	86,923	75,930	72,161
Pocahontas Region	5,894	39,089	36,777	279,126	259,926	169,690	159,521
1. Chesapeake & Ohio	2,982	19,025	19,894	129,779	131,597	85,515	83,028
2. Norfolk & Western	2,240	16,730	13,984	117,632	100,530	66,051	59,676
Southern Region	40,082	55,163	47,010	767,325	641,628	579,047	503,009
1. Atlantic Coast Line	5,157	3,282	2,871	72,372	63,020	53,432	49,685
2. Central of Georgia	1,944	1,592	1,361	25,034	21,082	19,135	16,123
3. Illinois Central	5,019	13,864	11,081	153,184	125,093	117,833	96,296
4. Louisville & Nashville	5,251	12,581	10,990	132,056	112,441	104,547	92,494
5. Seaboard Air Line	4,495	3,195	2,941	58,152	49,679	42,588	39,650
6. Southern	6,731	8,351	7,168	143,184	118,869	102,702	89,163
7. Yazoo & Mississippi Valley	1,704	1,603	1,487	27,586	23,296	21,422	17,460
Northwestern Region	48,971	52,953	44,652	745,260	622,007	537,508	473,188
1. Chicago & North Western	8,459	8,903	7,570	154,733	130,030	115,286	101,091
2. Chicago, Milwaukee, St. Paul & Pacific	11,314	13,092	10,917	171,361	142,570	128,801	112,296
3. Chicago, St. Paul, Minneapolis & Omaha	1,741	1,691	1,582	27,219	24,436	22,069	20,517
4. Great Northern	8,367	10,151	8,727	125,933	104,996	82,863	72,566
5. Minneapolis, St. Paul & Sault Ste. Marie	4,390	3,574	2,964	48,654	39,893	35,321	31,296
6. Northern Pacific	6,789	6,594	5,421	96,522	80,642	70,552	62,734
7. Oregon-Washington R. R. & Navigation Co	2,356	1,680	1,413	29,225	24,565	22,690	19,789
Central Western Region	53,680	70,341	61,181	1,100,167	936,167	757,222	666,515
1. Atchison, Topeka & Santa Fe	9,630	12,591	10,873	220,567	185,262	143,325	129,875
2. Chicago & Alton	1,028	1,926	1,710	28,728	24,265	22,024	20,507
3. Chicago, Burlington & Quincy	9,333	12,874	11,356	162,410	141,379	111,566	98,878
4. Chicago, Rock Island & Pacific	7,593	9,399	8,074	139,471	116,384	104,024	86,260
5. Denver & Rio Grande Western	2,549	2,251	2,057	34,829	29,748	24,535	20,694
6. Oregon Short Line	2,538	2,744	2,400	39,462	33,992	25,555	23,117
7. Southern Pacific Co.—Pacific Lines	9,125	12,098	10,051	236,641	196,653	164,794	141,111
8. Union Pacific	3,765	8,914	8,040	121,100	108,345	79,044	71,069
Southwestern Region	33,404	37,445	33,297	547,215	460,989	392,276	335,064
1. Gulf, Colorado & Santa Fe	1,959	2,651	2,332	30,234	25,511	21,297	18,603
2. Missouri-Kansas-Texas	1,799	2,416	2,017	36,537	30,204	21,634	17,740
3. Missouri-Kansas-Texas of Texas	1,390	1,152	904	19,487	15,745	15,822	12,485
4. Missouri Pacific	7,451	11,052	10,364	139,808	120,188	102,903	89,010
5. St. Louis-San Francisco	5,269	5,145	4,439	84,938	70,956	59,440	50,125
6. Texas & New Orleans	4,710	4,387	3,704	74,328	62,105	54,905	46,533
7. Texas & Pacific	1,956	3,190	2,737	45,696	37,542	31,850	26,421

[1] Includes returns for the Delaware & Hudson Co. to March 31, 1930, and its successor, the Delaware & Hudson R. R. Corporation, subsequent thereto.

PRINCIPAL ITEMS OF TRAFFIC, REVENUES, AND EXPENSES OF LARGER COMPANIES

smaller roads of Class I not listed

Operating ratio (per cent)		Railway tax accruals		Net railway operating income		Freight revenue		Passenger revenue		Region and road
		Thousands of dollars								
1929	1930	1929	1930	1929	1930	1929	1930	1929	1930	
71.7	74.4	396,683	348,554	1,251,698	868,879	4,815,448	4,075,698	872,466	728,489	All regions.
70.6	71.1	14,683	13,281	54,828	43,768	169,829	145,899	70,075	62,717	New England.
75.7	73.4	3,496	3,532	12,642	12,251	51,917	45,242	16,235	14,400	1.
66.1	67.3	8,067	6,717	33,631	25,085	77,914	62,858	46,842	42,275	2.
74.3	78.0	67,371	62,637	206,759	133,822	855,965	762,491	171,039	156,914	Great Lakes.
77.7	81.1	1,038	1,438	8,165	5,869	35,173	32,731	3,284	2,732	1.
70.6	75.5	6,636	6,081	17,509	11,160	60,486	50,786	11,285	10,115	2.
78.1	79.8	4,943	4,474	10,035	13,690	93,327	77,755	10,411	9,306	3.
56.9	61.1	684	612	2,377	1,337	13,595	11,989	655	605	4.
75.6	77.5	5,627	5,086	21,462	15,027	106,922	89,744	11,066	10,002	Total 3 and 4.
74.6	79.4	3,689	2,680	12,939	8,538	59,359	50,288	6,506	5,512	5.
76.2	78.7	27,626	34,009	64,625	57,236	242,333	307,178	97,103	111,185	6.
70.8	75.5	3,055	2,568	10,472	5,649	52,251	42,730	1,983	1,985	7.
70.9	78.0	2,962	1,943	9,273	4,541	42,173	32,779	3,002	2,184	8.
83.2	78.8	2,117	1,694	7,892	7,373	30,533	24,690	2,239	1,780	9.
73.4	76.3	3,254	2,627	13,252	7,712	63,797	52,247	7,042	5,359	10.
72.2	75.1	82,934	66,683	279,737	179,022	1,070,817	824,972	226,114	184,126	Central Eastern.
73.6	74.1	11,966	10,327	49,184	40,249	205,489	173,703	22,139	18,568	1.
72.6	73.8	5,075	5,039	9,367	7,153	45,043	39,924	8,749	8,075	2.
77.5	109.7	1,670	1,683	2,209	5,505	19,535	15,388	3,410	2,619	3.
64.7	71.4	1,485	1,357	5,452	3,015	24,026	19,754	-------	2	4.
67.1	65.9	2,922	3,453	8,708	7,995	11,216	10,488	27,782	27,070	5.
72.2	74.9	40,519	35,662	133,140	92,182	482,896	399,303	129,584	113,803	6.
78.1	83.0	4,440	2,293	17,197	12,645	82,723	74,403	7,081	5,950	7.
60.8	61.4	21,663	22,203	93,317	81,879	250,933	235,268	15,519	12,643	Pocahontas.
65.9	63.1	8,645	9,799	37,832	39,515	118,056	120,715	6,308	5,365	1.
56.2	59.4	10,300	9,850	44,208	33,641	108,351	93,169	5,111	3,869	2.
75.5	78.4	51,147	42,974	132,635	88,406	600,109	508,807	103,285	81,272	Southern.
73.8	78.8	6,240	5,525	12,874	7,241	53,189	46,428	12,133	10,538	1.
76.4	76.5	1,530	1,323	4,508	3,669	19,061	16,289	3,432	2,726	2.
76.9	77.0	10,484	7,279	24,447	20,908	120,543	97,952	20,711	16,807	3.
79.2	82.3	7,566	6,234	20,828	14,007	107,641	93,402	15,473	11,637	4.
73.2	79.8	3,715	3,398	10,966	5,817	44,707	39,191	7,239	5,724	5.
71.7	75.0	9,321	8,384	30,031	19,708	107,962	91,799	22,005	17,129	6.
77.7	75.0	1,954	1,858	3,275	2,685	22,505	19,230	3,317	2,562	7.
72.1	76.1	51,123	46,026	142,987	89,631	588,231	498,992	79,077	61,759	Northwestern.
74.5	77.7	10,239	8,463	26,220	17,433	112,030	95,923	23,864	19,366	1.
75.2	78.8	9,649	9,501	26,274	15,955	137,176	115,638	16,753	12,682	2.
81.1	84.0	1,340	1,274	2,969	1,660	20,686	19,264	4,023	3,203	3.
65.8	69.1	9,201	8,713	32,458	21,913	101,179	85,798	11,298	9,000	4.
72.6	78.5	2,838	2,783	8,589	3,967	39,752	33,142	4,633	3,393	5.
73.1	77.8	9,211	7,481	21,410	14,293	76,862	65,135	9,821	7,728	6.
77.6	80.6	2,326	2,164	2,531	1,330	23,434	19,878	2,940	2,250	7.
68.8	71.2	80,201	71,008	237,945	172,303	833,349	718,625	152,121	125,676	Central Western.
65.0	70.1	18,196	16,521	58,706	38,444	164,454	139,884	34,603	28,539	1.
76.7	84.5	1,343	1,395	3,279	64	19,901	17,344	5,454	4,380	2.
68.7	69.9	12,025	11,192	35,358	27,956	126,778	111,157	18,818	15,360	3.
74.6	74.1	7,849	6,898	21,971	18,064	103,799	90,702	18,623	14,633	4.
70.5	69.6	2,395	2,170	8,529	6,941	28,542	24,951	3,440	2,595	5.
64.8	68.0	4,101	3,406	8,606	6,149	32,478	28,385	3,862	2,943	6.
69.6	71.8	18,086	15,330	48,024	34,674	164,484	138,007	39,212	34,292	7.
65.3	65.6	8,715	7,665	29,721	25,561	95,482	86,522	14,925	12,305	8.
71.7	72.7	27,561	23,742	103,490	80,048	446,215	380,644	55,236	43,382	Southwestern.
70.4	72.9	1,413	1,201	6,033	4,169	26,067	22,398	2,130	1,627	1.
59.2	58.7	2,653	1,707	11,552	9,655	30,441	25,319	3,080	2,554	2.
81.2	79.3	637	650	1,014	996	14,179	11,543	3,127	2,492	3.
73.6	74.1	6,250	5,429	24,554	20,790	114,345	99,779	13,023	10,211	4.
70.0	70.6	5,064	4,203	20,957	16,702	66,956	56,769	10,657	8,170	5.
73.9	74.9	4,175	3,912	11,697	8,425	57,730	48,859	10,333	8,231	6.
69.7	70.4	2,244	1,736	8,778	7,236	36,830	30,287	5,443	4,416	7.

Source: Interstate Commerce Commission

No. 450.—REVENUE FREIGHT CARRIED, BY COMMODITY GROUPS

NOTE.—All figures in thousands of tons of 2,000 pounds. Data relate to years ended June 30 prior to 1916, to calendar years thereafter. Switching and terminal roads excluded since 1908. Figures for 1911 to 1915, inclusive, exclude Class III roads but this affects the comparability very slightly; those after 1916 exclude both Class II and Class III, thereby reducing the grand total about 6 per cent. Nonrevenue freight is excluded; this is a large item in the case of a few commodities, notably coal

Class of road and year or yearly average	Total	Products of agriculture	Animals and products	Products of mines		Products of forests	Manufactures and miscellaneous	
				Coal and coke	Other		Carload shipments	Less than carload
I. REVENUE FREIGHT ORIGINATED								
All roads:								
1901–1905	[1] 691,121	59,406	16,608	237,753	85,803	72,786	119,707	27,800
1906–1910	[1] 930,255	73,864	20,000	324,282	147,864	98,879	162,225	33,991
1911–1915 [2]	[1] 1,053,648	99,095	25,731	392,808	192,058	101,143	181,191	41,314
1916 [2]	[1] 1,293,091	116,867	31,294	461,608	275,543	111,850	239,849	54,420
Class I:								
1916	[1] 1,203,367	113,635	30,473	429,781	250,342	93,819	231,038	52,911
1917	1,264,016	104,629	31,858	481,632	251,021	100,838	240,269	53,769
1918	1,203,344	116,051	35,777	500,769	234,027	97,256	226,077	53,387
1919	1,096,111	115,033	35,494	399,072	190,879	94,076	210,256	51,302
1920	1,255,421	110,840	26,595	489,344	222,810	100,766	251,864	53,202
1921	940,183	114,069	24,263	376,220	135,050	76,419	172,169	41,992
1922	1,023,745	111,787	26,230	351,846	181,152	89,059	220,442	43,229
1923	1,279,030	109,318	28,254	471,854	241,881	115,618	267,767	44,338
1924	1,187,296	116,587	27,747	414,499	223,083	108,094	256,737	40,549
1925	1,247,242	109,313	26,324	424,403	253,933	107,391	285,291	40,557
1926	1,336,142	111,787	26,243	436,944	270,759	104,851	296,067	39,491
1927	1,281,611	113,342	26,003	449,891	263,511	99,351	291,073	38,440
1928	1,285,943	118,022	25,634	432,2e6	264,287	96,737	312,013	36,954
1929	1,339,091	115,343	24,907	459,397	278,482	94,855	330,064	36,043
1930	1,153,197	110,729	23,129	407,937	234,600	69,370	277,765	29,667
Eastern district:								
1928	545,968	21,451	6,024	222,180	78,328	11,151	188,643	18,191
1929	576,718	20,967	5,853	238,608	81,451	10,531	201,512	17,796
1930	495,974	21,540	5,516	215,128	68,039	8,289	162,740	14,722
Southern district:								
1928	294,173	14,288	1,985	162,283	41,352	29,778	37,206	7,281
1929	295,468	14,865	1,837	168,770	35,971	29,659	37,284	7,082
1930	261,144	14,357	1,689	148,226	36,445	21,160	33,417	5,850
Western district:								
1928	445,802	82,283	17,625	47,833	144,607	55,808	86,164	11,482
1929	466,905	79,511	17,217	52,019	161,060	54,665	91,268	11,165
1930	396,079	74,832	15,924	44,583	130,116	39,921	81,608	9,095
II. TOTAL REVENUE FREIGHT [3]								
All roads:								
1901–1905	[1] 1,266,314	125,234	34,596	419,764	150,474	122,927	231,259	51,468
1906–1910	[1] 1,673,431	150,384	38,769	589,884	228,563	168,023	314,007	59,277
1911–1915 [2]	[1] 1,881,635	193,252	44,194	712,193	284,499	183,292	356,669	71,347
Class I:								
1916–1920	[1] 2,212,267	225,505	55,199	826,912	349,783	193,436	466,202	93,550
1921–1925	2,068,262	221,961	46,065	757,498	316,014	192,256	465,097	69,371
1926–1930	2,341,062	221,019	45,054	852,777	395,987	179,554	584,457	62,214
1926	2,465,369	223,924	47,023	926,854	414,723	204,790	579,830	68,225
1927	2,363,639	221,384	46,696	871,713	400,591	192,774	564,643	65,838
1928	2,361,623	225,550	45,724	838,085	396,400	187,347	605,256	63,261
1929	2,451,601	223,264	44,729	878,014	418,797	182,177	642,191	62,430
1930	2,063,078	210,971	41,097	749,218	349,424	130,684	530,368	51,316
Eastern district:								
1928	1,238,607	68,913	18,119	549,901	160,661	48,929	359,155	32,929
1929	1,294,927	67,566	17,962	576,405	172,937	46,426	381,115	32,516
1930	1,055,454	63,146	16,297	482,846	135,754	32,100	298,885	26,426
Southern district:								
1928	427,027	32,695	4,101	195,752	56,724	49,672	75,182	12,901
1929	429,575	33,794	3,888	202,561	50,065	49,524	77,128	12,615
1930	383,374	32,717	3,640	181,707	50,895	35,257	68,530	10,628
Western district:								
1928	695,989	123,942	23,504	92,432	179,015	88,746	170,919	17,431
1929	727,099	121,904	22,878	99,048	195,795	86,227	183,948	17,299
1930	624,250	115,108	21,160	84,665	162,775	63,327	162,953	14,262

[1] Includes some undistributed freight. [2] Excluding Class III. [3] Including receipts from connecting lines.
Source: Interstate Commerce Commission.

No. 451.—REVENUE FREIGHT CARRIED, BY CLASSES OF COMMODITIES: CLASS I CARRIERS

NOTE.—Nonrevenue freight is excluded; this is a large item in the case of a few commodities, notably coal. Switching and terminal roads are excluded

Commodity	Revenue freight originated (thousands of tons of 2,000 pounds)											Total revenue freight carried, 1930 (thousands of tons of 2,000 pounds)		
	All districts								1930					
	1920	1924	1925	1926	1927	1928	1929	1930	Eastern district	Southern district	Western district	Eastern district	Southern district	Western district
Grand total, carload and l. c. l.	1,255,421	1,187,296	1,247,242	1,396,142	1,281,611	1,285,943	1,339,091	1,153,197	495,974	261,144	396,079	1,055,454	383,374	624,250
Grand total, carload traffic	1,202,219	1,146,747	1,206,655	1,296,651	1,243,171	1,248,989	1,303,048	1,123,530	481,252	255,294	386,984	1,029,027	372,746	609,983
Products of agriculture, total	110,840	116,587	109,313	111,787	113,343	118,022	111,343	110,728	21,539	14,357	74,832	63,145	32,717	115,108
Wheat	23,131	27,444	21,548	24,379	26,327	25,950	27,019	25,466	3,035	714	21,717	5,292	2,223	27,800
Corn	12,689	14,883	12,680	13,927	13,162	17,045	15,258	13,986	3,012	1,704	9,270	6,268	2,789	12,867
Oats	8,615	8,507	8,450	6,496	5,518	5,888	5,713	5,184	1,235	790	3,159	2,993	1,528	4,509
Other grain	5,669	5,606	4,564	4,014	5,212	5,506	4,477	4,045	244	96	3,705	768	379	4,887
Flour and meal	10,952	10,331	9,901	10,137	10,027	10,753	10,627	10,546	2,751	862	6,933	10,207	3,143	10,269
Cereal foods and other mill products	8,891	10,085	9,578	9,768	10,178	10,581	10,820	10,610	3,644	1,124	5,842	8,863	2,562	8,599
Hay, straw, and alfalfa	7,957	5,802	5,506	5,028	4,467	3,999	3,697	3,494	1,424	160	1,901	2,779	1,415	2,648
Leaf tobacco [1]	1,081	1,070	1,138	1,010	1,053	945	989	1,008	113	850	45	293	1,369	57
Cotton	3,379	3,259	4,127	4,482	4,180	3,773	3,940	3,032	81	1,239	1,712	984	2,665	2,803
Cottonseed and products, except oil	4,573	4,598	5,849	6,484	6,046	4,984	5,076	5,065	20	2,801	2,244	718	4,131	3,544
Citrus fruits	1,404	1,650	1,363	1,533	1,750	1,543	2,355	1,734	42	755	937	1,896	2,095	3,276
Other fresh fruits	5,271	5,114	5,910	6,321	5,648	6,401	5,690	5,919	1,077	1,299	3,543	5,768	3,280	9,834
Potatoes, except sweet [2]	4,118	4,591	4,614	4,339	3,727	4,511	4,425	4,332	1,923	396	2,013	7,811	1,319	4,770
Other fresh vegetables	2,205	2,685	2,828	2,800	3,083	3,124	3,222	3,232	744	646	1,872	3,817	1,949	6,255
Dried fruits and vegetables	1,165	1,438	1,533	1,568	1,527	1,878	1,609	1,674	377	102	1,195	1,056	368	2,498
Sugar beets	9,741	9,524	9,824	9,501	10,526	5,260	5,348	6,246	516	4	5,726	694	4	6,326
Other products of agriculture						4,881	5,077	5,125	1,301	806	3,018	2,938	1,498	4,161
Animals and products, total	26,596	27,747	26,324	26,244	26,008	25,634	24,907	23,129	5,516	1,689	15,924	16,297	3,640	21,160
Horses and mules	936	531	544	513	541	577	553	440	34	70	336	96	146	487
Cattle and calves	9,809	9,315	9,330	9,240	8,634	7,977	7,310	6,785	835	417	5,533	1,742	562	7,226
Sheep and goats	1,344	1,215	1,224	1,270	1,297	1,361	1,387	1,335	187	62	1,136	445	73	1,339
Hogs	5,421	6,707	5,502	5,272	5,369	5,871	5,534	4,902	931	317	3,654	1,841	442	4,262

[1] Includes refuse, stems, etc., prior to 1928.

[2] "Potatoes" prior to 1928.

No. 451.—Revenue Freight Carried, by Classes of Commodities: Class I Carriers—Continued

Commodity	Revenue freight originated (thousands of tons of 2,000 pounds)											Total revenue freight carried, 1930 (thousands of tons of 2,000 pounds)		
	All districts								1930					
	1920	1924	1925	1926	1927	1928	1929	1930	Eastern district	Southern district	Western district	Eastern district	Southern district	Western district
Animals and products—Continued														
Fresh meats	2,770	3,000	2,904	2,996	2,987	2,935	3,007	2,928	918	230	1,780	3,796	670	2,102
Other packing-house products	2,206	2,395	2,139	2,022	1,957	2,203	2,274	1,970	787	234	949	2,014	907	1,475
Poultry	264	376	357	409	407	406	417	419	69	42	308	755	74	431
Eggs	536	572	591	644	651	635	588	612	101	43	468	875	108	761
Butter and cheese	425	648	686	725	747	754	793	807	145	29	633	1,125	126	832
Wool	293	294	263	281	356	394	414	354	187	5	162	559	35	283
Hides and leather	1,051	1,026	1,026	985	1,010	915	913	847	482	97	268	1,368	213	409
Other animals and products	1,540	1,668	1,758	1,887	2,049	1,606	1,717	1,680	840	143	697	1,681	284	1,053
Products of mines, total	712,154	637,582	678,336	757,703	713,402	696,583	737,879	642,537	283,187	184,671	174,699	618,600	232,602	247,440
Anthracite	78,100	76,108	58,260	76,015	72,176	69,997	71,931	71,252	70,650	120	482	110,650	250	1,090
Bituminous coal	389,349	320,376	346,346	388,736	361,551	346,057	368,339	322,150	133,366	146,569	42,215	355,247	179,058	80,467
Coke	26,895	18,023	19,798	22,193	16,164	16,241	19,127	14,536	11,113	1,537	1,886	16,949	2,399	3,107
Iron ore	84,433	55,851	72,134	76,023	66,355	68,684	82,123	59,980	2,912	2,695	54,373	37,594	3,703	55,295
Copper ore and concentrates	21,550	10,504	12,289	13,039	11,335	5,916	7,057	4,525	5	4	4,516	42	204	7,147
Other ores and concentrates						5,922	7,714	6,957	2,648	591	3,718	5,002	1,115	6,610
Gravel, sand, and stone [3]	98,720	136,650	145,405	157,295	161,776	128,304	121,559	112,196	38,410	22,655	51,131	49,678	30,463	64,698
Crude petroleum	6,435	8,412	11,245	10,744	10,531	7,633	6,630	6,598	238	66	6,294	1,810	294	13,035
Asphaltum	1,424	2,517	2,531	3,101	3,170	2,899	3,196	2,925	1,789	553	583	3,350	1,146	1,356
Salt	3,250	3,303	3,403	3,238	3,251	3,341	3,183	2,952	1,470	33	1,449	3,774	964	3,029
Phosphate rock, crude	6,997	5,847	6,925	7,319	7,094	4,801	5,165	5,712	74	5,543	95	310	6,278	153
Sulphur						1,811	2,253	1,934	219	80	1,635	521	288	2,756
Other products of mines [3]						34,977	39,602	30,820	20,273	4,225	6,322	33,673	6,440	8,697
Products of forests, total	100,766	108,094	107,391	104,351	99,351	96,737	94,855	69,371	8,290	21,160	39,921	32,100	35,257	63,327
Logs, posts, poles, piling, and cordwood	38,571	45,551	45,428	45,163	41,676	39,541	39,611	28,451	1,597	5,576	21,278	3,851	6,921	24,983
Ties	5,472	5,508	4,292	4,833	5,338	4,240	4,024	3,522	516	1,529	1,477	1,511	2,246	2,019
Pulp wood	4,992	5,603	5,826	5,943	6,989	6,393	6,781	6,524	1,988	1,171	3,365	3,902	1,830	4,941
Lumber, shingles, lath, cooperage materials, veneer, etc	48,618	48,612	49,019	46,062	42,846	42,776	40,937	27,800	3,127	11,465	13,208	20,155	22,225	30,488
Other forest products	3,112	2,820	2,826	2,850	2,501	3,287	3,502	3,074	1,062	1,419	593	2,681	2,035	896

Manufactures and miscellaneous, total	251,864	256,737	285,291	296,066	291,073	312,013	330,064	277,765	162,740	33,417	81,608	298,885	68,530	162,953
Refined petroleum and its products	29,616	41,298	46,273	48,938	51,661	58,480	64,240	62,901	22,898	6,295	33,708	42,484	14,972	65,592
Vegetable oils	938	1,150	1,446	1,621	1,893	1,561	1,733	1,602	366	534	702	1,212	1,060	1,302
Sugar, sirup, glucose, and molasses	5,664	5,407	5,700	5,714	5,582	5,605	5,858	5,659	1,820	904	2,935	3,739	2,377	5,702
Iron, pig [4]	16,451	12,071	14,577	15,132	11,488	8,033	8,000	5,140	3,383	1,249	508	5,052	1,599	1,214
Scrap iron and steel	(5)	(5)	(5)	(5)	(5)	11,746	13,527	9,901	7,653	711	1,537	11,685	1,164	2,098
Iron and steel (6th class, n. o. s.)	(5)	(5)	(5)	(5)	(5)	5,130	5,746	3,680	3,526	34	120	4,991	153	325
Rails, fastenings, frogs, and switches [6]	3,047	2,471	2,646	2,875	2,595	2,551	2,658	1,778	1,368	163	247	1,990	410	956
Iron and steel pipes and fittings [7]	27,443	24,800	29,144	30,568	31,878	6,945	7,670	6,442	4,437	864	1,141	9,919	2,155	5,580
Iron and steel (5th class, n. o. s.) [7]						33,386	37,427	26,745	24,159	905	1,631	38,819	2,424	5,841
Iron and steel nails and wire	(5)	(5)	(5)	(5)	(5)	1,667	1,873	1,372	1,050	67	255	1,903	171	628
Copper: Ingot, matte and pig	5,170	4,904	5,419	5,604	2,898	999	1,108	665	264	18	333	1,127	23	1,146
Lead and zinc: Ingot, pig, or bar						1,218	1,338	1,124	465	17	642	1,513	156	1,816
Other metals, pig, bar, sheet, etc						431	525	379	199	6	174	484	33	371
Machinery and boilers [8]	9,391	4,930	5,359	5,772	5,176	3,772	3,931	3,072	2,164	182	726	4,524	715	1,849
Cement	15,400	22,970	24,516	24,921	25,889	26,080	25,008	23,180	11,160	2,915	9,105	22,785	5,633	14,240
Brick and artificial stone	15,251	18,165	19,668	20,337	19,556	19,019	17,216	12,595	7,442	2,254	2,899	13,159	3,483	5,083
Lime and plaster	4,410	6,008	6,830	6,642	6,092	5,300	4,803	3,452	1,970	482	1,000	3,609	1,057	2,053
Sewer pipe and drain tile	2,165	2,281	2,426	2,387	2,712	2,556	2,708	1,946	1,135	265	546	2,241	511	900
Agricultural implements and vehicles other than automobiles [9]	3,324	2,158	2,281	2,304	3,118	1,903	2,136	1,657	453	120	1,084	1,158	329	2,019
Automobiles, autotrucks, parts, tires, etc	3,427	6,061	6,980	7,387	6,324	8,752	10,423	6,624	5,389	274	961	11,124	1,560	3,935
Furniture	743	837	970	987	1,004	1,063	1,102	733	314	209	210	936	442	530
Beverages	1,240	683	841	760	804	813	774	893	293	172	428	588	230	617
Ice	5,795	4,430	4,928	4,145	4,062	3,922	3,310	2,578	1,094	260	1,224	1,343	284	1,277
Fertilizers	9,204	7,815	8,463	8,197	10,465	12,859	13,276	12,302	4,176	5,809	2,317	7,264	8,482	3,851
Printing paper [10]	3,144	3,051	3,328	3,441	3,322	3,303	3,480	3,399	2,547	182	670	8,514	488	2,259
Chemicals and explosives [11]	8,348	8,423	9,579	10,084	9,116	2,979	3,213	2,672	1,290	680	702	2,100	1,223	1,041
Textiles	805	882	966	933	785	937	941	710	204	368	138	631	783	328
Canned food products	3,074	3,740	4,144	4,070	4,204	4,805	5,029	4,751	2,102	294	2,355	5,055	859	4,670
Furnace slag	77,814	72,202	78,807	83,217	80,447	8,784	9,835	11,000	9,739	1,160	101	10,755	1,596	116
Paper board, pulpboard and wall board (paper)						2,317	2,511	2,241	1,471	374	396	3,194	729	990
Building paper and prepared roofing materials						2,035	2,325	1,687	1,083	140	464	1,936	416	863
Other manufactures and miscellaneous						63,062	66,338	54,885	37,126	5,510	12,249	73,046	13,013	23,761
Merchandise—all l. c. l. freight	53,202	40,549	40,587	39,491	38,440	36,954	36,043	29,667	14,722	5,850	9,095	26,427	10,628	14,262

[3] "Gravel, sand, and stone" includes clay prior to 1928 which is reported with "Other products of mines" in 1928 and 1929.
[4] Includes bloom prior to 1928.
[5] Not reported separately.
[6] "Rails and fastenings" prior to 1928.
[7] "Bar, sheet, and structural iron and pipe" prior to 1923.
[8] Includes castings prior to 1928.
[9] Includes railway car wheels, axles and trucks prior to 1928.
[10] "Paper, printed matter, and books" prior to 1928.
[11] Data for 1928 and 1929 not comparable with prior years.

Source: Interstate Commerce Commission.

No. 452.—CAR LOADINGS: AVERAGE WEEKLY LOADINGS OF REVENUE FREIGHT, CLASS I RAILWAYS, BY PRINCIPAL COMMODITY GROUPS

NOTE.—Averages for earlier years for all commodities are: 1918, 857,540; 1919, 804,472; 1920, 867,663; 1921, 756,215; 1922, 830,915; 1923, 957,925; 1924, 933,354; 1925, 985,080

Month	1926	1927	1928	1929	1930	1926	1927	1928	1929	1930
	Total, all commodities					Grain and grain products				
Year	1,021,131	992,996	992,113	1,015,922	882,450	45,449	45,745	48,326	46,081	43,575
January	921,674	939,165	862,224	892,864	837,356	47,094	44,747	46,920	45,524	39,166
February	919,333	950,480	897,686	941,534	876,490	42,766	43,408	46,874	47,165	43,745
March	969,349	996,509	950,512	963,187	882,925	39,812	39,061	47,499	42,642	40,209
April	958,201	968,897	935,077	997,286	904,823	37,518	37,131	39,784	35,978	39,114
May	1,036,455	1,027,118	1,001,289	1,036,480	919,711	39,964	39,738	40,776	37,973	37,623
June	1,022,335	999,171	984,823	1,072,970	929,862	39,314	40,205	34,482	44,610	41,503
July	1,042,752	978,440	986,010	1,040,020	888,933	54,754	46,477	51,587	61,710	58,328
August	1,097,030	1,062,462	1,069,681	1,120,141	934,074	55,637	55,084	57,714	63,222	60,799
September	1,130,778	1,097,621	1,117,635	1,135,572	931,311	49,079	58,829	59,618	49,866	47,304
October	1,193,515	1,116,218	1,175,970	1,169,853	954,446	51,852	54,813	54,830	46,437	40,704
November	1,062,068	955,726	1,028,842	978,031	825,427	43,687	45,641	52,640	38,415	38,093
December	898,078	835,055	879,259	834,584	695,961	42,066	44,022	47,175	39,444	35,712
	Livestock					Coal				
Year	30,696	29,749	29,248	27,292	24,716	190,996	177,562	168,625	174,909	152,921
January	33,479	32,330	31,912	29,486	27,009	187,445	222,743	177,538	202,422	196,066
February	28,231	27,687	32,514	26,420	25,740	174,564	213,204	170,025	211,006	187,759
March	28,374	27,255	28,670	24,221	23,614	181,477	204,142	163,002	156,504	137,045
April	27,055	27,585	26,344	26,720	24,093	164,159	154,326	145,132	146,057	132,847
May	27,738	28,846	26,667	25,672	23,445	168,237	161,636	157,574	154,706	138,147
June	26,871	26,935	25,204	23,577	21,610	171,663	151,047	145,026	155,056	135,251
July	26,796	25,488	22,752	23,008	20,073	176,000	144,240	142,903	146,522	130,618
August	29,261	28,074	25,356	24,271	21,110	190,556	173,988	165,525	168,475	145,505
September	36,775	31,750	34,231	30,921	26,944	199,114	183,028	181,082	187,934	151,270
October	40,049	39,578	38,668	37,284	32,226	225,771	190,665	206,574	203,957	174,483
November	34,578	33,642	31,849	31,383	27,984	235,060	169,253	193,737	185,597	162,226
December	29,091	28,869	28,292	25,448	23,424	213,938	164,385	177,181	189,261	151,019
	Coke					Ore				
Year	13,142	10,547	10,264	12,201	9,368	41,907	36,380	36,726	43,876	32,014
January	17,966	12,176	10,659	12,071	11,002	9,879	9,461	8,199	8,910	8,414
February	17,992	12,361	11,537	13,392	11,708	10,196	10,688	8,098	9,244	8,368
March	14,371	12,303	10,875	12,834	10,057	10,544	10,920	8,564	11,423	9,024
April	12,507	11,447	10,118	12,066	10,020	15,042	25,473	10,263	27,670	12,701
May	11,841	10,693	10,152	12,508	9,801	55,301	59,883	41,299	71,454	51,736
June	11,476	10,367	9,664	12,306	9,463	67,663	64,742	65,597	76,481	62,528
July	11,272	9,669	8,812	11,874	8,533	72,788	63,003	62,538	76,369	61,250
August	11,464	9,691	9,349	11,971	8,310	77,601	62,188	64,340	75,762	56,878
September	12,174	9,780	10,138	11,904	8,202	75,196	55,897	62,742	68,650	48,780
October	13,023	9,447	10,726	12,172	8,853	67,666	48,046	60,246	60,041	38,483
November	12,832	9,067	10,631	11,610	8,198	32,078	19,291	32,565	29,216	18,393
December	11,777	9,597	10,641	11,668	8,549	9,564	8,370	10,223	8,219	5,620
	Forest products					Miscellaneous and L. C. L.				
Year	70,277	65,819	63,986	62,469	45,547	628,665	627,193	634,938	649,094	574,309
January	66,959	64,344	58,280	54,240	45,452	558,853	553,364	528,717	540,211	510,246
February	74,826	68,896	67,779	60,224	54,310	570,756	574,236	560,857	574,084	544,860
March	76,972	70,522	68,729	67,013	58,814	617,708	632,306	623,173	648,551	604,162
April	75,692	68,439	64,331	69,596	57,437	626,227	644,496	639,104	679,199	628,611
May	76,704	71,026	67,392	68,636	52,939	656,670	655,296	657,428	665,531	606,020
June	74,244	67,690	65,825	70,306	49,657	631,103	638,184	639,024	690,634	609,850
July	67,227	63,344	59,669	61,312	39,904	633,915	626,220	637,501	659,234	570,226
August	70,739	68,964	66,412	68,761	41,474	661,770	664,474	680,985	707,679	599,997
September	70,546	67,633	63,632	62,963	40,383	687,894	690,706	706,193	723,335	608,428
October	72,218	67,172	66,172	63,622	39,686	722,935	706,497	798,754	746,340	620,012
November	65,504	61,097	63,525	55,075	34,803	638,329	617,784	643,895	626,736	535,729
December	54,547	52,050	53,948	45,485	30,237	536,494	527,761	551,798	514,553	441,400

Source: American Railway Association.

No. 453.—STEAM RAILWAY ACCIDENTS, BY CAUSES

NOTE.—See headnote to Table 454

Cause of accident	Killed					Injured				
	1921–1925, average	1926–1930, average	1928	1929	1930	1921–1925, average	1926–1930, average	1928	1929	1930
All accidents	6,618	6,480	6,509	6,496	5,481	141,688	89,404	85,561	76,995	49,430
Train accidents	394	308	272	326	296	4,409	2,985	2,873	3,284	1,782
Passengers	72	30	16	36	7	2,423	1,455	1,404	1,742	790
Employees	237	164	143	160	131	1,597	1,132	1,139	1,030	641
Other persons	85	114	113	130	158	389	398	330	512	351
Causes:										
Collisions	139	89	70	85	56	2,071	1,391	1,192	1,212	677
Passengers	37	11	8	1	1	1,172	710	577	513	338
Employees	89	70	53	76	50	764	526	498	437	271
Other persons	14	8	9	8	5	135	155	117	262	68
Derailments	197	139	129	156	146	2,109	1,379	1,496	1,871	894
Passengers	34	18	8	35	6	1,212	718	784	1,202	429
Employees	111	66	69	63	52	690	487	545	501	271
Other persons	52	55	52	58	88	208	173	167	168	194
Other causes	58	81	73	85	94	228	215	185	201	211
Passengers	2	1				39	27	43	27	23
Employees	36	28	21	21	29	143	119	96	92	99
Other persons	20	52	52	64	65	46	69	46	82	89
Train-service accidents	5,794	5,796	5,872	5,806	4,875	44,420	35,395	34,514	33,415	23,780
Passengers	100	63	67	61	43	3,155	2,208	2,055	2,101	1,875
Employees	1,088	940	895	977	610	31,563	23,275	22,640	21,151	13,074
Other persons	4,605	4,793	4,910	4,768	4,222	9,701	9,912	9,819	10,163	8,831
Causes:										
Coupling or uncoupling locomotives or cars	80	48	37	59	30	1,624	1,124	1,135	965	604
Coupling or uncoupling air hose	22	19	28	20	7	435	353	354	328	232
Operating locomotives	20	16	13	17	17	6,259	3,731	3,402	3,160	1,929
Operating hand brakes	30	30	25	37	26	2,090	1,875	1,836	1,755	1,154
Operating switches	2	1	1	1	2	965	747	684	729	378
Contact with fixed structures	69	57	45	43	57	836	534	521	460	358
Getting on or off cars or locomotives	484	419	368	412	441	9,125	7,084	6,729	6,522	5,010
Highway grade-crossing accidents[1]	1,997	2,315	2,496	2,399	1,908	5,826	6,400	6,573	6,673	5,577
Struck or run over, not at public crossings	[2]2,415	2,267	2,253	2,188	1,828	[2]2,079	1,721	1,639	1,611	1,276
Miscellaneous	1,157	625	606	630	559	15,595	11,824	11,641	11,212	7,462
Nontrain accidents	430	376	365	364	310	92,860	51,024	48,174	40,296	23,868
Passengers	[2]4	2	2	3		[2]634	595	568	528	515
Employees	329	288	289	287	233	90,630	48,990	46,467	38,558	22,157
Other persons	97	85	74	74	77	1,724	1,440	1,139	1,210	1,196

[1] Excludes persons killed and injured at highway grade crossings in connection with derailments and miscellaneous train accidents.

[2] Average for 1922 to 1924. Separate data not available for 1921.

Source: Interstate Commerce Commission.

No. 454.—PERSONS KILLED AND INJURED IN RAILWAY ACCIDENTS

NOTE.—For various reasons, including the fact that returns were required under different acts, the statistics are not strictly comparable. Prior to 1921, train accidents were those causing damage to railway property in excess of $150 or any damage and a resulting casualty. Thereafter they were considered as such when the damage exceeded $150 with or without a casualty. Where the damage is less than $150 and there is a reportable casualty it is classified as a train-service accident. Figures for years 1911–1915 include industrial and other nontrain accidents to employees only, and for years 1908–1910 do not cover switching and terminal roads. Otherwise the statement covers all reportable accidents

Yearly average or year ended—	Total		Passengers		Employees		Other persons		Trespassers[1]	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
June 30:										
1891–1895	6,821	35,313	202	2,967	2,315	27,051	4,214	5,294	----	----
1896–1900	6,946	42,248	222	3,237	2,054	32,793	4,670	6,219	----	----
1901–1905	9,326	72,943	392	7,894	3,249	57,209	5,686	7,840	----	----
1906	10,618	97,706	359	10,764	3,929	76,701	6,330	10,241	----	----
1907	11,839	111,016	610	13,041	4,534	87,644	6,695	10,331	----	----
1908	10,188	104,230	381	11,556	3,405	82,487	6,402	10,187	----	----
1909	8,722	95,626	253	10,311	2,610	75,006	5,859	10,309	----	----
1910	9,682	119,507	324	12,451	3,382	95,671	5,976	11,385	----	----
1911	10,396	150,159	290	12,042	3,602	126,039	6,495	12,078	----	----
1912	10,585	169,538	283	14,938	3,635	142,442	6,667	12,158	----	----
1913	10,964	200,308	350	15,130	3,715	171,417	6,899	13,761	----	----
1914	10,302	192,662	232	13,887	3,259	165,212	6,811	13,563	----	----
1915	8,621	162,040	199	10,914	2,152	138,092	6,270	13,034	----	----
Dec. 31:										
1916	10,001	196,722	246	7,152	2,941	176,923	6,814	12,647	----	----
1917	10,087	194,805	301	7,582	3,199	174,247	6,587	12,976	----	----
1918	9,286	174,575	471	7,316	3,419	156,013	5,396	11,246	----	----
1919	6,978	149,053	273	7,456	2,138	131,018	4,567	10,579	----	----
1920	6,958	168,309	229	7,591	2,578	149,414	4,151	11,304	----	----
1921	5,906	120,685	205	5,584	1,446	104,530	4,345	10,571	----	----
1922	6,325	134,871	203	6,712	1,657	117,197	1,967	7,834	2,498	3,128
1923	7,385	171,712	143	6,463	2,026	152,678	2,397	9,279	2,819	3,292
1924	6,617	143,739	153	6,023	1,543	125,319	2,300	9,268	2,621	3,129
1925	6,766	137,435	176	5,643	1,599	119,224	2,347	9,640	2,644	2,928
1926	7,090	130,235	155	5,149	1,672	111,903	2,640	10,387	2,623	2,796
1927	6,821	104,799	82	4,560	1,566	88,223	2,519	9,020	2,654	2,996
1928	6,509	85,561	86	4,027	1,327	70,246	2,718	8,652	2,379	2,636
1929	6,496	76,995	100	4,371	1,424	60,739	2,665	9,308	2,307	2,577
1930	5,481	49,430	50	3,180	974	35,872	2,153	7,430	2,304	2,948

[1] Trespassers included with "other persons" prior to 1922.

No. 455.—CONSUMPTION OF FUEL AND REPLACEMENTS OF RAILS AND TIES: CLASS I CARRIERS

NOTE.—Rails and ties laid in new construction are not included

	All districts			1929		
	1927	1928	1929	Eastern district	Southern district	Western district
Consumption of fuel by locomotives:						
Anthracite coal, 1,000 tons	1,603	1,490	1,579	1,579	----	----
Bituminous coal, do	115,883	112,382	113,894	54,961	24,448	34,485
Fuel oil[1], 1,000 gallons	2,429,936	2,498,144	2,628,414	10,046	37,189	2,581,179
Hardwood[1], cords	27,294	25,231	19,499	4,445	14,791	263
Softwood[1], do	67,394	55,995	52,815	20,540	2,788	29,487
Total, coal equivalent[2], 1,000 tons	132,945	129,742	132,137	56,618	24,681	50,840
Rails laid in replacement and betterment:						
Total tonnage, 1,000 long tons	3,819	3,806	3,610	1,635	630	1,345
Total charges[3], 1,000 dollars	138,732	138,652	130,397	57,663	22,146	50,588
Ties laid in previously constructed tracks:						
Crossties, thousands	78,340	77,371	74,679	19,184	16,913	38,582
Switch and bridge ties, 1,000 board feet	259,997	[4] 269,149	[4] 250,063	83,502	63,149	103,412
Total charges[3], 1,000 dollars	117,871	[4] 118,044	[4] 111,825	39,294	22,559	49,972

[1] The ratio of fuel oil to coal is based upon the experience of the various roads; 1 cord of hardwood equals two-thirds ton of coal; 1 cord of softwood equals one-half ton of coal.
[2] Totals include equivalent of a small amount of miscellaneous fuel.
[3] The total charges shown do not include the labor cost of applying the rails or ties.
[4] Figures do not include data for 279 linear feet of steel ties in 1928, and 156 in 1929.

Source of Tables 454 and 455: Interstate Commerce Commission.

No. 456.—EXPRESS COMPANIES: INCOME ACCOUNT

NOTE.—In thousands of dollars. Mileage operated by express companies, 1930: Total, 276,198; steam road, 231,008; electric line, 2,703; steamboat line, 26,366; airplane, 13,361; stage line, 2,760. The Railway Express Agency, Inc., operates 265,954 miles, and the Southeastern Express Co., 10,244 miles.

[All figures in thousands of dollars]

Calendar year	Receipts for transportation	Paid for express privileges	Total operating revenues [1]	Operating expenses	Net operating revenues	Express taxes	Operating income [2]	Other income	Net income [3]
American Railway Express Co.:									
1920	333,890	141,829	195,665	234,810	[4] *39,144*	2,182	[4] *41,364*	2,076	[4] *39,856*
1921	294,664	113,491	184,897	182,265	2,631	2,095	508	2,074	2,309
1922	291,349	142,323	152,503	149,142	3,361	2,214	1,108	1,956	2,774
1923	309,579	155,736	157,444	154,446	2,998	2,138	834	1,851	2,460
1924	287,281	139,997	150,640	147,447	3,193	2,102	1,045	1,458	2,282
1925	290,303	143,832	149,715	146,433	3,282	2,059	1,195	1,088	2,184
1926	294,519	147,812	150,097	146,825	3,272	2,143	1,110	1,237	2,318
1927	284,513	139,494	148,730	145,467	3,263	2,197	1,050	1,204	2,207
1928	281,545	141,288	143,877	140,675	3,202	2,033	1,146	1,216	2,321
1929 [5]	41,104	18,554	23,083	22,560	523	327	193	193	381
Railway Express Agency, Inc.:									
1929 [6]	242,216	127,591	117,628	115,535	2,093	1,343	734	687	20
1930	237,488	112,366	128,470	125,821	2,649	1,375	1,259	509	36
Southeastern Express Co.:									
1921 [7]	4,374	1,649	2,781	2,719	61	25	37	10	47
1922	7,103	3,320	3,880	3,750	130	79	50	20	70
1923	7,866	3,877	4,097	3,908	189	88	99	24	123
1924	7,910	3,755	4,266	4,103	163	109	51	19	70
1925	8,041	3,912	4,241	4,086	155	86	67	20	87
1926	8,257	4,021	4,357	4,196	161	83	76	24	100
1927	8,176	3,971	4,342	4,188	154	88	62	28	90
1928	7,870	3,738	4,268	4,126	142	100	40	30	70
1929	8,007	3,900	4,244	4,098	146	110	35	38	73
1930	6,764	2,940	3,936	3,803	133	97	35	35	70

[1] Includes revenues from sources other than transportation.
[2] Deducting, besides taxes, a small amount of uncollectible revenue.
[3] Sum of two preceding columns less small deductions.
[4] Deficit.
[5] Result of operations for two months ended Feb. 28, 1929.
[6] Result of operations for ten months ended Dec. 31, 1929.
[7] Result of operations for eight months ended Dec. 31, 1921.

No. 457.—THE PULLMAN CO.: ABSTRACT OF OPERATIONS

[All money figures in thousands of dollars]

Year ended—	Gross revenues, car operations	Association revenues, debtor	Contract revenues, debtor [1]	Expenses, car operations		Net revenues, car operation	Operating income	Revenue passengers carried	
				Total	Conducting car operations			Thousands	Number per car day
June 30:									
1910	35,334	66	893	23,962	(2)	11,372	13,151	20,203	14
1914	41,499	491	1,969	28,116	12,376	13,383	12,270	26,189	12
1915	38,723	467	1,954	26,633	11,716	12,090	10,816	24,252	12
1916	43,347	487	3,239	28,836	12,762	14,511	13,017	26,782	12
Dec. 31:									
1916	44,203	482	2,694	30,879	13,457	13,324	11,745	27,866	12
1917	51,777	102	4,498	35,449	16,047	16,328	12,469	32,261	14
1918	49,967	----	3,918	40,593	20,202	9,374	7,763	28,751	13
1919	69,071	----	31	48,618	26,392	20,453	19,194	37,346	15
1920	72,124	----	13,155	61,031	30,805	11,093	9,304	39,255	16
1921	64,439	----	7,079	64,744	28,136	[3] *305*	[3] *3,877*	31,225	13
1922	65,582	----	8,379	53,029	26,022	12,553	8,540	31,748	13
1923	72,576	----	8,555	55,885	27,365	16,691	12,289	34,249	13
1924	72,758	----	9,075	61,609	30,023	11,149	7,755	34,086	12
1925	80,198	----	8,873	63,513	32,247	16,685	12,546	35,526	12
1926	81,834	----	9,463	68,204	35,009	13,630	9,565	36,073	11
1927	80,952	----	8,906	66,503	34,848	14,449	10,360	35,197	11
1928	80,846	----	8,604	66,656	34,935	14,190	10,938	33,924	11
1929	82,384	----	8,704	69,490	36,191	12,894	9,185	33,434	10
1930	76,234	----	5,534	68,960	35,379	7,274	4,937	29,360	9

[1] Amounts due other carriers under the provisions of definite contracts. [2] Not separated. [3] Deficit.

Source of Tables 456 and 457: Interstate Commerce Commission.

No. 458.—THE ALASKA RAILROAD TRAFFIC: ANALYSIS OF STATISTICS OF PASSENGER AND FREIGHT SERVICES, YEARS ENDED JUNE 30

	1929	1930		1929	1930
Road mileage operated—monthly average	543.7	551.8	FREIGHT TRAFFIC		
PASSENGER TRAFFIC			Freight train-miles	90,006	96,344
			Mixed train-miles	116,569	68,571
			Loaded cars, 1 mile, freight and mixed trains	1,361,064	1,369,448
Passenger train-miles [1]	40,729	97,736			
Mixed train-miles	116,569	68,571	Empty cars, 1 mile, freight and mixed trains	788,253	802,663
Passenger car-miles, passenger trains [1]	44,123	171,973	All cars, 1 mile	2,149,317	2,172,111
Passenger car-miles, mixed trains	233,511	134,508	Tons of revenue freight carried:		
Total revenue passengers carried	53,177	43,283	Coal	56,848	57,766
			Miscellaneous	37,275	34,545
Revenue passengers carried 1 mile	3,702,454	3,480,736	Tons of revenue freight carried 1 mile	15,628,324	16,130,789
Total passenger revenue	$210,995	$200,434	Total freight revenue	$669,357	$677,752
Average revenue per passenger per mile	$0.05699	$0.05758	Average revenue per ton per mile	$0.04282	$0.04202

[1] Motor miles.

Source: Department of the Interior.

No. 459.—ELECTRIC RAILWAYS: SUMMARY OF OPERATIONS

NOTE.—This table does not include the electric operations of steam railway companies. Many electric railway companies also engage in other operations, especially in the sale of current for light and power; wherever possible, such light and power business has been excluded, but for numerous companies this is impossible. No distinction can be made in the statistics between purely urban street railways and suburban and interurban lines. The insignificant amount of business still conducted by cable and animal traction is included, as well as some operations conducted by primarily electric railways by means of steam traction and gasoline engine cars. In the trackage statistics of this table, each track of a double or multiple line is counted separately. Mileage figures expressed in nearest mile

	1890	1902	1907	1912	1917	1922	1927
Number of companies	789	987	1,236	1,260	[1] 1,307	[1] 1,200	[1] 963
Miles of all track operated	8,123	22,577	34,382	41,065	44,835	43,932	40,722
Operated by:							
Electricity	1,262	21,902	34,038	40,808	44,677	43,789	40,585
Cable	488	241	62	56	45	46	43
Animal traction	5,661	259	136	58	11	4	
Steam	711	170	105	76	41	1	17
Gasoline-engine cars		[2] 6	41	66	56	[3] 86	[3] 77
Gravity					6	6	
Value of road and equipment (thousand dollars)	389,357	2,167,634	3,637,669	4,596,563	5,136,442	5,058,762	[4]
Number of employees	70,764	140,769	221,429	282,461	294,826	300,523	267,115
Number of passenger cars	32,505	60,290	70,010	76,162	79,914	77,301	70,309
Revenue passengers, including pay transfer [5] (thousands)	2,023,010	4,774,212	7,441,115	9,545,555	11,304,660	12,666,558	12,174,592
Operating revenues (thousand dollars)	90,617	247,554	418,188	567,512	709,825	1,016,719	927,774
Operating expenses (thousand dollars)	62,011	142,313	251,309	332,896	452,595	727,795	694,460
Operating ratio (per cent)	68.4	57.5	60.1	58.7	63.8	71.6	74.9

[1] Includes companies maintaining separate organizations, though leased to and controlled through stock ownership by other companies, largely in Pennsylvania. In 1907 and 1912 these companies were treated as merged and not included in the number reported.

[2] Compressed air.

[3] Includes 1.26 miles of nonelectric track in 1922, 1.20 miles in 1927.

[4] Complete data not available. In 1927 a number of composite companies included the value of electric railway road and equipment in the value of their entire plant and equipment reported on their combined balance sheet on the light and power schedule and advised that this could not be separated. Statistics for Central Light and Power Stations include their combined figures.

[5] Not including motor-bus passengers.

Source: Bureau of the Census, Department of Commerce.

No. 460.—ELECTRIC RAILWAYS: MILEAGE, EQUIPMENT, OUTPUT OF ELECTRICITY, TRAFFIC, EMPLOYEES, AND SALARIES AND WAGES

NOTE.—See headnote to Table 459

	All companies					Surface lines	
	1907	1912	1917	1922	1927	1922	1927
Number of operating companies	945	975	943	858	682	851	678
Miles of all track[1]	34,404	41,065	44,835	43,932	40,722	43,074	39,851
First track (length of line)	25,547	30,438	32,548	31,264	27,948	(2)	27,667
Second and other tracks	8,856	10,627	12,288	12,668	12,775	(2)	12,184
Electric track with—							
Overhead trolley	32,502	38,958	42,491	41,418	[3] 38,246	41,368	[3] 38,225
Third rail and conduit trolley	1,532	1,747	2,051	2,314	2,270	1,487	1,419
Other (electric)	26	103	137	78	[3] 95	78	[3] 95
Number of cars	83,641	94,016	102,603	99,255	93,246	91,159	84,592
Passenger	70,016	76,162	79,914	77,301	70,309	69,397	61,881
Express, freight, and mail	5,669	7,794	11,534	11,406	13,337	11,406	13,337
Service cars	7,956	10,060	11,155	10,548	9,600	10,356	9,374
Number of electric locomotives	117	277	357	404	462	404	456
Horsepower of power-plant equipment[4] [5]	2,519,823	3,661,385	4,200,192	4,119,306	2,025,821	(6)	(6)
Steam turbines	535,404	1,462,800	2,322,692	2,856,006	1,561,457	(2)	(2)
Other steam engines [5]	1,876,123	1,703,088	1,221,223	827,027	420,889	(2)	(2)
Internal-combustion engines	16,335	24,190	28,294	32,495	7,700	(2)	(2)
Water wheels and turbines	91,961	471,307	627,983	403,778	35,775	(2)	(2)
Kilowatt capacity of generators[4]	1,723,416	2,505,316	2,924,779	2,972,834	1,470,904	(2)	(2)
Electric energy (1,000 kilowatt-hours) [4]		9,020,018	12,187,851	12,405,053	9,389,597	(6)	(6)
Generated [4]	4,759,130	6,002,659	7,240,503	6,473,451	2,975,863	(2)	(2)
Purchased	(6)	3,017,359	4,947,348	5,931,602	6,413,734	(2)	(2)
Passengers carried (thousands)[7]	9,533,081	12,135,342	14,506,915	15,331,400	14,901,435	13,586,232	12,678,849
Revenue passengers, including pay transfer	7,441,115	9,545,555	11,304,661	12,666,558	12,174,592	10,923,274	9,953,798
Free-transfer passengers	1,995,658	2,425,918	3,021,138	2,496,570	2,571,249	} 2,662,958	{ 2,570,937
Free passengers	96,308	165,869	181,116	168,272	155,594		{ 154,114
Revenue car mileage (thousands)	1,617,731	1,921,620	2,139,802	2,124,523	2,163,773	1,821,177	1,786,560
Passenger	1,583,831	1,885,870	2,087,819	2,068,294	2,084,566	1,764,948	1,707,353
Express, freight, and mail	33,900	35,750	51,983	56,229	79,207	56,229	79,207
Average number of revenue passengers:							
Per mile of all track [8]	216,522	232,556	252,323	288,600	299,733	253,842	259,826
Per passenger car hour	43.06	48.38	53.69	61.14	59.68	(2)	57.66
Revenue car-hours (thousands)	151,339	190,478	203,057	201,338	202,513	----------	178,337
Passenger	148,678	187,590	199,053	197,146	196,464	----------	172,788
Express, freight and mail	2,661	2,888	4,004	4,692	6,049	----------	6,049
Salaried employees:							
Number	11,700	23,271	27,151	30,239	27,845	28,867	26,374
Salaries (thousand dollars)	12,909	26,129	33,910	57,489	56,647	54,481	52,770
Wage earners:							
Number	209,729	259,190	267,675	270,284	239,270	244,277	211,315
Wages (thousand dollars)	138,082	174,762	233,331	388,191	385,305	347,203	338,022
Conductors, motormen, and bus operators:							
Number	115,518	131,321	136,184	130,628	115,720	126,717	111,220
Wages (thousand dollars)	75,705	95,452	127,222	205,238	200,963	197,131	191,476
Other wage earners—							
Number	94,211	127,869	131,491	139,656	123,550	117,560	100,095
Wages (thousand dollars)	62,377	79,311	106,109	182,953	184,341	150,072	146,546

[1] Mileage expressed in nearest mile. Figures include track lying outside the United States (1907, 28 miles; 1912, 32 miles; 1917, 1922 and 1927, 27 miles).

[2] Not shown separately.

[3] Overhead trolley includes 25 miles of surface lines operated by both overhead trolley and gas-electric motor cars.

[4] Figures for power-plant equipment, capacity of generators, and output of stations in 1927 are not comparable with those in prior years, as companies that formerly reported these data as auxiliary operations on railway schedules furnished separate and complete reports for light and power operations in 1927. These are included in the statistics for "Central Electric Light and Power Stations." The number of companies that reported power-plant equipment in 1907 was 576; in 1912, 494; in 1917, 355; in 1922, 232 and in 1927, 70.

[5] Includes 857 units of 43,344 horsepower reported as auxiliary engines in 1907 and 33 units with 41,100 horsepower of idle equipment in 1927.

[6] No data.

[7] Not including passengers carried by motor busses operated by electric railway companies (16,120,000 in 1922 and 214,694,000 in 1927).

[8] Exclusive of idle track and freight and switching roads.

Source: Bureau of the Census, Department of Commerce.

No. 461.—ELECTRIC RAILWAYS:

NOTE.—See headnote to Table 459. The track mileage represents that actually lying in each State, but all ducted in other States. The differences among the States in the relation of passengers carried to of interurban as against purely urban traffic. Data for motor-bus lines represent those operated mileage represents passenger, express, freight, and mail-car mileage

Division and State	Miles of track lying in State or division [1]					Revenue passengers carried by companies domiciled in State (thousands)			
	1907	1912	1917	1922	1927	1907	1912	1917	1922
United States	34,354	41,033	44,808	43,905	40,696	7,441,115	9,545,555	11,304,660	12,679,349
New England	4,863	5,299	5,556	5,049	3,931	875,116	1,051,162	1,242,077	1,137,106
Maine	418	530	572	566	501	36,730	47,049	55,463	50,010
New Hampshire	268	268	269	263	156	20,087	23,673	23,405	19,650
Vermont	113	121	126	117	63	7,103	8,136	8,739	6,950
Massachusetts	2,851	2,951	3,056	2,688	2,071	597,470	705,918	834,529	732,447
Rhode Island	431	435	454	403	304	91,172	94,086	113,191	143,009
Connecticut	781	993	1,080	1,011	836	122,554	172,300	206,740	185,040
Middle Atlantic	8,891	10,064	10,604	10,519	9,473	2,839,019	3,513,721	4,225,287	4,978,230
New York	3,809	4,486	4,773	4,737	4,348	1,657,687	2,126,964	2,492,325	3,090,878
New Jersey	1,320	1,309	1,368	1,342	1,093	269,099	356,858	432,875	466,819
Pennsylvania	3,762	4,270	4,462	4,440	4,032	912,233	1,029,899	1,300,087	1,420,533
East North Central	10,353	11,884	12,703	12,431	11,802	1,607,895	2,159,621	2,712,625	2,981,417
Ohio	3,671	3,999	4,236	3,974	3,486	480,844	632,332	811,913	872,164
Indiana	1,929	2,323	2,356	2,305	2,330	137,547	173,019	191,132	241,873
Illinois	2,754	3,186	3,441	3,416	3,298	703,493	932,668	1,096,804	1,128,105
Michigan	1,324	1,526	1,768	1,817	1,779	183,239	286,956	447,780	557,900
Wisconsin	676	849	901	919	909	102,772	134,646	164,996	181,375
West North Central	2,455	3,031	3,607	3,604	3,556	615,631	787,301	902,389	942,887
Minnesota	438	538	656	681	723	136,122	186,918	235,943	262,781
Iowa	641	784	1,015	999	982	61,440	93,418	103,898	95,494
Missouri	867	959	1,094	1,098	1,054	346,362	402,210	442,756	464,603
North Dakota	14	19	24	21	19	1,872	2,862	2,841	3,378
South Dakota	5	22	24	17	16	126	1,657	1,915	2,023
Nebraska	184	214	211	206	192	49,323	64,709	74,560	76,846
Kansas	306	494	582	581	570	20,386	35,527	40,456	37,742
South Atlantic	2,244	2,900	3,221	3,191	3,063	487,982	616,725	747,562	830,514
Delaware	105	99	102	96	83	15,724	18,024	26,047	20,860
Maryland	552	720	775	758	731	152,268	186,823	228,634	248,594
Dist. of Col	160	188	195	199	185	91,569	114,100	125,536	156,242
Virginia	513	561	581	554	541	77,300	91,980	112,814	116,289
West Virginia	208	330	395	422	381	42,750	52,842	76,163	91,079
North Carolina	106	190	228	216	205	14,086	21,241	26,915	29,964
South Carolina	131	228	314	301	286	15,695	17,873	25,042	20,211
Georgia	351	417	450	449	425	59,701	86,601	93,640	105,958
Florida	118	165	183	197	226	18,889	27,236	32,771	41,317
East South Central	1,075	1,291	1,457	1,477	1,378	220,887	268,785	292,004	308,021
Kentucky	402	502	516	517	489	85,859	103,512	109,105	115,594
Tennessee	292	361	447	495	507	73,747	91,896	101,825	110,369
Alabama	294	309	369	368	335	52,197	62,494	70,343	73,646
Mississippi	86	119	124	98	47	9,084	10,883	10,731	8,412
West South Central	840	1,372	1,704	1,724	1,773	193,338	270,746	313,203	332,037
Arkansas	82	114	122	120	122	17,145	24,304	26,283	29,954
Louisiana	239	285	331	305	284	85,194	94,053	105,753	128,337
Oklahoma	100	252	302	324	334	9,502	22,121	30,766	36,260
Texas	419	721	950	975	1,033	81,497	130,268	150,401	137,536
Mountain	630	1,048	1,311	1,291	1,137	113,304	154,224	162,222	148,748
Montana	69	99	121	111	109	13,862	15,351	22,197	15,255
Colorado	317	468	467	431	356	73,458	86,597	84,624	81,613
New Mexico	10	11	11	11	11	1,029	951	1,486	1,425
Arizona	31	46	53	44	37	1,902	4,554	7,483	5,474
Idaho	73	129	155	149	121	1,327	4,170	3,279	3,256
Wyoming		23	23	23			1,399	1,457	684
Nevada	7	11	12	5	5	620	750	805	480
Utah	123	260	469	517	498	21,106	40,452	40,891	40,561
Pacific	3,003	4,146	4,647	4,619	4,583	487,943	723,270	707,311	970,359
Washington	730	991	1,022	954	904	110,507	126,687	145,922	143,429
Oregon	259	549	603	612	548	49,459	75,842	67,223	71,804
California	2,013	2,605	3,022	3,053	3,131	327,977	520,741	494,166	755,126

[1] Mileage figures expressed to nearest mile, original figures to nearest hundredth.
[2] Data for Missouri and South Dakota.
[3] Figures for South Atlantic division represent District of Columbia, Georgia, and Florida.

Operating Statistics, by States

other data relate to the total operations of companies domiciled in the State, part of which may be con-
passenger revenue and in other similar ratios are largely due to differences in the relative importance
directly by electric railways; lines operated by subsidiary companies are not included. Revenue car

Revenue passengers carried by companies domiciled in State (thousands)—Con.		Passenger revenue of companies domiciled in State (thousands of dollars)				Revenue car miles operated by companies domiciled in State (thousands)				Division and State
1927				1927				1927		
Car lines	Motor-bus lines	1912	1922	Car lines	Motor-bus lines	1912	1922	Car lines	Motor-bus lines	
12,174,592	167,781	502,652	854,663	834,601	14,578	1,921,620	2,124,523	2,163,773	65,068	U. S.
910,455	54,621	52,521	87,704	79,752	4,607	191,451	173,083	154,549	15,971	N. E.
32,499	75	2,458	4,243	3,060	}	11,124	11,027	9,485	174	Me.
10,807	113	1,202	1,585	924	44	4,726	4,006	2,767	71	N. H.
3,691	70	423	451	258	}	1,776	1,406	980	30	Vt.
604,951	45,916	35,146	58,521	55,198		125,894	105,162	96,723	13,166	Mass.
105,210	8,447	} 13,292	22,904	20,312	4,563	15,085	16,244	13,932	2,530	R. I.
153,297	--------				}	32,846	35,238	30,662	--------	Conn.
5,172,379	174	180,634	297,560	308,687	17	663,589	710,550	755,120	55	M. A.
3,407,410	162	110,700	168,451	186,692	16	411,008	442,114	496,910	51	N. Y.
406,444	12	17,616	30,863	21,743	1	60,994	69,214	52,179	4	N. J.
1,358,525	--------	52,318	98,246	100,252	--------	191,587	199,222	206,031	--------	Pa.
2,886,084	55,906	118,128	213,365	211,622	5,061	474,239	546,337	571,510	22,663	E. N. C.
726,069	24,552	32,672	55,359	50,309	1,989	137,548	141,247	136,400	7,081	Ohio.
201,070	7,580	12,796	20,286	18,579	513	47,879	58,552	63,782	4,043	Ind.
1,257,594	10,282	49,815	93,817	100,278	1,007	201,027	230,127	256,985	4,310	Ill.
521,774	1,920	15,877	31,473	29,186	196	61,189	83,571	78,929	1,316	Mich.
179,577	11,572	6,968	12,430	13,270	1,356	26,596	32,840	35,414	5,933	Wis.
758,333	3,399	40,854	66,880	56,599	394	152,347	174,012	159,097	2,303	W. N. C.
207,476	--------	9,420	15,850	14,379	--------	32,793	36,066	35,546	--------	Minn.
66,883	1,675	5,259	7,850	5,968	175	22,122	29,152	23,892	783	Iowa.
407,210	407	20,216	34,137	30,106	}	72,573	80,738	76,702	180	Mo.
2,893	--------	} 222	342	382	167	661	926	951	--------	N. Dak
736	510				}	474	579	368	879	S. Dak.
51,890	132	3,277	4,930	3,695	12	12,613	13,980	11,291	65	Nebr.
21,245	675	2,460	3,771	2,069	40	11,111	12,571	10,347	396	Kans.
743,305	9,401	30,921	58,863	54,733	[3] 749	124,591	153,154	151,263	3,812	S. A.
18,961	--------	}			} --------	3,967	3,883	3,649	--------	Del.
227,918	--------	} 15,480	30,995	29,164		34,439	42,401	40,387	--------	Md.
136,388	7,459	}			} (3)	18,558	21,037	20,082	2,775	D. C.
100,751	--------	4,532	7,540	6,979	--------	19,903	24,312	24,632	--------	Va.
71,163	--------	3,034	6,570	5,761	--------	11,707	15,238	15,504	--------	W. Va.
25,443	--------	1,177	2,068	1,708	--------	5,998	6,887	6,595	--------	N. C.
10,255	--------	929	1,755	751	--------	4,658	7,719	7,399	--------	S. C.
98,564	265	4,395	7,521	6,991	(3)	19,217	22,619	21,429	150	Ga.
53,362	1,677	1,374	2,414	3,379	(3)	6,144	9,058	11,586	887	Fla.
311,351	--------	13,868	20,840	20,541	--------	58,056	58,389	59,504	--------	E. S. C.
117,894	--------	5,592	7,643	7,764	--------	22,274	20,372	21,480	--------	Ky.
103,984	--------	4,664	7,735	7,252	--------	18,936	19,122	20,635	--------	Tenn.
85,463	--------	3,004	4,812	5,270	--------	13,313	15,820	15,910	--------	Ala.
4,010	--------	608	650	255	--------	3,533	3,075	1,479	--------	Miss.
352,541	14,305	14,790	29,529	27,562	1,094	61,617	80,091	82,050	5,215	W. S. C.
25,887	28	1,183	1,781	1,530	3	5,594	5,735	6,371	26	Ark.
123,491	3,683	4,725	9,388	8,554	265	21,812	20,429	18,239	1,123	La.
23,808	4,178	1,254	3,127	2,443	301	6,143	9,356	9,017	1,416	Okla.
179,355	6,416	7,628	15,233	15,035	525	28,068	44,571	48,423	2,650	Tex.
118,004	1,283	8,061	11,459	9,072	136	30,150	32,739	32,187	723	Mt.
14,108	--------	800	951	859	--------	2,901	2,979	3,090	--------	Mont.
64,865	591	4,521	6,222	4,898	(4)	17,202	15,746	15,152	259	Colo.
516	--------	}			}	309	410	334	--------	N. Mex.
5,432	--------	} 282	382	} 447	--------	1,019	981	1,096	--------	Ariz.
837	--------	}				1,420	1,323	770	--------	Idaho.
		} 451	388			381	253			Wyo.
351	--------	} 2,007	3,516	2,868	} --------	270	108	80	--------	Nev.
31,895	692				} [4] 136	6,648	10,939	11,665	464	Utah.
922,140	28,692	42,875	68,463	66,033	2,520	165,580	196,168	198,493	14,806	Pac.
118,303	5,570	7,283	12,273	10,587	} 972	29,517	36,299	32,273	3,953	Wash.
60,471	2,652	4,578	6,285	5,147		19,509	21,341	20,192	1,313	Oreg.
743,366	20,470	31,014	49,905	50,299	1,548	116,554	138,528	146,028	9,040	Calif.

[4] Data for Colorado included with Utah.

Source: Bureau of the Census, Department of Commerce.

No. 462.—ELECTRIC RAILWAYS: MILEAGE AND CARS AND BUSSES OPERATED

NOTE.—This table includes mileage and equipment of city, interurban, and electrified steam railroads in continental United States. Steam locomotives and cars owned by electric railways and used primarily for steam service are omitted. All data beginning 1924 and data for busses in 1923 are about December; all other data are about July. Mileage figures expressed in nearest mile

Year, division, and State	Companies operating	Miles of all track	Passenger cars		Freight cars		Service cars	Other cars	Electric locomotives	Busses operated by electric railways	
			Motor	Trailer	Motor	Trailer				Number	Mileage
1920	831	47,705	77,722	6,027	1,215	7,441	5,723	6,809	751	(1)	(1)
1921	838	47,555	77,921	6,142	1,324	7,712	7,005	4,754	760	129	(1)
1922	827	47,150	75,442	7,624	1,375	7,903	8,761	2,795	772	300	(1)
1923	821	47,283	75,249	7,423	1,712	8,442	8,971	2,435	814	1,173	(1)
1924	769	46,837	75,678	6,768	1,790	9,016	9,092	2,491	799	2,394	(1)
1925	759	46,750	74,898	6,737	1,760	9,138	9,004	2,370	809	5,207	(1)
1926	734	46,624	73,694	7,050	1,960	9,850	8,731	2,600	870	7,505	15,300
1927	703	46,149	72,030	7,355	2,265	10,500	8,474	2,950	910	8,864	17,500
1928	[2] 686	45,272	69,963	7,660	2,488	11,037	8,208	3,286	948	10,719	22,032
1929	[2] 671	42,431	67,035	7,001	1,857	11,342	8,749	3,325	946	11,854	23,886
1930	661	40,961	65,127	6,878	1,476	10,900	8,478	[3] 3,000	994	12,790	24,745
New England	62	3,744	5,949	400	102	91	1,212	------	169	1,359	2,279
Maine	11	414	312	8	22	69	62	------	7	5	25
New Hampshire	11	128	176	------	------	1	30	------	4	36	91
Vermont	4	20	7	------	2	1	3	------	3	24	32
Massachusetts	25	1,766	3,660	259	19	12	716	------	6	859	1,312
Rhode Island	3	279	497	22	11	------	95	------	3	180	195
Connecticut	8	1,137	1,297	111	48	8	306	------	146	255	624
Middle Atlantic	159	10,167	24,769	3,168	290	186	2,617	------	224	4,518	6,392
New York	69	4,900	15,935	2,672	182	90	1,452	------	209	904	999
New Jersey	14	1,245	2,034	241	5	------	259	------	------	2,556	3,025
Pennsylvania	76	4,022	6,800	255	103	96	906	------	15	1,058	2,368
East North Central	154	10,445	14,583	1,949	688	3,749	2,071	------	183	3,199	7,925
Ohio	51	3,164	3,439	569	172	486	585	------	47	932	1,855
Indiana	22	2,232	1,612	85	383	519	448	------	27	437	1,155
Illinois	47	3,240	6,253	947	77	2,517	762	------	77	476	1,336
Michigan	19	1,071	2,075	295	33	207	235	------	25	1,028	1,542
Wisconsin	15	738	1,204	53	23	20	41	------	7	326	2,037
West North Central	66	3,395	4,853	290	45	1,057	747	------	62	715	2,119
Minnesota	8	696	1,199	26	1	------	114	------	2	123	460
Iowa	23	928	624	34	13	1,003	191	------	39	216	1,232
Missouri	13	1,140	2,328	186	14	22	334	------	5	189	267
North Dakota	3	23	41	1	------	------	9	------	------	6	7
South Dakota	1	------	------	------	------	------	------	------	------	18	21
Nebraska	4	184	420	20	1	1	66	------	2	49	42
Kansas	14	424	241	23	16	31	33	------	14	114	90
South Atlantic	60	3,394	4,514	279	81	308	500	------	79	996	3,221
Delaware	1	70	101	------	------	------	13	------	------	24	71
Maryland	5	668	1,406	163	28	114	135	------	15	229	1,977
Dist. of Columbia	5	380	849	20	2	11	106	------	6	167	232
Virginia	13	675	634	61	10	7	78	------	16	249	168
West Virginia	10	623	343	------	25	15	48	------	23	80	551
North Carolina	8	312	185	10	4	159	40	------	17	67	48
South Carolina	4	60	74	2	3	------	9	------	------	8	30
Georgia	8	402	560	21	7	------	55	------	2	82	76
Florida	6	204	362	2	2	2	16	------	------	90	68
East South Central	32	1,265	1,723	184	22	7	229	------	5	428	337
Kentucky	7	464	690	71	17	6	95	------	------	302	88
Tennessee	9	434	605	53	2	1	71	------	3	51	130
Alabama	9	325	382	60	3	------	60	------	2	19	26
Mississippi	7	42	46	------	------	------	3	------	------	56	93
West South Central	47	1,718	2,506	97	44	66	262	------	24	619	705
Arkansas	7	117	229	10	2	------	17	------	------	22	17
Louisiana	8	250	760	45	2	------	75	------	------	99	75
Oklahoma	10	363	271	3	12	50	34	------	19	157	185
Texas	22	988	1,246	39	28	16	136	------	5	341	428
Mountain[4]	29	1,671	722	184	41	1,994	172	------	73	123	257
Montana	8	845	105	14	35	1,430	31	------	50	5	4
Idaho	1	------	------	------	------	------	------	------	------	11	17
Wyoming	1	------	------	------	------	------	------	------	------	9	28
Colorado	9	336	365	120	2	220	84	------	9	60	100
Arizona	3	24	33	------	------	------	3	------	------	17	27
Utah	7	468	219	50	4	344	54	------	14	21	81
Pacific	52	5,163	5,508	327	163	3,442	668	------	175	833	1,511
Washington	18	1,269	919	64	93	192	89	------	44	207	870
Oregon	5	520	608	70	4	470	113	------	27	51	40
California	29	3,374	3,981	193	66	2,780	466	------	104	575	601

[1] No report. [2] Includes companies operating busses only (56 in 1928 and 54 in 1929).
[3] Not reported by States. [4] No data for New Mexico and Nevada.
Source: Electric Railway Journal.

No. 463.—ELECTRIC RAILWAYS: INCOME ACCOUNT OF OPERATING COMPANIES

NOTE.—See headnote to Table 459

[All figures except percentages in thousands of dollars]

	All companies					Surface lines		Motor-bus lines, 1927
	1907	1912	1917	1922	1927	1922	1927	
Gross operating revenue	418,188	567,511	709,825	1,016,719	[1] 927,774	910,857	798,754	68,121
Railway operations	400,896	535,996	650,150	925,477	918,869		789,849	67,253
Passenger	382,132	502,652	603,130	854,663	834,601	757,736	713,288	
Baggage, express, and milk	1,561	3,688	4,966	5,285	4,271		4,271	
Freight	5,231	10,165	18,546	31,560	39,125	153,121	39,125	868
Other railway operations	11,972	19,491	23,508	33,969	40,872		33,165	
Auxiliary operations	17,292	31,515	59,675	91,242	[1] 8,905		8,905	
Operating expenses (total)	251,309	332,896	452,595	727,795	694,460	660,135	616,258	66,002
Railway operating expenses	245,140	318,700	421,251	678,563	686,638	612,099	608,436	65,771
Way and structures	28,521	44,270	55,470	102,003	96,285	94,126	85,807	23,717
Equipment	31,486	38,717	48,982	87,236	92,865	77,500	79,249	
Power	43,972	53,599	76,958	107,246	98,602	92,790	84,508	
Conducting transportation	[2] 97,123	[2]129,205	174,973	286,690	294,322	256,957	262,415	42,054
All other	44,038	52,909	64,868	95,388	104,564	90,726	96,457	
Auxiliary operations	6,169	14,196	31,344	49,232	[1] 7,822	48,036	7,822	231
Ratio of expenses to revenue (per cent)	60.1	58.7	63.8	71.6	74.9	72.5	77.2	
Net operating revenue	166,879	234,615	257,230	288,924	[1] 233,313	250,722	182,496	2,119
Taxes	19,756	35,028	45,756	64,788	57,808	58,347	49,594	2,880
Operating income	147,123	199,587	211,474	224,136	175,505	192,375	132,902	[3] 761

[1] Not comparable with corresponding figures for prior years, as a number of companies that formerly reported their light and power departments in "auxiliary operations" furnished complete separate reports for these departments in 1927 which are included in statistics for "Central Electric Light and Power Stations."

[2] Includes superintendence of power. [3] Deficit.

Source: Bureau of the Census, Department of Commerce.

No. 464.—RECEIVERSHIPS OF ELECTRIC RAILWAYS

Year	Placed under receivership				Sold under foreclosure				Receivers' certificates
	Number of companies	Miles of track	Outstanding securities		Number of companies	Miles of track	Outstanding securities		
			Stock	Bonds			Stock	Bonds	
			Dollars	*Dollars*			*Dollars*	*Dollars*	*Dollars*
1909	22	558	29,962,200	22,325,000	21	488	22,265,700	21,174,000	[1]
1910	11	697	12,629,400	75,490,735	22	724	19,106,613	26,374,075	[1]
1911	19	519	29,533,450	38,973,293	25	661	91,354,800	115,092,750	[1]
1912	26	374	20,410,700	11,133,800	18	267	14,197,300	10,685,250	[1]
1913	18	343	31,006,900	47,272,200	17	302	15,243,700	19,094,500	[1]
1914	10	362	35,562,550	19,050,460	11	181	26,239,700	44,094,241	[1]
1915	27	1,152	40,298,050	39,372,375	19	308	30,508,817	16,759,997	[1]
1916	15	359	14,476,600	10,849,200	19	430	13,895,400	22,702,300	[1]
1917	21	1,177	33,918,725	33,778,400	26	745	27,281,900	27,313,045	[1]
1918	29	2,018	92,130,388	163,257,102	23	524	37,740,325	20,149,384	[1]
1919	48	3,781	321,259,354	312,915,104	29	2,675	89,893,400	79,836,738	42,300
1920	19	1,065	28,758,455	72,283,575	13	260	7,782,400	11,227,328	52,000
1921	19	986	32,909,525	36,177,800	13	778	33,642,255	30,863,526	5,000
1922	14	695	18,140,150	20,304,400	13	323	7,491,500	12,640,600	114,683
1923	12	334	8,332,100	14,707,066	15	927	118,077,959	110,638,250	12,265,000
1924	12	1,022	28,489,700	35,716,000	14	869	21,022,800	34,845,535	3,440,388
1925	14	1,260	51,383,195	54,696,525	13	569	18,074,300	18,329,555	53,000
1926	16	1,228	17,769,435	117,560,073	28	1,291	20,054,700	57,340,363	214,000
1927	13	624	17,615,050	20,875,450	16	941	53,345,000	78,445,100	3,140,000
1928	8	262	9,216,700	14,790,700	8	1,004	26,084,325	40,683,400	168,150
1929	5	426	39,035,000	35,138,400	10	510	18,472,995	21,173,700	285,359
1930	12	1,431	85,358,800	108,372,110	8	1,055	36,254,965	44,564,000	

[1] Data not available.

Source: Annual Statistical Number, Electric Railway Journal

No. 465.—ELECTRIC RAILWAYS: COMPARATIVE STATISTICS OF SUBWAY AND ELEVATED LINES [1]

	1907	1912	1917	1922	1927
Number of companies	6	7	7	7	[2] 4
Miles of track [3]	420.4	517.8	666.1	857.9	870.9
Number of cars	4,453	5,706	6,801	8,096	8,654
Passengers carried (thousands)	640,705	1,004,823	1,274,652	1,745,167	2,222,586
Revenue passengers, including pay transfer	635,653	991,062	1,262,509	1,743,284	2,220,794
Revenue car mileage (thousands)	143,634	219,467	247,199	343,346	377,213
Average number of revenue passengers:					
Per mile of all track [4]	1,514,866	1,913,950	2,112,349	2,229,719	2,858,422
Per passenger car hour	[5]	[5]	[5]	90.86	93.80
Salaried employees:					
Number	362	907	1,937	1,372	1,471
Salaries	$569,317	$1,397,898	$2,647,901	$3,008,067	$3,877,475
Wage earners:					
Number	12,501	19,098	26,835	26,007	27,955
Wages	$8,588,493	$13,866,813	$22,092,946	$40,987,936	$47,282,821

[1] Exclusive of the mixed elevated, subway, and surface systems of Boston and Philadelphia which are included in the surface group.
[2] Prior to 1927 four companies in Illinois were consolidated forming the Chicago Rapid Transit Co.
[3] Includes a minor amount of surface trackage.
[4] Average for 1917, 1922, and 1927 based upon running track exclusive of idle track and freight and switching roads; for 1907 and 1912, upon all track exclusive of idle track and freight and switching roads.
[5] No data.

Source: Bureau of the Census, Department of Commerce.

No. 466.—ELECTRIC RAILWAYS: MILEAGE OF ELEVATED AND SUBWAY AND TUNNEL TRACK, BY STATES

NOTE.—In these statistics all track is included; each track of a double or multiple line is counted separately. Mileage expressed in nearest tenth

Class of trackage and State	1907	1912	1917	1922	1927	Class of trackage and State	1907	1912	1917	1922	1927
Elevated, total	362.4	417.8	497.3	601.7	634.2	Subways and tunnels, total	74.8	112.7	218.8	325.6	342.4
New York	200.4	230.8	297.0	362.8	373.0	New York [2]	60.4	70.5	162.4	269.1	281.7
Illinois	125.8	141.9	146.9	163.9	178.7	Massachusetts	7.8	18.5	25.2	27.0	29.4
Pennsylvania	7.7	9.9	16.7	32.4	32.2	New Jersey [3]	------	11.7	12.6	12.6	12.6
Massachusetts	16.7	26.6	26.2	30.1	35.6	Pennsylvania	5.6	8.4	9.0	8.0	9.2
New Jersey	[1] 7.2	4.3	4.4	4.3	4.3	California	------	.3	5.4	5.4	5.9
Missouri	3.2	2.9	3.0	2.9	------	Illinois	.6	1.9	1.9	1.8	1.8
Washington	------	------	------	2.7	7.8	All other States [4]	.4	1.4	2.3	1.7	1.8
Maryland	1.4	1.4	1.4	1.4	1.4						
California	------	------	1.2	1.2	1.2						
Kansas	------	------	.5	------	------						

[1] Includes 3.06 miles of Camden and Atlantic branch of West Jersey & Seashore Railroad Co., tabulated as an electrified division of a steam road in subsequent years.
[2] Excludes 11.68 miles operated in New Jersey.
[3] Includes 11.68 miles owned by a New York company.
[4] Minnesota, Missouri, Rhode Island, and Washington, 1927; Rhode Island, Minnesota, and Missouri, 1922; Connecticut, Minnesota, Missouri, Rhode Island, West Virginia, and Wisconsin, 1917; Kansas, Missouri, Oregon, and Tennessee, 1912; Missouri, 1907.

Source: Bureau of the Census, Department of Commerce.

No. 467.—ELECTRIC RAILWAYS: FINANCES OF ELEVATED AND SUBWAY LINES

NOTE.—All figures in thousand of dollars. Data exclude the mixed elevated, subway, and surface systems of Boston and Philadelphia which are included in the surface group

Account	1907	1912	1917	1922	1927
Income from all sources	34,258	55,246	70,213	108,483	132,135
Operating revenues	33,874	52,239	68,537	105,862	129,020
Operating expenses	15,129	23,613	31,669	67,660	78,202
Net operating revenue	18,745	28,626	36,868	38,202	50,818
Taxes of operating companies	1,986	3,501	5,136	6,441	8,215
Operating income	16,759	25,125	31,732	31,761	42,603
Miscellaneous income	384	3,008	1,676	2,621	3,115
Gross income	17,143	28,133	33,408	34,382	45,718
Deductions from gross income	11,473	18,902	21,347	34,856	33,907
Interest	3,701	9,654	10,442	19,225	23,270
Miscellaneous	7,772	9,248	10,905	15,631	10,637
Net income	5,670	9,231	12,061	[1] *474*	11,811
Dividends	4,009	8,530	10,087		6,250
Surplus	1,661	701	1,974	[1] *474*	5,561

[1] Deficit.

No. 468.—MOTOR-BUS LINES OPERATED DIRECTLY BY ELECTRIC RAILWAYS AND SUBSIDIARY COMPANIES: SUMMARY, 1927

	Total	Operated by—	
		Electric railway companies	Subsidiary companies
Number of companies	301	98	203
Number of routes operated	1,583	482	1,101
Miles of route (round trip)	29,266.98	7,072.92	22,194.06
Miles of street or highway served (one way)	14,298.72	3,312.76	10,985.96
Number of busses, total	8,277	2,064	6,213
Owned	7,818	1,885	5,933
Rented	459	179	280
Single-deck	7,745	1,976	5,769
Owned	7,303	1,797	5,506
Rented	442	179	263
Double-deck	532	88	444
Owned	515	88	427
Rented	17		17
Number of busses in operation	7,681	1,901	5,780
Average number of busses operated in scheduled service during year	6,238	1,585	4,653
Number of passengers carried (thousands)	875,402	214,694	660,708
Revenue passengers	771,806	163,199	608,608
Pay-transfer passengers	12,453	4,583	7,871
Free-transfer passengers	85,235	45,667	39,568
Free passengers	5,907	1,246	4,661
Number of bus miles (thousands)	272,518	65,905	206,613
Revenue miles	270,483	65,068	205,415
Nonrevenue miles	2,035	837	1,198
Number of bus hours (thousands)	24,927	5,716	19,210
Revenue hours	24,571	5,632	18,939
Nonrevenue hours	356	84	271
Number killed or died from injuries	108	15	93
Number injured but not killed	10,082	3,151	6,931
INCOME STATISTICS (thousands of dollars)			
Operating revenues	68,121	15,135	52,986
Transportation revenues	67,253	15,004	52,248
Miscellaneous	868	131	738
Operating expenses	65,771	15,272	50,500
Maintenance of plant and equipment	23,717	5,398	18,319
Operation	36,056	8,554	27,502
General expense including traffic promotion	5,998	1,320	4,678
Net operating revenue, motor-bus lines	2,349	[1] *137*	2,486
Net revenue from auxiliary operations	[1] *231*		*231*
Total net revenues, motor-bus and auxiliary	2,119	[1] *137*	2,255
Taxes	2,880	584	2,295
Operating income, motor-bus and auxiliary	[1] *761*	[1] *721*	[1] *40*
Nonoperating income	295	32	264
Gross income	[1] *466*	[1] *690*	224
Deductions from gross income	1,707	198	1,509
Net income	[1] *2,173*	[1] *888*	[1] *1,285*
Number of employees	16,633	3,619	13,014
Salaried employees	2,333	265	2,068
Wage earners	14,300	3,354	10,946
Salaries and wages (thousands of dollars)	27,564	6,119	21,445
Salaries	3,340	657	2,683
Wages	24,224	5,462	18,762

[1] Deficit.

Source of Tables 467 and 468: Bureau of the Census, Department of Commerce.

21.—WATERWAYS, WATER TRAFFIC, AND SHIPPING

Data in this section cover the following areas unless otherwise indicated: From Board of Engineers of the United States Army, and Bureau of Foreign and Domestic Commerce, United States customs area which includes Alaska, Hawaii, and Porto Rico; from United States Shipping Board, continental United States

General note as to units of measurement.—"Cargo tonnage" represents weight of cargo in long tons (2,240 pounds) or short tons (2,000 pounds). All other tonnage figures refer to capacity of vessels. The terms gross and net tonnage refer to space measurement, 100 cubic feet being called 1 ton. Gross tonnage is the capacity of the entire 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 exemptions. Net or registered tonnage is what remains after deducting from the gross tonnage 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 recorded as "entered with cargo" may bear little relation to actual 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 Displacement tonnage (naval vessels) has reference to weight of the vessel itself with its normal equipment, fuel, etc.

No. 469.—CARGO TONNAGE OF WATER-BORNE COMMERCE OF THE UNITED STATES

[In thousands of short tons of 2,000 pounds]

	1924	1925	1926	1927	1928	1929
Foreign commerce, total	101, 562	108, 547	131, 293	120, 523	126, 768	127, 510
Imports, through seaports	36, 425	42, 792	44, 834	43, 388	46, 690	51, 591
Exports, through seaports	49, 008	49, 251	69, 859	56, 550	56, 151	55, 761
Imports, Great Lakes ports	4, 962	7, 317	6, 424	8, 098	8, 548	6, 385
Exports, Great Lakes ports	11, 167	9, 187	10, 176	12, 487	15, 379	13, 773
Domestic commerce, unadjusted total	384, 454	443, 022	470, 208	473, 118	482, 232	527, 535
Coastwise, between ports	88, 554	105, 090	108, 023	121, 036	119, 254	124, 999
Great Lakes, between ports	93, 188	111, 568	116, 486	113, 917	119, 301	135, 838
Local traffic of seaports and Great Lakes ports[1]	77, 270	64, 981	89, 168	78, 162	77, 925	91, 892
Traffic between seaports and river points	32, 315	47, 214	34, 510	38, 191	37, 672	39, 632
Traffic on rivers, canals, and connecting channels [2]	[3] 93, 127	114, 169	122, 021	121, 812	128, 080	135, 174
Foreign and domestic, unadjusted total	486, 015	551, 568	601, 501	593, 641	609, 000	655, 045
Deduction of duplications:						
Traffic between seaports and river points	32, 315	47, 214	34, 510	38, 191	37, 672	39, 632
Other duplications (canals, etc.)[4]	([5])	20, 954	26, 491	22, 950	32, 128	31, 613
Net total, foreign and domestic	453, 700	483, 400	540, 500	532, 500	539, 200	583, 800
Approximate net total, domestic[6]	352, 139	374, 854	409, 207	411, 977	412, 432	456, 290

[1] Includes the following, with figures for 1929: Harbor traffic of New York, Philadelphia, and San Francisco (55,383,000 tons); local traffic of other seaports (31,161,000); local traffic of lake ports (5,348,000).

[2] Excluding Sault Ste. Marie Canal traffic (92,622,000 tons in 1929) and additional Detroit River traffic (18,098,000 tons in 1929), both of which are already counted in Great Lakes traffic; also excluding duplications relating to rivers and canals themselves.

[3] Not comparable with later years; see note 5.

[4] Principally coastwise and lake traffic passing through canals and connecting channels, other than the Sault Ste. Marie Canal and the Detroit River.

[5] Not available; the figures were for the most part deducted from river and canal traffic.

[6] Estimated from data in this table on the assumption that all the duplications deducted from the grand total represent duplications in domestic traffic; there are, however, some minor cases of duplication connected with foreign traffic.

Source: Board of Engineers for Rivers and Harbors.

No. 470.—COMMERCE OF PRINCIPAL UNITED STATES OCEAN PORTS, 1929

NOTE.—In thousands of short tons of 2,000 pounds. In addition to the commerce here shown, many of the ports have (1) commerce with ports on internal rivers and canals; (2) purely local port traffic, including in the case of New York, Philadelphia, and San Francisco, what is called intraport traffic between parts of a harbor for which separate statistics are maintained. These forms of traffic, although the aggregate tonnage is large, are of much less economic importance than foreign and coastwise traffic

Port	Imports	Exports	Coastwise	
			Receipts	Shipments
Grand total	51,591	55,761	127,778	122,221
Atlantic ports	40,402	19,372	81,161	50,858
Scarsport, Me	8	4	404	1
Portland, Me	697	110	2,158	193
Portsmouth, N. H	55	-------	281	11
Boston Harbor, Mass	3,261	303	12,743	1,712
Beverly, Mass	612	-------	535	103
Salem, Mass	29	-------	467	-------
Lynn, Mass	11	-------	345	-------
New Bedford and Fairhaven, Mass	(1)	(1)	805	98
Fall River, Mass	809	-------	769	595
Newport, R. I	-------	-------	108	8
Providence, R. I	645	(1)	4,122	541
New London, Conn	32	-------	577	130
New Haven, Conn	25	-------	1,903	312
Bridgeport, Conn	12	-------	1,029	107
Stamford, Conn	-------	-------	424	27
Greenwich, Conn	-------	-------	168	15
New York Harbor, N. Y	19,360	11,139	31,773	10,889
Hempstead, N. Y	-------	(1)	168	6,210
Huntington Bay, N. Y	-------	-------	27	1,335
Port Jefferson, N. Y	-------	-------	12	2,699
Philadelphia, Pa.[2]	5,870	2,261	10,163	4,246
Baltimore, Md	6,186	1,532	3,899	1,545
Hampton Roads, Va	854	2,474	1,422	17,806
Wilmington, N. C	250	25	630	52
Charleston Harbor, S. C.[3]	558	204	1,213	253
Savannah, Ga	528	389	982	383
Brunswick, Ga	173	169	341	298
Fernandina, Fla	-------	203	-------	5
Jacksonville, Fla	405	233	1,234	556
Miami, Fla	98	14	301	102
Key West, Fla	157	266	112	1
San Juan, P. R	136	22	501	146
Gulf ports	7,040	18,471	7,145	34,934
Charlotte, Fla	-------	113	5	303
Tampa, Fla	142	1,236	979	1,213
Gulf ports—Con.				
Pensacola, Fla	161	381	334	44
Mobile, Ala	415	967	627	963
Gulfport, Miss	49	313	115	2
New Orleans, La	4,455	4,979	1,984	1,727
Baton Rouge, La	397	1,452	69	2,379
Galveston, Tex	364	2,129	916	1,670
Texas City, Tex	79	153	4	2,221
Houston, Tex	394	4,195	1,268	6,023
Freeport, Tex	-------	296	26	264
Sabine, Tex	-------	45	-------	322
Port Arthur, Tex	355	1,099	418	7,087
Beaumont, Tex	205	330	80	10,403
Corpus Cristi, Tex	8	186	27	18
Pacific ports	4,149	17,918	39,471	36,428
San Diego, Calif	41	11	877	29
Los Angeles, Calif	728	7,886	5,354	14,938
San Luis Obispo, Calif	-------	272	35	671
San Francisco Bay, Calif	1,430	4,012	19,078	6,871
Monterey, Calif	-------	-------	188	40
Humboldt, Calif	-------	107	217	296
Long Beach, Calif	102	345	493	1,572
Coos Bay, Oreg	-------	134	32	332
Portland, Oreg	137	1,500	2,650	1,004
Other ports on Columbia and Willamette Rivers	1	466	181	404
Long View, Wash	3	95	89	230
Grays Harbor, Wash	2	818	186	1,192
Port Gamble, Wash	-------	29	1	165
Olympia, Wash	7	228	43	781
Tacoma, Wash	446	858	1,422	1,488
Seattle, Wash	475	663	4,880	1,945
Everett, Wash	143	230	973	818
Anacortes, Wash	203	37	30	118
Bellingham, Wash	46	74	140	704
Port Angeles, Wash	177	40	137	213
Port Ludlow, Wash	-------	26	1	135
Honolulu, Hawaii	108	11	1,055	802
Kahului, Hawaii	5	-------	173	221
Hilo, Hawaii	23	(1)	161	261

[1] Less than 500 tons. [2] Including Delaware and Schuylkill Rivers, Pa. [3] Including Ashley River.

Source: Annual Report of the Chief of Engineers, United States Army.

No. 471.—GREAT LAKES, COMMERCE OF THE PRINCIPAL PORTS

NOTE.—In thousands of short tons of 2,000 pounds. Foreign imports and exports and coastwise receipts and shipments are included

Port	Receipts				Shipments			
	1926	1927	1928	1929	1926	1927	1928	1929
Total	122,188	120,557	128,325	141,182	127,384	127,862	134,204	150,653
Agate Bay, Minn	250	191	174	184	7,027	6,413	6,432	7,416
Alpena, Mich	229	249	247	289	1,372	1,313	1,578	1,623
Ashland, Wis	760	833	734	856	7,998	7,089	7,259	8,535
Ashtabula, Ohio	10,376	7,954	7,100	8,938	2,068	3,049	4,213	3,435
Buffalo, N. Y.:								
By lake	13,313	14,793	16,213	15,277	3,693	3,069	3,335	2,689
By canal	393	384	-------	-------	998	926	-------	-------

No. 471.—Great Lakes, Commerce of the Principal Ports—Continued

Port	Receipts				Shipments			
	1926	1927	1928	1929	1926	1927	1928	1929
Calcite, Mich.	67	112	138	125	9,041	10,345	11,137	10,694
Charlotte, N. Y. (Rochester)	105	154	174	150	973	862	1,319	1,458
Chicago, Ill.[1]	10,906	11,551	14,542	14,920	1,892	1,875	1,398	1,417
Cleveland, Ohio	11,993	10,730	11,965	14,059	761	1,204	1,363	2,626
Conneaut, Ohio	10,656	8,944	9,283	9,572	2,144	772	1,845	2,874
Detroit, Mich.	4,042	2,424	3,310	4,628	279	422	676	787
Duluth-Superior	11,780	13,816	11,733	12,130	41,915	38,896	41,471	48,256
Erie, Pa.	1,685	1,791	1,310	2,301	1,198	921	874	963
Escanaba, Mich.	578	201	196	185	7,093	6,584	6,111	7,116
Fairport, Ohio	3,495	3,276	3,524	3,737	697	1,567	2,132	1,575
Frankfort, Mich.	898	897	874	925	732	670	777	851
Gary, Ind.	5,967	5,393	7,216	8,728		4	16	102
Grand Haven, Mich.	417	518	627	589	516	720	742	715
Green Bay, Wis.	1,271	1,417	1,348	1,474	266	286	278	311
Huron, Ohio	1,358	1,324	1,140	1,315	612	247	754	781
Indiana Harbor, Ind.	4,646	4,596	5,649	6,189	798	929	1,091	1,302
Kewaunee, Wis.	175	124	227	302	212	209	254	269
Keweenaw Waterway, Mich.	809	957	703	825	68	65	70	40
Lorain, Ohio	4,731	4,511	4,421	4,804	2,104	2,756	2,163	2,328
Ludington, Mich.	985	965	1,075	1,038	1,449	1,447	1,507	1,634
Manistique, Mich.	83	85	81	109	183	184	168	156
Manitowoc, Wis.	1,422	1,422	1,490	1,553	734	846	830	797
Marquette Harbor, Mich.	241	207	207	180	1,018	926	852	981
Marquette Bay, Mich.					2,820	2,720	2,979	4,016
Menominee, Mich. and Wis.	527	514	534	568	285	240	247	254
Milwaukee, Wis.	6,111	6,512	6,197	6,698	1,426	1,721	1,787	1,866
Muskegon, Mich.	310	402	486	523	30	30	153	449
Ogdensburg, N. Y.	643	1,492	563	529	733	45	895	687
Rockport, Mich.	26	15	16	17	1,847	1,760	1,986	1,790
Rouge River, Mich.	3,163	3,069	4,478	5,725	36	72	117	187
Sandusky, Ohio	158	124	105	63	6,934	7,985	7,145	9,710
Sault Ste. Marie, Mich.[2]	764	808	834	821			4	2
Sheboygan, Wis.	458	464	438	431	11	12	10	10
Sturgeon Bay, Wis.	19	25	23	25	381	370	473	1,038
Toledo, Ohio	2,278	1,767	2,745	3,538	14,202	16,799	15,795	16,179
Tonawanda, N. Y.[3]	453	486	317	407		16	2	79
Wyandotte, Mich.	1,159	874	1,477	1,759			11	26
All other	2,485	4,187	4,471	4,694	1,104	1,496	1,959	2,627

[1] Includes Chicago Harbor, Chicago River and Calumet Harbor.
[2] Port of.
[3] By lake and Niagara River.

Source: Annual Reports of the Chief of Engineers, United States Army.

No. 472.—COMMERCE ON THE PRINCIPAL RIVERS, CANALS, AND CONNECTING CHANNELS OF THE UNITED STATES, 1929

Note.—There is much duplication as between different rivers, canals, and channels, and between those different sections of a single river which are separately reported

[In thousands of short tons of 2,000 pounds]

River, canal, or channel	Total	Rafted and floated timber[1]	River, canal, or channel	Total	Rafted and floated timber[1]
ATLANTIC COAST			ATLANTIC COAST—continued		
Penobscot, Me.	666	----	Rappahannock River, Va.	[2] 178	----
Kennebec River, Me.	224	----	Mattaponi River, Va.	91	----
Herring River, Mass.	681	----	Pamunkey River, Va.	169	----
Pawtucket River, R. I.	494	----	York River, Va.	[2] 120	----
Thames River, Conn.	361	----	James River, Va.	1,106	4
Connecticut River (below Hartford)	682	----	Nansemond River, Va.	243	3
Housatonic River, Conn.	129	----	Roanoke River, N. C.	135	42
Hudson River, N. Y.:			Pamlico and Tar Rivers, N. C.	229	80
Middle section	[2] 6,724	----	Neuse River, N. C.	249	60
Upper section	[2] 1,329	----	Cape Fear River, N. C. (above Wilmington)	135	34
Cooper River, N. J.	251	----	Waccamaw River, N. C. and S. C.	77	8
Maurice River, N. J.	271	----	Wando River, S. C.	190	134
Delaware River, Philadelphia, Pa., to Trenton	[2] 5,344	----	Altamaha River, Ga.	85	20
Potomac River (below Washington, D. C.)	2,664	----	St. Johns River, Fla.:		
			Jacksonville to Palatka	292	6
			Palatka to Lake Harney	270	4

[1] Included in the total.
[2] Excludes car ferry, general ferry, and cargoes in transit.

No. 472.—Commerce on the Principal Rivers, Canals, and Connecting Channels of the United States, 1929—Continued

River, canal, or channel	Total	Rafted and floated timber[1]
GULF COAST		
Appalachicola River, cut-off, Lee Slough, and Lower Chipola River, Fla	165	48
Alabama River, Ala	358	148
Black Warrior, Warrior, and Tombigbee Rivers, Ala	1,939	253
Pascagoula River, Miss	63	58
Mobile River, Ala., tributaries	1,350	281
Atchafalaya River, Morgan City to Gulf of Mexico	538	1
Lake Ponchartrain, La	959	--------
Calcasieu River and Pass, La	1,033	--------
MISSISSIPPI RIVER AND TRIBUTARIES		
Ouachita and Black Rivers, Ark. and La	430	4
Arkansas River, Ark. and Okla	235	43
White River, Ark	174	24
St. Francis and L'Angeille Rivers and Blackfish Bayou, Ark	185	174
Mississippi River:		
Between Minneapolis and Cairo Rivers	[2] 1,390	1
Between Cairo and Memphis	[2] 2,328	130
Between Memphis and Vicksburg	[2] 2,835	119
Between Vicksburg and New Orleans	[2] 7,727	58
Missouri River:		
Mouth to Kansas City	[2] 1,158	98
Kansas City to Sioux City	209	4
Cumberland River, Tenn. and Ky. (below Nashville)	315	18
Cumberland River, Tenn. and Ky. (above Nashville)	256	26
Tennessee River	2,186	23
Monongahela River, Pa. and W. Va	[2] 28,908	--------
Allegheny River, Pa	[2] 3,784	--------
Youghiogheny River, Pa	318	--------
Little Kanawha River, W. Va	281	--------
Kanawha River, W. Va	1,532	--------
Ohio River, Ohio	21,955	--------
Muskingum River, Ohio	473	--------
Kentucky River, Ky	156	50
Green and Barren Rivers, Ky	554	14
INTERIOR RIVERS AND OTHER WATERWAYS		
Fox River, Wis	326	--------
Grand River, Mich	410	--------
Niagara River, N. Y	184	--------
San Joaquin River, Calif	941	--------
Sacramento River, Calif	1,129	--------
Umpqua River, Oreg	385	304
Coquille River, Oreg	463	400
Yaquina River, Oreg	377	275
Colombia River from Vancouver to The Dalles	915	432
Clatskamie River, Oreg	229	225
Willamette River (above Portland and Yamhill River, Oreg.)	1,806	1,116
Cowlitz River, Oreg	821	794
Colombia and Willamette Rivers, Wash. and Oreg	8,751	6,530
INTERIOR RIVERS AND OTHER WATERWAYS—continued		
Hoquiam River, Wash	1,698	1,359
Stilaguamish River, Wash	221	119
Snohomish River, Wash	1,904	1,430
Skagit River, Wash	330	237
Chehalis River, Wash	525	525
Wishkah River, Wash	639	537
Pend d'Oreille River, Wash. and Idaho	325	325
Priest River, Idaho	155	155
Coeur d'Alene Lake and St. Joe River, Idaho	690	688
FEDERAL CANALS AND CONNECTING CHANNELS		
Cape Cod Canal, Mass	2,165	--------
Inland waterway from Delaware River to Chesapeake Bay, Del. and Md	709	--------
Waterway from Norfolk, Va., to the sounds of North Carolina	154	13
Inland waterway from Norfolk, Va., to Beaufort Inlet, N. C	664	38
Waterway between Beaufort, S. C., and St. Johns River, Fla	600	90
Intracoastal waterway, Jacksonville to Miami, Fla	108	--------
Channel between Mobile Bay and Mississippi Sound, Ala	515	--------
Intracoastal waterway, Calcasieu River to Sabine River, La. and Tex	925	--------
Harvey Canal, La	344	1
Intracoastal waterway, Mississippi River to Bayou Teche, La. (Black Bayou)	390	3
Sabine-Neches Canal, Tex.:		
Local traffic	31	--------
Traffic in transit	12,127	--------
Keweenaw Waterway, Mich	550	--------
Sturgeon Bay and Lake Michigan Ship Canal, Wis. (through traffic only)	550	--------
St. Marys Falls Canal, Mich	92,622	--------
Detroit River, Mich.[3]	18,098	--------
Lake Washington Ship Canal, Wash	3,235	1,661
Canal and locks at Willamette Falls, Oreg	313	40
STATE AND PRIVATE CANALS		
New York State Barge Canal System	2,876	--------
Lehigh and Delaware Division Canals, Pa	262	--------
New Basin Canal, La	293	--------
Navigation Canal, Inner Harbor, La	949	[4]
Miami Canal, Fla	325	--------
Chicago Sanitary Drainage Canal, Ill	523	--------

[1] Included in total.
[2] Excludes car ferry, general ferry, and cargoes in transit.
[3] Excludes traffic through the St. Marys Falls Canal, which also passes through the Detroit River; the total traffic through the Detroit River was 110,720,000 tons.
[4] Less than 500 tons.

Source: Annual Report of the Chief of Engineers, United States Army.

No. 473.—SAULT STE. MARIE CANALS: GENERAL TRAFFIC STATISTICS

NOTE.—Includes both American and Canadian canals and traffic to and from Canadian as well as American ports. Average distances, ton-miles, freight charges, etc., are based on total haul from port of origin to port of destination in process of performance by vessels passing through the canals

Season	Freight carried (1,000 short tons of 2,000 pounds)					Total ton-miles (millions)	Freight charges		Valuation of freight (millions of dollars)
	Total	Eastbound	Westbound	By American vessels	By Canadian and other foreign vessels		Amount (1,000 dollars)	Average per ton per mile (mills)	
1890	9,041	6,429	2,612	8,679	362	7,207	9,472	1.30	102
1895	15,063	12,030	3,033	14,497	566	12,503	14,239	1.14	160
1900	25,643	20,532	5,111	24,896	747	21,179	24,953	1.18	267
1905	44,271	36,779	7,492	42,061	2,210	36,893	31,421	.85	417
1909	57,895	46,379	11,516	54,265	3,630	46,813	36,292	.78	626
1910	62,363	47,134	15,229	58,569	3,794	52,406	38,711	.74	654
1911	53,477	36,429	17,048	49,844	3,633	44,174	29,492	.67	595
1912	72,473	55,378	17,095	68,469	4,004	60,243	40,578	.67	791
1913	79,718	59,206	20,512	74,789	4,929	65,331	44,381	.68	866
1914	55,370	39,471	15,899	50,469	4,901	46,112	27,597	.60	635
1915	71,290	56,369	14,921	66,877	4,413	59,317	41,984	.71	882
1916	91,888	74,148	17,740	86,174	5,714	75,717	60,845	.80	974
1917	89,814	70,047	19,767	84,685	5,129	73,635	89,277	1.21	1,197
1918	85,680	66,285	19,395	80,958	4,722	70,108	83,508	1.19	987
1919	68,236	52,832	15,404	63,408	4,828	55,612	58,479	1.05	915
1920	79,282	63,464	15,818	74,866	4,416	64,702	85,742	1.33	1,120
1921	48,259	32,113	16,146	43,016	5,243	38,043	43,344	1.14	746
1922	66,067	55,020	11,047	60,812	5,255	53,564	64,154	1.20	957
1923	91,380	71,236	20,144	83,795	7,585	73,218	80,843	1.10	1,026
1924	72,037	56,840	15,197	65,447	6,590	58,579	59,769	1.02	1,080
1925	81,875	67,305	14,570	75,764	6,111	65,577	71,093	1.08	1,118
1926	85,679	69,530	16,149	78,006	7,673	69,360	78,517	1.13	1,064
1927	83,354	64,393	18,961	76,091	7,264	67,387	69,331	1.03	1,132
1928	86,993	70,166	16,827	78,072	8,921	70,259	81,281	1.16	1,183
1929	92,622	74,840	17,782	85,839	6,783	74,881	80,268	1.07	1,000
1930	72,898	57,067	15,831	67,560	5,338	59,058	61,159	1.04	761

	1910	1915	1920	1925	1928	1929	1930
Date of opening canal	Apr. 12	Apr. 13	Apr. 19	Apr. 8	May 1	Apr. 13	Apr. 21
Date of closing canal	Dec. 15	Dec. 20	Dec. 26	Dec. 17	Dec. 16	Dec. 14	Dec. 15
Number of vessels passing	20,899	21,233	18,847	20,650	19,286	19,794	16,818
Registered tonnage of vessels passing, 1,000 net tons	49,856	56,399	58,194	69,240	66,836	68,240	54,829
Eastbound, do	24,725	28,316	29,123	34,653	33,357	34,138	27,418
Westbound, do	25,132	28,083	29,071	34,587	33,479	34,102	27,411
Passengers carried, number	66,933	50,336	68,451	56,956	56,053	54,415	45,303
Freight, eastbound							
1,000 short tons	47,134	56,369	63,464	67,305	70,166	74,840	57,067
Flour, 1,000 bbls	7,576	8,437	7,478	9,289	9,283	9,164	8,532
Wheat, 1,000 bus	86,260	255,482	143,456	292,818	406,760	225,422	243,927
Other grain, do	39,243	64,755	51,630	149,927	131,039	68,127	55,434
Lumber, 1,000 ft. b. m	603,101	456,451	192,854	186,486	187,205	165,435	150,986
Iron ore, 1,000 short tons	41,600	45,212	56,643	53,821	53,225	64,827	46,990
Pig iron, do	49	18	1	28	118	151	43
Manufactured iron, do							48
Stone, do	10	----------	67	24	67	71	62
Copper, do	148	156	52	63	86	64	35
General merchandise, do	173	332	56	107	136	187	163
Freight, westbound							
1,000 short tons	15,229	14,921	15,818	14,570	16,827	17,782	15,831
Coal, do	13,514	13,357	14,156	12,874	14,870	15,832	14,059
Salt, do	78	105	99	58	61	47	54
Oil, do	----------	----------	353	223	321	397	309
Stone, do	----------	----------	496	643	561	515	585
Iron ore, do	3	2	138	53	96	91	61
Manufactured iron and steel, 1,000 short tons	396	194	76	119	186	160	61
General merchandise, do	1,238	1,263	500	600	732	740	703

Source: Annual Report of the Chief of Engineers, United States Army.

No. 474.—NEW YORK STATE CANALS: TONNAGE OF FREIGHT MOVED

NOTE.—In short tons of 2,000 pounds. Tonnage handled over State terminals but not moved through any portion of the canal channel is not included

Yearly average	All canals	Erie division	Yearly average or year	All canals	Erie division			
					Total freight	Grain	Sand, gravel, stone	Petroleum
1837–1840	1,339,016	771,741	1911–1915	2,448,837	1,626,451			
1841–1845	1,613,317	884,522	1916–1920	1,348,365	798,706			
1846–1850	2,781,410	1,556,696	1921–1925	1,905,291	1,548,408	630,453	333,250	191,406
1851–1855	3,976,501	2,141,476	1926–1930	2,904,575	2,397,042	933,602	282,649	397,328
1856–1860	3,911,407	1,889,759	1921	1,270,407	993,639	356,985	247,653	103,400
1861–1865	5,049,341	2,743,929	1922	1,873,434	1,485,109	550,831	337,656	164,176
1866–1870	5,987,724	3,018,359	1923	2,006,284	1,626,062	629,763	375,964	190,104
1871–1875	5,974,097	3,326,073	1924	2,032,317	1,691,766	698,246	365,266	237,018
1876–1880	5,219,888	3,542,020	1925	2,344,013	1,945,466	916,441	330,713	262,331
1881–1885	5,210,389	3,495,590	1926	2,369,367	1,935,278	795,598	287,189	263,202
1886–1890	5,281,441	3,589,631	1927	2,581,892	2,047,774	791,037	325,076	327,616
1891–1895	4,112,061	2,962,528	1928	3,089,998	2,535,684	1,118,788	307,642	343,593
1896–1900	3,544,951	2,446,065	1929	2,876,160	2,422,204	810,385	229,047	398,831
1901–1905	3,335,210	2,144,492	1930	3,605,457	3,044,271	1,152,200	264,202	653,399
1906–1910	3,238,129	2,206,595						

Source: Commissioner of Canals and Waterways, Department of Public Works, State of New York.

No. 475.—PRINCIPAL COMMODITIES CARRIED ON THE OHIO RIVER

NOTE.—In short tons of 2,000 pounds. Ferry traffic is excluded. Totals include small items not shown.

Commodity	Total			1929			
	1927	1928	1929	Inbound	Outbound	Upbound	Downbound
Total	20,128,518	20,938,267	21,955,148	8,604,257	3,486,177	2,889,564	6,975,150
Animals and animal products	32,746	14,015	10,885	4,197	424	5,961	303
Livestock	24,722	7,675	4,902	2,367	178	2,360	67
Poultry and eggs	6,557	3,638	3,414	111	1	3,302	
Hides and leather	149	175	100			5	95
Dairy products	727	483	427	276	2	149	
Vegetable products	40,520	39,670	26,014	366	11,402	9,061	5,185
Groceries	7,421	10,312	7,903	97	3,515	1,691	2,600
Sugar and molasses	739	631	1,334		723	579	32
Grains	22,078	15,904	6,347		1,752	3,709	886
Flour	2,233	2,181	4,088	2	2,843	823	420
Hay, feed, straw	2,902	2,576	2,115	118	942		1,055
Vegetables	1,908	3,001	1,287	100	985	202	
Textiles	1,502	883	1,215	6	199	835	175
Dry goods	1,485	871	1,215	6	199	835	175
Wood and paper	474,045	396,189	318,571	270,849	1,377	13,360	32,985
Furniture	2,284	1,873	1,976	11	304	1,264	397
Logs and lumber	77,171	107,168	119,476	83,247	1,073	6,712	28,444
Railroad ties of wood	294,590	287,041	197,119	187,591		5,384	4,144
Minerals, nonmetallic	18,357,673	18,899,242	19,774,673	7,430,193	3,049,619	2,801,831	6,493,030
Cement	48,540	85,025	116,437	27,129	6,674	56,590	26,044
Sand and gravel	9,187,007	8,521,531	8,709,329	179,195	2,836,319	1,781,650	3,912,165
Stone	386,862	425,555	364,882	75,000	3,724	254,082	32,076
Coal	8,141,217	8,511,185	9,244,421	6,445,786	43,076	357,221	2,398,338
Coke	376,497	649,581	506,953	504,451	2,502		
Fluorspar	6,643	30,744	27,157	3,994	1,726	21,437	
Crude oil	104,262	213,664	452,326	95,365	1,435	325,008	30,518
Gasoline and kerosene	94,580	107,033	136,014	72,932	44,531	3,926	14,625
Other refined oils	6,755	1,903	1,929	167	678	516	568
Ores, metals, etc	981,999	1,346,584	1,595,120	825,648	397,943	15,128	356,406
Iron and steel, unmfd	462,070	650,287	842,945	428,443	321,020	11,696	81,786
Iron and steel, mfd	519,929	696,297	752,175	397,205	76,923	3,427	274,620
Machinery and vehicles	62,052	66,631	70,580	10,758	9,653	5,819	44,350
Machinery	3,380	12,711	9,369	4,582	915	3,585	317
Boats and barges	57,822	51,553	58,104	6,093	8,076	506	43,429
Automobiles and trucks	850	2,367	2,221	82	345	1,530	214
Chemicals	33,178	39,390	37,685	31,481	879	3,786	1,539
Acids, sulphuric	29,459	32,688	29,136	28,060	75	959	42
Fertilizers	2,744	3,191	2,838		180	1,507	1,151
Unclassified	144,800	135,683	120,405	30,759	14,681	33,788	41,177

Source: Annual Report of the Chief of Engineers, United States Army.

No. 476.—OHIO RIVER TRAFFIC: TONNAGE, TON-MILEAGE, AND FREIGHT

NOTE.—Figures exclude ferry traffic. In 1929 the tons of freight carried on ferries were reported as 1,889,723 but the hauls, of course, are very short. The passenger traffic other than on ferries for 1929 was: Passengers, 1,803,528; passenger miles, 24,557,905. Leaders indicate data not available

Year	Freight carried	Ton-miles	Value of freight	Year	Freight carried	Ton-miles	Value of freight
	1,000 short tons	*Thousands*	*1,000 dollars*		*1,000 short tons*	*Thousands*	*1,000 dollars*
1917	4,599	378,491	70,510	1928—Total	20,938	1,344,687	191,519
1918	6,171	315,504	77,685	Up	2,542	----------	27,294
1919	5,004	604,751	88,912	Down	6,705	----------	44,769
1920	9,382	1,183,915	223,443	Inbound	8,059	----------	82,618
1921	7,308	844,895	93,275	Outbound	3,633	----------	36,839
1922	6,292	807,793	144,796				
1923	8,231	----------	110,022	1929—Total	21,955	1,512,585	192,308
1924	10,867	----------	128,356	Up	2,890	----------	28,113
1925	15,737	825,497	151,622	Down	6,975	----------	47,377
1926	19,755	----------	150,086	Inbound	8,604	----------	86,415
1927	20,129	1,214,491	168,423	Outbound	3,486	----------	30,403

No. 477.—LOWER MISSISSIPPI RIVER TRAFFIC: FREIGHT BY SECTIONS, AND PETROLEUM AT BATON ROUGE

NOTE.—**In short tons of 2,000 pounds.** Each section of the river is treated separately and some of the traffic of each is duplicated in others. The section "Between Ohio and Illinois Rivers" for 1923 to 1927 was reported as "Between Ohio and Missouri Rivers." Ferry traffic is not included

Year	Between Ohio and Illinois Rivers		Cairo to Memphis		Memphis to Vicksburg		Vicksburg to New Orleans		Petroleum, Baton Rouge	
	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound	Down-bound	Up-bound to	Down-bound from
1923	263,729	459,339	395,828	652,494	724,953	727,884	1,583,880	3,909,417	746,381	2,614,074
1924	300,009	438,719	528,431	624,590	917,475	748,965	1,589,202	6,044,075	766,463	3,872,316
1925	420,246	583,323	651,002	1,037,652	1,391,234	1,821,025	1,363,254	7,738,396	467,616	5,359,639
1926	420,379	585,600	732,729	927,459	1,165,142	3,627,638	1,462,325	9,612,163	529,590	6,116,517
1927	448,459	659,743	839,718	1,304,599	1,371,134	2,986,963	1,727,352	7,089,393	354,117	4,447,025
1928	474,173	956,010	855,631	1,675,625	1,856,842	2,946,998	1,630,541	6,974,085	379,942	4,601,718
1929	309,986	581,770	699,019	1,629,315	1,362,443	1,472,617	1,530,519	6,196,864	465,521	3,830,807

	Between Ohio and Illinois Rivers		Cairo to Memphis		Memphis to Vicksburg		Vicksburg to New Orleans	
	1928	1929	1928	1929	1928	1929	1928	1929
Upbound	474,173	309,986	855,631	699,019	1,856,842	1,362,443	1,630,541	1,530,519
Coffee, cocoa, and spices	17,970	12,204	21,485	14,490	26,415	19,436	27,280	19,500
Sugar	67,612	95,776	193,227	281,649	273,085	383,115	285,693	402,846
Sisal and hemp	31,203	20,102	37,025	30,355	37,054	30,415	37,054	30,406
Burlap and bagging	8,801	13,165	9,842	13,561	13,734	18,075	13,734	18,107
Logs, barged	41,278	31,170	91,822	43,596	224,721	174,455	32,967	19,526
Petroleum and products	9,859	2,466	5,412	17,055	221,862	23,070	649,397	740,576
Receipts at Baton Rouge	----------	----------	----------	----------	----------	----------	379,942	465,521
Shipments from Baton Rouge	----------	----------	----------	----------	----------	----------	202,816	----------
Gravel and sand	----------	----------	78,941	16,536	199,963	53,696	100	----------
Cement	84	2,772	2	----------	2,488	3,430	1,075	1,174
Bauxite ore	171,815	----------	343,958	136,928	343,958	136,928	343,958	136,928
Sulphur	267	5,180	1,904	26,750	1,904	26,750	1,904	26,750
All other	125,284	127,151	72,001	118,099	511,658	493,073	287,379	134,706
Downbound	956,010	581,770	1,675,625	1,629,315	2,946,998	1,472,617	6,974,085	6,196,864
Wheat	99,441	62,341	100,102	97,549	100,134	97,549	100,102	97,549
Corn	39,535	9,232	72,497	55,363	72,484	55,363	72,499	55,388
Tobacco	----------	----------	1,147	511	23,111	11,450	23,129	11,449
Cotton, raw	----------	----------	310	7	67,906	65,877	84,428	96,174
Logs, barged	27,855	23,538	197,929	167,898	240,366	156,445	128,618	15,477
Logs, rafted or floated		959	36,000	130,320	105,166	119,393	141,037	58,444
Coal and coke	23,826	8,888	148,451	150,535	106,071	49,511	115,532	295
Petroleum and products	11,437	6,494	194	161	998,231	10,171	5,774,326	5,315,974
Receipts at Baton Rouge	----------	----------	----------	----------	----------	----------	992,129	959,217
Shipments from Baton Rouge	----------	----------	----------	----------	----------	----------	4,601,718	3,830,807
Stone	341,364	172,035	111,141	82,135	155,590	189,148	1,200	6,738
Gravel and sand	19,617	----------	405,591	196,888	313,237	65,365	83,250	----------
Bauxite ore concentrates	5,940	2,996	12,958	8,907	12,958	8,907	12,958	8,907
Iron and steel manufactures	30,966	29,960	280,960	347,864	129,843	144,944	126,160	135,314
All other	356,029	265,327	308,345	391,177	621,401	498,494	310,846	395,155

Source of Tables 476 and 477: Annual Reports of the Chief of Engineers, United States Army.

No. 478.—UNITED STATES MERCHANT MARINE: DOCUMENTED TONNAGE

NOTE.—For definition of "gross ton" see general note, p. 449. All data after 1840 are as of June 30

Year	Number			Thousands of gross tons			Tonnage (thousands of gross tons) employed in—			
	Total	Steam and motor	All other[1]	Total	Steam and motor	All other[1]	Foreign trade	Coastwise and internal trade	Whale fisheries	Cod and mackerel fisheries
1789[2]	-------	-------	-------	202	-------	202	124	69	-------	9
1800[2]	-------	-------	-------	972	-------	972	667	272	3	29
1810[2]	-------	-------	-------	1,425	-------	1,425	981	405	4	35
1820[2,3]	-------	-------	-------	1,280	-------	1,280	584	588	36	72
1830[2,3]	-------	-------	-------	1,192	64	1,127	538	517	40	98
1840[4]	-------	-------	-------	2,181	202	1,978	763	1,177	137	104
1850	-------	-------	-------	3,535	526	3,010	1,440	1,798	146	152
1860	-------	-------	-------	5,354	868	4,486	2,379	2,645	167	163
1870	28,998	3,524	25,474	4,247	1,075	3,171	1,449	2,638	68	91
1880	24,712	4,717	19,995	4,068	1,212	2,856	1,314	2,638	38	78
1890	23,467	5,965	17,502	4,424	1,859	2,565	928	3,409	19	68
1900	23,333	7,053	16,280	5,165	2,658	2,507	817	4,287	10	52
1910	25,740	12,452	13,288	7,508	4,900	2,608	783	6,669	9	47
1915	26,701	15,948	10,753	8,389	5,944	2,446	1,863	6,486	9	32
1918	26,711	16,658	10,053	9,925	7,471	2,453	3,599	6,282	4	38
1919	27,513	17,651	9,862	12,907	10,416	2,492	6,665	6,201	4	36
1920	28,183	18,814	9,369	16,324	13,823	2,501	9,925	6,358	4	38
1921	28,012	19,071	8,941	18,282	15,745	2,537	11,077	7,163	4	37
1922	27,358	18,960	8,398	18,463	15,982	2,481	10,720	7,703	4	36
1923	27,017	18,946	8,071	18,285	15,821	2,463	9,069	9,177	4	35
1924	26,575	18,750	7,825	17,741	15,315	2,425	8,794	8,911	3	32
1925	26,367	18,637	7,730	17,406	14,976	2,430	8,151	9,216	4	35
1926	26,343	18,689	7,654	17,311	14,848	2,463	7,719	9,552	3	38
1927	25,778	18,384	7,394	16,888	14,507	2,381	7,309	9,533	8	38
1928	25,385	18,270	7,115	16,683	14,347	2,336	6,934	9,706	7	36
1929	25,326	18,319	7,007	16,477	14,162	2,315	6,906	9,526	7	39
1930	25,214	18,211	7,003	16,068	13,757	2,311	6,296	9,723	7	42

Classes	Number					Thousands of gross tons				
	1910	1920	1925	1929	1930	1910	1920	1925	1929	1930
By utilization:										
Registered—										
Foreign trade	1,490	5,932	4,695	4,365	4,175	783	9,925	8,151	6,906	6,296
Whale fisheries	36	26	19	14	14	9	4	4	7	7
Enrolled—										
Coasting and internal trade	13,654	12,181	12,586	12,392	12,497	6,555	6,233	9,097	9,411	9,608
Cod and mackerel fisheries	395	196	185	233	261	39	32	29	32	36
Licensed—										
Coasting and internal trade	9,328	9,463	8,599	8,043	8,004	114	124	119	115	115
Cod and mackerel fisheries	837	385	283	279	263	8	6	6	6	6
By location:										
Atlantic and Gulf[5]	17,084	16,850	15,723	14,414	14,321	3,523	9,739	11,108	10,262	9,904
Pacific[6]	3,574	6,512	6,035	6,396	6,466	937	3,326	3,282	3,294	3,227
Northern lakes	3,273	3,091	2,677	2,513	2,450	2,895	3,139	2,853	2,771	2,758
Western rivers	1,809	1,730	1,932	2,003	1,977	154	120	162	179	178
By power:										
Sail	8,947	4,030	2,533	1,711	1,584	1,655	1,272	1,125	825	757
Steam[7]	12,452	8,103	7,454	6,400	6,087	4,900	13,466	14,495	13,301	12,775
Motor[7]	-------	10,711	11,183	11,919	12,124	-------	357	481	861	982
Canal boats	674	448	342	253	226	74	52	40	32	29
Barges	3,667	4,891	4,855	5,043	5,193	878	1,177	1,264	1,457	1,525
By material:										
Wood	23,527	23,781	21,384	20,255	20,211	3,391	3,876	2,907	2,567	2,554
Metal	2,213	4,402	4,983	5,071	5,003	4,117	12,448	14,499	13,910	13,514

[1] Sailing vessels, canal boats, and barges. [2] Dec. 31.
[3] The decrease of tonnage arises principally from the registered tonnage having been corrected in 1818, 1829, and 1830 by striking off all vessels the registers of which were granted prior to 1815, which were supposed by the collectors to have been lost at sea, captured, etc.
[4] Sept. 30.
[5] Including Porto Rico in all years shown and Virgin Islands beginning 1920.
[6] Including Hawaii and Alaska. [7] Motor vessels included in steam in 1910

Source: Reports of the Commissioner of Navigation.

No. 479.—UNITED STATES MERCHANT MARINE: LARGER SEAGOING VESSELS, BY CLASSES AND SIZE, AS OF JULY 1

NOTE.—For definition of "gross ton" see general note, p. 449. The number and tonnage reached their maximum in 1921

	Number					Thousands of gross tons				
	1921	1925	1928	1929	1930	1921	1925	1928	1929	1930
Vessels of 500 gross tons or over, total	**3,723**	**3,143**	**2,695**	**2,581**	**2,409**	**13,234**	**12,056**	**11,164**	**10,978**	**10,482**
Private ownership	1,925	1,925	1,934	1,953	1,931	5,241	6,217	7,054	7,662	7,818
Shipping Board [1]	1,798	1,218	761	628	478	7,994	5,840	4,110	3,316	2,664
Steam and gas	2,888	2,432	2,139	2,082	1,949	12,216	11,143	10,532	10,316	9,854
Sailing and unrigged	835	711	556	499	460	1,019	913	632	662	629
Foreign trade	2,559	1,702	1,201	1,230	1,117	10,621	7,517	6,162	6,571	5,009
Coasting trade	1,164	1,441	1,494	1,351	1,292	2,614	4,539	5,002	4,407	5,474
Steel	2,549	2,394	2,122	2,061	1,927	11,441	11,141	10,461	10,334	9,871
Wood	1,174	749	573	520	482	1,793	916	703	644	611
Power vessels of 1,000 gross tons and over, total	**2,752**	**2,322**	**2,037**	**1,985**	**1,858**	**12,116**	**11,061**	**10,358**	**10,243**	**9,785**
Steel	2,387	2,243	1,982	1,931	1,806	11,210	10,913	10,259	10,146	9,693
Wood	365	79	55	54	52	906	147	99	98	92
Passenger	238	193	202	201	200	1,271	1,227	1,317	1,323	1,343
Freight	2,145	1,739	1,447	1,403	1,273	8,620	7,477	6,669	6,542	6,023
Tank	351	375	374	367	371	2,124	2,274	2,297	2,303	2,339
Refrigerator	18	15	14	14	14	101	83	75	75	75
Steam engine	2,697	2,259	1,951	1,883	1,743	11,984	10,869	10,024	9,807	9,273
Oil burning	1,595	1,720	1,613	[2] 1,575	[2] 1,498	8,240	8,875	8,647	8,531	8,202
Coal burning	1,102	559	338	308	245	3,744	1,994	1,377	1,276	1,071
Oil engine (internal-combustion)	55	[3] 63	[3] 86	[3] 102	[3] 115	132	192	334	436	513
Size—gross tons:										
1,000 to 1,999	151	137	116	113	114	234	208	174	170	172
2,000 to 2,999	879	569	357	330	268	2,269	1,403	949	889	668
3,000 to 3,999	362	285	227	211	179	1,232	1,011	751	693	606
4,000 to 4,999	199	213	213	210	198	922	994	996	983	915
5,000 to 5,999	558	345	508	502	489	3,110	2,210	2,823	2,788	2,716
6,000 to 6,999	337	504	341	336	318	2,149	2,818	2,177	2,146	2,044
7,000 to 7,999	158	149	145	144	144	1,164	1,099	1,067	1,059	1,059
8,000 to 8,999	54	56	59	48	64	451	468	494	707	534
9,000 to 9,999	10	22	26	25	32	96	240	249	239	303
10,000 and over	44	42	45	66	52	548	611	678	570	767

[1] One thousand gross tons or over; the Shipping Board fleet is almost wholly of such vessels.
[2] Includes 9 vessels of 96,026 gross tons, equipped with electric screw.
[3] Includes 12 vessels of 40,533 gross tons, propelled by electrically driven screws.

No. 480.—VESSELS BUILT IN THE UNITED STATES AND DOCUMENTED FOR AMERICAN SHIPOWNERS: YEARS ENDED JUNE 30

Yearly average or year	Number	Gross tons	Year	Number	Gross tons
1797–1800	----------	72,574	1912	1,505	232,669
1801–1810	----------	[1] 102,452	1913	1,475	346,155
1811–1820	----------	89,797	1914	1,151	316,250
1821–1830	790	89,372	1915	1,157	225,122
1831–1840	924	118,960	1916	937	325,413
1841–1850	1,195	185,309	1917	1,297	664,479
1851–1860	1,466	366,603	1918	1,528	1,300,868
1861–1870	1,654	299,602	1919	1,953	3,326,621
1871–1880	1,455	253,800	1920	2,067	3,880,639
1881–1890	1,056	230,197	1921	1,361	2,265,115
1891–1900	1,055	235,699	1922	845	661,232
1901–1910	1,311	418,178	1923	770	335,630
1911–1920	1,449	1,090,938	1924	1,049	223,968
1921–1925	998	737,158	1925	967	199,846
1926–1930	928	222,054	1926	924	224,673
1908	1,457	614,216	1927	917	245,144
1909	1,247	238,090	1928	969	257,180
1910	1,361	342,068	1929	808	128,976
1911	1,422	291,162	1930	1,020	254,296

[1] Nine-year average, there being no record of the tonnage for 1802.
Source of Tables 479 and 480: Reports of the Commissioner of Navigation.

No. 481.—VESSELS BUILT IN UNITED STATES: BY CLASSES AND REGIONS

NOTE.—For definition of "gross ton" see general note p. 449. Data are for years ended June 30

Class and where built	1901–1910, average	1911–1915, average	1916–1920, average	1921–1925, average	1926–1930, average	1928	1929	1930
BUILT AND DOCUMENTED IN THE UNITED STATES								
Total.....number..	1,311	1,342	1,556	998	928	969	808	1,020
Gross tons.....	418,178	282,272	1,899,604	737,190	222,054	257,180	128,976	254,296
Sailing.....number..	300	70	82	38	9	5	13	8
Gross tons.....	59,857	16,339	70,599	27,685	365	230	797	210
Steam and gas...number..	681	911	1,111	697	646	675	570	677
Gross tons.....	287,593	200,669	1,734,206	639,341	148,737	172,901	75,725	172,969
Canal boats.....number..	46	36	19	9	5	1	5	----
Gross tons.....	5,022	4,099	2,613	1,043	952	140	967	----
Barges.....number..	284	325	344	254	268	288	220	335
Gross tons.....	65,705	61,164	92,096	69,121	71,999	83,909	51,487	81,117
Metal.....gross tons..	270,852	181,166	1,511,043	631,109	151,808	201,437	78,121	167,081
Wood.....do....	147,326	101,106	388,561	106,081	70,246	55,743	50,855	87,215
Gross tons built on:								
New England coast.....	59,491	21,474	112,835	45,913	10,874	11,434	12,766	18,601
Middle Atlantic and Gulf coasts.....	130,226	149,941	833,438	442,721	123,600	146,532	71,750	143,656
Pacific coast.....	34,482	34,439	687,076	174,926	28,612	23,715	20,253	30,859
Northern lakes.....	184,724	69,794	260,138	58,317	45,292	50,478	13,701	54,365
Western rivers.....	9,256	6,623	6,117	15,313	13,676	25,021	10,506	6,815

BUILT FOR FOREIGNERS[1]

	1915	1916	1917	1918	1919	1920	1921	1922	1923	1926	1927	1928	1929	1930
Number.....	5	36	41	22	59	23	33	10	4	7	9	12	12	11
Gross tons..	275	2,949	124,560	48,531	121,098	39,507	65,938	55,991	17,408	272	610	1,228	1,209	2,746

[1] None were built for foreigners in 1924 and 1925.

Source: Reports of the Commissioner of Navigation.

No. 482.—MERCHANT VESSELS LAUNCHED: WORLD TOTAL AND UNITED STATES

NOTE.—Vessels of 100 gross tons and over. For definition of "gross ton" see general note, p. 449. Vessels under construction Dec. 31, 1930, numbered 502 of 2,326,086 gross tons

Calendar year	World				United States	
	Total		Steam and motor			
	Number	Gross tons	Number	Gross tons	Number	Gross tons
1910–1914, average.....	1,533	2,739,079	1,180	2,631,779	162	252,864
1915–1920, average[1].....	1,488	4,046,860	1,296	3,918,746	518	1,877,382
1921–1925, average.....	942	2,578,620	830	2,531,592	99	313,321
1926–1930, average.....	873	2,468,515	808	2,427,929	74	158,788
1921.....	1,377	4,341,679	1,205	4,274,375	173	1,006,413
1922.....	851	2,467,084	745	2,425,729	59	119,138
1923.....	701	1,643,181	620	1,614,790	83	172,817
1924.....	924	2,247,751	838	2,200,741	79	139,463
1925.....	855	2,193,404	742	2,142,325	101	128,776
1926.....	600	1,674,977	525	1,630,134	78	150,613
1927.....	802	2,285,679	734	2,239,522	66	179,218
1928.....	869	2,699,239	809	2,660,321	63	91,357
1929.....	1,012	2,793,210	981	2,774,191	63	126,063
1930.....	1,084	2,889,472	991	2,835,476	100	246,687

[1] Figures during the war period are shown only for allied and neutral countries.

Source: Lloyd's Register of Shipping.

No. 483.—MERCHANT MARINE OF THE WORLD AND THE UNITED STATES

NOTE.—Vessels of 100 tons and over. Prior to 1919 tonnage figures are gross for steamers and net for sailing vessels, thereafter gross for both. Wooden vessels on the Great Lakes and vessels on the Caspian Sea are not included. Japanese sailing vessels and most sailing vessels belonging to Greece, Turkey, and southern Russia are not included. Figures for Philippine Islands are included with United States beginning with 1910. See general note, p. 449

Year	World total	United States	Year	World total	United States	Year	World total	United States
	1,000 tons	*1,000 tons*		*1,000 tons*	*1,000 tons*		*1,000 tons*	*1,000 tons*
1895	25,086	2,165	1920	57,314	16,049	1926	64,784	14,879
1900	28,957	2,750	1922	64,371	17,062	1927	65,193	14,670
1905	35,998	3,996	1923	65,166	16,945	1928	66,955	14,633
1910	41,913	5,059	1924	64,024	15,957	1929	68,074	14,482
1915	49,262	5,893	1925	64,641	15,377	1930	69,608	14,046

	Number					Thousands of tons (see headnote)					
	1910	1920	1925	1929	1930	1910	1914	1920	1925	1929	1930
World total	30,058	31,595	32,916	32,482	32,713	41,915	49,090	57,314	64,641	68,074	69,608
Steam and motor	22,008	26,513	29,205	29,612	29,996	37,291	45,404	53,905	62,380	66,407	68,024
Steel and iron	20,403	23,382	26,468	27,191	27,595	36,769	44,934	51,661	61,317	65,654	67,304
Wood and composite	1,605	3,131	2,737	2,421	2,401	521	470	2,244	1,063	754	720
Sailing	8,050	5,082	3,711	2,870	2,717	4,624	3,686	3,409	2,261	1,667	1,584
Steel and iron	2,115	1,314	919	759	742	2,508	2,095	1,524	954	678	654
Wood and composite	5,935	3,768	2,792	2,111	1,975	2,116	1,590	1,885	1,307	989	930
United States	3,469	5,457	4,882	4,383	4,223	5,059	5,368	16,049	15,377	14,482	14,046
Steam and motor	1,712	4,110	3,921	3,635	3,517	3,827	4,330	14,574	14,272	13,592	13,202
Steel and iron	1,270	3,242	3,349	3,105	3,001	3,602	4,120	13,341	13,882	13,291	12,914
Wood and composite	442	868	572	530	516	226	210	1,234	391	300	288
Sailing	1,757	1,347	961	748	706	1,232	1,038	1,475	1,105	890	844
Steel and iron	139	154	155	148	147	245	236	304	323	293	288
Wood and composite	1,618	1,193	806	600	559	987	803	1,171	782	597	556

No. 484.—EXPENSES AND REVENUES OF THE PANAMA CANAL

Year ended June 30—	Transit operations					Business operations		
	Tolls	Taxes, licenses, fees, fines, postal receipts, etc.	Total transit revenues	Net canal transit expenses	Net revenues (surplus)	Business revenues	Business expenses	Net revenues (surplus)
1916	2,399,830	$158,712	2,558,542	6,999,750	[1] *4,441,208*	6,488,522	6,476,623	11,898
1917	5,631,782	176,617	5,808,399	6,788,048	[1] *979,649*	7,579,588	7,540,161	39,428
1918	6,264,766	147,078	6,411,843	5,920,343	491,500	10,324,072	10,317,912	6,160
1919	6,156,119	197,898	6,354,017	6,112,195	241,822	13,684,881	13,623,854	61,027
1920	8,493,083	442,789	8,935,872	6,548,272	2,387,599	14,705,372	14,465,686	239,686
1921	11,261,919	778,197	12,040,117	9,328,300	2,711,817	15,232,317	14,668,106	564,211
Total, 1914 to 1921 [2]	44,565,501	1,901,291	46,466,792	45,986,067	480,725	70,840,125	69,979,538	860,587
Adjusted status to 1921 [2]	44,565,501	1,420,566	45,986,067	45,986,067		71,459,710	70,359,400	1,100,310
1922	11,193,383	192,209	11,385,592	7,919,018	3,466,575	7,747,228	7,423,968	323,259
1923	17,507,631	184,214	17,691,844	7,690,778	10,001,067	10,872,843	9,732,201	1,140,643
1924	24,289,603	392,251	24,681,854	8,373,905	16,307,949	12,968,777	12,067,153	901,624
1925	21,374,664	207,954	21,582,618	8,116,693	13,465,925	14,564,115	13,798,198	765,917
1926	22,927,456	217,680	23,145,137	7,993,468	15,151,668	15,874,478	15,033,168	841,310
1927	24,217,185	391,624	24,608,809	8,997,715	15,611,094	15,878,655	15,002,118	876,537
1928	26,943,513	232,533	27,176,046	8,951,201	18,224,845	16,929,247	16,192,528	736,719
1929	27,123,534	243,391	27,366,926	9,637,151	17,729,775	17,236,785	16,498,935	737,850
1930	27,077,117	349,255	27,426,373	9,343,921	18,082,452	19,865,895	19,104,924	760,972
Grand total	247,219,588	3,831,677	251,051,265	123,009,917	128,041,348	203,397,733	195,212,593	8,185,141

[1] Deficit.

[2] To and including 1921 "Net revenues from business operations" shown in last column are included in "Taxes, licenses, etc.," "Total transit revenues," and "Net revenues from transit operations"; therefore the $480,725 shown under the latter is the net revenue to June 30, 1921, from all operations. In the adjusted total this item is transferred to "Surplus from business operations" by deducting from the amount shown in this column $379,862, which is added to "Business expenses." To "Business revenues," and to "Surplus from business operations," is also added $619,585 interest on public works in Panama and Colon received prior to June 30, 1921, but not taken up as a canal revenue.

Sources: Table 483, Lloyd's Register; Table 484, Report of the Governor of the Panama Canal.

No. 485.—COMMERCIAL TRAFFIC THROUGH THE PANAMA CANAL: By Nationality of Vessel

Note.—See general note, p. 449. Net tonnage is according to Panama Canal measurement

Nationality and year ended June 30	Number of vessels	Net tonnage (thousands)	Tolls (thousands of dollars)	Tons of cargo (thousands)	Nationality and year ended June 30	Number of vessels	Net tonnage (thousands)	Tolls (thousands of dollars)	Tons of cargo (thousands)
Total traffic:					Japanese:				
1915–1930, total	59,431	263,955	247,512	275,979	1915–1930, total	1,994	9,326	9,848	11,608
1915	1,075	3,793	4,368	4,888	1929	155	775	810	980
1916	758	2,396	2,408	3,094	1930	163	803	851	1,010
1917	1,803	5,799	5,627	7,059	Chilean:				
1918	2,069	6,574	6,439	7,532	1915–1930, total	851	2,645	2,353	1,552
1919	2,024	6,125	6,173	6,917	1929	31	131	137	99
1920	2,478	8,546	8,514	9,374	1930	46	164	154	106
1921	2,892	11,416	11,277	11,599	Danish:				
1922	2,736	11,417	11,193	10,885	1915–1930, total	928	3,471	3,302	4,625
1923	3,967	18,606	17,508	19,568	1929	101	417	379	518
1924	5,230	26,149	24,291	26,995	1930	91	382	353	506
1925	4,673	22,855	21,401	23,959	Dutch:				
1926	5,197	24,775	22,931	26,037	1915–1930, total	1,246	6,008	5,451	6,148
1927	5,475	26,228	24,229	27,748	1929	149	691	596	696
1928	6,456	29,459	26,944	29,631	1930	141	671	572	619
1929	6,413	29,838	27,127	30,663	Peruvian:				
1930	6,185	29,981	27,077	30,030	1915–1930, total	915	2,335	1,797	1,480
United States:					1929	48	109	77	70
1915–1930, total	26,583	127,558	119,150	136,597	1930	2	9	10	13
1915	459	1,700	2,003	2,188	French:				
1916	213	653	724	849	1915–1930, total	1,140	4,746	4,805	4,657
1917	404	1,239	1,238	1,476	1929	115	535	533	531
1918	567	1,704	1,714	2,098	1930	124	628	583	577
1919	784	2,257	2,327	2,759	Swedish:				
1920	1,129	3,791	3,806	4,547	1915–1930, total	869	3,605	3,032	5,172
1921	1,210	4,862	4,785	5,163	1929	144	619	520	846
1922	1,095	4,972	4,867	4,951	1930	125	572	473	832
1923	1,994	10,209	9,474	11,055	Spanish:				
1924	2,947	15,807	14,483	16,654	1917–1930, total	373	1,220	1,179	863
1925	2,326	12,271	11,302	13,080	1929	32	118	117	95
1926	2,432	12,565	11,540	13,711	1930	2	4	6	8
1927	2,685	13,915	12,720	15,242	Italian:				
1928	2,753	13,753	12,646	14,249	1915–1930, total	640	3,057	3,023	2,279
1929	2,700	13,326	12,300	14,076	1929	83	492	447	334
1930	2,885	14,534	13,221	14,499	1930	66	429	385	264
British:					German:				
1915–1930, total	17,048	77,334	73,163	75,621	1920–1930, total	1,946	7,303	6,528	8,067
1929	1,783	8,995	8,025	8,331	1929	402	1,405	1,222	1,482
1930	1,536	8,007	7,198	7,573	1930	377	1,433	1,236	1,383
Norwegian:					Miscellaneous:				
1915–1930, total	3,084	11,331	10,237	12,384	1915–1930, total	1,814	4,017	3,643	4,426
1929	340	1,280	1,123	1,505	1929	330	947	842	1,096
1930	371	1,660	1,410	1,808	1930	256	684	625	827

No. 486.—COMMERCIAL TRAFFIC THROUGH PANAMA CANAL: By Direction

Note.—A to P=Atlantic to Pacific; P to A=Pacific to Atlantic. See also general note, p. 449

Years ended June 30—	Number of vessels	Thousands of gross tons	Thousands of net tons [1]	Thousands of cargo tons		
				Total	A to P	P to A
1916	758	3,597	2,396	3,094	1,369	1,725
1917	1,803	8,531	5,799	7,059	2,929	4,129
1918	2,069	9,371	6,574	7,532	2,639	4,893
1919	2,024	7,877	6,125	6,917	2,740	4,176
1920	2,478	11,060	8,546	9,374	4,093	5,282
1921	2,892	14,522	11,416	11,599	5,892	5,707
1922	2,736	14,361	11,417	10,885	5,496	5,389
1923	3,967	23,633	18,606	19,568	7,086	12,482
1924	5,230	33,412	26,149	26,995	7,860	19,135
1925	4,673	29,148	22,855	23,950	7,398	16,560
1926	5,197	31,673	24,775	26,037	8,037	18,000
1927	5,475	33,556	26,228	27,748	8,583	19,165
1928	6,456	37,203	29,459	29,631	8,310	21,321
1929	6,413	37,465	29,838	30,663	9,883	20,780
1930	6,185	37,431	29,981	30,030	9,475	20,555

[1] Panama Canal measurement.

Source of Tables 485 and 486: Report of the Governor of the Panama Canal.

No. 487.—CARGO TONNAGE THROUGH PANAMA CANAL: BY ORIGIN AND DESTINATION, YEARS ENDED DECEMBER 31

[In thousands of cargo tons of 2,240 pounds]

Origin and destination	Atlantic to Pacific			Origin and destination	Pacific to Atlantic		
	1928	1929	1930		1928	1929	1930
Grand total	9,066	10,166	8,064	Grand total	20,336	21,284	19,784
To W. coast United States[1]	3,908	4,434	3,536	To E. coast United States	10,745	12,079	11,144
To W. coast other N. America	500	589	479	To E. coast other N. America	1,224	1,076	1,072
To W. coast S. America	1,234	1,578	1,192	To Europe	8,188	7,963	7,401
To Asia	2,061	2,098	1,797	To Africa and S. America	179	166	167
To Australasia	1,363	1,468	1,061				
From E. coast United States, total	6,009	6,609	5,237	From W. coast United States, total[1]	10,118	11,009	10,557
To W. coast United States[1]	2,994	3,467	2,804	To E. coast United States	6,873	7,545	6,982
To W. coast other N. America	77	86	78	To E. coast other N. America	493	217	294
To W. coast S. America	366	427	311	To Europe	2,701	3,193	3,209
To Asia	2,013	2,014	1,739	To Africa and S. America	47	55	71
To Australasia	558	615	305	From W. coast other N. America, total	3,265	2,366	2,372
From E. coast other N. America, total	619	772	614	To E. coast N. America	602	586	563
To W. coast N. America	294	328	224	To Europe	2,629	1,765	1,786
To W. coast S. America	97	179	150	To Africa and S. America	34	15	23
To Asia	41	54	25	From W. coast S. America, total	5,666	6,237	4,953
To Australasia	186	210	214	To E. coast United States	2,859	3,260	2,718
From Europe, total	2,282	2,596	2,013	To E. coast other N. America	451	524	441
To W. coast N. America	933	1,024	756	To Europe	2,258	2,358	1,722
To W. coast S. America	764	940	728	To Africa and S. America	98	95	72
To Asia and Australasia	585	632	529	From Asia and Australasia, total	1,286	1,671	1,902
From E. coast S. America and Africa, total	156	189	201	To E. coast N. America	685	1,024	1,218
				To Europe	601	646	684
				To E. coast S. America	-------	2	1

[1] Including Hawaii.

No. 488.—LIVES LOST BY ACCIDENT ON VESSELS SUBJECT TO UNITED STATES STEAMBOAT INSPECTION SERVICE: YEARS ENDED JUNE 30

Cause	1924	1925	1926	1927	1928	1929	1930		
							Total	Passengers	Crew
Total	297	310	368	262	275	341	491	136	355
Fire	8	31	8	6	17	7	27	4	23
Collision	9	3	4	8	19	9	149	80	69
Grounding	4	1	-------	1	2	1	1	-------	1
Wreck	22	-------	11	1	-------	1	5	-------	5
Explosion, escape of steam, etc	10	9	97	13	8	18	9	-------	9
Foundered in storm	38	43	4	12	7	24	39	-------	39
Sinking	19	8	52	22	28	5	64	-------	64
Accidental drowning	107	100	89	104	100	111	84	8	76
Suicide	31	36	36	34	30	34	46	32	14
Miscellaneous	49	39	67	61	64	131	67	12	55

No. 489.—UNITED STATES COAST GUARD: YEARS ENDED JUNE 30

Item	1929	1930	Item	1929	1930
Lives saved or persons rescued from peril	4,375	6,004	Instances of miscellaneous assistance	4,867	5,960
Persons on board vessels assisted	18,725	29,079	Derelicts and other obstructions to navigation removed or destroyed	267	233
Persons in distress cared for	879	924	Value of vessels assisted (including cargoes)	$49,128,375	$49,018,073
Vessels boarded and papers examined	80,263	87,033	Total expended and obligated for the Coast Guard	$28,047,253	$29,839,724
Vessels seized or reported for violations of law	2,571	2,441	Persons examined for certificates as life-boat men	4,271	3,992
Fines and penalties incurred by vessels reported	$424,725	$438,765	Regattas and marine parades patrolled	104	137
Instances of lives saved and vessels assisted	4,419	5,241			

Sources: Table 487, Panama Canal Record; Table 488, Steamboat Inspection Service, Department of Commerce; Table 489, Annual Reports of the Secretary of the Treasury.

No. 490.—MARINE WRECKS AND CASUALTIES OCCURRING TO VESSELS OF THE UNITED STATES: BY REGIONS

NOTE.—The table covers all disasters involving damage or loss amounting to $300 or more. The figures exclude some reports of casualties to United States vessels received after the closing of the report for the year which are not distributed by regions. Casualties to United States vessels in the Panama Canal Zone, are not included in the table; data for 1930 are as follows: Vessels involved, 10; tonnage, 60,591; property loss, $53,110; persons on board, 891; no loss of life

Yearly average or year	Number of vessels		Vessel capacity—1,000 tons		Losses—1,000 dollars		Persons on board		Lives lost
	Complete loss	Partial loss	Complete loss	Partial loss	To vessel	To cargo	Passengers	Crews	
Total:									
1905–1910	358	1,091	145	1,666	10,781	2,671	17,038	21,954	461
1911–1915	296	952	126	1,496	9,551	2,341	17,389	22,295	288
1916–1920	322	678	192	1,487	39,440	13,803	9,889	19,733	651
1921–1925	253	665	113	1,808	18,794	4,374	10,207	19,859	189
1926–1930	273	780	122	2,258	17,648	4,159	11,830	23,372	219
1925	255	725	96	1,986	15,177	4,114	11,958	22,771	196
1926	254	728	94	2,015	15,597	4,324	12,331	21,970	236
1927	300	933	118	2,788	18,704	5,315	10,493	27,635	222
1928	273	769	107	2,286	16,570	4,135	14,856	23,482	166
1929	283	819	204	2,229	16,243	4,342	12,721	23,217	163
1930	253	651	85	1,970	21,126	2,678	8,749	20,555	310
Atlantic, Gulf, and Pacific coasts of the United States:									
1921–1925	148	370	58	802	8,856	1,895	5,996	9,908	98
1926–1930	167	451	56	1,162	9,233	1,783	6,600	12,541	116
1928	170	456	52	1,176	8,185	1,786	6,652	12,237	73
1929	172	488	63	1,302	8,812	2,491	7,737	13,725	73
1930	154	378	44	1,010	8,565	957	4,736	10,903	164
Great Lakes:									
1921–1925	20	92	11	357	1,894	192	1,491	2,586	25
1926–1930	20	90	15	315	2,433	318	1,433	2,388	31
1928	18	118	13	435	3,053	27	2,695	2,965	31
1929	26	77	14	248	2,051	100	1,686	2,006	7
1930	20	73	26	265	2,870	1,148	342	1,890	95
Rivers of the United States:									
1921–1925	45	86	7	160	1,815	127	820	1,881	12
1926–1930	54	103	5	224	1,542	110	1,548	2,414	14
1928	54	74	9	151	1,581	220	2,088	1,860	11
1929	49	112	4	195	1,437	94	1,608	2,073	7
1930	48	85	3	200	1,157	45	1,471	2,049	21
At sea and on the coasts of foreign countries:									
1921–1925	39	118	36	490	6,230	2,161	1,900	5,484	55
1926–1930	32	136	45	557	4,440	1,947	2,250	6,029	58
1928	31	121	32	528	3,751	2,102	3,421	6,420	51
1929	36	142	123	483	3,944	1,657	1,690	5,413	76
1930	31	115	12	496	8,534	528	2,200	5,713	30

Source: Reports of the United States Coast Guard, Treasury Department.

No. 491.—UNITED STATES SHIPPING BOARD AND UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: NET APPROPRIATIONS AND ALLOTMENTS FROM INCEPTION TO JULY 1, 1930

For fiscal years ended prior to July 1, 1929	**$3,592,368,259**
United States Shipping Board	4,962,253
United States Shipping Board Emergency Fleet Corporation	3,587,406,006
Act of Sept. 7, 1916, permanent fund	50,000,000
Acts from June 15, 1917, to June 12, 1922, emergency shipping fund	3,325,863,502
Acts of Feb. 13, 1923, June 7, 1924, Mar. 3, 1925, Apr. 22, 1926, Feb. 11, 1927, and May 16, 1928, current maintenance and operations	148,300,000
Act of June 12, 1922, claims, damage charges, and miscellaneous adjustments	38,254,185
Acts of Apr. 17, 1917, and July 1, 1918, national security and defense (presidential allotments)	24,988,319
For fiscal year ended June 30, 1930	**11,494,000**
United States Shipping Board	359,750
United States Shipping Board Emergency Fleet Corporation—for current maintenance and operations	11,134,250
For fiscal year ending June 30, 1931	**11,346,000**
United States Shipping Board	396,000
United States Shipping Board Emergency Fleet Corporation	10,950,000
Current maintenance and operations	5,950,000
Operation of trade lines, ex-purchasers (expenditures on approval of President of the United States)	5,000,000
Net appropriations and allotments to June 30, 1931	**3,615,208,259**

Source: United States Shipping Board.

No. 492.—VESSELS CONTROLLED BY THE UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: As of December 31

NOTE.—For definition of dead-weight tons see general note, p. 449. The number of tugs is shown under "All other" except as noted; there is no tonnage for these

Origin and class	1923	1930	
	Dead-weight tons	Number	Dead-weight tons
Grand total	9,185,452	437	3,660,232
ORIGIN			
Requisitioned steel	1,461,634	76	677,423
Contract steel	7,280,775	337	2,853,586
Contract wood or concrete	63,153	[1] 7	7,500
Purchased	158,846	11	92,798
Seized enemy	215,144	3	28,925
All other	5,900	[2] 3	
CLASS			
Steel	9,119,899	430	3,652,732
Cargo (completed)	8,140,521	414	3,556,055
Cargo and passenger	431,768	2	17,000
Tankers	395,055		
Refrigerators	100,920	10	70,277
Transports	38,235		
All other	13,400	[2] 4	9,400
Wood, composite, and concrete	65,553	[1] 7	7,500

Class	1923	1930	
	Dead-weight tons	Number	Dead-weight tons
Active steel	3,362,576	168	1,477,753
Cargo	2,875,947	165	1,477,753
Cargo and passenger	278,734		
Tankers	194,158		
All other	13,737	[2] 3	
Temporarily inactive steel	206,847		
Inactive steel	5,550,476	262	2,174,979
Cargo	5,126,361	250	2,087,702
Cargo and passenger	127,952	2	17,000
Refrigerators	82,483	10	70,277
U. S. Army transports	38,235		
Tankers	175,445		
Wood and composite, active and inactive, and inactive concrete	65,553		

[1] Includes 6 tugs.

[2] Includes 3 tugs.

No. 493.—SHIPPING BOARD VESSELS SOLD; BY TYPE

NOTE.—Data for earlier years are as follows: 1921, grand total, 50 vessels of 254,125 dead-weight tons; 20 steel vessels of 157,875 dead-weight tons; 30 wood vessels of 96,250 dead-weight tons; 1922, grand total, 362 vessels of 1,510,676 dead-weight tons; 104 steel vessels of 582,249 dead-weight tons; 1 concrete vessel of 7,500 dead-weight tons; 10 composite vessels of 35,600 dead-weight tons; and 247 wood vessels of 885,327 dead-weight tons; 1923, grand total, 112 vessels of 728,721 dead-weight tons; 106 steel vessels of 705,108 dead-weight tons; 1 concrete vessel of 3,078 dead-weight tons; 1 composite vessel of 3,575 dead-weight tons, and 4 wood vessels of 16,960 dead-weight tons; 1924, grand total, 49 vessels of 345,396 dead-weight tons; 46 steel vessels of 328,224 dead-weight tons; and 3 concrete vessels of 17,172 dead-weight tons; 1925, grand total, 147 vessels of 768,142 dead-weight tons; 141 steel vessels of 747,474 dead-weight tons; 2 concrete vessels of 9,298 dead-weight tons; 1 composite vessel of 3,500 dead-weight tons; and 3 wood vessels of 7,870 dead-weight tons

Type	1926		1927		1928		1929		1930	
	Number	Dead-weight tons [1]	Number	Dead-weight tons [1]	Number	Dead-weight tons [1]	Number	Dead-weight tons [1]	Number	Dead-weight tons [1]
Grand total	278	1,415,536	49	304,921	82	692,876	186	1,245,544	95	713,591
Steel vessels	275	1,415,536	48	304,921	81	692,876	185	1,245,544	95	713,591
Cargo	258	1,250,156	37	215,175	76	649,602	168	1,075,426	94	713,591
Passenger	8	90,825	1	11,000			11	115,330		
Tankers	6	53,500	9	71,668	4	34,574	6	54,788		
All other					1	8,700			1	
For conversion to Diesel—										
Cargo										
Tankers	3	21,055	1	7,078						
Wood vessels	3		1		1		1			

[1] See general note, p. 449. No tonnage is shown on tugs; the number includes tugs.

Source: United States Shipping Board.

No. 494.—UNITED STATES SHIPPING BOARD AND UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: STATEMENT OF PROFIT AND LOSS (EXCLUDING LIQUIDATION) FISCAL YEAR 1930

[All money figures in thousands of dollars]

	Grand total	Ocean freighters	Chartered vessels		Grand total	Ocean freighters	Chartered vessels
Number of voyages terminated	923	903	20	Profit or *loss* on vessel operations	[2] *10,681*	[2] *10,716*	135
Cargo carried 1,000 tons	6,528	6,528	----	Expenses of inactive vessels	1,551	----	----
Voyage revenue [1]	43,518	43,228	290	Miscellaneous income, net	1,089	----	----
Operating costs, total [1]	54,099	53,944	155	Net *loss*	[2] *11,043*	----	----
Voyage expense	42,833	42,833	----				
Adjustment	448	448	----				
Insurance	2,827	2,731	96				
Repairs—							
Maintenance	4,717	4,717	----				
Betterments	219	219	----				
Advertising	123	123	----				
Administrative expense	2,932	2,873	59				

[1] Estimated. [2] Loss.

No. 495.—CARGO TONNAGE OF FOREIGN AND INTERCOASTAL COMMERCE

NOTE.—In thousands of cargo tons of 2,240 pounds. Coastwise trade other than from Atlantic and Gulf to Pacific and vice versa is not included

	Total United States ports [1]			Atlantic coast ports			Gulf coast ports		
	1927	1928	1929	1927	1928	1929	1927	1928	1929
Total commerce	[2] 113,734	[2] 120,069	[2] 123,320	58,152	59,193	63,148	21,314	22,581	24,358
Inbound	54,570	59,105	63,770	35,698	38,039	42,959	6,664	6,724	7,298
Outbound	69,536	70,326	70,101	22,454	21,154	20,189	14,650	15,857	17,060
With foreign countries [3]	99,118	106,224	108,460	47,210	49,342	52,631	20,029	21,350	22,829
Imports	42,183	47,395	50,985	27,436	30,924	35,437	6,094	6,325	6,754
Exports	56,935	58,829	57,475	19,774	18,418	17,194	13,935	15,025	16,075
Intercoastal	----	----	----	9,720	8,614	9,498	652	748	1,053
Inbound	10,372	9,362	10,551	7,565	6,363	6,931	278	324	456
Outbound	10,372	9,362	10,551	2,155	2,251	2,567	374	424	597
With noncontiguous territories [4]	4,244	4,483	4,309	1,222	1,237	1,019	633	483	476
Imports	2,015	2,348	2,234	697	752	591	292	75	88
Exports	2,229	2,135	2,075	525	485	428	341	408	388

	Pacific coast ports			Great Lakes ports			Ports in all territories and possessions [5]		
Total commerce	28,912	28,592	30,143	15,728	19,065	16,222	7,566	9,692	[6] 8,060
Inbound	6,390	7,223	7,904	5,818	7,119	5,609	4,278	5,024	[6] 4,112
Outbound	22,522	21,369	22,239	9,910	11,946	10,613	3,288	4,668	[6] 3,948
With foreign countries [3]	16,151	16,467	16,778	15,728	19,065	16,222	1,941	1,964	[6] 631
Imports	2,835	3,027	3,185	5,818	7,119	5,609	1,510	1,519	[6] 578
Exports	13,316	13,440	13,593	9,910	11,946	10,613	431	445	[6] 53
Intercoastal	10,372	9,362	10,551	----	----	----	----	----	----
Inbound	2,529	2,675	3,164	----	----	----	----	----	----
Outbound	7,843	6,687	7,387	----	----	----	----	----	----
With noncontiguous territories [4]	2,389	2,763	2,814	----	----	----	[1] 5,625	[1] 7,728	[1] 7,429
Imports	1,026	1,521	1,555	----	----	----	[1] 2,768	[1] 3,505	[1] 3,534
Exports	1,363	1,242	1,259	----	----	----	[1] 2,857	[1] 4,223	[1] 3,895

[1] Continental United States.
[2] Duplication in intercoastal trade is eliminated.
[3] In showing trade of Continental United States ports, Philippine Islands, Virgin Islands, and Canal Zone are included with foreign countries.
[4] Alaska, Hawaii, Porto Rico, Guam, Samoa.
[5] Territories and possessions named in notes 3 and 4.
[6] Philippine Islands trade not included; figures not yet available.

Sources of Tables 494 and 495: United States Shipping Board.

No. 496.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS

NOTE.—**In thousands of cargo tons of 2,240 pounds.** This and the following tables do not include cargoes (small in aggregate) carried by ships of less than 100 tons gross capacity

	Imports in vessels of—					Exports in vessels of—				
	Total	U. S. Shipping Board	Independent American	British	Other	Total	U. S. Shipping Board	Independent American	British	Other
Total:										
1921	33,057	4,835	18,635	9,587		48,431	7,254	11,150	30,027	
1922	44,682	5,269	22,665	8,600	8,148	42,502	6,644	10,205	14,109	11,544
1923	43,296	3,031	19,753	9,218	11,294	49,080	6,903	9,286	18,824	14,067
1924	40,899	2,663	19,630	8,406	10,200	52,261	6,663	11,653	18,867	15,078
1925	43,135	2,285	18,930	9,586	12,334	49,666	5,624	10,092	18,386	15,564
1926	44,686	2,888	18,217	10,702	12,879	68,140	5,591	11,531	28,269	22,749
1927	42,183	2,195	19,263	9,328	11,397	56,935	6,185	12,510	20,728	17,512
1928	47,395	2,063	22,124	10,591	12,617	58,829	5,071	14,217	21,147	18,394
1929	50,985	1,824	23,408	12,173	13,580	57,475	4,618	13,303	20,624	18,930
1930	46,642	1,404	23,191	10,028	12,019	48,009	3,042	11,313	16,611	17,043
Per cent distribution:										
1921	100.0	15	56	29		100.0	15	23	62	
1928	100.0	4	47	22	27	100.0	9	24	36	31
1929	100.0	3	46	24	27	100.0	8	23	36	33
1930	100.0	3	50	21	26	100.0	6	24	35	35
Dry cargoes:										
1921	15,695	2,173	6,192	7,330		42,451	6,529	9,483	26,439	
1922	25,526	3,162	8,106	7,259	6,999	36,032	6,386	8,144	11,276	10,256
1923	27,962	2,724	8,253	7,531	9,454	39,592	6,713	7,104	13,985	11,790
1924	26,242	2,267	8,462	6,914	8,599	41,204	6,460	8,290	14,146	12,308
1925	30,352	2,077	9,691	8,065	10,519	39,208	5,467	6,592	14,387	12,852
1926	32,085	2,323	9,132	9,386	11,244	55,851	5,486	7,838	23,222	19,305
1927	30,740	2,027	10,381	8,165	10,167	43,416	5,986	8,617	15,449	13,364
1928	32,988	2,052	11,347	8,889	10,700	43,940	5,017	9,923	15,990	13,010
1929	34,318	1,817	11,018	10,013	11,470	42,698	4,610	9,664	15,827	12,597
Per cent distribution:										
1921	100.0	14	39	47		100.0	15	23	62	
1928	100.0	6	34	27	33	100.0	11	23	36	30
1929	100.0	5	32	29	34	100.0	11	23	37	29
Tanker cargoes:										
1921	17,362	2,662	12,443	2,257		5,980	725	1,667	3,588	
1922	19,156	2,107	14,559	1,341	1,149	6,440	258	2,061	2,833	1,288
1923	15,334	307	11,500	1,687	1,840	9,488	190	2,182	4,839	2,277
1924	14,657	396	11,168	1,492	1,601	11,057	203	3,363	4,721	2,770
1925	12,783	208	9,238	1,522	1,815	10,368	157	3,500	3,999	2,712
1926	12,601	565	9,085	1,316	1,635	12,289	105	3,693	5,047	3,444
1927	11,443	168	8,882	1,163	1,230	13,519	199	3,893	5,279	4,148
1928	14,407	11	10,777	1,702	1,917	14,889	54	4,294	5,157	5,384
1929	16,667	7	12,390	2,160	2,110	14,777	8	3,639	4,797	6,333
Per cent distribution:										
1921	100.0	15	72	13		100.0	12	28	60	
1928	100.0	-------	75	12	13	100.0	-------	29	35	36
1929	100.0	-------	74	13	13	100.0	-------	25	32	43
North Atlantic ports:										
1925	24,069	1,501	7,756	6,224	8,588	20,817	2,504	2,595	7,891	7,827
1926	26,449	1,894	8,782	6,720	9,053	33,994	2,164	3,352	15,330	13,148
1927	25,860	1,358	10,400	5,955	8,147	18,648	2,234	2,972	6,447	6,995
1928	29,309	1,197	12,315	7,035	8,762	17,710	2,070	3,295	6,082	6,263
1929	33,807	1,278	14,224	8,436	9,869	16,278	1,896	2,976	5,499	5,907
South Atlantic ports:										
1925	2,082	96	821	339	826	1,082	94	314	293	381
1926	2,165	121	1,003	349	692	1,354	220	69	486	579
1927	1,577	138	655	285	499	1,126	231	48	286	561
1928	1,615	202	438	318	657	707	156	78	191	282
1929	1,630	34	755	228	613	916	45	231	262	378
Gulf ports:										
1925	8,539	312	5,051	1,071	2,105	12,420	2,093	2,264	3,334	4,729
1926	8,185	552	4,304	1,062	2,266	13,304	2,445	2,043	3,650	5,166
1927	6,094	412	2,919	850	1,914	13,935	2,849	2,034	3,476	5,576
1928	6,325	480	2,915	767	2,163	15,025	2,622	1,978	3,864	6,561
1929	6,754	508	3,286	994	1,966	16,075	2,657	2,115	4,480	6,823
Pacific ports:										
1925	2,602	376	558	889	779	8,355	933	2,144	2,744	2,534
1926	2,712	320	681	877	834	11,450	762	2,912	4,021	3,755
1927	2,835	287	911	865	772	13,316	871	3,386	4,810	4,249
1928	3,027	184	1,088	821	934	13,441	223	4,103	4,250	4,865
1929	3,185	4	1,324	752	1,105	13,593	20	4,060	3,738	5,775
Great Lakes ports:										
1925	5,843	-------	4,744	1,063	36	6,992	-------	2,775	4,124	93
1926	5,175	-------	3,447	1,694	34	8,038	-------	3,155	4,782	101
1927	5,817	-------	4,378	1,374	65	9,910	-------	4,070	5,709	131
1928	7,119	-------	5,368	1,650	101	11,946	-------	4,763	6,760	423
1929	5,609	-------	3,819	1,763	27	10,613	-------	3,921	6,645	47

Source: Bureau of Research, United States Shipping Board.

No. 497.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY REGIONS OF ORIGIN AND DESTINATION AND METHOD OF CARRIAGE

[In thousands of cargo tons of 2,240 pounds]

Foreign trade region	1926	1927	1928	1929—In vessels of—				
				Total	U. S. Shipping Board	Independent Amer.	British	Others
Imports, total	**44,686**	**42,183**	**47,395**	**50,985**	**1,823**	**23,408**	**12,174**	**13,580**
United Kingdom	1,946	1,385	1,662	1,589	109	139	1,119	222
North Atlantic and Baltic Europe	1,014	1,231	1,028	1,567	11	203	51	1,302
Havre-Hamburg range	4,498	3,481	3,935	3,650	830	269	433	2,118
South Atlantic Europe	564	399	565	622	34	17	400	171
West Mediterranean	1,192	1,174	1,172	1,023	41	194	203	585
East Mediterranean and Black Sea	420	420	299	689	----	80	342	267
West Indies	8,042	7,763	9,841	12,480	----	6,961	2,260	3,259
Mexico	8,375	5,476	3,749	2,537	----	1,845	259	433
Central America	1,177	1,344	1,516	1,546	----	481	147	918
North Coast South America	1,703	3,075	5,222	6,992	----	5,228	635	1,129
East Coast South America	1,682	1,720	1,521	1,764	285	497	538	444
West Coast South America	2,901	2,617	3,006	3,429	----	1,759	713	957
West Africa	260	259	216	289	13	124	97	55
South and East Africa	243	247	231	280	----	75	205	----
Australasia	108	131	156	257	64	28	139	26
East Indies	550	547	704	950	6	173	550	221
East Asia	1,249	1,391	1,566	1,799	255	600	202	742
India, Persian Gulf, and Red Sea	784	730	868	1,007	175	186	608	38
Pacific Canada	1,350	1,321	1,295	1,237	----	607	574	56
Atlantic Canada and Newfoundland	6,628	7,463	8,793	7,278	----	3,942	2,699	637
Exports, total	**63,140**	**58,935**	**58,829**	**57,475**	**4,618**	**13,303**	**20,624**	**18,930**
United Kingdom	19,505	8,634	8,199	7,952	1,358	430	4,806	1,358
North Atlantic and Baltic Europe	1,703	2,007	1,897	1,900	17	139	201	1,543
Havre-Hamburg range	8,525	9,252	8,901	8,842	1,883	380	1,563	5,016
South Atlantic Europe	2,055	1,365	1,354	874	136	13	232	493
West Mediterranean	4,434	2,864	2,706	2,883	520	126	190	2,038
East Mediterranean and Black Sea	829	527	553	661	65	151	138	307
West Indies	3,142	3,245	3,247	3,541	----	1,479	911	1,151
Mexico	503	514	494	602	----	374	16	212
Central America	1,755	2,084	1,917	1,389	----	1,121	26	242
North Coast South America	539	424	581	488	----	232	29	227
East Coast South America	4,945	3,777	3,151	2,906	300	616	1,172	818
West Coast South America	1,306	1,270	1,516	1,617	----	867	360	390
West Africa	474	290	281	249	9	117	93	30
South and East Africa	332	456	460	553	6	68	420	59
Australasia	1,740	1,964	1,779	1,946	66	258	1,040	582
East Indies	406	403	410	497	4	130	165	198
East Asia	5,407	5,613	6,989	6,944	210	1,605	1,436	3,693
India, Persian Gulf, and Red Sea	461	465	303	311	35	47	213	16
Pacific Canada	854	910	1,068	1,229	----	811	388	30
Atlantic Canada and Newfoundland	9,135	10,871	13,023	12,091	----	4,339	7,225	527

Foreign trade region	Ocean-borne imports, 1929				Ocean-borne exports, 1929			
	North Atlantic	South Atlantic	Gulf	Pacific	North Atlantic	South Atlantic	Gulf	Pacific
Total	**33,807**	**1,630**	**6,754**	**3,185**	**16,279**	**915**	**16,075**	**13,593**
United Kingdom	1,338	25	136	80	2,628	212	3,035	2,077
North Atlantic and Baltic Europe	1,450	13	36	66	750	94	998	58
Havre-Hamburg range	2,158	400	577	508	3,159	245	4,506	930
South Atlantic Europe	596	10	12	4	264	4	544	62
West Mediterranean	903	29	66	25	1,254	28	1,522	79
East Mediterranean and Black Sea	672	1	16	----	406	4	234	17
West Indies	9,440	498	2,495	47	1,833	83	1,553	72
Mexico	1,374	120	921	122	161	----	151	290
Central America	679	23	715	129	454	3	357	575
North Coast South America	6,054	108	797	23	357	15	111	5
East Coast South America	1,434	15	243	72	1,543	128	807	428
West Coast South America	2,529	360	360	180	343	1	68	1,205
West Africa	270	----	19	----	200	3	46	----
South and East Africa	267	1	12	----	324	----	173	56
Australasia	182	2	13	60	375	----	211	1,360
East Indies	799	----	52	99	280	12	----	205
East Asia	881	----	83	835	1,058	83	871	4,932
India, Persian Gulf, and Red Sea	796	14	143	54	214	----	45	52
Pacific Canada	358	----	11	868	16	----	23	1,190
Atlantic Canada and Newfoundland	1,617	11	47	13	660	----	820	----

Source: Bureau of Research, United States Shipping Board.

No. 498.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY TRADE REGIONS AND INDIVIDUAL COUNTRIES

NOTE.—**In cargo tons of 2,240 pounds.** Note that a country may appear in part under one trade region and in part under another. Minor countries are omitted but their trade is included in regional totals

Foreign origin or destination	Imports			Exports		
	1927	1928	1929	1927	1928	1929
Grand total	42,182,967	47,395,432	50,985,224	56,935,465	58,829,394	57,475,357
United Kingdom	1,384,559	1,662,074	1,588,992	8,634,499	8,199,134	7,952,079
England	1,177,876	1,214,635	1,207,356	7,521,564	7,077,398	6,895,582
Ireland	5,537	2,854	4,326	410,114	403,766	447,416
Scotland	87,225	190,547	187,463	583,439	604,512	535,566
Wales	113,921	254,038	189,847	119,382	113,458	73,515
North Atlantic and Baltic Europe	1,230,983	1,027,956	1,566,824	2,007,297	1,897,377	1,899,633
Greenland	6,111	6,360	6,200	----------	10	16
U. S. S. R. (Russia)	14,202	47,710	76,888	123,680	123,849	132,337
Finland	104,218	129,808	173,511	92,173	102,737	103,062
Norway	351,049	197,345	323,813	337,766	260,892	253,608
Sweden	688,918	592,384	909,477	424,731	500,722	443,853
Denmark	35,086	38,559	56,389	884,678	736,942	738,144
Danzig	27,760	11,870	14,284	95,022	126,303	140,697
Germany	885	626	----------	30,457	17,293	51,402
Estonia	----------	730	----------	2,427	3,543	----------
Latvia	----------	----------	----------	15,763	19,949	12,235
Lithuania	2,754	1,071	3,833	600	5,137	23,520
Havre-Hamburg range	3,481,007	3,985,297	3,650,352	9,251,960	8,901,028	8,841,917
Germany	1,021,047	1,246,234	1,363,396	3,913,272	3,711,828	3,633,697
Netherlands	703,482	876,062	797,890	2,721,748	2,599,931	2,277,009
Belgium	1,373,980	1,482,293	1,242,365	1,634,446	1,483,425	1,338,028
France	382,498	380,708	246,701	982,494	1,105,844	1,593,183
South Atlantic Europe	399,159	565,383	622,394	1,365,149	1,353,747	874,429
France	47,433	40,129	43,900	937,141	915,896	385,215
Portugal	33,740	55,711	73,784	175,041	121,070	110,386
Spain	317,316	468,955	504,139	202,615	237,959	298,941
Azores Islands	227	463	413	4,938	12,805	13,680
Canary Islands	439	110	157	38,639	59,299	60,046
Madeira	4	15	1	6,775	6,718	6,161
West Mediterranean	1,173,381	1,172,442	1,023,363	2,363,723	2,705,672	2,382,541
Spain	161,241	172,781	194,884	301,506	382,431	389,023
France	80,602	85,338	96,013	625,735	532,791	502,547
Italy	427,496	427,833	499,403	1,761,379	1,613,945	1,752,454
Yugoslavia	32,893	19,462	13,035	340	12,822	18,985
Malta	269	56	67	11,703	10,088	19,443
Tunis	109,954	97,327	26,837	23,208	30,587	30,869
Algeria	361,335	369,145	192,541	110,645	106,866	159,371
Morocco	91	----------	1	29,207	16,142	9,849
East Mediterranean and Black Sea	429,331	299,461	688,964	526,412	552,574	660,936
Rumania	4,271	2,547	2,937	13,313	23,182	20,693
U. S. S. R. (Russia)	261,058	151,283	479,838	45,060	40,803	93,760
Turkey	40,112	40,687	41,973	16,907	32,084	24,333
Cyprus	3,630	3,116	4,032	----------	126	388
Greece	36,537	38,727	58,249	289,220	253,158	294,241
Egypt	79,316	57,858	86,834	137,774	164,709	195,009
Palestine	179	134	5,404	6,120	9,786	10,126
Syria	3,728	5,063	8,384	18,018	28,439	22,068
West Indies	7,762,132	9,840,772	12,479,722	3,245,247	3,247,062	3,540,963
Cuba	4,924,189	4,627,572	5,932,546	2,306,626	2,049,079	2,127,758
Jamaica	372,055	271,122	272,690	135,419	153,068	179,152
Bahama Islands	14,612	24,865	24,837	37,764	39,330	34,855
Haiti	30,984	28,690	36,260	96,467	109,215	72,639
Dominican Republic	115,488	160,087	146,391	151,674	129,831	123,959
Lesser Antilles	2,301,834	4,718,414	6,061,229	468,227	725,741	965,526
Bermudas	2,970	10,022	5,769	49,070	40,798	37,079
Mexico	5,475,758	3,748,757	2,536,705	514,332	493,800	602,179
Central America	1,342,613	1,515,912	1,546,085	2,084,366	1,917,132	1,389,205
British Honduras	104,089	60,450	79,358	15,472	12,902	12,900
Guatemala	201,893	200,212	202,121	78,503	172,094	119,604
Honduras	515,884	725,579	755,603	139,502	144,442	92,287
Nicaragua	145,427	138,432	145,847	55,690	63,050	54,637
Costa Rica	156,374	157,659	129,678	45,438	62,990	40,982
Panama	43,289	40,456	39,960	8,100	21,539	9,809
Canal Zone	169,974	181,141	180,870	1,687,999	1,381,375	987,833
Salvador	5,683	11,983	12,648	53,662	58,740	71,153

No. 498.—Cargo Tonnage of Water-Borne Imports and Exports: By Trade Regions and Individual Countries—Continued

Foreign origin or destination	Imports			Exports		
	1927	1928	1929	1927	1928	1929
North Coast South America	3,074,799	5,221,744	6,991,897	424,312	581,158	488,063
Venezuela	1,542,094	3,178,714	4,871,067	214,633	287,851	265,912
British Guiana	162,433	178,078	173,202	26,877	26,279	17,794
Netherlands Guiana	162,370	182,212	218,057	21,477	19,636	15,889
French Guiana		9	9	2,502	2,352	2,528
Colombia	1,207,902	1,682,731	1,729,562	158,823	245,040	185,940
East Coast South America	1,719,786	1,521,146	1,763,717	3,776,428	3,151,058	2,905,506
Brazil	736,642	728,863	784,645	1,152,179	1,019,406	992,102
Uruguay	44,890	44,591	56,503	504,870	354,830	300,351
Argentina	925,416	732,314	914,599	2,110,337	1,762,086	1,613,053
South Atlantic Islands	12,838	15,378	7,970	9,042	14,736	
West Coast South America	2,617,078	3,005,622	3,429,484	1,269,770	1,516,343	1,617,259
Colombia	12,911	20,180	20,438	53,629	71,637	52,076
Chile	2,274,196	2,635,673	2,926,790	861,229	1,158,371	1,238,852
Peru	310,557	229,631	329,365	314,557	258,561	288,337
Ecuador	19,414	120,138	152,891	40,355	27,774	37,994
West Africa	259,069	215,842	288,717	289,563	281,323	249,155
Morocco	18,067	33,866	36,803	34,388	34,613	46,756
Cape Verde Islands	212	112	67	28,852	9,305	2,832
Senegal	3,233	2,040	5,120	31,466	34,483	16,008
Gambia				1,981	2,561	1,811
Sierra Leone	1,169	469	899	9,726	9,669	6,264
Liberia	384	1,009	371	4,583	4,081	2,849
Ivory Coast	35,970	19,597	22,997	6,849	8,174	8,395
Gold Coast	136,537	91,648	116,363	55,809	63,468	61,121
Togo	211		54	4,122	4,640	4,296
Dahomey	2,327	1,928	2,077	6,483	5,997	6,963
Nigeria	45,912	42,021	87,011	67,876	60,169	46,675
Cameroon	715	1,996	2,706	5,813	6,992	6,432
Gabon	60		18	1,963	3,474	2,982
Belgian Congo	13,411	21,096	13,133	12,924	13,361	11,371
Southwest Africa	690		1,000	5,977	7,635	6,250
Angola	14	22	1	6,382	8,035	9,685
South and East Africa	247,506	231,379	280,707	455,797	460,386	553,554
Union of South Africa	46,983	31,971	42,218	304,477	321,047	380,829
Mozambique	192,632	181,974	231,874	107,308	93,681	122,494
British East Africa	[1] 6,876	[1] 15,477	[1] 5,281	[1] 24,838	[1] 28,744	[1] 29,155
Madagascar	1,014	1,462	263	5,685	7,401	10,669
Mauritius Island	1	206	126	10,576	7,610	6,680
Australasia	131,428	156,449	256,632	1,964,047	1,779,095	1,946,361
New Zealand	50,854	59,746	65,837	443,711	474,620	504,824
Australia	41,501	57,592	103,398	1,468,865	1,254,187	1,391,862
Fiji Islands	4,256	2,558	15,276	5,247	8,541	7,826
New Caledonia	11,907	7,868	23,510	4,680	5,654	6,603
Society Islands	12,470	9,880	11,893	10,132	8,696	10,921
Cook Islands	813	1,717	916	450	355	418
Tasmania	528	203	149	13,184	17,028	16,432
New Guinea	2,266	7,785	23,179	6,847	3,604	3,068
East Indies	546,849	703,490	950,282	403,358	409,558	497,248
Straits Settlements	344,005	354,568	491,787	125,098	92,842	103,151
French Indo-China and Siam	326	160	86	37,741	40,969	73,683
Sumatra	58,326	88,520	87,010	43,026	50,344	75,063
Java	121,435	228,938	334,595	163,022	196,075	229,706
Borneo	5,103	5,211	4,938	28,570	17,576	4,349
Celebes	17,654	23,490	25,969	5,901	10,697	7,542
East Asia	1,390,691	1,566,382	1,798,761	5,612,671	6,989,147	6,944,028
China	259,448	279,136	263,372	1,278,155	1,808,044	1,980,475
U. S. S. R. (Russia)	525	250	178	925	4,467	6,688
Japan	288,252	318,662	418,392	3,794,396	4,584,274	4,262,874
Philippine Islands	842,466	968,334	1,116,819	539,195	592,362	693,991
India, Persian Gulf, and Red Sea	730,289	867,833	1,006,562	464,945	302,829	310,530
Egypt	7,449	7,102	85,926	1,895	2,022	1,500
Iraq	20,118	35,052	28,947		63	
Aden	4,520	5,430	9,705	7,292	3,890	2,898
Arabia	612	200	195	1,811	2,231	2,002
Anglo Egyptian Sudan	6,004	9,021	5,477	415	1,386	2,075
India	617,420	734,836	789,671	417,425	244,629	266,496
Ceylon	74,166	76,192	86,641	36,107	48,608	28,833
Canada	8,786,049	10,087,491	8,515,084	11,781,589	14,090,971	13,319,766
Pacific	1,321,352	1,294,979	1,236,705	909,988	1,067,774	1,228,756
Atlantic and Newfoundland	1,647,005	1,673,224	1,669,131	961,812	1,077,189	1,478,103
Great Lakes	5,817,692	7,119,288	5,609,248	9,909,789	11,946,008	10,612,907

[1] Kenya and Tanganyika Territory only.

Source: Bureau of Research, United States Shipping Board.

No. 499.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY STATES AND INDIVIDUAL PORTS

NOTE.—In cargo tons of 2,240 pounds. State totals cover all tonnage, including small ports not shown

State and port	Imports			Exports		
	1927	1928	1929	1927	1928	1929
North Atlantic District	25,779,559	28,444,626	33,807,315	18,627,139	17,027,020	16,278,871
Maine, total	694,023	568,526	689,886	154,599	114,141	99,955
Portland	648,195	521,214	637,199	154,599	111,841	96,455
New Hampshire: Portsmouth	39,230	14,545	62,540	13	143	71
Vermont			1,329			
Massachusetts, total	3,072,665	3,298,218	3,606,503	263,839	367,094	310,453
Boston	2,214,400	2,149,131	2,417,629	258,160	342,019	307,426
Everett	85,790	326,097	231,965		9,878	
Fall River	719,877	596,570	673,516	14	8,020	7
Rhode Island: Providence	316,817	270,421	551,674	234	292	2,638
Connecticut	49,098	41,089	56,763	2		
New York, total[1]	13,441,749	15,284,747	17,283,108	11,434,523	10,866,540	9,951,692
New York[1]	13,404,699	15,252,217	17,240,325	11,434,523	10,857,949	9,937,668
New Jersey: Paulsboro			10,468	27,464	15,199	19,580
Delaware, total	342,996	553,224	457,595	11,565	769	6,868
Claymont	147,758	124,402	126,104			
Wilmington	195,238	428,822	331,491	11,565	769	6,868
Pennsylvania, total	2,764,509	3,561,880	4,662,835	2,052,581	1,748,821	1,918,415
Chester	223,410	228,441	153,493	55,745	27,033	197,946
Marcus Hook		128,066	56,979	75,501	116,400	101,491
Philadelphia[1]	2,541,099	3,205,373	4,452,363	1,921,335	1,605,388	1,618,978
Maryland: Baltimore	4,452,413	4,324,637	5,696,641	1,922,194	1,562,387	1,440,382
District of Columbia			585			
Virginia, total	606,059	527,339	727,388	2,760,125	2,351,634	2,528,817
Newport News	161,357	68,752	125,737	850,664	679,113	855,447
Norfolk	444,702	458,587	601,651	1,909,461	1,672,521	1,670,491
South Atlantic District	1,569,290	1,595,488	1,630,332	1,121,175	692,542	915,813
North Carolina: Wilmington	151,662	254,799	226,593	32,954	23,749	24,883
South Carolina, total	653,795	597,418	424,758	357,821	157,082	182,696
Charleston	653,795	597,418	424,758	357,821	157,070	180,352
Georgia, total	376,784	388,667	499,598	470,017	277,077	414,618
Brunswick	56,298	49,610	42,239	50,877	41,666	61,376
Savannah	320,486	339,057	457,359	419,140	235,411	352,242
Florida, east coast, total	387,049	354,604	479,383	260,383	234,634	293,616
Fernandina	136			123,180	68,106	55,919
Jacksonville	326,533	247,455	385,690	120,716	139,796	218,061
Miami	60,380	106,939	93,693	15,699	26,317	17,423
Gulf District	6,072,998	6,298,657	6,753,727	13,909,796	14,902,417	16,074,873
Florida, west coast, total	401,216	415,979	468,921	1,358,782	1,299,966	1,702,970
Boca Grande	1	3,288		84,106	78,862	109,743
Key West	147,867	135,226	148,042	269,760	215,008	240,596
Pensacola	77,339	136,969	166,370	248,238	220,173	229,355
Tampa	176,009	140,496	154,509	725,673	700,900	1,103,387
Alabama: Mobile	346,188	475,123	412,751	647,047	649,228	590,420
Mississippi, total	27,443	40,889	49,764	356,800	308,608	281,821
Gulfport	27,443	40,889	49,764	348,940	303,058	276,759
Louisiana, total	4,462,455	4,482,970	4,571,396	4,671,318	5,001,386	5,263,148
Baton Rouge	243,249	220,123	360,370	1,069,984	1,006,297	1,044,929
Lake Charles	98	4,378	20,042	1,491	39,903	76,584
New Orleans	4,195,596	4,258,469	4,146,327	3,539,340	3,920,662	4,061,470
Texas, total	835,696	883,696	1,250,895	6,875,849	7,643,229	8,236,514
Beaumont	6,929	5,597	9,454	703,545	692,386	531,591
Corpus Christi	5,346	7,539	7,410	77,142	209,835	625,032
Freeport	54,236			233,539	186,931	268,609
Galveston	393,766	317,484	345,977	1,843,288	1,633,691	1,874,286
Houston	192,311	306,256	365,832	2,606,647	3,530,377	3,575,044
Orange	8,801	10,562	14,140	88,398	85,761	51,559
Port Arthur	87,880	167,878	431,534	1,082,579	1,054,520	1,127,755
Sabine				6,000	2,850	40,450
Texas City	86,427	68,380	67,493	219,579	226,854	117,486

[1] Includes commerce of New Jersey ports which enters or clears through this customhouse.

No. 499.—Cargo Tonnage of Water-Borne Imports and Exports: By States and Individual Ports—Continued

State and port	Imports			Exports		
	1927	1928	1929	1927	1928	1929
Pacific District	2,785,792	3,026,486	3,184,602	13,320,981	13,412,108	13,592,893
California, total	1,522,343	1,766,722	1,909,998	8,563,387	8,793,298	8,885,094
Eureka				93,845	58,219	57,712
Los Angeles	510,657	601,491	684,762	5,663,401	5,738,897	6,054,084
San Diego	30,658	24,079	31,392	5,381	3,862	8,036
San Francisco [2]	981,020	1,139,000	1,193,824	2,313,630	2,541,806	2,482,408
Port San Luis	8		20	465,874	438,508	262,833
Oregon, total	133,085	125,771	113,811	1,974,750	1,785,804	1,827,217
Astoria		1,192	240	82,413	151,192	132,657
Coos Bay [3]				93,527	150,379	120,346
Portland	125,729	121,957	108,871	1,649,813	1,309,967	1,376,761
Prescott				22,720	26,661	34,665
Wauna				41,508	59,229	92,968
Westport				41,971	29,613	39,665
Washington, total	1,130,364	1,133,993	1,160,793	2,782,844	2,833,006	2,880,582
Anacortes	113,655	82,920	76,089	60,920	44,432	36,346
Bellingham	35,585	15,808	17,642	98,678	98,822	81,585
Everett	15,622	4,255	8,227	186,519	234,939	217,098
Grays Harbor [4]	575	1,828	1,960	652,300	601,555	610,767
Longview		152	1,355	90,832	121,833	128,211
Olympia	1,882	701	121	127,709	195,143	228,615
Port Angeles	99,567	115,272	154,026	28,730	22,725	40,856
Port Townsend	2,575	12,834	44,792	4,236	9,793	9,359
Seattle	454,984	448,519	444,731	804,399	720,079	718,424
Tacoma	391,321	386,038	390,962	586,986	600,595	666,743
Vancouver				25,266	28,125	
Willapa Harbor [5]				19,953	19,101	31,835
Great Lakes District	5,817,674	7,109,251	5,609,248	9,922,342	11,942,470	10,612,907
New York, total	4,209,551	5,364,690	2,931,867	2,486,707	3,485,302	2,814,430
Buffalo	3,681,024	4,833,615	2,464,750	1,587,467	1,866,973	728,101
Ogdensburg	193,450	154,250	148,470	1,990	209	
Oswego	26,028	900	7,747	70,314	47,517	42,139
Rochester	140,066	183,740	137,918	675,534	1,069,491	1,179,448
Sodus Point				136,925	486,646	827,135
Tonawanda	37,242	43,695	25,168			3,076
Waddington	118,400	138,942	108,579			
Pennsylvania: Erie	232,248	74,225	100,392	92,928	26,745	96,841
Ohio, total	463,866	641,238	704,172	4,250,493	5,071,143	5,074,832
Ashtabula				361,762	546,313	255,499
Cleveland	157,842	163,123	148,340	216,394	203,170	616,027
Conneaut				84,489	93,102	159,592
Fairport	137,454	284,479	24,120	231,805	1,016,586	505,839
Lorain	2,982	2,982	13,775	392,559	341,971	498,167
Sandusky	102,087	80,905	51,132	1,099,975	999,399	1,185,639
Toledo	63,501	109,749	466,005	1,863,509	1,870,602	1,825,674
Indiana	23	1,500	1,786	15,020	44,057	51,198
Illinois: Chicago	80,559	225,015	305,389	336,819	172,244	136,499
Michigan, total	611,402	603,527	1,350,389	639,801	954,739	775,622
Algonac				65,238	71,245	44,165
Bay City	18,243	21,361	631,369	1		95
Calcite				125,416	43,779	42,265
Detroit	459,404	416,997	774,930	283,889	212,011	178,579
Escanaba	2,846			115,500	366,065	369,305
Marquette						107,400
Muskegon	37,232	48,470	34,860	2,574		2,550
Wyandotte	36,185	49,431	117,686		2,930	5,183
Wisconsin, total	184,032	140,625	167,787	1,316,710	1,562,891	1,410,243
Ashland	143,734	100,000	120,000	98,762	186,392	220,510
Milwaukee	12,689	11,441	10,352	49,056	23,743	23,952
Superior	1,340	5,300	5,768	1,158,197	1,346,506	1,158,067
Minnesota, total	35,993	58,431	47,466	783,864	625,349	253,242
Duluth	35,993	58,431	47,466	783,864	599,154	250,692

[2] Includes all ports within San Francisco Bay.
[3] Includes Marshfield.
[4] Includes Aberdeen and Hoquiam.
[5] Includes Raymond and South Bend.

Source: Bureau of Research, United States Shipping Board.

No. 500.—CARGO TONNAGE OF WATER-BORNE IMPORTS AND EXPORTS: BY MAJOR COMMODITIES AND BY COASTAL DISTRICTS

NOTE.—In thousands of cargo tons of 2,240 pounds. Leaders indicate no data, or less than 500 tons

Commodity	1926	1927	1928	1929					
				Total	North Atlantic	South Atlantic	Gulf	Pacific	Great Lakes
Imports, total	44,686	42,183	47,395	50,985	33,807	1,630	6,754	3,185	5,609
Wheat	3,150	3,475	4,430	2,195	2	-------	1	-------	2,192
Other grains	604	623	778	316	24	-------	1	22	269
Oil seeds	563	506	437	663	632	-------	5	23	3
Vegetable oils	-------	345	383	532	395	-------	49	88	-------
Vegetables and vegetable products, n. e. s.	826	651	777	884	626	18	50	190	-------
Animal, fish and dairy products	278	389	412	440	319	3	36	81	1
Bananas	1,321	1,531	1,656	1,743	880	27	754	82	-------
Coconuts and copra	266	264	309	327	85	-------	53	189	-------
Other fruits and nuts	361	276	328	295	218	-------	48	29	-------
Sugar	4,058	3,590	3,380	4,399	3,198	196	897	105	3
Molasses	1,330	1,195	1,334	1,567	819	6	722	20	-------
Coffee	668	667	681	690	415	7	189	79	-------
Cocoa	187	198	173	229	222	-------	1	6	-------
Tobacco and manufactures	48	58	50	45	38	-------	4	3	-------
Cotton	90	93	74	99	92	-------	-------	7	-------
Cotton manufactures	108	98	96	83	46	3	2	32	-------
Wool	140	110	103	114	102	-------	-------	12	-------
Wool manufactures	37	34	35	28	26	-------	-------	2	-------
Silk	20	20	32	37	3	-------	-------	34	-------
Silk manufactures	38	37	21	16	12	-------	-------	4	-------
Jute	76	103	98	92	89	1	-------	2	-------
Jute manufactures	349	319	350	328	229	5	75	19	-------
Other vegetable fibers and grasses	335	300	360	363	190	11	94	54	14
Textiles and manufactures, n. e. s.	74	107	84	90	73	1	3	10	3
Hides, skins and manufactures	169	192	235	248	243	-------	-------	5	-------
Furs and fur skins	16	14	14	13	12	-------	-------	1	-------
Rubber	433	459	481	566	532	-------	-------	34	-------
Pulp wood and wood pulp	1,791	2,051	2,081	2,144	1,300	1	7	49	787
Paper stock, n. e. s.	245	175	223	236	207	5	2	22	-------
Paper and manufactures	381	445	468	467	184	18	70	107	88
Clays	423	352	320	346	324	-------	3	12	7
Clay and manufactures	298	293	244	143	91	-------	7	45	-------
Coal and coke	1,109	449	620	665	539	-------	-------	126	-------
Petroleum and products	11,138	10,036	12,844	14,833	12,266	509	2,034	7	17
Gypsum	716	753	939	930	846	-------	3	81	-------
Pyrites	371	283	460	509	446	10	-------	53	-------
Non-metallic minerals, n. e. s.	-------	1,830	1,855	3,068	608	24	90	273	2,073
Iron ores	2,698	2,797	2,611	3,430	3,378	5	37	10	-------
Manganese and manganese ore	675	616	526	760	718	-------	31	6	5
Iron and steel and manufactures	1,028	722	792	706	391	9	118	157	31
Copper and manufactures	540	564	557	584	341	-------	-------	243	-------
Miscellaneous metals and mfrs.	710	728	734	752	278	-------	349	125	-------
Logs and lumber	1,693	1,576	1,404	1,541	924	3	111	421	82
Dyeing and tanning materials	182	197	219	166	144	-------	19	3	-------
Potash	781	542	757	755	291	290	162	10	2
Nitrates	933	829	1,173	1,094	222	398	400	74	-------
Other fertilizers	129	136	268	262	93	50	75	44	-------
Pigments, chemicals and mfrs., n. e. s.	586	645	658	671	324	29	234	83	1
All others	2,714	510	531	521	370	1	18	101	31
Exports, total	68,140	56,935	58,829	57,475	16,279	915	16,075	13,593	10,613
Wheat	6,768	7,610	6,324	4,509	1,867	-------	924	643	1,075
Rye	365	1,019	441	76	14	-------	1	-------	61
Corn	330	295	694	689	213	-------	407	6	63
Barley	723	1,250	1,650	955	447	-------	67	216	225
Oats	-------	152	185	117	55	-------	12	1	49
Rice	-------	144	165	165	9	-------	105	51	-------
Other grains	482	138	127	108	48	1	46	11	2
Wheat flour	1,395	1,401	1,352	1,431	719	1	267	443	1
Oil-cake and meal	-------	714	512	548	332	10	174	31	1
Vegetables and vegetable products, n. e. s.	908	343	277	234	179	3	23	28	1
Animal, fish and dairy products	790	746	753	774	522	5	114	133	-------
Fruits and nuts	694	745	827	790	268	7	10	505	-------
Sugar	121	167	196	121	105	1	11	4	-------
Naval stores	290	391	264	374	10	287	72	5	-------
Tobacco and manufactures	271	272	324	286	235	4	36	11	-------
Cotton	2,049	2,125	1,902	1,736	65	148	1,429	94	-------
Cotton manufactures	85	103	77	66	52	9	4	1	-------
Other textiles and manufactures	9	103	100	111	94	-------	14	3	-------
Hides, skins, and manufactures	39	29	28	21	16	-------	-------	5	-------
Rubber and manufactures	35	59	70	83	65	-------	4	14	-------
Paper stock and manufactures	-------	186	230	279	134	5	23	114	3

No. 500.—Cargo Tonnage of Water-Borne Imports and Exports: By Major Commodities and by Coastal Districts—Continued

Commodity	1926	1927	1928	1929					
				Total	North Atlantic	South Atlantic	Gulf	Pacific	Great Lakes
Exports—Continued.									
Coal and coke	24,711	8,409	9,074	9,992	2,495	84	101	16	7,296
Petroleum and products	14,969	16,512	17,864	17,944	2,925	4	7,573	7,294	148
Sulphur	567	799	655	852	27	-------	808	2	15
Cement	152	131	128	111	78	1	28	4	-------
Nonmetallic minerals and mfrs., n. e. s.	-------	442	742	433	106	21	59	67	180
Iron ores	814	744	971	1,255	2	-------	-------	-------	1,253
Iron, steel, and manufactures	1,528	1,552	1,903	1,972	1,223	82	375	82	210
Machinery	494	492	604	706	603	1	64	28	10
Vehicles	577	654	969	1,046	1,009	-------	7	29	1
Copper and manufactures	394	443	457	387	304	-------	10	72	1
Ores, metals and manufactures, n. e. s.	-------	281	308	297	109	-------	157	31	-------
Logs and lumber	4,750	5,430	5,617	5,583	186	177	1,888	3,326	6
Phosphates	759	924	833	1,122	28	58	1,036	-------	-------
Other fertilizers	249	220	199	268	203	-------	35	30	-------
Pigments, chemicals and mfrs., n. e. s.	348	454	497	533	296	-------	112	124	1
All others	2,484	1,456	1,450	1,501	1,236	6	79	169	11

Source: Bureau of Research, United States Shipping Board.

No. 501.—NET TONNAGE OF VESSELS ENTERED AND CLEARED IN FOREIGN TRADE

Note.—Domestic trade is not included. For definition of net tonnage see general note, p. 449. Figures cover years ended June 30 to and including 1918, calendar years thereafter. Owing to the marked effect of the war on shipping a special average for the 6½ years July 1, 1914, to Dec. 31, 1920, is presented

[In thousands of net tons]

Yearly average or year	Entered		Cleared		Year	Entered		Cleared	
	Seaports	Other ports	Seaports	Other ports		Seaports	Other ports	Seaports	Other ports
1840 [1]	1,788	501	1,861	492	1901	24,791	4,977	24,889	4,931
1850	3,169	1,179	3,167	1,194	1902	24,361	6,293	24,242	6,202
1860	5,000	3,275	5,257	3,533	1903	24,698	6,396	24,823	6,493
1870	6,270	2,886	6,362	2,807	1904	24,111	5,841	24,192	5,824
1871–1875	8,462	2,997	8,514	2,994	1905	24,793	6,190	25,020	6,138
1876–1880	12,134	2,792	12,197	2,807	1906	27,401	6,754	26,970	6,814
1881–1885	13,604	2,931	13,781	2,917	1907	29,248	7,374	28,499	7,491
1886–1890	13,479	2,602	13,655	2,593	1908	30,444	8,095	30,198	8,084
1891–1895	16,801	2,816	16,965	2,876	1909	30,243	8,815	29,604	8,592
1896–1900	20,931	3,989	21,077	4,007	1910	30,917	9,319	30,510	9,196
1901–1905	24,551	5,939	24,633	5,918	1911	32,457	10,218	32,299	10,138
1906–1910	29,651	8,071	29,156	8,036	1912	34,659	11,499	34,706	11,711
1911–1915	36,035	11,879	35,954	12,061	1913	37,973	12,666	37,566	13,586
1916–1920 [2]	38,071	13,440	40,137	13,511	1914	40,052	13,337	39,743	13,440
1921–1925	52,959	13,334	53,578	13,075	1915	35,032	11,678	35,458	11,427
1926–1930	63,768	15,293	64,441	15,319	1916	37,744	13,806	38,946	13,477
1910–1914	35,212	11,408	34,965	11,614	1917	36,521	13,951	38,094	13,983
1914–1920 [3]	37,604	13,169	39,417	13,190	1918	31,101	14,356	31,869	14,145
1886	12,230	2,906	12,413	2,915	1918 (July–Dec.)	16,113	8,916	16,112	9,360
1887	13,532	2,284	13,511	2,242	1919	36,381	10,320	40,750	10,506
1888	12,956	2,437	13,252	2,417	1920	51,532	12,572	54,981	12,837
1889	13,312	2,640	13,672	2,671	1921	49,958	12,327	50,423	12,242
1890	15,366	2,741	15,429	2,720	1922	51,701	13,490	51,799	13,040
1891	15,394	2,810	15,411	2,850	1923	52,775	13,544	53,215	13,409
1892	18,180	2,833	18,258	2,903	1924	54,726	13,565	55,294	13,616
1893	16,679	2,903	16,825	2,936	1925	55,636	13,742	57,166	13,069
1894	17,025	2,965	17,306	2,966	1926	63,759	13,174	65,583	13,458
1895	16,725	2,570	17,024	2,727	1927	58,921	15,389	59,759	15,682
1896	17,453	3,536	17,819	3,596	1928	62,809	17,402	63,331	17,336
1897	20,003	3,757	19,878	3,831	1929	66,852	15,749	67,030	15,313
1898	21,700	3,879	21,892	3,856	1930	66,499	14,753	66,500	14,807
1899	21,963	4,148	22,177	4,089					
1900	23,534	4,629	23,618	4,663					

[1] Year ended Sept. 30.
[2] Average for period July 1, 1915 to Dec. 31, 1920.
[3] Average for period July 1, 1914, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.

No. 502.—NET TONNAGE OF VESSELS ENTERED AND CLEARED IN FOREIGN TRADE: BY CUSTOMS DISTRICTS AND BY REGIONS

NOTE.—In thousands of net tons. See headnote, Table 501

Customs district	1927		1928		1929		1930	
	Entered	Cleared	Entered	Cleared	Entered	Cleared	Entered	Cleared
Grand total	74, 310	75, 440	80, 211	80, 667	82, 602	82, 343	81, 253	81, 307
Seaports, total	58, 921	59, 759	62, 809	62, 331	66, 853	67, 030	66, 499	66, 500
North Atlantic coast, total	28, 345	26, 532	31, 071	29, 048	32, 670	30, 784	32, 954	30, 954
Maine and New Hampshire	677	599	623	520	652	540	899	655
Massachusetts	4, 397	2, 884	4, 257	2, 846	4, 335	3, 105	4, 088	2, 907
Rhode Island	249	200	237	236	342	267	443	262
Connecticut	20	17	28	6	31	12	27	6
New York	20, 558	21, 327	22, 873	23, 607	23, 954	24, 876	24, 548	25, 213
Philadelphia	2, 444	1, 505	3, 053	1, 833	3, 356	1, 984	2, 952	1, 911
South Atlantic coast, total	4, 896	6, 642	4, 607	6, 070	5, 520	6, 640	5, 428	6, 015
Maryland	2, 052	1, 488	1, 909	1, 380	2, 470	1, 711	2, 486	1, 583
Virginia	887	2, 722	551	2, 383	830	2, 409	713	1, 956
North Carolina	65	46	170	74	136	85	139	88
South Carolina	482	408	416	343	337	235	337	254
Georgia	286	760	304	584	293	619	290	578
Porto Rico	1, 124	1, 218	1, 257	1, 306	1, 454	1, 582	1, 463	1, 556
Gulf coast, total	11, 612	11, 904	11, 629	12, 437	12, 120	12, 802	10, 932	12, 019
Florida	2, 649	2, 158	2, 476	2, 044	2, 788	2, 295	2, 716	2, 550
Mobile	689	914	659	852	582	783	548	655
New Orleans	5, 189	4, 535	5, 119	4, 695	5, 358	5, 008	4, 575	4, 209
Sabine	675	1, 005	765	963	806	891	635	798
Galveston	2, 410	3, 292	2, 610	3, 883	2, 586	3, 825	2, 458	3, 807
Mexican border: San Antonio	101	29	210	61	265	260	171	127
Pacific coast, total	13, 967	14, 652	15, 292	15, 715	16, 278	16, 545	17, 014	17, 385
Washington	5, 430	5, 574	6, 273	6, 278	6, 856	6, 436	7, 409	6, 746
Oregon	960	910	927	976	929	939	533	709
San Francisco	1, 811	2, 365	1, 996	2, 457	2, 075	2, 529	2, 092	2, 414
Los Angeles	4, 556	4, 375	4, 792	4, 573	5, 054	5, 210	5, 012	5, 718
Alaska	333	255	362	267	321	239	301	235
Hawaii	877	1, 173	942	1, 164	1, 043	1, 192	1, 319	1, 411
San Diego							348	152
Northern border, total	15, 389	15, 681	17, 402	17, 336	15, 749	15, 313	14, 753	14, 807
Vermont	4	7	5	6	5	6	4	4
St. Lawrence	1, 773	828	1, 239	872	1, 142	861	1, 088	826
Rochester	2, 675	2, 727	3, 372	3, 422	3, 482	3, 558	3, 014	3, 029
Buffalo	3, 534	2, 147	4, 122	2, 000	2, 289	1, 158	2, 384	1, 103
Ohio	3, 781	4, 745	4, 179	5, 430	3, 910	5, 448	4, 326	5, 510
Michigan	2, 146	2, 179	2, 053	2, 000	2, 289	2, 371	2, 092	2, 440
Chicago	199	508	228	490	286	383	246	493
Wisconsin	477	538	410	430	536	340	487	440
Duluth and Superior	1, 400	2, 002	1, 794	2, 026	1, 810	1, 189	1, 112	962

Yearly average or year	Atlantic coast		Gulf coast		Pacific coast		Mexican border, total	Northern border	
	Total	With cargo	Total	With cargo	Total	With cargo		Total	With cargo
Entrances:									
1901–1905	17, 427	15, 149	4, 056	1, 770	3, 068	2, 286	-------	5, 939	2, 602
1906–1910	20, 921	18, 494	5, 159	2, 420	3, 570	2, 707	-------	8, 072	3, 207
1911–1915	24, 293	20, 708	6, 635	3, 377	5, 055	3, 649	52	11, 379	4, 564
1916–1920[1]	24, 581	16, 094	7, 939	4, 646	5, 487	4, 329	64	13, 440	5, 646
1921–1925	30, 979	27, 133	12, 390	8, 243	9, 562	6, 070	28	13, 334	6, 475
1926–1930	36, 884	33, 003	11, 634	7, 415	15, 100	8, 247	150	15, 293	7, 700
1927	33, 241	30, 514	11, 612	7, 337	13, 967	7, 580	101	15, 389	7, 824
1928	35, 678	33, 438	11, 629	7, 020	15, 292	8, 249	210	17, 402	8, 571
1929	38, 190	35, 438	12, 120	7, 703	16, 278	8, 734	265	15, 749	7, 558
1930	38, 382	35, 594	10, 932	6, 932	17, 014	9, 674	171	14, 753	7, 418
Clearances:									
1901–1905	17, 077	15, 714	4, 499	4, 328	3, 057	2, 418	-------	5, 918	3, 825
1906–1910	20, 162	18, 659	5, 477	5, 187	3, 517	2, 922	-------	8, 036	5, 673
1911–1915	23, 608	21, 765	7, 193	6, 414	5, 104	4, 643	50	12, 060	8, 567
1916–1920[1]	25, 921	23, 168	8, 528	6, 915	5, 626	4, 762	62	13, 511	9, 637
1921–1925	30, 837	24, 284	12, 833	9, 589	9, 880	8, 360	28	13, 075	9, 236
1926–1930	36, 361	28, 696	12, 326	10, 641	15, 652	13, 148	95	15, 319	10, 504
1927	33, 174	26, 302	11, 904	10, 410	14, 652	12, 678	29	15, 682	10, 656
1928	35, 118	27, 488	12, 437	10, 879	15, 715	13, 184	61	17, 336	11, 898
1929	37, 424	28, 776	12, 802	11, 220	16, 545	13, 877	260	15, 313	10, 917
1930	36, 969	28, 379	12, 019	10, 594	17, 385	14, 406	127	14, 807	9, 809

[1] July 1, 1915, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.

No. 503.—NET TONNAGE OF VESSELS ENTERED IN FOREIGN TRADE: BY CLASSES

[All figures except number of vessels and percentages in thousands of net tons. See headnote, Table 501]

Yearly average or year	Number of vessels, all ports	All ports				Seaports				
		Total	American	Foreign	Per cent American	All vessels	Sailing vessels	Steam vessels	With cargo	In ballast
1881–1890	32,038	16,308	3,395	12,913	20.7	13,542	5,251	8,291	11,560	1,982
1891–1900	31,781	22,269	4,978	17,291	22.4	18,866	3,816	15,050	14,184	4,682
1901–1905	34,040	30,490	6,802	23,688	22.3	24,551	2,606	21,945	19,205	5,346
1906–1910	34,375	37,722	8,372	29,350	22.2	29,650	1,816	27,834	23,621	6,029
1911–1915	38,951	47,914	12,205	35,709	25.5	36,035	1,574	34,461	27,778	8,257
1915–1920 [1]	42,713	51,511	21,999	29,512	42.7	38,071	1,899	36,173	25,128	12,943
1921–1925	41,546	66,293	29,645	36,648	44.7	52,959	1,004	51,955	41,471	11,488
1926–1930	45,846	79,062	30,314	48,748	38.3	63,768	472	63,296	48,710	15,058
1910–1914	38,038	46,619	11,328	35,291	24.3	35,212	1,558	33,654	28,096	7,116
1914–1920 [2]	42,257	50,773	20,657	30,116	40.7	37,604	1,853	35,750	24,938	12,666
1917	44,172	50,472	18,725	31,747	37.1	36,521	2,123	34,398	23,726	12,795
1918	40,512	45,456	19,284	26,172	42.4	31,101	1,789	29,312	21,147	9,954
1918 (July–Dec.)	23,032	25,029	11,006	14,023	44.0	16,113	932	15,181	9,649	6,464
1919	39,052	46,702	21,933	24,769	47.0	36,381	1,614	34,767	24,041	12,340
1920	45,637	64,104	32,119	31,985	50.1	51,531	1,847	49,684	35,387	16,144
1921	40,758	62,285	31,185	31,100	50.1	49,958	1,379	48,579	36,066	13,892
1922	40,926	65,191	31,738	33,453	48.7	51,701	1,104	50,597	43,219	8,482
1923	41,591	66,319	27,725	38,594	41.8	52,775	958	51,817	42,219	10,556
1924	42,435	68,292	29,628	38,664	43.4	54,726	849	53,877	42,403	12,323
1925	42,019	69,378	27,947	41,431	40.3	55,636	731	54,905	43,450	12,186
1926	44,757	76,933	26,890	50,043	35.0	63,759	549	63,210	45,113	18,646
1927	45,459	74,310	29,289	45,021	39.4	58,921	530	58,391	45,462	13,458
1928	48,252	80,211	31,285	48,926	39.0	62,809	453	62,356	48,757	14,052
1929	46,687	82,602	32,241	50,361	39.0	66,853	456	66,397	51,919	14,934
1930	44,076	81,253	31,866	49,387	39.2	66,499	373	66,126	52,298	14,201

Yearly average or year	Seaports—Continued					Northern border ports			
	American vessels		Foreign vessels		Per cent American	Total	With cargo	American	Foreign
	Total	With cargo	Total	With cargo					
1881–1890	2,933	2,559	10,609	9,001	21.7	2,766	1,976	462	2,304
1891–1900	3,619	2,956	15,247	11,228	19.2	3,403	1,589	1,359	2,044
1901–1905	3,962	3,246	20,589	15,960	16.1	5,939	2,602	2,840	3,099
1906–1910	4,175	3,471	25,475	20,150	14.1	8,072	3,207	4,197	3,875
1911–1915	5,276	4,200	30,759	23,578	14.6	11,879	4,564	6,929	4,950
1915–1920 [1]	14,508	11,375	23,563	13,753	38.1	13,440	5,646	7,490	5,950
1921–1925	22,526	18,404	30,433	23,068	42.5	13,334	6,455	7,119	6,215
1926–1930	23,182	18,809	40,586	29,901	36.4	15,293	7,700	7,132	8,162
1910–1914	4,753	3,787	30,459	24,309	13.5	11,407	4,501	6,575	4,832
1914–1920 [2]	13,327	10,481	24,276	14,456	35.4	13,169	5,430	7,330	5,840
1917	10,898	8,942	25,623	14,784	29.8	13,951	6,796	7,827	6,124
1918	11,256	9,136	19,845	12,011	36.2	14,355	5,400	8,027	6,328
1918 (July–Dec.)	5,747	4,595	10,366	5,054	35.7	8,916	2,704	5,259	3,657
1919	16,224	12,294	20,157	11,747	44.6	10,321	3,763	5,709	4,612
1920	26,225	19,822	25,306	15,565	50.9	12,573	5,852	5,894	6,679
1921	24,402	18,620	25,556	17,446	48.8	12,327	5,672	6,783	5,544
1922	23,633	20,308	28,068	22,911	45.7	13,490	6,178	8,105	5,385
1923	20,984	17,790	31,791	24,429	39.8	13,544	6,766	6,741	6,803
1924	22,462	18,267	32,264	24,136	41.0	13,565	6,335	7,166	6,399
1925	21,148	17,033	34,487	26,417	38.0	13,742	7,323	6,798	6,944
1926	21,091	17,103	42,668	28,010	33.1	13,174	7,131	5,799	7,375
1927	22,001	17,668	36,920	27,794	37.3	15,389	7,824	7,288	8,101
1928	22,991	18,404	39,818	30,353	36.6	17,402	8,571	8,294	9,108
1929	25,208	20,541	41,645	31,378	37.7	15,749	7,558	7,034	8,716
1930	24,620	20,330	41,879	31,968	37.0	14,753	7,418	7,245	7,508

[1] Average for period July 1, 1915, to Dec. 31, 1920. [2] Average for period July 1, 1914, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.

No. 504.—NET TONNAGE OF VESSELS CLEARED IN FOREIGN TRADE: BY CLASSES

[All figures except number of vessels and percentages in thousands of net tons. See headnote, Table 501]

Yearly average or year	Number of vessels, all ports	All ports				Seaports				
		Total	American	Foreign	Percent American	All vessels	Sailing vessels	Steam vessels	With cargo	In ballast
1881–1890	32,159	16,473	3,450	13,023	20.9	13,719	5,363	8,356	12,795	924
1891–1900	31,902	22,463	5,038	17,425	22.4	19,021	3,818	15,203	17,514	1,507
1901–1905	33,863	30,551	6,812	23,739	22.3	24,633	2,621	22,012	22,460	2,173
1906–1910	33,897	37,192	8,282	28,910	22.3	29,156	1,850	27,306	26,768	2,388
1911–1915	38,790	48,015	12,512	35,503	26.1	35,955	1,654	34,301	32,827	3,128
1915–1920 [1]	42,687	53,647	23,005	30,643	42.9	40,137	2,057	38,080	34,851	5,285
1921–1925	40,120	66,653	29,554	37,099	44.3	53,578	984	52,594	42,233	11,345
1926–1930	44,082	79,760	30,709	49,050	38.5	64,441	467	63,973	52,581	11,860
1910–1914	37,883	46,579	11,590	34,989	24.9	34,965	1,620	33,345	32,024	2,941
1914–1920 [2]	42,141	52,607	21,529	31,078	40.9	39,417	2,010	37,407	34,394	5,023
1917	43,749	52,077	19,146	32,931	36.8	38,094	2,239	35,855	34,383	3,711
1918	39,893	46,014	19,206	26,808	41.7	31,869	1,925	29,944	28,125	3,744
1918 (July–Dec.)	22,580	25,472	11,223	14,249	44.1	16,112	1,011	15,101	13,594	2,518
1919	39,974	51,257	24,992	26,265	48.8	40,751	1,819	38,932	34,689	6,062
1920	46,447	67,817	34,053	33,764	50.2	54,980	2,009	52,971	45,687	9,293
1921	39,553	62,665	30,181	32,484	48.2	50,423	1,218	49,205	39,985	10,438
1922	39,314	64,839	31,759	33,080	49.0	51,799	1,109	50,690	39,244	12,555
1923	40,256	66,624	27,932	38,692	41.9	53,215	1,035	52,180	42,398	10,817
1924	41,100	68,910	30,092	38,818	43.7	55,294	810	54,483	43,787	11,506
1925	40,379	70,229	27,808	42,421	39.6	57,160	746	56,414	45,750	11,410
1926	43,951	79,041	28,532	50,509	36.1	65,583	566	65,017	54,237	11,346
1927	43,619	75,440	29,793	45,647	39.5	59,759	526	59,233	49,419	10,340
1928	46,201	80,667	31,734	48,933	39.3	63,331	436	62,895	51,609	11,722
1929	44,837	82,343	31,927	50,416	38.8	67,030	422	66,608	54,132	12,898
1930	41,801	81,307	31,560	49,747	38.8	66,500	386	66,114	53,507	12,993

Yearly average or year	Seaports—Continued					Northern border ports			
	American vessels		Foreign vessels		Per cent American	Total	With cargo	American	Foreign
	Total	With cargo	Total	With cargo					
1881–1890	2,978	2,541	10,741	10,254	21.7	2,754	1,778	472	2,282
1891–1900	3,644	2,914	15,377	14,600	19.2	3,442	2,129	1,394	2,048
1901–1905	4,000	3,284	20,633	19,176	16.2	5,918	3,825	2,812	3,106
1906–1910	4,084	3,498	25,072	23,270	14.0	8,036	5,673	4,198	3,838
1911–1915	5,361	4,522	30,594	28,305	14.9	12,060	8,567	7,161	4,909
1915–1920 [1]	15,455	11,505	24,681	23,346	38.5	13,511	9,637	7,550	5,962
1921–1925	22,556	14,977	31,022	28,057	42.1	13,075	9,236	6,998	6,077
1926–1930	23,338	17,071	41,102	35,510	36.2	15,319	10,504	7,371	7,948
1910–1914	4,778	4,109	30,187	27,915	13.7	11,614	8,380	6,812	4,802
1914–1920 [2]	14,171	10,611	25,245	23,783	36.0	13,190	9,279	7,358	5,832
1917	11,339	8,805	26,755	25,578	29.8	13,983	9,745	7,807	6,176
1918	11,280	8,491	20,589	19,634	35.4	14,145	10,200	7,926	6,219
1918 (July–Dec.)	5,614	3,537	10,498	10,057	34.8	9,360	7,433	5,609	3,751
1919	19,133	14,539	21,617	20,150	47.0	10,506	7,616	5,858	4,648
1920	27,875	20,188	27,106	25,499	50.7	12,837	9,365	6,179	6,658
1921	23,432	15,215	26,991	24,770	46.5	12,242	8,692	6,749	5,493
1922	23,755	14,743	28,044	24,501	45.9	13,040	9,234	8,004	5,036
1923	21,305	14,584	31,910	27,814	40.0	13,409	9,514	6,627	6,782
1924	22,896	15,397	32,397	32,398	41.4	13,616	9,933	7,195	6,421
1925	21,394	14,948	35,766	30,802	37.4	13,068	8,805	6,414	6,654
1926	22,234	15,838	43,349	38,399	33.9	13,458	9,241	6,298	7,160
1927	22,078	16,524	37,681	32,895	36.9	15,682	10,656	7,716	7,966
1928	23,180	16,969	40,151	34,640	36.6	17,336	11,898	8,554	8,782
1929	25,045	18,337	41,985	35,795	37.4	15,313	10,917	6,883	8,431
1930	24,154	17,687	42,346	35,820	36.3	14,807	9,808	7,406	7,401

[1] Average for period July 1, 1915, to Dec. 31, 1920. [2] Average for period July 1, 1914, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.

No. 505.—NET TONNAGE OF VESSELS ENTERED AND CLEARED AT SEAPORTS IN FOREIGN TRADE: BY COUNTRIES OF ORIGIN AND DESTINATION

NOTE.—In thousands of net tons. Only traffic by sea is included. First two columns cover years ended June 30, third column the period July 1, 1914, to Dec. 31, 1920, the others, calendar years. For definition of net tonnage see general note, p. 449

Country	1900–1909, average	1910–1914, average	1914–1920, average	1921–1925, average	1926–1930, average	1928	1929	1930
Total by sea:								
Entered	**28,362**	**35,212**	**37,604**	**52,959**	**63,768**	**62,809**	**66,853**	**66,499**
Cleared	**26,206**	**34,985**	**39,417**	**53,578**	**64,441**	**63,331**	**67,030**	**66,500**
Belgium:								
Entered	905	955	392	1,231	1,560	1,535	1,420	1,378
Cleared	901	1,039	452	1,190	1,280	1,254	1,319	1,313
Denmark:								
Entered	184	297	373	372	532	589	603	606
Cleared	352	305	498	450	686	728	775	687
France:								
Entered	611	1,047	2,251	1,953	2,321	2,375	2,194	2,384
Cleared	1,062	1,453	3,345	2,250	2,475	2,554	2,475	2,556
Germany:								
Entered	2,384	3,113	290	2,998	3,813	3,929	3,900	4,376
Cleared	2,773	3,474	298	3,165	3,714	3,446	4,005	4,370
Italy:								
Entered	1,097	1,305	2,171	1,707	2,101	2,177	2,349	1,980
Cleared	1,003	1,662	2,489	1,986	2,023	1,890	2,093	1,927
Netherlands:								
Entered	846	1,169	1,291	1,654	2,081	1,978	1,863	1,705
Cleared	1,206	1,521	1,459	1,464	1,499	1,672	1,371	1,344
Norway:								
Entered	----	193	521	384	360	275	404	418
Cleared	----	159	830	412	361	328	370	327
Spain:								
Entered	483	724	838	608	850	823	911	976
Cleared	265	337	490	463	612	617	682	641
Sweden:								
Entered	----	68	240	504	681	651	735	761
Cleared	----	66	440	353	498	516	518	528
United Kingdom:								
Entered	7,440	7,238	8,765	9,378	10,614	10,432	9,951	9,181
Cleared	7,153	7,162	8,164	8,647	10,577	9,648	9,529	9,430
Canada:								
Atlantic coast—								
Entered	1,355	1,479	1,092	1,201	1,607	1,661	1,774	1,837
Cleared	1,454	1,594	1,007	1,331	1,709	1,749	1,823	1,916
British Columbia—								
Entered	1,508	2,539	3,117	4,571	6,619	6,574	7,175	7,949
Cleared	1,509	2,589	3,094	4,573	6,556	6,546	6,859	7,447
Central America:								
Entered	799	1,879	1,535	1,734	2,391	2,464	2,540	2,518
Cleared	830	2,121	1,610	1,640	2,692	2,725	2,934	3,090
Mexico:								
Entered	856	1,789	3,788	8,160	2,840	2,165	2,034	1,893
Cleared	745	1,847	3,727	8,391	2,892	2,185	2,132	2,094
British West Indies and British Honduras:								
Entered	1,001	1,038	564	1,351	1,975	1,864	1,916	2,659
Cleared	982	1,181	642	1,435	2,214	2,027	2,241	2,882
Cuba:								
Entered	2,018	3,030	3,450	4,769	5,875	5,430	6,693	6,160
Cleared	1,766	2,449	3,560	4,659	5,832	5,277	6,771	6,197
Dominican Republic:								
Entered	111	179	345	380	713	771	826	833
Cleared	94	200	404	449	920	1,047	1,070	1,006
Haiti:								
Entered	106	123	108	105	220	224	287	229
Cleared	81	124	186	230	204	181	249	215
Argentina:								
Entered	207	792	633	1,006	966	763	873	809
Cleared	328	619	762	707	997	1,004	1,029	816
Brazil:								
Entered	587	1,131	550	552	918	1,060	1,077	1,141
Cleared	253	558	841	913	1,252	1,208	1,247	1,042
Chile:								
Entered	206	462	853	975	1,387	1,438	1,580	1,422
Cleared	138	327	797	793	1,058	1,221	1,157	1,012
Colombia:								
Entered	195	199	231	144	958	1,064	1,112	1,313
Cleared	172	196	213	226	966	1,249	1,051	1,045
British East Indies:								
Entered	238	329	347	576	833	773	890	910
Cleared	107	131	204	330	428	379	427	482

No. 505.—Net Tonnage of Vessels Entered and Cleared at Seaports in Foreign Trade: By Countries of Origin and Destination—Contd.

Country	1900–1909, average	1910–1914, average	1914–1920, average	1921–1925, average	1926–1930, average	1928	1929	1930
China, Hong Kong, and Kwantung:								
Entered	346	442	519	959	1,044	1,028	1,181	1,118
Cleared	389	391	479	963	874	1,034	992	600
Japan:								
Entered	441	646	733	1,607	2,320	2,496	2,481	2,212
Cleared	351	542	796	2,106	3,284	3,438	3,443	3,682
Philippine Islands:								
Entered	63	85	132	408	611	530	626	683
Cleared	93	144	124	359	503	537	503	493
Oceania:								
Entered	256	238	379	509	931	930	1,023	1,013
Cleared	413	534	567	946	1,396	1,385	1,476	1,165
All other countries:								
Entered	2,117	2,725	2,094	3,165	6,649	6,820	8,436	8,035
Cleared	1,788	2,240	1,938	3,149	6,935	7,476	8,489	8,193

No. 506.—NET TONNAGE OF VESSELS ENTERED AND CLEARED AT SEAPORTS IN FOREIGN TRADE: By Nationality of Vessel

Note.—**In thousands of net tons.** Only traffic by sea and to and from foreign countries is included. The large trade with Canada on the Great Lakes and the St. Lawrence is handled about equally by vessels of the United States and of the British (Canadian) flag. See Tables 503 and 504 in which the columns for northern border represent trade with Quebec and Ontario. For periods covered see note, Table 505

	1900–1909, average	1910–1914, average	1914–1920, average	1921–1925, average	1926–1930, average	1928	1929	1930
Total by sea:								
Entered	26,362	35,212	37,604	52,959	63,768	62,809	66,853	66,499
Cleared	26,206	34,965	39,417	53,578	64,441	63,331	67,030	66,500
American:								
Entered	4,044	4,753	13,327	22,526	23,182	22,991	25,208	24,620
Cleared	4,023	4,778	14,171	22,556	23,338	23,180	25,045	24,154
Total foreign:								
Entered	22,318	30,459	24,276	30,433	40,586	39,818	41,645	41,879
Cleared	22,182	30,186	25,245	31,022	41,102	40,151	41,985	42,346
Belgian:								
Entered	262	412	269	332	374	367	312	356
Cleared	269	404	283	343	370	342	340	353
British:								
Entered	13,564	17,901	14,168	16,807	20,189	19,435	20,175	19,679
Cleared	13,422	17,814	14,755	17,064	20,291	19,559	20,193	19,628
Danish:								
Entered	398	472	774	929	1,136	1,185	1,184	1,058
Cleared	398	450	795	928	1,168	1,288	1,271	1,048
Dutch:								
Entered	667	1,004	1,007	1,300	1,798	1,735	1,761	2,090
Cleared	661	1,007	1,055	1,292	1,809	1,759	1,775	2,114
French:								
Entered	636	997	876	1,492	1,870	1,905	1,869	2,064
Cleared	642	990	919	1,518	1,905	1,943	1,913	2,066
German:								
Entered	3,160	4,362	107	847	2,654	2,676	3,062	3,615
Cleared	3,171	4,300	79	870	2,736	2,713	3,224	3,672
Italian:								
Entered	542	821	1,211	1,490	2,175	2,081	2,128	1,926
Cleared	538	850	1,366	1,569	2,150	1,973	2,072	1,883
Japanese:								
Entered	127	353	1,099	2,059	2,618	2,750	2,823	2,791
Cleared	107	244	1,046	2,235	2,741	2,831	2,780	2,959
Norwegian:								
Entered	1,941	2,679	2,744	2,817	4,026	4,143	4,393	4,242
Cleared	1,946	2,684	2,822	2,784	4,136	4,224	4,485	4,475
Spanish:								
Entered	424	413	606	480	571	467	530	494
Cleared	420	398	637	487	586	484	535	509
Swedish:								
Entered	62	70	353	564	985	945	1,069	1,124
Cleared	65	70	367	566	1,005	977	1,081	1,126
All other foreign:								
Entered	535	975	1,062	1,317	2,190	2,129	2,339	2,440
Cleared	542	977	1,122	1,366	2,206	2,108	2,316	2,513

Source of Tables 505 and 506: Bureau of Foreign and Domestic Commerce.

No. 507.—EXPORTS (INCLUDING REEXPORTS) AND IMPORTS OF MERCHANDISE: VALUE, BY METHOD OF CARRIAGE

NOTE.—**All figures except percentages expressed in millions of dollars.** Figures cover fiscal years ended Sept. 30, 1830 and 1840, and June 30, 1850 to 1915, calendar years thereafter

Yearly average or year	Exports (including reexports)					Imports					Water borne—per cent in American vessels	
	Total	Total by water	In American vessels	In foreign vessels	By land vehicles [1]	Total	Total by water	In American vessels	In foreign vessels	By land vehicles [1]	Exports	Imports
1830 [2]	74	74	64	10	([3])	71	71	66	5	([3])	86.6	93.1
1840 [2]	132	132	106	27	([3])	107	107	93	14	([3])	80.0	87.6
1850 [2]	152	152	100	52	([3])	178	178	140	39	([3])	65.5	78.4
1860 [2]	400	400	279	121	([3])	362	362	228	134	([3])	70.0	63.0
1870 [2]	451	451	170	281	([3])	462	462	153	309	([3])	37.7	33.1
1871–1875 [2]	586	578	157	422	8	599	584	170	414	16	27.1	35.1
1876–1880 [2]	711	704	142	562	7	514	501	147	354	13	20.2	29.3
1881–1885	792	773	100	673	19	667	646	130	517	21	12.9	20.1
1886–1890	738	714	76	638	25	717	685	122	563	33	10.6	17.8
1891–1895	892	851	73	778	42	785	748	125	623	38	8.6	16.7
1896–1900	1,157	1,079	78	1,001	79	742	706	101	604	36	7.2	14.4
1901–1905	1,454	1,316	97	1,218	138	972	909	122	787	63	7.4	13.5
1906–1910	1,779	1,576	128	1,448	203	1,345	1,262	159	1,103	83	8.1	12.6
1911–1915	2,371	2,049	187	1,862	322	1,712	1,590	198	1,392	123	9.1	12.5
1915–1920 [4]	6,515	5,712	1,556	4,156	803	3,358	2,961	978	1,984	397	27.2	33.0
1921–1925	4,397	3,788	1,405	2,383	609	3,450	3,013	978	2,035	437	37.1	32.5
1926–1930	4,777	3,983	1,382	2,600	795	4,033	3,509	1,129	2,380	524	34.7	32.2
1918	6,149	5,226	986	4,240	923	3,031	2,577	717	1,860	454	18.9	27.8
1919	7,920	7,090	2,596	4,494	831	3,904	3,414	1,228	2,186	491	36.6	36.0
1920	8,228	7,252	3,165	4,087	976	5,279	4,731	1,988	2,743	548	43.6	42.0
1921	4,485	3,888	1,402	2,486	597	2,509	2,187	765	1,422	[1] 322	36.1	35.0
1922	3,832	3,281	1,261	2,020	551	3,113	2,704	921	1,783	409	38.4	34.1
1923	4,168	3,539	1,358	2,181	629	3,792	3,312	1,040	2,272	481	38.4	31.4
1924	4,591	4,010	1,532	2,478	[1] 581	3,610	3,145	1,012	2,133	466	38.2	32.1
1925	4,910	4,224	1,473	2,751	686	4,227	3,716	1,151	2,565	510	34.9	31.0
1926	4,809	4,050	1,401	2,649	759	4,431	3,891	1,195	2,696	540	34.6	30.7
1927	4,865	4,097	1,434	2,663	768	4,185	3,662	1,215	2,447	523	35.0	33.2
1928	5,128	4,277	1,472	2,804	851	4,091	3,550	1,133	2,418	541	34.4	31.9
1929	5,241	4,322	1,487	2,835	920	4,399	3,807	1,205	2,602	592	34.4	31.6
1930	3,842	3,168	1,117	2,051	675	3,061	2,635	898	1,737	426	35.3	34.1

TOTAL WATER-BORNE EXPORTS AND IMPORTS COMBINED

Yearly average or year	Total	In American vessels	In foreign vessels	Per cent in American vessels	Yearly average or year	Total	In American vessels	In foreign vessels	Per cent in American vessels
1830 [2]	145	130	15	89.7	1921–1925	6,801	2,383	4,418	35.0
1840 [2]	239	198	41	82.3	1926–1930	7,492	2,511	4,981	33.5
1850 [2]	330	239	91	72.5	1918	7,803	1,703	6,100	21.8
1860 [2]	762	507	255	66.5	1919	10,504	3,824	6,680	36.4
1870 [2]	913	323	590	35.6	1920	11,983	5,153	6,830	43.0
1871–1875 [2]	1,162	326	835	30.6	1921	6,075	2,167	3,908	35.7
1876–1880 [2]	1,206	289	917	23.9	1922	5,985	2,183	3,803	36.5
1881–1885	1,419	229	1,190	16.2	1923	6,850	2,398	4,453	35.0
1886–1890	1,398	198	1,200	14.1	1924	7,155	2,544	4,611	35.7
1891–1895	1,598	198	1,400	12.4	1925	7,940	2,624	5,316	33.0
1896–1900	1,784	179	1,605	10.0	1926	7,941	2,596	5,345	34.0
1901–1905	2,225	220	2,005	9.9	1927	7,759	2,649	5,110	34.1
1906–1910	2,838	287	2,552	10.1	1928	7,827	2,605	5,222	33.3
1911–1915	3,639	385	3,254	10.6	1929	8,129	2,692	5,437	33.1
1915–1920 [4]	8,673	2,534	6,140	29.2	1930	5,803	2,014	3,789	34.7

[1] Exports include parcel post beginning 1924; imports, beginning 1921.
[2] Includes gold and silver coin and bullion to 1879, inclusive.
[3] Included in American and foreign vessels.
[4] Average for period July 1, 1915, to Dec. 31, 1920.

Source: Bureau of Foreign and Domestic Commerce.

No. 508.—EXPORTS (EXCLUDING REEXPORTS) AND IMPORTS OF MERCHANDISE: VALUE, BY METHOD OF CARRIAGE AND NATIONALITY OF VESSEL

NOTE.—All figures in thousands of dollars. All data for calendar years

	1914	1920	1922	1925	1927	1928	1929	1930
Exports, excluding reexports	2,071,058	8,080,481	3,765,091	4,818,722	4,758,864	5,030,099	5,157,083	3,781,172
American vessels	186,926	3,116,440	1,248,736	1,458,199	1,419,967	1,459,913	1,475,569	1,107,549
Foreign vessels:								
Belgian	7,763	76,370	25,369	37,792	33,569	36,825	31,345	26,774
British	1,011,691	2,587,813	1,147,027	1,423,507	1,333,325	1,341,764	1,348,593	946,641
Danish	(1)	71,841	53,348	94,980	94,650	93,654	90,986	62,616
Dutch	83,895	157,957	91,486	166,413	172,705	164,090	163,326	110,823
French	70,037	166,126	111,539	137,218	121,166	123,183	126,237	103,747
German	158,640	9,671	54,702	163,767	221,028	252,283	268,807	201,735
Italian	44,544	215,441	94,707	146,858	114,792	143,614	122,733	76,328
Japanese	23,057	208,876	158,416	173,205	144,140	158,532	163,847	110,584
Norwegian	89,821	236,696	132,729	172,324	197,300	236,005	266,073	205,015
Spanish	(1)	113,291	55,878	62,167	48,796	50,505	48,638	27,677
Swedish	(1)	54,074	34,051	53,598	78,932	83,504	83,186	61,003
All other	126,611	130,515	32,096	89,975	69,512	86,338	94,456	95,839
Total foreign	1,616,959	4,028,671	1,991,348	2,721,804	2,629,915	2,770,298	2,808,228	2,028,782
Parcel post	----------	----------	----------	26,052	27,785	29,014	26,656	20,510
Cars and other land vehicles	267,173	935,370	525,007	612,667	681,197	770,873	846,630	624,331
Imports	1,789,276	5,278,481	3,112,747	4,226,589	4,184,742	4,091,444	4,399,361	3,060,908
American vessels	216,199	1,987,861	921,054	1,151,242	1,214,827	1,132,598	1,205,008	897,973
Foreign vessels:								
Belgian	24,404	24,736	10,342	10,211	12,063	11,309	11,867	7,385
British	808,344	1,600,697	974,273	1,384,926	1,133,818	1,120,985	1,163,519	751,085
Danish	(1)	40,767	51,863	54,142	58,943	57,452	48,084	30,070
Dutch	90,840	187,478	99,554	122,278	141,500	135,495	144,137	100,567
French	82,945	141,181	140,112	147,809	151,833	140,621	145,788	91,710
German	151,613	14	27,755	85,945	162,508	199,154	243,318	171,524
Italian	39,796	60,618	45,254	70,663	75,639	65,170	68,400	50,425
Japanese	57,545	454,180	212,203	390,393	404,540	377,108	437,914	265,061
Norwegian	82,679	111,811	147,689	164,095	154,068	150,157	164,409	139,997
Spanish	(1)	36,148	11,220	15,886	20,897	16,926	17,710	11,408
Swedish	(1)	27,663	21,975	36,102	54,933	50,173	50,837	43,276
All other	77,410	57,959	40,764	82,624	75,826	93,085	106,035	74,540
Total foreign	1,415,576	2,743,252	1,783,004	2,565,074	2,446,567	2,417,633	2,602,017	1,737,048
Parcel post	----------	----------	98,375	125,133	111,501	110,153	123,309	75,786
Cars and other land vehicles	157,501	547,368	310,314	385,140	411,846	431,061	469,027	350,101

[1] Included in "All other."

Source: Bureau of Foreign and Domestic Commerce.