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 448.

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. 422.—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

Source: Interstate Commerce Commission.

No. 423.—RAILWAY MILEAGE OWNED: BY STATES

NOTE.—See headnote to Table 422. 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	1927	1928
United States [3]	30,626	52,922	93,267	163,597	193,346	240,439	252,845	249,398	249,131	249,309
New England	3,660	4,494	5,982	6,718	7,521	7,921	7,942	7,754	7,636	7,580
Maine	472	786	1,005	1,338	1,915	2,248	2,295	2,228	2,198	2,198
New Hampshire	661	736	1,015	1,145	1,239	1,246	1,252	1,234	1,198	1,169
Vermont	554	614	914	921	1,012	1,100	1,077	1,057	1,057	1,034
Massachusetts	1,264	1,480	1,915	2,094	2,119	2,115	2,106	2,071	2,019	2,015
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	5,340	9,709	13,832	18,161	20,709	21,980	22,293	22,003	21,919	21,841
New York	2,682	3,928	5,957	7,661	8,121	8,430	8,390	8,373	8,364	8,338
New Jersey	560	1,125	1,684	2,047	2,257	2,260	2,352	2,292	2,294	2,295
Pennsylvania	2,598	4,656	6,191	8,453	10,331	11,290	11,551	11,338	11,261	11,208
South Atlantic	5,976	7,349	9,789	18,270	23,362	29,795	32,380	31,935	31,860	31,850
Delaware	127	197	275	323	347	335	335	332	332	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	1,447	1,427
Virginia	1,379	1,486	1,893	3,160	3,779	4,535	4,703	4,554	4,528	4,509
West Virginia	352	387	691	1,328	2,228	3,601	3,996	4,038	4,007	4,049
North Carolina	937	1,178	1,486	3,001	3,831	4,932	5,522	5,347	5,223	5,223
South Carolina	973	1,139	1,427	2,194	2,818	3,442	3,814	3,748	3,744	3,743
Georgia	1,420	1,845	2,459	4,532	5,552	7,056	7,326	6,980	6,835	6,800
Florida	402	446	518	2,471	3,299	4,432	5,212	5,452	5,708	5,738
East North Central	9,583	14,701	25,109	36,924	41,007	44,928	44,904	43,843	43,684	43,721
Ohio	2,946	3,538	5,792	7,912	8,807	9,134	9,002	8,812	8,881	8,867
Indiana	2,163	3,177	4,373	5,971	6,471	7,420	7,426	7,187	7,182	7,173
Illinois	2,790	4,823	7,851	10,214	11,003	11,878	12,188	11,994	12,004	12,119
Michigan	779	1,638	3,938	7,243	8,195	9,021	8,734	8,349	8,261	8,209
Wisconsin	905	1,525	3,155	5,584	6,531	7,475	7,554	7,501	7,356	7,353
West North Central	1,472	8,046	19,094	38,354	42,988	49,730	52,180	51,856	51,650	51,557
Minnesota		1,092	3,151	5,466	6,943	8,669	9,114	8,787	8,827	8,822
Iowa	655	2,683	5,400	8,356	9,185	9,755	9,808	9,814	9,760	9,751
Missouri	817	2,000	3,965	6,004	6,875	8,083	8,117	8,051	8,018	7,954
North Dakota		5 65	5 1,225	1,941	2,731	4,201	5,311	5,277	5,274	5,275
South Dakota		(6)	(6)	2,486	2,850	3,948	4,276	4,245	4,235	4,236
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	9,362	9,345
South Central	3,392	4,656	6,343	11,144	13,343	17,074	17,754	17,492	17,563	17,593
Kentucky	534	1,017	1,630	2,746	3,060	3,526	3,929	4,005	4,049	4,037
Tennessee	1,253	1,492	1,843	2,752	3,137	3,816	4,078	4,063	4,063	4,008
Alabama	743	1,157	1,843	3,314	4,226	5,226	5,378	5,254	5,185	5,282
Mississippi	862	990	1,127	2,332	2,920	4,506	4,369	4,170	4,266	4,266
West South Central	680	1,417	5,044	13,782	18,221	31,122	32,972	32,588	32,694	32,983
Louisiana	335	450	652	1,759	2,824	5,554	5,223	4,868	4,790	4,772
Texas	307	711	3,244	8,613	9,886	14,282	16,125	16,198	16,429	16,771
Oklahoma			289	1,214	2,151	5,980	6,572	6,621	6,602	6,618
Arkansas	38	256	859	2,196	3,360	5,306	5,052	4,901	4,873	4,822
Mountain		1,466	5,082	12,676	15,808	22,956	25,170	24,723	24,942	24,972
Montana			106	2,181	3,010	4,207	5,072	5,037	5,094	5,232
Wyoming		459	612	942	1,229	1,645	1,931	1,992	1,988	2,042
Colorado		157	1,570	4,176	4,587	5,533	5,519	5,077	5,063	4,983
New Mexico			758	1,324	1,753	3,032	2,972	2,998	2,998	2,964
Arizona			349	1,097	1,512	2,097	2,478	2,378	2,496	2,495
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	2,200	2,123
Idaho			206	941	1,261	2,179	2,877	2,915	2,909	2,939
Pacific	23	1,084	2,992	7,567	10,389	14,932	17,248	17,204	17,183	17,212
Washington			289	1,783	2,914	4,875	5,587	5,559	5,557	5,565
Oregon		159	508	1,428	1,724	2,285	3,305	3,357	3,362	3,416
California	23	925	2,195	4,356	5,751	7,772	8,356	8,288	8,264	8,231
Alaska Territory					22	390	246	801	793	793
Hawaii Territory						175	243	252	256	229

[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. 424.—RAILWAY MILEAGE OWNED AND OPERATED

NOTE.—See note to Table 422. 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	1887		149,214	1908	233,468	230,494
1850		9,021	1888		156,114	1909	236,834	235,402
1855		18,374	1889		161,276	1910	240,293	240,831
1860		30,626	1890	163,597	156,404	1911	243,979	246,238
1865		35,085	1891	168,403	161,275	1912	246,777	249,852
1870		52,922	1892	171,564	162,397	1913	249,777	253,470
1872		66,171	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	186,306	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

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

No. 425.—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 429

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	235,894	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	[1] 42,255	120,479	403,481	59,441	2,579,643	43,838	105,322
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
1926	59,114	23,157	45,430	127,701	27,583	1,190,510	43,660	51,697
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
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
1926	44,727	5,985	20,404	71,116	11,418	484,490	42,551	19,359
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
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	33,857
1925	133,359	12,228	49,620	195,207	24,407	935,716	38,448	35,153
1926	133,213	12,395	50,519	196,127	23,760	936,238	39,524	34,897
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

[1] Includes second track, 36,499 miles; third track, 3,160 miles; fourth and other, 2,596 miles.

Source: Interstate Commerce Commission.

No. 426.—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 consisting of 1,753 miles of road, 501 miles of second main track, 74 miles of industrial tracks, and 589 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.

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
1927	399,214	238,634	36,229	3,129	2,568	118,654	[2] 4,066	[2] 1,854	1,146	1,066
1928	403,481	240,747	36,499	3,160	2,596	120,479	4,850	2,383	1,243	1,224
Eastern district:										
1916	120,110	59,175	16,666	2,408	1,805	40,056	[1]	[1]	[1]	[1]
1927	128,268	59,135	18,524	2,699	2,041	45,869	2,141	622	888	631
1928	128,988	59,450	18,588	2,712	2,054	46,184	2,834	1,099	987	748
Southern district:										
1916	62,389	42,753	3,725	43	173	15,695	[1]	[1]	[1]	[1]
1927	72,306	45,416	5,627	126	322	20,815	625	270	176	179
1928	73,123	45,760	5,670	126	326	21,241	633	270	175	188
Western district:										
1916	181,638	129,746	8,832	265	212	42,583	[1]	[1]	[1]	[1]
1927	198,640	134,083	12,078	304	205	51,970	1,300	962	82	256
1928	201,370	135,537	12,241	322	216	53,054	1,383	1,014	81	288

[1] Data not available.
[2] Does not include 43 miles in 1925 and 29 miles in 1927 of electric street railways operated by Boston & Maine R. R.

Source: Interstate Commerce Commission.

No. 427.—RAILWAY EQUIPMENT INSTALLED AND RETIRED FROM SERVICE: CLASS I CARRIERS

Year ended—	Locomotives		Freight-train cars		Passenger-train cars	
	Number installed	Number retired	Number installed	Number retired	Number installed	Number retired
June 30:						
1907	3,774	36	192,896	1,541	1,989	41
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

Source: Interstate Commerce Commission.

No. 428.—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] 95,467	[4] 41.5	55,939
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	56,102
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

[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. 429.—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, 1928			
	1910	1915	1920	1925	1928	Total	Eastern district	Southern district	Western district
Freight cars [1]	2,148,478	2,341,567	2,388,424	2,414,083	2,346,751	2,297,589	1,056,666	420,728	820,095
Box	966,603	1,041,695	1,056,514	1,086,562	1,063,673	1,056,736	450,186	168,466	438,084
Flat	153,958	146,343	117,604	113,562	109,987	100,099	21,087	22,551	56,461
Stock	78,811	86,326	81,678	87,452	84,365	83,963	14,728	7,797	61,438
Coal	818,731	910,637	968,034	979,483	949,398	927,001	544,515	208,698	173,788
Tank	7,434	10,165	11,130	12,151	11,331	9,958	203	22	9,733
Refrigerator	30,918	52,446	60,768	49,488	42,967	42,295	4,747	5,431	32,117
Other	78,666	93,955	92,696	85,385	85,030	77,537	21,200	7,763	48,574
Steel [2]	(3)	501,309	630,150	757,065	803,587	803,587	529,737	146,435	127,415
Steel underframe [2]	(3)	676,176	886,296	1,056,125	1,099,016	1,099,016	456,277	195,567	447,172
Caboose cars	27,224	28,965	29,575	31,325	30,888	29,929	12,614	5,915	11,400
Passenger-train cars	[4] 47,179	55,810	56,102	56,814	54,800	53,097	26,285	8,282	18,530
Coaches	25,881	30,135	29,343	28,744	26,616	25,794	13,558	3,926	8,310
Combination	5,697	8,847	8,570	8,624	8,511	7,788	3,258	1,346	3,184
Emigrant	97	50	11	7	1	1	1	-------	-------
Parlor	634	651	574	502	482	475	94	76	305
Sleeping	490	750	558	377	253	251	7	7	237
Baggage and express	[5] 11,524	9,938	12,101	13,174	13,137	13,024	6,733	1,855	4,436
Postal	(5)	1,566	1,243	1,092	1,007	1,004	375	191	438
Other	2,752	3,873	3,702	4,294	4,793	4,760	2,259	881	1,620
Steel [2]	(3)	10,859	15,111	21,190	26,770	26,770	15,103	3,421	8,246
Steel underframe [2]	(3)	5,160	6,573	9,369	10,145	10,145	5,599	1,585	2,961
Company service equipment	80,891	98,752	108,485	112,592	111,966	108,471	35,212	18,934	54,325
Motor cars and trailers [2]	(3)	(3)	(3)	2,479	5,081	5,081	3,921	391	769

[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 428 and 429: Interstate Commerce Commission.

No. 430.—FREIGHT-CAR PERFORMANCE AND EQUIPMENT CONDITION

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

Month	Freight car-miles per car day					Percentage of unserviceable freight cars					Percentage of unserviceable locomotives				
	1925	1926	1927	1928	1929	1925	1926	1927	1928	1929	1925	1926	1927	1928	1929
Yearly average	**28.5**	**30.4**	**30.3**	**31.2**	**32.4**	**7.7**	**6.5**	**5.9**	**6.2**	**6.0**	**17.8**	**16.6**	**16.2**	**16.3**	**16.3**
January	26.5	27.6	28.5	27.6	29.5	8.0	6.6	5.6	5.8	6.0	18.8	17.1	16.6	16.0	16.8
February	26.9	28.6	30.4	29.8	32.4	7.8	6.7	5.7	5.9	6.2	18.8	17.3	16.8	16.6	17.0
March	26.4	29.2	30.9	30.9	32.3	7.8	6.7	5.6	6.0	6.2	18.9	17.6	17.0	16.6	17.0
April	26.6	29.0	29.5	29.9	32.0	7.9	6.7	5.6	6.2	6.2	18.5	17.5	16.9	16.7	16.9
May	27.4	29.8	30.2	31.1	32.9	8.1	6.8	5.9	6.5	6.3	18.0	17.0	16.6	16.5	16.2
June	27.5	30.1	30.0	30.3	32.4	8.3	6.9	6.1	6.3	6.2	17.7	16.6	16.4	16.1	15.9
July	27.8	30.5	29.1	30.3	32.1	8.2	7.0	6.2	6.4	6.2	17.3	16.1	15.8	16.1	15.8
August	29.6	31.5	30.9	32.1	33.5	8.1	7.0	6.2	6.5	6.0	17.1	16.1	15.8	16.1	15.8
September	30.8	32.7	32.6	33.8	34.2	7.8	6.6	6.0	6.5	6.0	17.1	15.8	15.3	16.0	15.9
October	32.3	34.3	34.7	36.2	36.3	7.1	6.1	5.9	6.2	5.7	17.2	15.8	15.5	16.2	16.0
November	31.0	32.1	30.2	33.2	32.4	6.9	5.8	5.9	6.1	5.6	17.2	16.3	16.7	16.1	16.4
December	28.0	29.3	26.9	29.5	28.2	6.8	5.5	5.8	5.9	5.4	16.9	16.0	15.6	16.4	16.2

Source: Bureau of Railway Economics.

No. 431.—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	[2]	[2]	3	634	30,981
1905	26	796	10	3,593	176,321						

[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. 432.—EMPLOYEES OF RAILWAYS: NUMBER AND COMPENSATION[1]

Year ended—	All operating carriers			
	Average number of employees	Total yearly compensation (1,000 dollars)	Average compensation	
			Per hour[2]	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	Total hours (thousands)	Total yearly compensation (1,000 dollars)	Average hours per employee	Average compensation	
						Per hour[2]	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	5,437,077	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	1,659,513	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	[4] 1,698,132	1,662,463	4,348,587	2,896,159	2,615.7	.666	1,742

[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. 433.—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		Total compensation (1,000 dollars)		Average per hour, straight time (dollars)		Average per month, total compensation (dollars)	
	1928	1929	1928	1929	1928	1929	1928	1929
All employees, all districts	1,680,187	1,686,769	2,862,100	2,940,869				
Daily basis	*123,074*	*123,502*	*333,585*	*359,153*	*8.29*	*8.42*	*226*	*229*
Hourly basis	*1,557,113*	*1,563,267*	*2,528,515*	*2,601,716*	*.613*	*.625*	*135*	*139*
Eastern district	727,068	734,207	1,307,655	1,352,517				
Daily basis	*59,367*	*59,539*	*155,375*	*158,114*	*7.94*	*8.09*	*218*	*221*
Hourly basis	*667,699*	*674,668*	*1,152,280*	*1,194,403*	*.654*	*.665*	*144*	*148*
Southern district	314,680	311,476	486,544	488,558				
Daily basis	*19,717*	*19,523*	*55,699*	*55,711*	*8.70*	*8.80*	*235*	*238*
Hourly basis	*294,963*	*291,953*	*430,845*	*432,847*	*.566*	*.574*	*122*	*124*
Western district	638,441	641,086	1,067,901	1,099,794				
Daily basis	*43,990*	*44,440*	*122,511*	*125,328*	*8.57*	*8.70*	*232*	*235*
Hourly basis	*594,451*	*596,646*	*945,390*	*974,466*	*.591*	*.605*	*133*	*136*

No. 433.—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)	
	1928	1929	1928	1929	1928	1929	1928	1929
Executives, officials, and staff assistants	16,890	16,995	93,976	96,048				
Daily basis	*16,890*	*16,995*	*93,976*	*96,048*	*17.53*	*17.78*	*464*	*471*
Executives, general officers, and assistants	7,570	7,698	55,427	57,338	[1]23.69	[1]24.07	610	621
Division officers and assistants	9,320	9,297	38,549	38,710	[1]12.73	[1]12.79	345	347
Professional, clerical, and general	271,388	270,566	470,022	474,648				
Daily basis	*53,171*	*54,185*	*123,473*	*127,125*	*7.44*	*7.52*	*194*	*196*
Hourly basis	*218,217*	*216,381*	*346,549*	*347,523*	*.620*	*.627*	*152*	*154*
Supervisory clerks (major departments)	4,984	4,954	14,847	14,908	[1]9.56	[1]9.67	248	251
Chief clerks (minor departments)	12,937	12,942	29,976	30,299	[1]7.33	[1]7.42	193	195
Clerks	155,460	153,454	255,458	255,342	.644	.651	137	139
Mechanical-device operators (office)	8,097	8,180	11,122	11,420	.562	.569	114	116
Stenographers and typists	20,979	21,058	31,074	31,490	.608	.613	123	125
Telephone-switchboard operators and office assistants	5,029	5,011	4,865	4,895	.394	.397	81	81
Messengers and office boys	6,261	6,168	4,529	4,509	[1]2.28	[1]2.31	60	61
Lieutenants and sergeants of police	2,406	2,287	5,078	4,860	[1]6.07	[1]6.15	176	177
Patrolmen	5,282	5,235	9,643	9,645	.564	.566	152	154
Traffic, advertising, and development agents	7,526	7,737	20,242	20,904	[1]8.77	[1]8.80	224	225
Janitors and cleaners	7,678	7,694	7,352	7,374	.373	.375	80	80
Maintenance of way and structures	400,198	411,210	449,344	468,025				
Daily basis	*5,051*	*5,135*	*14,980*	*15,268*	*2.25*	*2.28*	*247*	*248*
Hourly basis	*395,147*	*406,075*	*434,364*	*452,757*	*.439*	*.443*	*92*	*93*
Roadmasters and general foremen	3,393	3,407	10,285	10,319	[1]9.45	[1]9.45	253	252
Bridge and building gang foremen (skilled)	5,438	5,472	11,304	11,513	.823	.828	173	175
Bridge and building carpenters	21,756	22,045	32,811	33,615	.622	.626	126	127
Bridge and building painters	2,746	3,096	4,031	4,629	.626	.633	122	125
Skilled trades helpers	10,277	11,230	12,355	13,651	.499	.503	100	101
Pumping equipment operators	4,625	4,319	4,740	4,503	.339	.343	85	87
Gang foremen (extra gang, work train, bridge, and building and signal and telegraph laborers)	4,755	5,162	8,380	9,289	.659	.660	147	150
Gang or section foremen	40,038	39,897	62,602	63,341	.613	.617	130	132
Laborers (extra gang and work train)	62,145	67,156	57,931	63,515	.361	.364	78	79
Track and roadway section laborers	207,174	210,084	181,266	185,415	.355	.357	73	74
Maintenance of way laborers (not track and roadway)	8,053	8,217	7,478	7,691	.379	.382	77	78
General foremen and supervising inspectors (signal, telegraph, etc.)	551	571	1,712	1,791	[1]9.66	[1]9.72	259	261
Gang foremen (signal and telegraph, skilled trades)	1,475	1,508	3,585	3,749	.940	.953	203	207
Signalmen and signal maintainers	9,169	9,457	18,161	19,576	.774	.801	165	173
Assistant signalmen and signal maintainers	3,198	3,239	4,944	5,231	.628	.653	129	135
Signalmen and signal maintainer helpers	3,670	4,258	4,689	5,755	.521	.545	106	113
Maintenance of equipment and stores	461,285	455,858	734,359	760,472				
Daily basis	*15,923*	*15,733*	*47,909*	*47,667*	*2.93*	*2.99*	*251*	*252*
Hourly basis	*445,362*	*440,125*	*686,450*	*712,805*	*.614*	*.639*	*128*	*135*
General foremen	1,426	1,417	5,239	5,230	[1]10.88	[1]10.94	306	308
Assistant general and department foremen	10,703	10,510	33,690	33,305	[1]9.25	[1]9.32	262	264
Gang foremen and leaders (skilled)	10,337	9,926	27,729	27,181	.936	.947	224	228
Blacksmiths	7,864	7,732	14,461	15,060	.802	.835	153	162
Boilermakers	16,838	16,207	32,512	33,307	.795	.832	161	172
Carmen	99,912	99,430	180,056	189,910	.723	.759	150	159
Electrical workers	10,331	10,403	20,315	21,568	.754	.784	164	173
Machinists	55,792	54,714	105,945	110,447	.780	.816	158	168

[1] Daily basis.

No. 433.—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)	
	1928	1929	1928	1929	1928	1929	1928	1929
Maintenance of equipment, etc.—Continued.								
Sheet-metal workers	10,954	10,931	20,682	21,888	0.781	0.817	157	167
Skilled trades helpers	101,122	101,208	136,356	145,474	.547	.578	112	120
Helper apprentices	5,405	4,693	7,251	6,562	.586	.607	112	117
Regular apprentices	10,975	10,616	10,385	10,820	.424	.451	79	85
Gang foremen laborers (shops, engine houses, power plants, stores)	3,850	3,758	6,301	6,217	.605	.610	136	138
Coach cleaners	12,189	12,053	14,135	14,097	.413	.414	97	97
Laborers	90,748	89,786	94,879	95,065	.405	.408	87	88
Stationary engineers and firemen	7,457	7,123	12,882	12,530	.593	.603	144	147
Transportation (other than train service, engine, and yard)	197,467	195,948	298,472	298,541				
Daily basis	*25,269*	*24,641*	*31,151*	*30,713*	*3.48*	*3.54*	*103*	*104*
Hourly basis	*172,198*	*171,307*	*267,321*	*267,828*	*.571*	*.577*	*129*	*130*
Train dispatchers and directors	5,291	5,252	17,683	17,820	1.232	1.249	279	283
Station agents—								
Nontelegraphers—								
Major stations—supervisory	2,474	2,466	7,638	7,648	[1] 9.45	[1] 9.50	257	258
Smaller stations—supervisory	5,234	5,134	11,422	11,361	.815	.831	182	184
Nonsupervisory	3,299	3,078	4,124	3,909	.491	.498	104	106
Telegraphers and telephoners	18,858	18,664	33,745	33,506	.647	.653	149	150
Clerks—telegraphers and telephoners	13,340	13,268	23,997	23,994	.641	.649	150	151
Telegraphers, telephoners, and towermen	23,398	23,187	43,597	43,390	.668	.683	155	156
Baggage agents and assistants	721	708	1,243	1,217	.591	.593	144	143
Baggage, parcel-room, and station attendants	8,660	8,378	11,110	11,020	.468	.475	107	110
Gang foremen (freight station, warehouse, grain elevator, and dock labor)	3,521	3,519	6,242	6,308	.666	.672	148	149
Callers, loaders, scalers, sealers, perishable-freight inspectors	14,872	14,979	19,235	19,500	.528	.533	108	108
Truckers	34,270	34,013	39,405	39,499	.462	.466	96	97
Laborers	6,343	6,361	7,233	7,390	.424	.426	95	97
Crossing and bridge flagmen and gatemen	21,240	20,602	19,607	19,100	[1] 2.57	[1] 2.60	77	77
Transportation (yardmasters, switch tenders, and hostlers)	22,142	21,788	52,237	51,877				
Daily basis	*6,770*	*6,813*	*22,095*	*22,331*	*8.91*	*8.98*	*272*	*273*
Hourly basis	*15,372*	*14,975*	*30,142*	*29,546*	*.688*	*.691*	*163*	*164*
Yardmasters and assistants	6,770	6,813	22,095	22,331	[1] 8.91	[1] 8.98	272	273
Switch tenders	5,327	5,232	9,600	9,436	.644	.646	150	150
Hostlers	8,317	8,068	17,382	16,977	.730	.732	174	175
Transportation (train and engine service)	310,817	314,404	763,689	791,256				
Hourly basis	*310,817*	*314,404*	*763,689*	*791,256*	*.831*	*.842*	*205*	*210*
Road passenger conductors	10,094	10,077	31,222	32,014	.932	.952	258	265
Road freight conductors	23,925	24,098	66,733	69,717	.838	.858	232	241
Road passenger baggagemen	5,548	5,477	13,127	13,314	.700	.714	197	203
Road passenger brakemen and flagmen	13,402	13,067	27,790	28,232	.650	.669	173	180
Road freight brakemen and flagmen	56,763	56,587	118,893	123,086	.665	.680	175	181
Yard conductors and yard foremen	21,020	21,880	53,320	55,910	.896	.896	211	213
Yard brakemen and yard helpers	51,680	53,267	112,228	116,878	.827	.827	181	183
Road passenger engineers and motormen	12,569	12,558	42,595	43,429	1.253	1.268	282	288
Road freight engineers and motormen	29,275	29,411	95,318	98,297	1.021	1.035	271	279
Yard engineers and motormen	21,075	21,859	54,744	57,986	.928	.940	216	221
Road passenger firemen and helpers	11,732	11,519	30,056	30,168	.978	.994	213	218
Road freight firemen and helpers	30,962	30,979	72,076	74,103	.773	.783	194	199
Yard firemen and helpers	21,492	22,325	42,268	44,675	.724	.732	164	167

[1] Daily basis.

Source: Interstate Commerce Commission.

No. 434.—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 1928 was $695,000,000. 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	22,292	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

No. 435.—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	----------	2,977,575	51.27	156,736	5.26	2.70	262,095
1902	----------	3,337,645	55.40	185,392	5.55	3.08	274,422
1903	----------	3,450,738	56.06	196,728	5.70	3.20	283,953
1904	----------	3,643,427	57.47	221,941	6.09	3.50	297,675
1905	----------	4,119,087	62.84	237,964	5.78	3.63	310,632
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

Source of Tables 434 and 435: Interstate Commerce Commission.

No. 436.—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	3,004,582	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
1927	21,848,929	8,610,430	3,517,218	9,721,281	18,297,036	417,301	81,244	3,053,348
1928	22,025,588	8,670,475	3,537,797	9,817,316	18,607,051	381,983	76,653	2,959,901
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
1927	9,539,491	3,933,885	1,343,196	4,262,410	7,831,282	243,285	55,141	1,409,783
1928	9,722,079	4,063,179	1,362,100	4,296,800	8,079,978	226,633	52,451	1,363,017
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
1927	12,309,438	4,676,545	2,174,022	5,458,871	10,465,754	174,016	26,103	1,643,565
1928	12,303,509	4,607,296	2,175,697	5,520,516	10,527,073	155,350	24,202	1,596,884
1928								
Common stock	7,702,686	3,420,925	1,150,790	3,130,971	6,207,284	208,245	48,740	1,238,417
Preferred stock	2,019,393	642,254	211,310	1,165,829	1,872,694	18,388	3,711	124,600
Mortgage bonds	9,630,590	3,529,529	1,644,054	4,457,007	7,996,398	146,041	21,204	1,466,947
Collateral trust bonds	795,301	353,166	179,202	262,933	738,077	712	251	56,261
Income bonds	378,101	18,877	37,131	322,093	360,320	2,667	1,371	13,743
Miscellaneous obligations	519,913	291,222	56,743	171,948	466,656	2,198	1,032	50,027
Equipment obligations	979,604	414,502	258,567	306,535	965,622	3,732	344	9,906

No. 437.—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
June 30:		*Dollars*		*Per cent*			
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] 574,290	325,601
1918	18,984,756	78,820	646,223	3.40	[4]	[3] 667,588	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	21,372,358	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

[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. 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 436 and 437: Interstate Commerce Commission.

No. 438.—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		
1906	594,006	11,410,599	5,176,955	344	18.9	2.61		
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	5,498,337	380	19.8	2.86		
1911	626,496	12,859,386	5,832,515	383	19.7	2.90		
1912	612,345	13,088,332	5,767,144	407	20.2	3.02		
1913	[2] 643,841	[2] 14,271,044	[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	7,309,192	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] 28.5
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] 31.3
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	611,919	18,277,152	10,840,152	731	26.9	7.87	26.3	32.4
Eastern district:								
1916–1920	244,387	6,512,690	3,059,466	738	28.1	6.05	23.0	
1921–1925	220,500	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	7,072,008	4,170,945	828	27.7	9.07	28.3	26.8
1929	226,157	7,364,006	4,342,878	850	27.9	9.27	28.5	28.2
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	125,095	3,392,284	2,158,801	754	30.4	6.80	25.1	37.7
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	260,667	7,520,862	4,338,473	617	24.3	7.17	24.8	35.2

[1] Data available for Class I roads only.

[2] Class I and Class II roads.

Source: Interstate Commerce Commission.

No. 439.—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 443, p. 409. 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	[1] 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	2,331,201	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	1,439,612	2,627,492	447,444	--------	1,732,295	319.81	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
Class I Roads:									
1916–1920	1,216,452	2,211,754	387,377	--------	1,662,549	318.52	175.14	3,336,480	.861
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	447,260	492,180	1,864,839	334.00	184.25	4,814,842	1.077
Eastern district:									
1916–1920	590,689	1,262,780	183,006	--------	3,089,938	309.78	144.92	1,485,056	.811
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	192,241	205,814	3,235,877	333.34	149.74	2,095,610	1.090
Southern district:									
1916–1920	208,528	324,057	68,621	--------	1,590,465	329.07	211.76	524,210	.764
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	94,272	103,285	2,071,938	319.06	221.86	851,172	.903
Western district:									
1916–1920	417,235	624,917	135,751	--------	1,039,046	325.23	217.61	1,327,215	.978
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	160,747	183,081	1,191,337	344.28	223.65	1,868,060	1.162

[1] Class I and Class II roads.
[2] Includes estimates for traffic roads of Class II or Class III or both where these roads were not included in the published totals.

Source: Interstate Commerce Commission.

No. 440.—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	288.1
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	529.2	487.0	475.1	517.0	514.0	537.7	531.7	557.6	586.6	566.7	608.7	499.2	468.9
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	402.0	366.8	363.0	393.4	393.1	412.0	390.4	416.4	446.0	435.0	483.0	384.0	340.8
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	93.5
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	68.2	71.9	67.5	68.9	79.3	79.6	84.3	75.7	66.1	62.5	74.4
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	25,723
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	45,587	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	41,022	39,104	38,129	40,213	38,334	42,027	40,725	41,991	44,944	44,219	47,814	38,722	36,040

[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. 441.—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	505,946	2,705,660	566,833	1.27	1.94	54
1909	891,472	29,109	32.85	506,011	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	989,509	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
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	779,045	31,078	39.89	565,815	3,757,919	872,560	-------	2.81	55
Eastern district:									
1916–1920	693,837	19,590	28.23	231,816	1,427,364	439,137	2.32	2.24	83
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	1,634,992	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	566,645	17,277	30.49	238,359	1,603,168	467,314	-------	2.71	72
Southern district:									
1916–1920	139,052	6,295	45.27	91,976	535,012	160,704	1.98	2.55	65
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	75,927	3,762	49.55	96,501	608,438	118,852	-------	3.16	39
Western district:									
1916–1920	281,166	16,105	57.28	232,704	1,444,548	405,849	2.00	2.52	64
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	136,473	10,039	73.56	230,955	1,546,313	286,394	-------	2.85	43

[1] Data available for Class I only.

[2] Class I and Class II roads.

Source: Interstate Commerce Commission.

No. 442.—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 446. Switching and terminal companies are excluded beginning with 1908. For certain principal items for individual years 1890 to 1900, see Table 444, p. 409

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	64.66
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] 242,657	[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
Class I roads:									
1916–1920	232,074	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	241,318	6,276,699	4,502,880	1,773,819	396,659	1,252,518	26,009	7,351	71.74
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	58,987	2,898,986	2,167,706	731,280	159,240	514,945	49,146	12,397	74.77
1927	58,968	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	59,775	2,837,164	2,066,989	770,175	164,873	541,969	47,464	12,885	72.85
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	73.15
1928	45,717	1,033,102	749,058	284,044	71,136	213,181	22,598	6,213	72.51
1929	45,745	1,046,422	748,743	297,679	72,889	225,838	22,875	6,507	71.55
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	135,798	2,393,113	1,687,148	705,965	158,897	484,711	17,623	5,199	70.50

[1] Class I and Class II roads.

Source: Interstate Commerce Commission.

No. 443.—FREIGHT TRAFFIC: TONNAGE AND REVENUE, 1890 TO 1900

NOTE.—Includes switching and terminal companies. Further data for freight traffic are presented in Table 439, p. 405. 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. 444.—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 442, p. 408

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. 445.—OPERATING REVENUES AND EXPENSES OF ALL CLASSES OF RAILWAYS

Class	1927				1928			
	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	6,136,300	96.63	4,574,178	96.44	6,111,736	96.67	4,427,995	96.50
Class II	92,923	1.46	72,679	1.53	83,611	1.32	65,235	1.42
Class III	16,492	.26	15,664	.33	17,117	.27	15,375	.34
Total	6,245,715	98.35	4,662,521	98.30	6,212,464	98.26	4,508,605	98.26
Switching and terminal companies	104,958	1.65	80,489	1.70	109,711	1.74	80,029	1.74
Grand total	6,350,673	100.00	4,743,010	100.00	6,322,175	100.00	4,588,634	100.00

Source: Interstate Commerce Commission.

No. 446.—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)	1925	1926	1927	1928	1929 [1]
Revenues	4,763,039	5,881,856	6,122,510	6,382,939	6,136,300	6,111,736	6,276,699
Freight	3,336,480	4,277,134	4,541,646	4,797,780	4,632,321	4,680,456	4,822,948
Passenger	1,005,690	1,100,603	1,056,395	1,041,816	974,951	901,619	873,563
Mail	76,508	94,900	97,097	96,157	95,961	104,385	151,483
Express	118,933	137,886	145,355	149,049	143,365	142,580	148,188
All other transportation	92,041	129,878	138,395	143,773	141,005	140,051	140,489
All other	133,387	141,455	143,622	154,364	148,697	143,245	140,028
Expenses	3,879,220	4,583,425	4,536,880	4,669,337	4,574,178	4,427,995	4,502,880
Maintenance, way, etc.	663,681	781,577	816,443	866,819	868,581	837,906	854,529
Maintenance, equipment	1,040,185	1,297,802	1,259,835	1,283,091	1,219,052	1,166,942	1,202,416
Traffic	59,749	93,919	106,053	114,691	120,349	125,008	130,111
Transportation	1,947,814	2,194,358	2,128,471	2,171,904	2,127,506	2,061,141	2,078,308
All other	167,791	215,769	226,078	232,832	238,690	236,998	237,516
Net revenue from railway operations	883,819	1,298,431	1,585,630	1,713,602	1,562,122	1,683,741	1,773,819
Deduct—							
Tax accruals	219,774	321,536	358,516	388,923	376,110	389,432	396,059
Uncollectible revenues	868	1,895	1,924	1,851	1,492	1,579	1,161
Equipment rents	25,647	67,659	79,394	82,888	88,351	92,515	95,009
Joint facility rents	20,543	23,742	24,719	26,850	28,184	27,351	28,472
Net railway operating income	616,987	883,599	1,121,077	1,213,090	1,067,985	1,172,864	1,252,518

Item	Eastern district			Southern district			Western district		
	1927	1928	1929	1927	1928	1929	1927	1928	1929
Revenues	2,758,469	2,732,316	2,837,164	1,090,867	1,033,102	1,046,422	2,286,964	2,346,318	2,393,113
Freight	2,008,136	2,011,314	2,094,339	871,910	833,977	851,014	1,752,275	1,835,165	1,877,595
Passenger	502,365	474,824	467,648	147,282	129,565	118,803	325,304	296,630	287,112
Mail	36,474	40,384	61,884	16,624	17,739	22,979	42,863	46,262	66,619
Express	67,138	65,138	68,010	21,033	21,126	22,486	54,594	56,316	57,691
All other transportation	74,339	73,400	74,976	13,705	13,005	13,123	52,961	53,646	52,390
All other	70,017	67,256	70,307	19,713	17,690	18,017	58,967	58,299	51,706
Expenses	2,096,757	2,004,157	2,066,989	798,113	749,058	748,743	1,679,308	1,674,780	1,687,148
Maintenance, way, etc.	363,433	345,321	359,180	157,959	145,888	148,797	347,189	346,197	346,552
Maintenance, equipment	573,813	543,557	570,171	220,610	207,474	211,685	424,629	415,911	420,559
Traffic	44,690	46,556	49,812	24,201	24,239	23,733	51,458	54,213	56,566
Transportation	1,003,474	962,331	980,164	358,447	333,890	326,689	765,585	764,920	771,455
All other	111,347	105,892	107,662	36,896	37,567	37,839	90,447	93,539	92,016
Net revenue from railway operations	661,712	728,159	770,175	292,754	284,044	297,679	607,656	671,538	705,965
Deduct—									
Tax accruals	152,390	163,053	164,873	72,463	71,136	72,889	151,257	155,243	158,897
Uncollectible revenues	575	874	407	308	244	341	609	461	443
Equipment rents	45,295	47,854	49,123	[2] 97	[2] 2,774	[2] 3,803	43,153	47,435	49,688
Joint facility rents	13,176	12,884	13,803	2,309	2,257	2,444	12,699	12,210	12,226
Net railway operating income	450,270	503,494	541,969	217,771	213,181	225,838	399,938	456,189	484,711

[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 1928, by classes were as follows: Class I and subsidiaries, $391,165,722 (including $165,609 Canadian, $9 Cuban, $2,460 Mexican, and $5,130 not distributed by States); Class II and subsidiaries, $5,374,119; Class III and subsidiaries, $854,277; switching and terminal companies, $14,515,117; grand total, $411,909,245

State	Amount (thousands of dollars)						Per mile of line (dollars)			
	1910	1916	1920	1925	1927	1928	1910	1920	1925	1928
Total	103,738	162,475	282,751	359,370	377,039	389,993	-------	1,262	1,603	1,711
United States Government taxes	4,315	12,531	50,543	87,680	86,031	89,277	-------	226	391	392
New England:										
Maine	675	1,026	1,725	1,977	2,084	2,109	301	831	977	1,066
New Hampshire	778	746	1,005	1,042	1,147	1,123	629	827	868	988
Vermont	257	491	451	453	464	373	251	608	592	490
Massachusetts	3,097	2,575	3,339	3,020	4,185	4,143	1,484	1,616	1,929	2,078
Rhode Island	276	397	585	604	678	673	1,302	2,996	3,348	3,725
Connecticut	1,868	1,114	1,975	2,058	2,021	1,999	1,867	1,977	2,138	2,078
Middle Atlantic:										
New York	7,312	11,724	17,861	22,613	24,144	25,358	877	2,271	2,876	3,230
New Jersey	5,066	7,656	11,189	17,355	16,952	18,817	2,290	5,292	8,466	9,165
Pennsylvania	6,352	9,957	9,342	11,134	13,023	13,500	587	945	1,131	1,371
South Atlantic:										
Delaware	161	153	165	182	172	169	482	493	609	578
Dist. of Columbia	56	64	79	126	124	118	1,562	2,291	3,661	3,410
Maryland	1,016	1,211	2,004	1,352	2,217	2,095	742	1,591	1,112	1,854
Virginia	1,756	3,012	4,695	5,614	7,872	7,255	400	1,129	1,375	1,750
West Virginia	1,454	2,355	3,879	6,046	6,225	6,943	463	1,195	1,744	1,905
North Carolina	952	1,706	2,129	4,748	5,243	5,354	220	552	1,322	1,389
South Carolina	764	1,091	1,951	2,840	3,268	3,227	232	623	911	1,041
Georgia	1,386	1,957	2,481	3,310	3,663	3,338	206	455	612	690
Florida	839	1,572	2,167	3,888	5,483	5,475	208	542	879	1,068
East North Central:										
Ohio	5,457	10,618	16,841	18,518	20,140	19,635	611	2,048	2,184	2,208
Indiana	3,845	5,803	9,422	11,627	11,911	14,129	521	1,328	1,684	2,051
Illinois	5,938	9,049	16,422	21,576	21,255	22,027	501	1,421	1,908	1,928
Michigan	4,052	4,220	7,579	7,656	8,995	9,555	469	1,083	1,076	1,359
Wisconsin	3,162	4,968	6,876	7,295	6,563	6,870	440	995	1,030	981
West North Central:										
Minnesota	3,958	6,445	9,753	7,965	7,697	8,187	461	1,151	962	988
Iowa	2,403	3,871	7,855	6,842	6,901	7,015	253	808	706	725
Missouri	1,830	2,258	3,359	3,716	3,766	4,039	230	457	498	542
North Dakota	1,427	2,289	4,997	4,290	4,294	4,272	341	969	834	831
South Dakota	834	1,635	3,718	3,161	2,644	2,684	211	900	752	639
Nebraska	2,031	2,704	4,159	4,747	5,167	4,507	335	677	770	730
Kansas	3,074	4,108	6,188	6,670	8,869	8,857	344	688	727	966
South Central:										
Kentucky	1,073	2,018	2,184	4,246	5,323	5,333	312	624	1,157	1,417
Tennessee	1,181	1,718	2,584	3,107	3,270	3,365	326	702	847	915
Alabama	1,410	1,751	2,548	2,687	3,170	3,756	297	560	603	809
Mississippi	997	1,916	3,612	5,064	4,929	5,021	250	942	1,364	1,311
West South Central:										
Louisiana	1,238	2,235	3,788	4,578	4,911	4,955	250	971	1,180	1,231
Texas	2,688	4,656	5,098	6,514	6,952	7,108	196	364	469	475
Oklahoma	2,967	3,653	5,463	5,682	5,611	5,961	499	864	917	943
Arkansas	1,347	2,248	3,912	2,663	2,768	3,267	277	948	622	758
Mountain:										
Montana	1,486	2,781	4,284	4,728	4,539	4,779	356	871	966	938
Wyoming	614	901	1,213	1,659	1,809	1,890	384	686	924	1,020
Colorado	1,637	2,451	3,344	3,719	3,943	3,950	306	729	828	897
New Mexico	745	1,179	2,467	2,212	2,508	2,749	254	915	796	950
Arizona	321	1,341	1,572	2,485	3,020	2,980	158	776	1,187	1,349
Utah	692	1,123	1,856	2,161	2,201	2,196	383	907	1,039	1,045
Nevada	668	1,028	1,543	1,762	1,805	1,882	388	942	1,088	1,110
Idaho	714	1,475	3,844	2,872	3,106	3,111	345	1,500	1,099	1,169
Pacific:										
Washington	3,151	4,064	8,795	6,647	7,418	7,508	685	1,698	1,309	1,481
Oregon	913	1,492	2,722	2,736	3,461	3,165	444	1,060	1,025	1,152
California	3,444	5,142	7,187	12,863	31,088	13,394	508	1,071	1,893	1,922

Source: Interstate Commerce Commission.

No. 448.—PRINCIPAL RAILWAY COMPANIES: MILES OF ROAD OPERATED AND

NOTE.—Totals for regions include

Region and road	Average mileage of road operated, 1929	Ton-miles of revenue freight (millions)		Operating revenues (thousands of dollars)		Operating expenses (thousand of dollars)	
		1928	1929	1928	1929	1928	1929
All regions	241,318	432,915	447,260	6,111,736	6,276,699	4,427,995	4,502,880
New England Region	7,288	9,202	10,536	264,969	274,699	191,768	193,908
1. Boston & Maine	2,078	2,894	2,993	76,624	78,481	57,429	59,409
2. N. Y., New Haven & Hartford	2,132	3,886	3,913	137,633	142,459	94,149	94,119
Great Lakes Region	24,656	74,424	76,263	1,105,039	1,141,646	815,127	847,198
1. Delaware & Hudson	882	3,298	3,463	40,230	41,366	31,586	32,141
2. Del., Lackawanna & Western	998	4,535	4,582	81,135	81,743	57,975	57,720
3. Erie	2,047	8,841	9,038	110,092	113,611	86,469	88,751
4. Chicago & Erie	270	1,666	1,733	14,885	15,620	8,894	8,880
Total Erie and Chi. & Erie	2,317	10,507	10,771	124,977	129,231	95,363	97,631
5. Lehigh Valley	1,362	5,138	5,145	71,935	71,723	53,827	53,501
6. Michigan Central	1,858	4,522	4,563	93,217	94,719	62,644	64,865
7. New York Central	6,915	22,202	23,028	381,733	396,917	288,250	302,614
8. N. Y., Chicago & St. Louis	1,691	4,989	5,291	52,877	56,385	37,867	39,897
9. Pere Marquette	2,242	3,388	3,541	45,762	48,468	31,036	34,345
10. Pittsburgh & Lake Erie	231	2,435	2,564	31,407	34,135	25,603	28,396
11. Wabash	2,524	5,558	6,107	71,073	76,633	52,412	56,275
Central Eastern Region	27,831	99,892	105,442	1,362,307	1,420,819	997,262	1,025,883
1. Baltimore & Ohio	5,666	20,243	20,658	236,819	245,419	172,551	180,570
2. Central R. R. Co. of New Jersey	693	2,847	2,827	58,002	58,137	42,122	42,218
3. Chicago & Eastern Illinois	946	2,112	2,104	24,894	25,398	19,421	19,693
4. Cleveland, Cincinnati, Chicago & St. Louis.	2,399	8,125	8,375	88,830	91,982	66,989	69,624
5. Elgin, Joliet & Eastern	453	1,712	1,796	24,602	26,412	16,820	17,096
6. Long Island	404	180	174	40,533	41,326	28,434	27,735
7. Pennsylvania	10,512	44,990	49,174	650,567	682,703	480,172	493,151
8. Reading Co	1,460	6,410	6,874	89,940	97,197	69,826	75,930
Pocahontas Region	5,636	36,187	39,089	261,288	279,126	166,969	169,690
1. Chesapeake & Ohio	2,733	18,187	19,025	124,825	129,779	82,543	85,515
2. Norfolk & Western	2,240	15,016	16,730	106,947	117,632	66,522	66,051
Southern Region	40,109	55,271	55,183	771,814	767,296	582,089	579,053
1. Atlantic Coast Line	5,152	3,314	3,282	71,393	72,372	55,966	53,432
2. Central of Georgia	1,945	1,554	1,592	25,133	25,034	19,209	19,135
3. Illinois Central	5,028	14,003	13,864	152,570	153,184	116,434	117,333
4. Louisville & Nashville	5,176	12,921	12,581	135,638	132,056	106,231	104,547
5. Seaboard Air Line	4,490	3,177	3,195	57,245	58,152	42,903	42,588
5. Southern	6,731	8,413	8,351	144,116	143,184	101,888	102,702
7. Yazoo & Mississippi Valley	705	1,491	1,603	26,851	27,586	20,852	21,422
Northwestern Region	48,953	53,007	52,953	743,467	745,260	537,825	537,419
1. Chicago & North Western	8,465	8,794	8,903	152,090	154,733	116,639	115,286
2. Chicago, Milwaukee, St. Paul & Pacific.[1]	11,248	13,143	13,092	170,555	171,361	125,241	128,801
3. Chicago, St. Paul, Minneapolis & Omaha.	1,747	1,692	1,691	27,063	27,219	22,989	22,069
4. Great Northern	8,388	10,127	10,151	126,737	125,933	83,235	82,863
5. Minneapolis, St. Paul & Sault Ste. Marie.	4,383	3,739	3,574	50,292	48,654	36,407	35,321
6. Northern Pacific	6,790	7,052	6,594	101,273	96,522	70,802	70,552
7. Oregon-Washington R. R. & Navigation Co.	2,365	1,674	1,680	29,693	29,225	23,387	22,690
Central Western Region	53,623	67,654	70,560	1,064,442	1,104,065	748,077	760,011
1. Atchison, Topeka & Santa Fe	9,504	11,719	12,591	206,277	220,567	142,765	143,325
2. Chicago & Alton	1,028	2,014	1,926	28,540	28,728	22,423	22,024
3. Chicago, Burlington & Quincy	9,373	12,932	12,874	162,891	162,410	114,191	111,566
4. Chicago, Rock Island & Pacific	7,567	8,771	9,399	134,317	139,471	98,854	104,024
5. Denver & Rio Grande Western	2,558	2,082	2,251	33,201	34,829	24,442	24,535
6. Oregon Short Line	2,539	2,720	2,744	38,732	39,462	25,389	25,555
7. Southern Pacific Co.—Pacific Lines.	8,962	11,679	12,098	230,043	236,641	161,639	164,794
8. Union Pacific	3,765	8,989	8,914	121,972	121,100	77,712	79,044
Southwestern Region	33,222	36,778	37,234	538,410	543,788	388,878	389,718
1. Gulf, Colorado & Santa Fe	1,945	2,395	2,651	28,099	30,234	19,991	21,297
2. Missouri-Kansas-Texas	1,799	2,340	2,416	35,894	36,537	22,464	21,634
3. Missouri-Kansas-Texas of Texas	1,389	1,296	1,152	20,655	19,487	16,470	15,822
4. Missouri Pacific	7,458	10,312	11,052	131,577	139,808	99,091	102,903
5. St. Louis-San Francisco	5,304	4,845	5,145	81,653	84,938	56,532	59,440
6. Texas & New Orleans	4,730	4,016	4,387	70,061	74,328	55,095	54,905
7. Texas & Pacific	1,995	3,920	3,190	50,796	45,696	34,536	31,850

[1] Successor to Chicago, Milwaukee & St. Paul as of Jan. 14, 1928.

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								
1928	1929	1928	1929	1928	1929	1928	1929	1928	1929	
72.5	71.7	389,432	396,659	1,172,864	1,252,518	4,680,456	4,822,948	901,019	873,563	All regions.
72.4	70.6	14,734	14,683	47,508	54,752	163,520	169,780	71,470	70,107	New England.
75.0	75.7	3,946	3,496	12,803	12,642	50,397	51,917	16,989	16,235	1.
68.4	66.1	7,494	8,067	29,238	33,631	75,341	77,914	47,271	46,842	2.
73.8	74.2	67,507	67,240	203,241	207,358	826,335	852,957	173,142	171,007	Great Lakes.
78.5	77.7	1,050	1,068	7,663	8,165	33,628	35,173	3,497	3,284	1.
71.5	70.6	6,393	6,636	17,119	17,509	59,708	60,486	12,003	11,285	2.
78.5	78.1	4,351	4,943	18,434	19,085	90,361	93,327	10,675	10,411	3.
59.8	56.9	707	684	1,613	2,377	13,129	13,595	579	655	4.
76.3	75.6	5,058	5,627	20,047	21,462	103,490	106,922	11,254	11,066	Total 3 and 4.
74.8	74.6	3,678	3,689	12,315	12,939	59,510	59,359	6,995	6,506	5.
67.2	68.5	6,328	6,393	23,156	21,898	64,098	64,484	19,793	19,883	6.
75.5	76.2	29,137	27,626	62,222	64,625	234,618	242,333	96,917	97,106	7.
71.6	70.8	2,981	3,055	9,557	10,472	49,346	52,251	1,815	1,983	8.
67.8	70.9	2,725	2,962	10,596	9,273	40,033	42,173	2,968	3,002	10.
81.5	83.2	2,039	2,117	7,771	7,892	27,938	30,533	2,409	2,239	10.
73.7	73.4	3,052	3,254	11,950	13,252	58,840	63,797	7,195	7,042	11.
73.2	72.2	80,811	82,950	252,746	279,859	1,021,459	1,071,602	230,212	226,534	Central Eastern.
72.9	73.6	11,639	11,966	49,388	49,684	197,215	205,489	23,712	22,139	1.
72.6	72.6	5,059	5,075	9,385	9,367	45,564	45,043	8,450	8,749	2.
78.0	77.5	1,583	1,670	2,201	2,209	19,184	19,535	3,606	3,410	3.
75.4	75.7	4,929	5,339	15,623	15,921	67,594	69,579	14,558	13,996	4.
68.4	64.7	2,164	1,485	3,731	5,452	22,383	24,026	-------	-------	5.
70.2	67.1	2,689	2,922	7,542	8,708	11,605	11,216	26,460	27,782	6.
73.8	72.2	37,846	40,519	117,298	133,140	457,294	482,896	131,180	129,584	7.
77.6	78.1	4,521	4,440	17,099	17,197	76,312	82,723	7,775	7,081	8.
63.9	60.8	20,195	21,663	79,636	93,317	232,735	250,933	16,871	15,519	Pocahontas.
66.1	65.9	8,491	8,645	36,324	37,882	112,842	118,056	7,083	6,398	1.
62.2	56.2	9,200	10,300	34,204	44,208	97,502	108,351	5,727	5,111	2.
75.4	75.5	50,941	51,226	133,545	132,521	601,241	600,081	112,694	103,284	Southern.
78.4	73.8	5,800	6,240	9,895	12,874	52,019	53,189	13,065	12,133	1.
76.4	76.4	1,513	1,530	4,450	4,508	19,020	19,061	3,729	3,432	2.
76.3	76.9	10,253	10,484	25,762	24,447	119,939	120,543	21,432	20,711	3.
78.3	79.2	7,605	7,566	22,205	20,828	110,019	107,641	17,354	15,473	4.
75.0	73.2	3,536	3,715	10,055	10,966	43,844	44,707	7,958	7,239	5.
70.7	71.7	9,579	9,321	30,843	30,031	108,641	107,962	24,017	22,005	6.
77.7	77.7	1,949	1,954	3,175	3,275	21,614	22,505	3,552	3,317	7.
72.3	72.1	52,963	51,123	138,755	143,077	590,901	588,275	82,593	79,089	Northwestern.
76.7	74.5	9,608	10,239	23,226	26,220	111,418	112,030	23,579	23,864	1.
73.4	75.2	10,239	9,649	29,119	26,274	136,226	137,176	18,091	16,753	2.
85.0	81.1	1,392	1,340	1,858	2,969	20,607	20,686	4,190	4,023	3.
65.7	65.8	10,298	9,201	31,294	32,458	103,980	101,179	11,505	11,298	4.
72.4	72.6	2,968	2,838	9,006	8,589	41,473	39,752	4,989	4,633	5.
69.9	73.1	9,688	9,211	25,089	21,410	81,725	76,862	10,733	9,821	6.
78.8	77.6	2,245	2,326	2,143	2,531	23,451	23,434	3,339	2,940	7.
70.3	68.9	74,975	79,937	216,583	239,115	804,911	846,215	154,579	152,907	Central Western.
69.2	65.0	15,923	18,196	47,554	58,766	153,909	164,454	34,684	34,683	1.
78.6	76.7	1,202	1,343	2,751	3,279	20,102	19,901	5,603	5,454	2.
70.1	68.7	11,192	12,025	32,912	35,358	126,953	126,778	19,715	18,818	3.
73.6	74.6	8,054	7,849	22,396	21,971	103,184	106,799	19,290	18,623	4.
73.6	70.5	2,300	2,395	7,095	8,529	27,041	28,542	3,627	3,440	5.
65.6	64.8	3,444	4,101	8,574	8,606	31,877	32,478	3,944	3,862	6.
70.3	69.6	17,597	18,086	46,020	48,024	159,487	164,484	38,846	39,212	7.
63.7	65.3	8,591	8,715	31,072	29,721	96,870	95,782	14,987	14,925	8.
72.2	71.7	27,306	27,837	100,850	102,519	439,354	443,105	59,458	55,116	Southwestern.
71.1	70.4	1,317	1,413	5,293	6,033	24,080	26,067	2,382	2,130	1.
62.6	59.2	2,464	2,653	10,543	11,552	29,874	30,441	3,350	3,080	2.
79.7	81.2	610	637	1,661	1,014	15,389	14,179	3,418	3,127	3.
75.3	73.6	5,813	6,250	21,348	24,554	107,388	114,345	13,553	13,023	4.
69.2	70.0	5,052	5,064	20,660	20,957	63,923	66,956	11,485	10,657	5.
78.6	73.9	3,927	4,175	8,875	11,697	53,589	57,730	10,862	10,333	6.
68.0	69.7	2,246	2,243	10,446	8,778	41,694	36,830	5,971	5,443	7.

Source: Interstate Commerce Commission

No. 449.—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 1916, 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	1,263,344	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	40,587
1926	1,336,142	111,787	26,243	486,944	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	432,296	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
Eastern district:								
1926	580,200	23,950	5,777	258,428	78,472	11,497	183,282	18,794
1927	541,075	23,168	5,843	228,161	78,974	10,751	175,775	18,403
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
Southern district:								
1926	310,579	15,157	1,936	172,652	42,927	32,752	36,694	8,461
1927	308,893	14,593	2,064	172,668	41,205	32,249	37,894	8,220
1928	294,173	14,288	1,985	162,283	41,352	29,778	37,205	7,281
1929	295,468	14,865	1,837	168,770	35,971	29,659	37,284	7,082
Western district:								
1926	445,363	72,680	18,530	55,864	149,360	60,602	76,091	12,236
1927	431,643	75,581	18,096	49,062	143,332	56,351	77,404	11,817
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
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	66,371
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
Eastern district:								
1926	1,309,242	73,474	18,083	617,234	165,393	53,456	346,586	35,016
1927	1,237,669	72,361	18,021	569,139	160,416	50,216	334,034	33,482
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
Southern district:								
1926	461,263	34,951	4,337	211,599	60,998	56,026	78,861	14,491
1927	449,753	33,155	4,414	210,676	57,252	53,709	76,291	14,256
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
Western district:								
1926	694,864	115,499	24,603	98,021	188,332	95,308	154,383	18,718
1927	676,217	115,868	24,261	91,898	182,923	88,849	154,318	18,100
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

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

No. 450.—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, 1929 (thousands of tons of 2,000 pounds)		
	All districts								1929					
	1920	1922	1924	1925	1926	1927	1928	1929	Eastern district	Southern district	Western district	Eastern district	Southern district	Western district
Grand total, carload and l. c. l.	1,255,421	1,023,745	1,187,296	1,247,242	1,336,142	1,281,611	1,285,943	1,339,091	576,718	295,468	466,905	1,294,927	429,575	727,099
Grand total, carload traffic	1,202,219	980,516	1,146,747	1,206,655	1,296,651	1,243,171	1,248,989	1,303,048	558,922	288,386	455,739	1,262,411	416,960	709,800
Products of agriculture, total	110,840	111,787	116,587	109,313	111,787	113,343	118,022	115,343	20,968	14,865	79,511	67,566	33,794	121,903
Wheat	23,131	24,805	27,444	21,548	24,379	26,327	26,950	27,019	3,220	744	23,056	6,735	1,973	30,171
Corn	12,689	19,275	14,883	12,680	13,927	13,162	17,045	15,258	2,661	1,864	10,733	6,761	3,299	15,058
Oats	8,615	7,646	8,507	8,450	6,496	5,518	5,888	5,713	1,421	936	3,357	3,655	1,741	4,699
Other grain	5,669	5,245	5,606	4,564	4,014	5,212	5,506	4,477	323	118	4,036	1,189	384	5,270
Flour and meal	10,952	10,694	10,331	9,901	10,137	10,027	10,753	10,627	2,569	856	7,202	10,525	3,175	10,582
Cereal foods and other mill products	8,891	9,000	10,085	9,578	9,768	10,178	10,581	10,820	3,263	1,237	6,321	9,251	2,865	9,080
Hay, straw, and alfalfa	7,957	5,723	5,802	5,506	5,028	4,467	3,999	3,697	1,500	204	1,993	2,769	1,348	2,763
Leaf tobacco [1]	1,081	882	1,070	1,038	1,010	1,053	945	989	118	828	43	317	1,314	54
Cotton	3,379	3,073	3,259	4,127	4,482	4,180	3,773	3,940	119	1,496	2,325	1,479	3,432	3,993
Cottonseed and products, except oil	4,573	3,546	4,598	5,849	6,484	6,046	4,984	5,076	19	2,363	2,694	702	3,523	4,019
Citrus fruits	1,404	1,141	1,650	1,363	1,533	1,750	1,543	2,355	30	977	1,347	2,463	2,645	4,677
Other fruit fruits	5,271	5,063	5,114	5,910	6,321	5,648	6,401	5,690	1,060	1,378	3,251	5,809	3,171	8,785
Potatoes, except sweet [2]	4,118	4,829	4,591	4,614	4,339	4,727	4,511	4,425	1,892	352	2,182	7,324	1,249	4,862
Other fresh vegetables	2,205	2,324	2,685	2,828	2,800	3,083	3,124	3,222	705	680	1,837	3,730	1,913	6,010
Dried fruits and vegetables	1,165	1,154	1,438	1,533	1,568	1,527	1,878	1,609	436	92	1,080	1,250	318	2,208
Sugar beets	9,741	7,386	9,524	9,824	9,501	10,526	5,260	5,348	331	1	5,016	466	2	5,483
Other products of agriculture							4,881	5,077	1,301	738	3,037	3,143	1,441	4,189
Animals and products, total	26,595	26,230	27,747	26,324	26,244	26,003	25,634	24,907	5,353	1,838	17,216	17,962	3,888	22,878
Horses and mules	936	491	531	544	513	541	577	553	44	100	410	119	206	598
Cattle and calves	9,809	9,567	9,315	9,330	9,240	8,634	7,977	7,310	869	499	6,003	1,895	659	7,958
Sheep and goats	1,344	1,159	1,215	1,224	1,270	1,297	1,361	1,387	163	62	1,162	403	72	1,908
Hogs	5,421	5,795	6,707	5,502	5,272	5,369	5,871	5,534	1,035	372	4,127	2,185	485	4,783

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

[2] "Potatoes" prior to 1928.

No. 450.—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, 1929 (thousands of tons of 2,000 pounds)		
	All districts								1929					
	1920	1922	1924	1925	1926	1927	1928	1929	Eastern district	Southern district	Western district	Eastern district	Southern district	Western district
Animals and products—Continued														
Fresh meats	2,770	2,614	3,000	2,904	2,996	2,987	2,935	3,007	926	207	1,874	3,981	667	2,216
Other packing-house products	2,206	2,049	2,395	2,139	2,022	1,957	2,203	2,274	934	257	1,084	2,520	969	1,598
Poultry	264	292	376	357	409	407	406	417	58	48	312	836	87	440
Eggs	536	565	572	591	644	651	635	588	101	42	445	888	104	696
Butter and cheese	425	507	648	686	725	747	754	793	133	32	629	1,134	124	825
Wool	293	360	294	263	281	356	394	414	258	6	149	709	21	271
Hides and leather	1,051	1,081	1,026	1,026	985	1,010	915	913	519	106	288	1,483	233	449
Other animals and products	1,540	1,750	1,668	1,758	1,887	2,049	1,606	1,717	874	110	733	1,812	261	1,137
Products of mines, total	712,154	532,998	637,582	678,336	757,703	713,402	696,583	737,879	320,058	204,741	213,080	749,342	252,626	294,843
Anthracite	78,100	48,821	76,108	58,260	76,015	72,176	69,997	71,931	71,244	107	581	113,636	253	1,294
Bituminous coal	389,349	287,617	320,376	346,346	388,736	361,551	346,057	368,339	152,451	166,766	49,122	439,562	199,544	94,004
Coke	26,895	15,407	18,023	19,798	22,193	16,164	16,241	19,127	14,913	1,896	2,317	23,207	2,763	3,750
Iron ore	84,433	54,457	55,851	72,134	76,023	66,355	68,684	82,123	3,357	2,744	76,021	51,820	3,721	77,647
Copper ore and concentrates	21,550	7,953	10,504	12,289	13,039	11,335	5,916	7,057	6	6	7,045	45	159	11,155
Other ores and concentrates							5,922	7,714	2,887	458	4,370	5,468	1,068	8,129
Gravel, sand, and stone [3]	98,720	102,933	136,650	145,405	157,295	161,776	128,304	121,559	43,609	22,113	55,836	59,486	29,096	69,165
Crude petroleum	6,435	5,937	8,412	11,245	10,744	10,531	7,633	6,630	374	119	6,138	1,537	393	11,323
Asphaltum	1,424	1,900	2,517	2,531	3,101	3,170	2,899	3,196	1,931	619	947	3,880	1,381	1,628
Salt	3,250	3,245	3,303	3,403	3,238	3,251	3,341	3,183	1,618	25	1,541	4,224	963	3,189
Phosphate rock, crude	6,997	4,726	5,847	6,925	7,319	7,094	4,801	5,165	76	5,035	54	336	5,715	127
Sulphur							1,811	2,253	299	67	1,887	691	295	3,341
Other products of mines [3]							34,977	39,602	27,295	4,786	7,521	45,450	7,275	10,090
Products of forests, total	100,766	89,059	108,094	107,391	104,851	99,351	96,737	94,855	10,531	29,659	54,665	46,426	49,524	86,228
Logs, posts, poles, piling, and cordwood	38,571	35,627	45,551	45,428	45,163	41,676	39,541	39,611	2,308	7,877	29,426	5,442	9,891	33,750
Ties	5,472	3,761	5,508	4,292	4,833	5,338	4,240	4,024	698	1,622	1,704	1,966	2,265	2,428
Pulp wood	4,992	3,931	5,603	5,826	5,943	6,989	6,893	6,781	1,741	1,199	3,840	3,752	1,887	5,488
Lumber, shingles, lath, cooperage materials, veneer, etc	48,618	43,507	48,612	49,019	46,062	42,846	42,776	40,937	4,464	17,533	18,940	31,788	33,420	43,428
Other forest products	3,112	2,233	2,820	2,826	2,850	2,501	3,287	3,502	1,319	1,427	756	3,477	2,061	1,134

Manufactures and miscellaneous, total	251, 864	220, 442	256, 737	285, 291	296, 066	291, 073	312, 013	330, 064	201, 512	37, 284	91, 268	381, 115	77, 128	183, 948
Refined petroleum and its products	29, 616	30, 870	41, 298	46, 273	48, 938	51, 661	58, 480	64, 240	23, 204	6, 434	34, 602	46, 137	15, 110	66, 183
Vegetable oils	938	937	1, 150	1, 446	1, 621	1, 893	1, 561	1, 733	426	484	823	1, 337	986	1, 505
Sugar, sirup, glucose, and molasses	5, 664	5, 091	5, 407	5, 700	5, 714	5, 582	5, 605	5, 858	1, 773	1, 089	2, 996	3, 948	2, 591	5, 982
Iron, pig [4]	16, 451	9, 991	12, 071	14, 577	15, 132	11, 488	8, 033	8, 000	5, 926	1, 433	641	8, 865	1, 905	1, 653
Scrap iron and steel	(5)	(5)	(5)	(5)	(5)	(5)	11, 746	13, 527	10, 456	1, 038	2, 034	16, 791	1, 599	2, 877
Iron and steel (6th class, n. o. s.)	(5)	(5)	(5)	(5)	(5)	(5)	5, 130	5, 746	5, 481	69	197	7, 816	329,	571
Rails, fastenings, frogs, and switches [6]	3, 047	2, 378	2, 471	2, 646	2, 875	2, 595	2, 551	2, 658	2, 056	249	353	3, 145	623	1, 280
Iron and steel pipes and fittings [7]	27, 443	22, 162	24, 800	29, 144	30, 568	31, 878	6, 945	7, 670	5, 433	976	1, 261	11, 253	2, 394	6, 080
Iron and steel (5th class, n. o. s.) [7]							33, 386	37, 427	33, 819	1, 283	2, 325	56, 119	3, 282	7, 953
Iron and steel nails and wire	(5)	(5)	(5)	(5)	(5)	(5)	1, 667	1, 873	1, 463	103	308	2, 691	231	785
Copper: Ingot, matte and pig	5, 170	4, 337	4, 904	5, 419	5, 604	2, 898	999	1, 108	416	17	675	1, 697	25	2, 056
Lead and zinc: Ingot, pig, or bar							1, 218	1, 338	466	25	847	1, 960	193	2, 236
Other metals, pig, bar, sheet, etc							431	525	340	12	174	817	60	506
Machinery and boilers [8]	9, 391	4, 214	4, 930	5, 359	5, 772	5, 176	3, 772	3, 931	2, 728	240	963	5, 838	949	2, 423
Cement	15, 400	18, 453	22, 970	24, 516	24, 921	25, 889	26, 080	25, 008	11, 980	3, 124	9, 904	25, 127	5, 904	15, 338
Brick and artificial stone	15, 251	15, 640	18, 165	19, 668	20, 337	19, 556	19, 019	17, 216	10, 286	2, 961	3, 969	17, 814	4, 653	7, 042
Lime and plaster	4, 410	5, 199	6, 008	6, 830	6, 642	6, 092	5, 300	4, 803	2, 781	584	1, 438	5, 551	1, 369	2, 812
Sewer pipe and drain tile	2, 165	2, 093	2, 281	2, 426	2, 387	2, 712	2, 556	2, 708	1, 686	320	702	3, 253	636	1, 169
Agricultural implements and vehicles other than automobiles [9]	3, 324	1, 720	2, 158	2, 281	2, 304	3, 118	1, 903	2, 136	600	168	1, 368	1, 511	437	2, 579
Automobiles, autotrucks, parts, tires, etc	3, 427	4, 160	6, 061	6, 980	7, 387	6, 324	8, 752	10, 423	8, 576	408	1, 439	18, 821	2, 284	6, 453
Furniture	743	692	837	970	987	1, 004	1, 063	1, 102	476	314	311	1, 453	654	806
Beverages	1, 240	614	683	841	760	804	813	774	303	59	411	650	116	606
Ice	5, 795	5, 158	4, 430	4, 928	4, 145	4, 062	3, 922	3, 310	1, 489	377	1, 444	1, 777	412	1, 504
Fertilizers	9, 204	6, 813	7, 815	8, 463	8, 197	10, 465	12, 859	13, 276	4, 526	6, 116	2, 634	7, 970	9, 028	4, 167
Printing paper [10]	3, 144	2, 765	3, 051	3, 328	3, 441	3, 322	3, 303	3, 480	2, 690	166	625	9, 520	472	2, 441
Chemicals and explosives [11]	8, 348	7, 545	8, 423	9, 579	10, 084	9, 116	2, 979	3, 213	1, 567	726	919	2, 626	1, 399	1, 322
Textiles	805	878	882	966	933	785	937	941	305	462	173	869	996	409
Canned food products	3, 074	3, 106	3, 740	4, 144	4, 070	4, 204	4, 805	5, 029	2, 216	299	2, 515	5, 730	906	4, 973
Furnace slag	77, 814	65, 625	72, 202	78, 807	83, 217	80, 447	8, 784	9, 835	8, 622	1, 049	163	9, 720	1, 787	217
Paperboard, pulpboard and wallboard (paper)							2, 317	2, 511	1, 700	342	469	3, 803	705	1, 113
Building paper and prepared roofing materials							2, 035	2, 325	1, 495	211	619	2, 801	637	1, 137
Other manufactures and miscellaneous							63, 062	66, 338	46, 226	6, 145	13, 967	93, 589	14, 454	27, 772
Merchandise—all l. c. l. freight	53, 202	43, 229	40, 549	40, 587	39, 491	38, 440	36, 954	38, 043	17, 796	7, 082	11, 165	32, 516	12, 615	17, 299

[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 1928.
[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. 451.—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, 880,915; 1923, 957,925; 1924, 933,354

Month	1925	1926	1927	1928	1929	1925	1926	1927	1928	1929
	Total, all commodities					Grain and grain products				
Year	985,080	1,021,131	992,996	992,113	1,015,188	44,341	45,449	45,745	48,326	46,047
January	889,895	921,674	939,165	862,224	892,744	49,323	47,094	44,747	46,920	45,492
February	914,080	919,333	950,480	897,686	941,940	44,623	42,766	43,408	46,874	47,161
March	908,435	969,349	996,509	950,512	961,589	38,495	39,812	39,061	47,499	42,598
April	931,920	958,201	968,897	935,077	995,994	33,289	37,518	37,131	39,784	35,936
May	985,073	1,036,455	1,027,118	1,001,289	1,051,427	36,598	39,964	39,738	40,776	38,136
June	971,446	1,022,335	999,171	984,823	1,052,114	36,525	39,314	40,205	34,482	43,121
July	978,528	1,042,752	978,440	986,010	1,038,305	40,341	54,754	46,477	51,587	61,674
August	1,060,654	1,097,030	1,062,462	1,069,681	1,118,171	53,681	55,637	55,084	57,714	63,114
September	1,075,337	1,130,778	1,097,021	1,117,035	1,134,644	53,064	49,079	58,829	59,618	49,842
October	1,113,406	1,193,515	1,116,218	1,175,970	1,169,344	47,994	51,852	54,813	54,830	46,420
November	1,065,416	1,062,068	955,726	1,028,842	978,367	48,484	43,687	45,641	52,640	38,395
December	924,708	898,078	835,055	879,259	835,248	50,888	42,666	44,022	47,175	39,919
	Livestock					Coal				
Year	31,454	30,696	29,749	29,248	27,287	171,257	190,996	177,562	168,625	177,547
January	36,523	33,479	32,330	31,912	29,500	202,662	187,445	222,743	177,538	202,447
February	32,054	28,231	27,687	32,514	26,421	180,812	174,564	213,204	170,025	211,398
March	28,168	28,374	27,255	28,670	24,221	151,868	181,477	204,142	163,002	158,777
April	27,465	27,055	27,585	26,344	26,724	139,779	164,159	154,326	145,132	148,879
May	27,808	27,738	28,846	26,667	26,460	153,933	168,237	161,636	157,574	160,113
June	25,948	26,871	26,935	25,204	23,349	154,308	171,663	151,047	145,026	156,400
July	26,515	26,796	25,488	22,752	22,992	161,905	176,000	144,240	142,903	149,570
August	29,324	29,261	28,074	25,356	24,257	191,202	190,556	173,988	165,525	171,504
September	31,547	36,775	31,750	34,231	30,911	179,902	199,114	183,028	181,082	190,996
October	41,603	40,049	39,578	38,668	37,275	182,671	225,771	190,665	206,574	207,389
November	37,828	34,578	33,642	31,849	31,378	189,796	235,060	169,253	193,737	188,972
December	32,179	29,091	28,869	28,292	25,450	173,135	213,938	164,385	177,181	192,748
	Coke					Ore				
Year	11,987	13,142	10,547	10,264	12,068	38,685	41,907	36,380	36,726	43,871
January	13,562	17,966	12,176	10,650	11,940	9,908	9,879	9,461	8,199	8,918
February	13,277	17,992	12,361	11,537	13,910	10,610	10,196	10,688	8,098	9,243
March	12,586	14,371	12,303	10,875	12,667	11,477	10,544	10,920	8,564	11,423
April	11,465	12,507	11,447	10,118	11,930	20,735	15,042	25,473	10,263	27,670
May	9,650	11,841	10,693	10,152	12,392	62,533	55,301	59,883	41,299	70,951
June	9,238	11,476	10,367	9,664	12,110	62,206	67,663	64,742	65,597	75,963
July	9,143	11,272	9,669	8,812	11,608	62,683	72,788	63,003	62,538	76,240
August	9,626	11,464	9,691	9,349	11,739	62,863	77,601	62,188	64,340	75,712
September	10,990	12,174	9,780	10,138	11,774	59,100	75,196	55,897	62,742	68,650
October	12,849	13,023	9,447	10,726	12,005	53,008	67,666	48,046	60,246	60,041
November	15,495	12,832	9,067	10,631	11,427	38,165	32,078	19,291	32,565	29,215
December	15,671	11,777	9,597	10,641	11,399	12,411	9,564	8,370	10,223	8,219
	Forest products					Miscellaneous and L. C. L.				
Year	71,862	70,277	65,819	63,986	62,515	615,493	628,665	627,193	634,938	645,852
January	65,985	66,959	64,344	58,280	54,662	511,930	558,853	553,364	528,717	539,787
February	78,914	74,826	68,896	67,779	60,259	553,791	570,756	574,236	560,857	573,547
March	80,522	76,972	70,522	68,729	67,096	585,320	617,798	632,306	623,173	644,808
April	78,869	75,692	68,439	64,331	69,704	620,319	626,227	644,496	639,104	675,153
May	76,588	76,704	71,026	67,392	69,329	617,964	656,670	655,296	657,428	674,046
June	73,461	74,244	67,690	65,825	69,583	609,759	631,103	638,184	639,024	671,588
July	66,034	67,227	63,344	59,669	61,259	611,906	633,915	626,220	637,501	654,960
August	71,233	70,739	68,964	66,412	681690	642,724	661,770	664,474	680,985	703,155
September	69,068	70,546	67,633	63,632	62,932	671,066	687,894	690,706	706,193	719,540
October	70,782	72,218	67,172	66,172	63,589	704,498	722,935	706,497	708,754	742,624
November	67,590	65,504	61,097	63,525	55,042	668,059	638,329	617,734	643,895	623,940
December	64,511	54,547	52,050	53,948	45,452	575,913	536,494	527,761	551,798	512,061

Source: American Railway Association.

No. 452.—STEAM RAILWAY ACCIDENTS, BY CAUSES

NOTE.—See headnote to Table 453

Cause of accident	Killed					Injured				
	1921-1925, average	1926	1927	1928	1929	1921-1925, average	1926	1927	1928	1929
All accidents	6,618	7,090	6,821	6,509	6,496	141,688	130,235	104,799	85,561	76,995
Train accidents	394	360	286	272	326	4,409	3,916	3,072	2,873	3,284
Passengers	72	79	10	16	36	2,423	1,829	1,511	1,404	1,742
Employees	237	193	195	143	160	1,597	1,630	1,221	1,139	1,030
Other persons	85	88	81	113	130	389	457	340	330	512
Causes:										
Collisions	139	152	80	70	85	2,071	2,319	1,557	1,192	1,212
Passengers	37	38	6	8	1	1,172	1,223	897	577	513
Employees	89	107	65	53	76	764	877	549	498	437
Other persons	14	7	9	9	8	135	219	111	117	262
Derailments	197	141	122	129	156	2,109	1,362	1,271	1,496	1,871
Passengers	34	36	4	8	35	1,212	587	589	784	1,202
Employees	111	64	83	69	63	690	599	520	545	501
Other persons	52	41	35	52	58	208	176	162	167	168
Other causes	58	67	84	73	85	228	235	244	185	201
Passengers	2	5	------	------	------	39	19	25	43	27
Employees	36	22	47	21	21	143	154	152	96	92
Other persons	20	40	37	52	64	46	62	67	46	82
Train-service accidents	5,794	6,329	6,096	5,872	5,806	44,420	45,733	39,531	34,514	33,415
Passengers	100	73	69	67	61	3,155	2,632	2,375	2,055	2,101
Employees	1,088	1,181	1,039	895	977	31,563	32,572	26,936	22,640	21,151
Other persons	4,605	5,078	4,988	4,910	4,768	9,701	10,529	10,220	9,819	10,163
Causes:										
Coupling or uncoupling locomotives or cars	80	64	48	37	59	1,624	1,591	1,325	1,,35	965
Coupling or uncoupling air hose	22	20	21	28	20	435	455	398	354	328
Operating locomotives	20	11	22	13	17	6,259	5,697	4,467	3,402	3,160
Operating hand brakes	30	29	32	25	37	2,090	2,474	2,158	1,836	1,755
Operating switches	2	------	1	1	1	965	1,142	802	684	729
Contact with fixed structures	69	67	71	45	43	836	706	625	521	460
Getting on or off cars or locomotives	484	447	428	368	412	9,125	9,351	7,810	6,729	6,522
Highway grade-crossing accidents [1]	1,997	2,442	2,328	2,496	2,399	5,826	6,896	6,482	6,573	6,673
Struck or run over, not at public crossings	[2]2,415	2,579	2,487	2,253	2,188	[2]2,079	2,121	1,959	1,639	1,611
Miscellaneous	1,157	670	658	606	630	15,595	15,300	13,505	11,641	11,212
Nontrain accidents	430	401	439	365	364	92,860	80,586	62,196	48,174	40,296
Passengers	[2]4	3	3	2	3	[2]634	688	674	568	528
Employees	329	301	332	289	287	90,630	77,701	60,066	46,467	38,558
Other persons	97	97	104	74	74	1,724	2,197	1,456	1,139	1,210

[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. 453.—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	292	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	299	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	5,996	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	85	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

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

No. 454.—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			1928		
	1926	1927	1928	Eastern district	Southern district	Western district
Consumption of fuel by locomotives:						
Anthracite coal, 1,000 tons	2,005	1,603	1,490	1,490	----	----
Bituminous coal, do	122,823	115,883	112,382	53,638	24,570	34,174
Fuel oil[1], 1,000 gallons	2,459,678	2,429,936	2,498,144	10,519	37,830	2,449,795
Hardwood[1], cords	30,581	27,294	25,231	10,461	14,405	365
Softwood[1], do	74,240	67,394	55,995	15,824	2,744	37,427
Total, coal equivalent[2], 1,000 tons	**140,426**	**132,945**	**129,742**	**55,208**	**24,807**	**49,727**
Rails laid in replacement and betterment:						
Total tonnage, 1,000 long tons	3,818	3,819	3,806	1,658	664	1,484
Total charges[3], 1,000 dollars	139,899	138,732	138,652	58,192	23,946	56,514
Ties laid in previously constructed tracks:						
Crossties, thousands	80,745	78,340	77,371	20,218	16,868	40,285
Switch and bridge ties, 1,000 board feet	[4] 275,972	259,997	[4] 269,149	[4] 98,121	63,233	107,795
Total charges[3], 1,000 dollars	[4] 117,532	117,871	[4] 118,044	[4] 42,212	23,291	52,541

[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 450 linear feet of steel ties in 1926, and 279 in 1928.

Source of Tables 453 and 454: Interstate Commerce Commission.

No. 455.—EXPRESS COMPANIES: Income Account

NOTE.—In thousands of dollars. Mileage operated by express companies, 1929: Total, 270,890; steam road, 232,093; electric line, 2,770; steamboat line, 23,612; airplane, 10,314; stage line, 2,101. The Railway Express Agency, Inc., operates 260,580 miles, and the Southeastern Express Co., 10,310 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] *39,886*
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	2,038	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
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

[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. 456.—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
1911	35,698	508	1,517	25,917	10,683	9,781	10,471	21,655	12
1912	37,090	486	1,419	26,258	11,119	10,832	11,788	22,915	12
1913	40,103	513	2,035	26,713	11,785	13,390	12,417	24,864	12
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*	[2] *3,277*	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

[1] Amounts due other carriers under the provisions of definite contracts. [2] Not separated. [3] Deficit.
Source of Tables 455 and 456: Interstate Commerce Commission.

No. 457.—ALASKAN GOVERNMENT RAILROAD TRAFFIC: ANALYSIS OF STATISTICS OF PASSENGER AND FREIGHT SERVICES, YEARS ENDED JUNE 30

	1928	1929		1928	1929
Road, mileage operated—monthly average	543.7	543.7	FREIGHT TRAFFIC		
PASSENGER TRAFFIC			Freight train-miles	97,341	90,006
Passenger train-miles [1]	38,598	40,729	Mixed train-miles	112,351	116,569
Mixed train-miles	112,351	116,569	Loaded cars, 1 mile, freight and mixed trains	1,559,705	1,361,064
Passenger car-miles, passenger trains [1]	38,598	44,123	Empty cars, 1 mile, freight and mixed trains	961,059	788,253
Passenger car-miles, mixed trains	210,185	233,511	All cars, 1 mile	2,520,764	2,149,317
Total revenue passengers carried	51,587	53,177	Tons of revenue freight carried:		
Revenue passengers carried 1 mile	3,859,509	3,702,454	Coal	49,141	56,848
Total passenger revenue	*$221,368*	*$210,995*	Miscellaneous	47,836	37,275
Average revenue per passenger per mile	$0.05736	$0.05699	Tons of revenue freight carried 1 mile	19,712,037	15,628,324
			Total freight revenue	*$875,298*	*$669,357*
			Average revenue per ton per mile	$0.04440	$0.04282

[1] Motor miles.

Source: Department of the Interior.

No. 458.—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	70,016	76,162	79,914	77,301	70,309
Revenue passenger 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 separte 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. 459.—ELECTRIC RAILWAYS: MILEAGE, EQUIPMENT, OUTPUT OF ELECTRICITY, TRAFFIC, EMPLOYEES, AND SALARIES AND WAGES

NOTE.—See headnote to Table 458

	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	40,732	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	(2)	(2)
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	(2)	(2)
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	201,838	202,513	----------	178,837
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. 460.—ELECTRIC RAILWAYS:

NOTE.—See headnote to Table 458. 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	902,369	942,867
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	186,828	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	382,087
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	187,536
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	22,683	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	[2] 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	--------	15,480	30,995	29,164	--------	3,967	3,883	3,649	--------	Del.
227,918	--------				--------	34,439	42,401	40,387	--------	Md.
136,888	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	(2)	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	--------	282	382			309	410	334	--------	N. Mex.
5,432	--------			447	--------	1,019	981	1,096	--------	Ariz.
837	--------	451	388			1,420	1,323	770	--------	Idaho.
--------	--------					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	14,306	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. 461.—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
1915	1,027	46,454	79,007	3,048	538	1,884	14,036	380	512	[1]	[1]
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	69,862	7,660	2,488	11,037	8,208	3,286	948	10,719	22,032
1929	[2] 671	42,431	66,767	7,001	1,828	11,342	8,724	[3] 3,325	945	11,854	23,886
New England	63	4,074	6,253	410	119	91	1,206		167	1,163	1,984
Maine	12	423	321	8	25	69	94		7	5	25
New Hampshire	11	125	172			1	30		2	41	71
Vermont	4	20	7		2	1	3		3	23	32
Massachusetts	25	1,913	3,773	288	23	12	752		6	713	1,132
Rhode Island	3	302	585	9	15		113		3	164	161
Connecticut	8	1,291	1,395	105	54	8	214		146	217	543
Middle Atlantic	162	10,329	25,611	3,134	318	169	2,782		212	4,181	5,652
New York	71	5,276	16,056	2,773	196	87	1,524		203	831	948
New Jersey	13	1,164	2,679	100	5		327			2,458	3,185
Pennsylvania	78	3,889	6,876	261	117	82	931		9	892	1,519
East North Central	159	11,049	14,828	1,998	752	4,040	2,143		164	3,238	7,909
Ohio	49	3,267	3,475	585	173	577	645		26	986	1,879
Indiana	24	2,496	1,619	89	426	519	436		23	443	1,330
Illinois	49	3,245	6,327	975	88	2,787	766		80	463	1,372
Michigan	22	1,274	2,208	295	57	153	254		27	1,036	1,856
Wisconsin	15	767	1,199	54	8	4	42		8	310	1,472
West North Central	68	3,471	4,855	299	95	1,088	744		63	652	2,271
Minnesota	8	694	1,198	26	1		99		2	117	145
Iowa	23	984	614	43	13	1,036	193		39	150	1,089
Missouri	14	1,152	2,281	186	14	22	338		5	179	249
North Dakota	3	26	42	1			9			4	5
South Dakota	1									27	574
Nebraska	4	184	452	20	1	1	67		3	54	42
Kansas	15	431	268	23	66	29	38		14	121	167
South Atlantic	60	3,407	4,495	274	82	314	525		63	1,000	2,934
Delaware	1	70	113				15			22	47
Maryland	5	668	1,277	156	28	95	148		3	231	1,602
Dist. of Columbia	5	395	862	24	2	13	109		6	144	288
Virginia	13	677	684	61	10	7	82		16	247	171
West Virginia	10	635	365		25	28	54		19	128	642
North Carolina	8	322	205	10	4	159	40		17	60	39
South Carolina	4	60	72		3		9			9	33
Georgia	7	370	535	21	8	10	44		2	69	45
Florida	7	210	382	2	2	2	24			90	67
East South Central	33	1,304	1,756	186	29	1	261		5	204	502
Kentucky	7	495	731	71	24		126			84	77
Tennessee	9	455	593	53	2	1	71		3	49	366
Alabama	10	330	397	62	3		61		2	15	24
Mississippi	7	24	35				3			56	35
West South Central	48	1,810	2,565	130	115	83	271		24	516	672
Arkansas	7	119	233	10	2		17			20	21
Louisiana	8	286	787	47	2		78			61	73
Oklahoma	11	379	231	27	83	67	34		19	140	178
Texas	22	1,026	1,314	46	28	16	142		5	295	400
Mountain [4]	29	1,544	766	201	44	1,994	179		73	111	221
Montana	8	705	105	14	35	1,430	32		50	5	4
Idaho	1									11	17
Wyoming	1									9	28
Colorado	9	343	366	127	2	220	86		9	46	70
Arizona	3	24	33		3		3			13	23
Utah	7	472	262	60	4	344	58		14	27	79
Pacific	49	5,443	5,638	369	274	3,562	613		174	739	1,761
Washington	18	1,293	936	64	203	128	69		47	135	280
Oregon	5	685	609	76	4	481	116		24	62	71
California	26	3,465	4,093	229	67	2,953	428		103	592	1,410

[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. 462.—ELECTRIC RAILWAYS: INCOME ACCOUNT OF OPERATING COMPANIES

NOTE. See headnote to Table 458

[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	55,170	102,003	96,285	94,126	85,897	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. 463.—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	118,977,959	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

[1] Data not available.

Source: Annual Statistical Number, Electric Railway Journal.

No. 464.—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. 465.—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. 466.—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. 467.—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*		[1] *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 466 and 467: 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, storage, 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. 468.—CARGO TONNAGE OF WATER-BORNE COMMERCE OF THE UNITED STATES

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

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

[1] Includes the following, with figures for 1928: Harbor traffic of New York, Philadelphia, and San Francisco (49,507,000 tons); local traffic of other seaports (21,939,000); local traffic of lake ports (6,479,000).
[2] Excluding Sault Ste. Marie Canal traffic (86,993,000 tons in 1928) and additional Detroit River traffic (13,227,000 tons in 1928), 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. 469.—COMMERCE OF PRINCIPAL UNITED STATES OCEAN PORTS, 1928

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	**46,690**	**56,151**	**120,975**	**117,532**
Atlantic ports	**35,437**	**21,387**	**73,248**	**49,475**
Searsport, Me	8	3	413	-------
Portland, Me	601	126	2,089	221
Portsmouth, N. H	45	-------	277	16
Boston Harbor, Mass	2,965	403	10,797	1,938
Beverly, Mass	60	-------	506	106
Salem, Mass	10	-------	202	1,350
Lynn, Mass	12	-------	283	1,660
New Bedford and Fairhaven, Mass	(1)	(1)	702	97
Fall River, Mass	706	9	1,073	878
Newport, R. I	1	-------	117	11
Providence, R. I	292	3	4,077	427
New London, Conn	21	-------	536	130
New Haven, Conn	20	-------	1,454	95
Bridgeport, Conn	12	-------	1,029	135
Stamford, Conn	-------	-------	413	26
Greenwich, Conn	-------	-------	193	18
New York Harbor, N. Y	17,865	12,799	28,696	10,069
Hempstead, N. Y	-------	-------	203	7,157
Huntington Bay, N. Y	-------	-------	1	1,244
Port Jefferson, N. Y	-------	-------	21	2,736
Philadelphia, Pa.[2]	4,988	2,101	9,468	3,665
Baltimore, Md	4,558	1,692	2,570	1,914
Hampton Roads, Va	621	2,674	1,479	15,971
Wilmington, N. C	281	30	524	42
Charleston Harbor, S. C.[3]	704	285	1,199	363
Savannah, Ga	462	328	1,001	373
Brunswick, Ga	137	129	339	312
Fernandina, Fla	-------	261	-------	1
Jacksonville, Fla	375	242	1,133	513
Miami, Fla	120	23	251	90
Key West, Fla	186	242	64	1
San Juan, P. R	172	23	521	308
Gulf ports	**7,410**	**17,894**	**6,891**	**34,042**
Charlotte, Fla	1	99	2	351
Tampa, Fla	140	977	968	1,060
Gulf ports—Con.				
Pensacola, Fla	165	234	378	36
Mobile, Ala	467	739	590	742
Gulfport, Miss	45	348	204	11
New Orleans, La	5,309	4,724	1,841	1,027
Baton Rouge, La	247	1,459	108	2,393
Galveston, Tex	356	1,939	981	1,470
Texas City, Tex	77	276	177	2,962
Houston, Tex	367	4,500	919	5,271
Freeport, Tex	-------	233	3	179
Sabine, Tex	-------	3	(1)	103
Port Arthur, Tex	7	996	292	6,678
Beaumont, Tex	189	999	91	8,362
Corpus Cristi, Tex	7	220	19	3,308
Pacific ports	**3,843**	**16,869**	**40,837**	**34,015**
San Diego, Calif	28	6	736	23
Los Angeles, Calif	664	6,532	4,917	13,594
San Luis Obispo, Calif	-------	439	38	853
San Francisco Bay, Calif	1,296	4,016	15,636	7,314
Monterey, Calif	-------	-------	132	53
Humboldt, Calif	-------	75	180	324
Long Beach, Calif	90	534	331	1,007
Coos Bay, Oreg	-------	170	34	362
Portland, Oreg	141	1,399	2,452	1,031
Other ports on Columbia and Willamette Rivers	2	467	100	494
Long View, Wash	1	140	107	248
Grays Harbor, Wash	2	804	172	1,390
Port Gamble, Wash	-------	33	213	126
Olympia, Wash	1	217	512	229
Tacoma, Wash	362	730	3,449	968
Seattle, Wash	471	721	6,125	1,590
Everett, Wash	130	204	1,600	687
Anacortes, Wash	243	56	504	121
Bellingham, Wash	35	162	1,227	905
Port Angeles, Wash	167	22	192	201
Port Ludlow, Wash	-------	38	242	132
Honolulu, Hawaii	140	18	1,121	822
Kahului, Hawaii	6	-------	153	211
Hilo, Hawaii	25	-------	150	265

[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. 470.—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			
	1925	1926	1927	1928	1925	1926	1927	1928
Total	**119,814**	**122,188**	**120,557**	**128,325**	**119,827**	**127,384**	**127,862**	**134,204**
Agate Bay, Minn	190	250	191	174	6,753	7,027	6,413	6,432
Alpena, Mich	227	229	249	247	1,168	1,372	1,313	1,578
Ashland, Wis	749	760	833	734	7,466	7,998	7,089	7,259
Ashtabula, Ohio	8,792	10,376	7,954	7,100	1,868	2,068	3,049	4,213
Buffalo, N. Y.:								
By lake	14,985	13,313	14,793	16,213	2,970	3,693	3,069	3,335
By canal	503	393	384	-------	1,036	998	926	1,959

No. 470.—Great Lakes, Commerce of the Principal Ports—Continued

Port	Receipts				Shipments			
	1925	1926	1927	1928	1925	1926	1927	1928
Calcite, Mich	93	67	112	138	8,413	9,041	10,345	11,137
Charlotte, N. Y. (Rochester)	176	105	154	174	555	973	862	1,319
Chicago, Ill.[1]	12,924	10,906	11,551	14,542	1,502	1,892	1,875	1,398
Cleveland, Ohio	11,426	11,993	10,730	11,905	666	761	1,204	1,363
Conneaut, Ohio	9,777	10,656	8,944	9,283	1,612	2,144	772	1,845
Detroit, Mich	4,019	4,042	2,424	3,310	197	279	422	676
Duluth-Superior	10,935	11,780	13,816	11,733	40,130	41,915	38,896	41,471
Erie, Pa	951	1,685	1,791	1,310	575	1,198	921	874
Escanaba, Mich	327	578	201	196	6,474	7,093	6,584	6,111
Fairport, Ohio	3,327	3,495	3,276	3,524	1,001	697	1,567	2,132
Frankfort, Mich	933	898	897	874	716	732	670	777
Gary, Ind	6,760	5,967	5,393	7,216			4	16
Grand Haven, Mich	408	417	518	627	546	516	720	742
Green Bay, Wis	1,166	1,271	1,417	1,348	257	266	286	278
Huron, Ohio	1,165	1,358	1,324	1,140	747	612	247	754
Indiana Harbor, Ind	3,956	4,646	4,596	5,649	1,332	798	929	1,091
Kewaunee, Wis	192	175	124	227	207	212	209	254
Keweenaw Waterway, Mich	614	809	957	703	48	68	65	70
Lorain, Ohio	5,259	4,731	4,511	4,421	1,581	2,104	2,756	2,163
Ludington, Mich	1,012	985	965	1,075	1,522	1,449	1,447	1,507
Manistique, Mich	96	83	85	81	212	183	184	168
Manitowoc, Wis	1,440	1,422	1,422	1,490	765	734	846	830
Marquette Harbor, Mich	290	241	207	207	1,402	1,018	926	852
Marquette Bay, Mich					2,517	2,820	2,720	2,979
Menominee, Mich. and Wis	457	527	514	534	291	285	240	247
Milwaukee, Wis	5,611	6,111	6,512	6,197	1,297	1,426	1,721	1,787
Muskegon, Mich	356	310	402	486	33	30	30	153
Ogdensburg, N. Y	592	643	1,492	563	68	733	45	895
Rockport, Mich	13	26	15	16	1,415	1,847	1,760	1,986
Rouge River, Mich	2,946	3,163	3,069	4,478	64	36	72	117
Sandusky, Ohio	243	158	124	105	6,120	6,934	7,985	7,145
Sault Ste. Marie, Mich.[2]	761	764	808	834				4
Sheboygan, Wis	384	458	464	438	12	11	12	10
Sturgeon Bay, Wis	20	19	25	23	330	381	370	473
Toledo, Ohio	1,871	2,278	1,767	2,745	14,049	14,202	16,799	15,795
Tonawanda, N. Y.[3]	484	453	486	317	21		16	2
Wyandotte, Mich	1,029	1,159	874	1,477				11
All other	2,356	2,485	4,187	4,471	1,888	1,164	1,496	

[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. 471.—COMMERCE ON THE PRINCIPAL RIVERS, CANALS, AND CONNECTING CHANNELS OF THE UNITED STATES, 1928

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	617		Rappahannock River, Va	250	
Kennebec River, Me	191		Mattaponi River, Va	143	
Herring River, Mass	623		Pamunkey River, Va	237	
Pawtucket River, R. I	387		York River, Va	291	
Thames River, Conn	331		James River, Va	1,125	
Connecticut River (below Hartford)	531		Nansemond River, Va	254	
Housatonic River, Conn	201		Roanoke River, N. C	170	93
Hudson River, N. Y:			Pamlico and Tar Rivers, N. C	221	77
Middle section	[2] 6,741		Neuse River, N. C	233	34
Upper section	[2] 1,472		Cape Fear River, N. C. (above Wilmington)	133	42
Cooper River, N. J	248		Waccamaw River, N. C. and S. C	169	38
Maurice River, N. J	192		Wando River, S. C	190	183
Delaware River, Philadelphia, Pa., to Trenton	[2] 5,064		Altamaha River, Ga	103	18
Potomac River (below Washington, D. C.)	2,078		St. Johns River, Fla.:		
			Jacksonville to Palatka	154	21
			Palatka to Lake Harney	141	43

[1] Included in the total.

[2] Excludes car ferry, general ferry, and cargoes in transit.

No. 471.—Commerce on the Principal Rivers, Canals, and Connecting Channels of the United States, 1928—Continued

River, canal, or channel	Total	Rafted and floated timber[1]
GULF COAST		
Appalachicola River, cut-off, Lee Slough, and Lower Chipola River, Fla	164	15
Alabama River, Ala	346	47
Black Warrior, Warrior, and Tombigbee Rivers, Ala	1,758	195
Pascagoula River, Miss	129	--------
Mobile River, Ala., tributaries	642	171
Atchafalaya River, Morgan City to Gulf of Mexico	916	215
Lake Ponchartrain, La	858	--------
Calcasieu River and Pass, La	686	(3)
MISSISSIPPI RIVER AND TRIBUTARIES		
Ouachita and Black Rivers, Ark. and La	401	5
Arkansas River, Ark. and Okla	428	43
White River, Ark	154	60
St. Francis and L'Angeille Rivers and Blackfish Bayou, Ark	134	132
Mississippi River:		
Between Wisconsin River and Illinois River	[2] 1,035	--------
Between Ohio and Illinois Rivers	1,430	1
Between Cairo and Memphis	2,531	36
Between Memphis and Vicksburg	4,804	105
Between Vicksburg and New Orleans	8,655	141
Missouri River:		
Kansas City to mouth	813	--------
Kansas City to Sioux City	169	(3)
Cumberland River, Tenn., and Ky. (below Nashville)	246	22
Cumberland River, Tenn. and Ky. (above Nashville)	475	26
Tennessee River	2,269	53
Monongahela River, Pa. and W. Va	[2] 27,412	--------
Allegheny River, Pa	3,693	--------
Youghiogheny River, Pa	251	--------
Little Kanawha River, W. Va	133	--------
Kanawha River, W. Va	1,596	--------
Ohio River, Ohio	20,938	--------
Muskingum River, Ohio	528	--------
Kentucky River, Ky	145	44
Green and Barren Rivers, Ky	590	16
INTERIOR RIVERS AND OTHER WATERWAYS		
Fox River, Wis	311	--------
Grand River, Mich	324	--------
Niagara River, N. Y	164	--------
San Joaquin River, Calif	984	--------
Sacramento River, Calif	992	--------
Umpqua River, Oreg	319	204
Coquille River, Oreg	449	388
Yaquina River, Oreg	218	136
Colombia River from Vancouver to The Dalles	803	313
Clatskamie River, Oreg	277	272
Willamette River (above Portland and Yamhill River, Oreg.)	2,064	--------
Cowlitz River, Oreg	833	791
INTERIOR RIVERS AND OTHER WATERWAYS—continued		
Colombia and Willamette Rivers, Wash. and Oreg.[4]	7,752	5,738
Hoquiam River, Wash	1,529	1,160
Stilaguamish River, Wash	200	107
Snohomish River, Wash	2,243	1,711
Skagit River, Wash	431	356
Chehalis River, Wash	621	621
Wishkah River, Wash	757	636
Pend d'Oreille River, Wash. and Idaho	490	490
Priest River, Idaho	190	190
Coeur d'Alene Lake and St. Joe River, Idaho	483	479
FEDERAL CANALS AND CONNECTING CHANNELS		
Cape Cod Canal, Mass	1,406	--------
Coney Island Channel, N. Y	1,023	--------
Inland waterway from Delaware River to Chesapeake Bay, Del. and Md	700	--------
Waterway from Norfolk, Va., to the sounds of North Carolina	182	69
Inland waterway from Norfolk, Va., to Beaufort Inlet, N. C	710	36
Waterway between Beaufort, S. C., and St. Johns River, Fla	400	20
Intracoastal waterway, Jacksonville to Miami, Fla	[2] 146	121
Channel between Mobile Bay and Mississippi Sound, Ala	430	--------
Intracoastal waterway, Calcasieu River to Sabine River, La. and Tex	967	--------
Harvey Canal, La	139	(3)
Intracoastal waterway, Mississippi River to Bayou Teche, La (Black Bayou)	157	(3)
Sabine-Neches Canal, Tex.:		
Local traffic	22	--------
Traffic in transit	10,310	--------
Keweenaw Waterway, Mich	1,278	--------
Sturgeon Bay and Lake Michigan Ship Canal, Wis. (through traffic only)	497	--------
St. Marys Falls Canal, Mich	86,993	--------
Detroit River, Mich.[5]	13,227	--------
Lake Washington Ship Canal, Wash	[2] 3,094	1,565
Canal and locks at Willamette Falls, Oreg	212	36
STATE AND PRIVATE CANALS		
New York State Barge Canal System	3,090	--------
Lehigh and Delaware Division Canals, Pa	330	--------
New Basin Canal, La	324	--------
Navigation Canal, Inner Harbor, La	741	--------
Miami Canal, Fla	132	--------
Chicago Sanitary Drainage Canal, Ill	214	--------

[1] Included in total.
[2] Excludes car ferry, general ferry, and cargoes in transit.
[3] Less than 500 tons.
[4] Internal traffic only; total traffic, including foreign and coastwise, was 14,718,000 tons.
[5] Excludes traffic through the St. Marys Falls Canal, which also passes through the Detroit River; the total traffic through the Detroit River was 100,220,000 tons.

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

No. 472.—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
1908	41,391	30,381	11,010	38,392	2,999	34,854	23,903	.69	470
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

	1900	1910	1915	1920	1925	1928	1929
Date of opening canal	Apr. 19	Apr. 12	Apr. 13	Apr. 19	Apr. 8	May 1	Apr. 13
Date of closing canal	Dec. 16	Dec. 15	Dec. 20	Dec. 26	Dec. 17	Dec. 16	Dec. 14
Number of vessels passing	19,452	20,899	21,233	18,847	20,650	19,286	19,794
Registered tonnage of vessels passing, 1,000 net tons	22,316	49,856	56,399	58,194	69,240	66,836	68,240
Eastbound, do	11,143	24,725	28,316	29,123	34,653	33,357	34,138
Westbound, do	11,173	25,132	28,083	29,071	34,587	33,479	34,102
Passengers carried, number	58,555	66,933	50,336	68,451	56,956	56,053	54,415
Freight, eastbound							
1,000 short tons	20,532	47,134	56,369	63,464	67,305	70,166	74,840
Flour, 1,000 bbls	6,755	7,576	8,437	7,478	9,289	9,283	9,164
Wheat, 1,000 bus	40,489	86,260	255,482	143,456	292,818	406,760	225,422
Other grain, do	16,064	39,243	64,755	51,630	149,927	131,039	68,127
Lumber, 1,000 ft. b. m	909,651	603,101	456,451	192,854	186,486	187,205	165,435
Iron ore, 1,000 short tons	16,444	41,600	45,212	56,643	53,821	53,225	64,827
Pig iron, do	20	49	18	1	28	118	151
Stone, do	49	10	----	67	24	67	71
Copper, do	131	148	156	52	63	86	64
General merchandise, do	86	173	332	56	107	136	187
Freight, westbound							
1,000 short tons	5,111	15,229	14,921	15,818	14,570	16,827	17,782
Coal, do	4,487	13,514	13,357	14,156	12,874	14,870	15,832
Salt, do	49	78	105	99	58	61	47
Oil, do	----	----	----	353	223	321	397
Stone, do	----	----	----	496	643	561	515
Iron ore, do	----	3	2	138	53	96	91
Manufactured iron and steel, 1,000 short tons	116	396	194	76	119	186	160
General merchandise, do	459	1,238	1,263	500	600	732	749

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

No. 473.—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	1906–1910	3,238,129	2,206,595			
1841–1845	1,613,317	884,522	1911–1915	2,448,837	1,626,451			
1846–1850	2,781,410	1,556,696	1916–1920	1,348,365	798,706			
1851–1855	3,976,501	2,141,476	1921–1925	1,905,291	1,548,408	630,453	333,250	191,406
1856–1860	3,911,407	1,889,759	1920	1,421,434	891,221	112,821	327,633	64,174
1861–1865	5,049,341	2,743,929	1921	1,270,407	993,639	356,985	247,653	103,400
1866–1870	5,987,724	3,018,359	1922	1,873,434	1,485,109	550,831	337,656	164,176
1871–1875	5,974,097	3,326,073	1923	2,006,284	1,626,062	629,763	375,964	190,101
1876–1880	5,219,888	3,542,020	1924	2,032,317	1,691,766	698,246	365,266	237,018
1881–1885	5,210,389	3,495,590	1925	2,344,013	1,945,466	916,441	339,713	262,331
1886–1890	5,281,441	3,589,631	1926	2,369,367	1,935,278	795,598	287,189	263,202
1891–1895	4,112,061	2,962,528	1927	2,581,892	2,047,774	791,037	325,076	327,616
1896–1900	3,544,951	2,446,065	1928	3,089,998	2,535,684	1,118,788	307,642	343,593
1901–1905	3,335,210	2,144,492	1929	2,876,160	2,422,204	810,385	229,047	398,831

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

No. 474.—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			1928			
	1926	1927	1928	Inbound	Outbound	Upbound	Downbound
Total	**19,754,978**	**20,128,518**	**20,938,267**	**8,058,677**	**3,632,837**	**2,541,599**	**6,705,154**
Animals and animal products	**15,098**	**32,746**	**14,015**	**5,915**	**436**	**7,146**	**518**
Livestock	6,407	24,722	7,675	4,176	290	3,141	68
Poultry and eggs	6,661	6,557	3,638	195		3,404	39
Hides and leather	168	149	175			57	118
Dairy products	786	727	483	293	146	7	37
Vegetable products	**57,479**	**40,520**	**39,670**	**1,408**	**11,906**	**17,816**	**8,540**
Groceries	13,313	7,421	10,312	485	4,310	4,118	1,399
Sugar and molasses	919	739	631	92	469		70
Grains	31,086	22,078	15,904	31	1,078	9,594	5,201
Flour	2,834	2,233	2,181	2	1,589	385	205
Hay, feed, straw	4,781	2,902	2,576	104	1,053	63	1,356
Vegetables	491	1,908	3,001		1,766	1,217	18
Textiles	**3,316**	**1,502**	**883**	**9**	**12**	**657**	**205**
Dry goods	2,905	1,485	871		12	654	205
Wood and paper	**397,634**	**474,045**	**396,169**	**334,485**	**2,357**	**27,582**	**31,745**
Furniture	2,805	2,284	1,873	15	285	1,402	171
Logs and lumber	142,048	77,171	107,168	54,613	1,277	21,772	29,506
Railroad ties of wood	252,731	394,590	287,041	279,857	795	4,321	2,068
Minerals, nonmetallic	**18,516,099**	**18,357,676**	**18,899,242**	**7,018,322**	**3,112,376**	**2,427,815**	**6,340,729**
Cement	29,980	48,540	85,025	15,030	3,647	49,358	16,990
Sand and gravel	8,997,515	9,187,007	8,521,531	66,565	2,529,701	1,676,945	4,248,320
Stone	436,073	386,862	425,555	51,420	54,750	290,003	23,382
Coal	8,355,478	8,141,217	8,511,185	5,873,832	435,320	234,452	1,967,581
Coke	358,229	376,497	649,581	642,702	6,879		
Fluorspar	2,360	6,643	30,744	3,468	1,842	25,334	100
Crude oil	236,522	104,262	213,664	50,590	105	148,173	14,796
Gasoline and kerosene	72,236	94,580	107,033	79,791	10,723	582	15,937
Other refined oils	9,197	6,755	1,903		1,637	39	227
Ores, metals, etc	**538,035**	**981,999**	**1,346,584**	**621,634**	**474,349**	**11,327**	**239,274**
Iron and steel, unmfd	210,960	462,070	650,287	182,640	385,332	806	81,509
Iron and steel, mfd	327,125	519,929	696,297	438,994	89,017	10,521	157,765
Machinery and vehicles	**44,953**	**62,052**	**66,631**	**4,422**	**15,484**	**3,606**	**43,119**
Machinery	6,996	3,380	12,711	3,596	2,007	1,742	4,366
Boats and barges	37,377	57,822	51,553	826	12,258	613	37,856
Automobiles and trucks	580	850	2,367		219	1,251	897
Chemicals	**23,826**	**33,178**	**39,390**	**34,099**	**547**	**2,048**	**2,696**
Acids, sulphuric	20,758	29,459	32,688	31,730		895	63
Fertilizers	3,068	2,744	3,191		547	1,153	1,491
Unclassified	**158,488**	**144,800**	**135,683**	**38,383**	**15,370**	**43,602**	**38,328**

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

No. 475.—OHIO RIVER TRAFFIC: TONNAGE, TON-MILEAGE, AND FREIGHT

NOTE.—Figures exclude ferry traffic. In 1928 the tons of freight carried on ferries were reported as 1,903,358 but the hauls, of course, are very short. The passenger traffic other than on ferries for 1928 was: Passengers, 1,990,143; passenger miles, 27,488,894. 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*
1916	6,045	598,383	38,774	1927—Total	20,129	1,214,491	168,423
1917	4,599	378,491	70,510	Up	1,854	----------	23,524
1918	6,171	315,504	77,685	Down	7,569	----------	49,446
1919	5,004	604,751	88,912	Inbound	7,439	----------	74,649
1920	9,382	1,183,915	223,443	Outbound	3,266	----------	20,804
1921	7,308	844,895	93,275				
1922	6,292	807,793	144,796	1928—Total	20,938	1,344,687	191,519
1923	8,281	----------	110,022	Up	2,542	----------	27,294
1924	10,867	----------	128,356	Down	6,705	----------	44,769
1925	15,737	825,497	151,622	Inbound	8,059	----------	82,618
1926	19,755	----------	150,086	Outbound	3,633	----------	36,839

No. 476.—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 1922 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
1922	202,446	345,668	369,194	554,192	801,841	639,207	2,177,686	3,366,820	1,442,595	2,405,092
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	1,680,541	6,974,085	379,942	4,601,718

	Between Ohio and Illinois Rivers		Cairo to Memphis		Memphis to Vicksburg		Vicksburg to New Orleans	
	1927	1928	1927	1928	1927	1928	1927	1928
Upbound	448,459	474,173	839,721	855,631	1,371,134	1,856,842	1,727,352	1,680,541
Coffee, cocoa, and spices	7,636	17,970	12,372	21,485	15,174	26,415	16,557	27,280
Sugar	116,761	67,612	282,513	193,227	367,115	273,085	381,443	285,693
Sisal and hemp	5,521	31,203	15,627	37,025	15,627	37,054	15,627	37,054
Burlap and bagging	1,711	8,801	----------	9,842	----------	13,734	----------	13,734
Logs, barged	30,895	41,278	150,230	91,822	109,511	224,721	72,173	32,967
Petroleum and products	185	9,859	8,069	5,442	203,906	221,918	753,496	649,463
Receipts at Baton Rouge	----------	----------	----------	----------	----------	----------	354,117	379,942
Shipments from Baton Rouge	----------	----------	----------	----------	----------	----------	186,313	202,816
Gravel and sand	27	----------	30,023	78,941	215,916	199,963	16,660	100
Cement	24	84	3	2	1,576	2,488	755	1,075
Bauxite ore	132,317	171,815	244,944	343,958	244,944	343,958	244,944	343,958
Sulphur	187	267	14,857	1,904	14,857	1,904	14,857	1,904
All other	153,195	125,284	81,083	71,983	182,508	511,602	210,820	287,313
Downbound	659,743	956,010	1,304,599	1,675,625	2,986,963	2,946,998	7,089,393	6,974,085
Wheat	154,719	99,441	158,555	100,102	158,587	100,134	158,555	100,102
Corn	7,870	39,535	8,093	72,497	8,183	72,484	8,263	72,499
Tobacco	243	----------	1,157	1,147	26,024	23,111	26,000	23,129
Cotton, raw	----------	----------	1,379	310	49,169	67,906	59,146	84,428
Logs, barged	6,623	27,855	196,502	197,929	143,475	240,866	128,724	128,618
Logs, rafted or floated			16,100	36,000	81,942	105,166	81,188	141,037
Coal and coke	6,358	23,826	144,811	148,451	81,492	106,071	5,728	115,532
Petroleum and products	4,065	11,437	240	194	1,803,310	998,231	6,244,073	5,774,326
Receipts at Baton Rouge	----------	----------	----------	----------	----------	----------	1,796,359	992,129
Shipments from Baton Rouge	----------	----------	----------	----------	----------	----------	4,447,025	4,601,718
Stone	204,603	341,364	48,294	111,141	26,567	155,590	600	1,200
Gravel and sand	3,027	19,617	233,745	405,591	204,108	313,237	1,235	83,250
Bauxite ore concentrates	11,510	5,940	17,582	12,958	17,582	12,958	17,582	12,958
Iron and steel manufactures	23,478	30,966	286,774	280,960	123,329	129,843	118,671	126,160
All other	237,247	356,029	191,367	308,345	263,195	621,401	239,628	310,846

Source of Tables 475 and 476: Annual Reports of the Chief of Engineers, United States Army.

No. 477.—UNITED STATES MERCHANT MARINE: DOCUMENTED TONNAGE

NOTE.—For definition of "gross ton" see general note, p. 431. 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
1917	26,397	16,242	10,155	8,871	6,433	2,438	2,441	6,393	6	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

Classes	Number					Thousands of gross tons				
	1900	1910	1920	1925	1929	1900	1910	1920	1925	1929
By utilization:										
Registered—										
Foreign trade	1,288	1,490	5,932	4,695	4,365	817	783	9,925	8,151	6,906
Whale fisheries	42	36	26	19	14	10	9	4	4	7
Enrolled—										
Coasting and internal trade	13,241	13,654	12,181	12,586	12,392	4,196	6,555	6,233	9,097	9,411
Cod and mackerel fisheries	545	395	196	185	233	44	39	32	29	32
Licensed—										
Coasting and internal trade	7,327	9,328	9,463	8,599	8,043	91	114	124	119	115
Cod and mackerel fisheries	890	837	385	283	279	8	8	6	6	6
By location:										
Atlantic and Gulf[5]	16,532	17,084	16,850	15,723	14,414	2,728	3,523	9,739	11,108	10,262
Pacific[6]	2,217	3,574	6,512	6,035	6,396	613	937	3,326	3,282	3,264
Northern lakes	3,167	3,273	3,091	2,677	2,513	1,566	2,895	3,139	2,853	2,771
Western rivers	1,417	1,809	1,730	1,932	2,003	258	154	120	162	179
By power:										
Sail	13,271	8,947	4,030	2,533	1,711	1,885	1,655	1,272	1,125	825
Steam[7]	7,053	12,452	8,103	7,454	6,400	2,658	4,900	13,466	14,495	13,301
Motor[7]	-------	-------	10,711	11,183	11,919	-------	-------	357	481	861
Canal boats	647	674	448	342	253	73	74	52	40	32
Barges	2,362	3,667	4,891	4,855	5,043	549	878	1,177	1,264	1,457
By material:										
Wood	22,108	23,527	23,781	21,384	20,255	3,572	3,391	3,876	2,907	2,567
Metal	1,225	2,213	4,402	4,983	5,071	1,593	4,117	12,448	14,499	13,910

[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 1910, 1920, 1925, and 1929, and also Virgin Islands in 1920, 1925, and 1929.

[6] Including Hawaii and Alaska. [7] Motor vessels included in steam in 1900 and 1910.

Source: Reports of the Commissioner of Navigation.

No. 478.—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. 431. The number and tonnage reached their maximum in 1921

	Number					Thousands of gross tons				
	1921	1924	1927	1928	1929	1921	1924	1927	1928	1929
Vessels of 500 gross tons or over, total	3,723	3,322	2,836	2,695	2,581	13,234	12,535	11,376	11,164	10,978
Private ownership	1,925	1,983	1,957	1,934	1,953	5,241	6,245	6,836	7,054	7,662
Shipping Board [1]	1,798	1,339	879	761	628	7,994	6,290	4,540	4,110	3,316
Steam and gas	2,888	2,574	2,218	2,139	2,082	12,216	11,575	10,572	10,532	10,316
Sailing and unrigged	835	748	618	556	499	1,019	960	804	632	662
Foreign trade	2,559	1,885	1,305	1,201	1,230	10,621	8,415	6,291	6,162	6,571
Coasting trade	1,164	1,437	1,531	1,494	1,351	2,614	4,120	5,085	5,002	4,407
Steel	2,549	2,469	2,195	2,122	2,061	11,441	11,387	10,597	10,461	10,334
Wood	1,174	853	641	573	520	1,793	1,148	779	703	644
Power vessels of 1,000 gross tons and over, total	2,752	2,461	2,116	2,037	1,985	12,116	11,490	10,496	10,358	10,243
Steel	2,387	2,310	2,055	1,982	1,931	11,210	11,147	10,389	10,259	10,146
Wood	365	151	61	55	54	906	344	107	99	98
Passenger	238	197	198	202	201	1,271	1,214	1,270	1,317	1,323
Freight	2,145	1,853	1,532	1,447	1,403	8,620	7,817	6,869	6,669	6,542
Tank	351	396	372	374	367	2,124	2,377	2,282	2,297	2,303
Refrigerator	18	15	14	14	14	101	83	75	75	75
Steam engine	2,697	2,395	2,042	1,951	1,883	11,984	11,315	10,234	10,024	9,807
Oil burning	1,595	1,692	1,632	1,613	1,575	8,240	8,889	8,650	8,647	8,531
Coal burning	1,102	703	410	338	308	3,744	2,426	1,584	1,377	1,276
Oil engine (internal-combustion)	55	[2] 66	[2] 74	[2] 86	[2] 102	132	175	262	334	436
Size—gross tons:										
1,000 to 1,999	151	165	125	116	113	234	265	185	174	170
2,000 to 2,999	879	630	425	357	330	2,209	1,588	1,102	949	889
3,000 to 3,999	362	306	230	227	211	1,232	1,053	762	751	693
4,000 to 4,999	199	230	215	213	210	922	1,074	1,005	996	983
5,000 to 5,999	558	503	505	508	502	3,110	2,824	2,806	2,823	2,788
6,000 to 6,999	337	350	345	341	336	2,149	2,220	2,207	2,177	2,146
7,000 to 7,999	158	153	145	145	144	1,164	1,133	1,066	1,067	1,059
8,000 to 8,999	54	58	57	59	48	451	485	477	494	707
9,000 to 9,999	10	23	27	26	25	96	220	259	249	239
10,000 and over	44	43	42	45	66	548	629	627	678	570

[1] One thousand gross tons or over; the Shipping Board fleet is almost wholly of such vessels.
[2] Includes 9 vessels of 25,819 gross tons propelled by electrically-driven screws.

No. 479.—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	1911	1,422	291,162
1801–1810		[1] 102,452	1912	1,505	232,669
1811–1820		89,797	1913	1,475	346,155
1821–1830	790	89,372	1914	1,151	316,250
1831–1840	924	118,960	1915	1,157	225,122
1841–1850	1,195	185,309	1916	937	325,413
1851–1860	1,466	366,603	1917	1,297	664,479
1861–1870	1,654	299,602	1918	1,528	1,300,868
1871–1880	1,455	253,800	1919	1,953	3,326,621
1881–1890	1,056	230,197	1920	2,067	3,880,639
1891–1900	1,055	235,699	1921	1,361	2,265,115
1901–1910	1,311	418,178	1922	845	661,232
1911–1920	1,449	1,090,938	1923	770	335,630
1921–1925	908	737,158	1924	1,049	223,968
1906	1,221	418,745	1925	967	199,846
1907	1,157	471,332	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

[1] Nine-year average, there being no record of the tonnage for 1802.
Source of Tables 478 and 479: Reports of the Commissioner of Navigation.

No. 480.—VESSELS BUILT IN UNITED STATES: BY CLASSES AND REGIONS

NOTE.—For definition of "gross ton" see general note p. 431. Data are for years ended June 30

Class and where built	1901–1910, average	1911–1915, average	1916–1920, average	1921–1925, average	1926	1927	1928	1929
BUILT AND DOCUMENTED IN THE UNITED STATES								
Total—number	1,311	1,342	1,556	998	924	917	969	808
Gross tons	418,178	282,272	1,899,604	737,190	224,673	245,144	257,180	128,976
Sailing—number	300	70	82	38	11	8	5	13
Gross tons	59,857	16,339	70,599	27,685	263	326	230	797
Steam and gas—number	631	911	1,111	697	645	661	675	570
Gross tons	287,593	200,069	1,734,296	639,341	140,586	181,504	172,901	75,725
Canal boats—number	46	36	19	9	7	10	1	5
Gross tons	5,022	4,099	2,613	1,043	1,508	2,147	140	967
Barges—number	284	325	344	254	261	238	288	220
Gross tons	65,705	61,164	92,096	69,121	82,316	61,167	83,909	51,487
Metal—gross tons	270,852	181,166	1,511,043	631,109	132,646	179,756	201,437	78,121
Wood—do	147,326	101,106	388,561	106,081	92,027	65,388	55,743	50,855
Gross tons built on:								
New England coast	59,491	21,474	112,835	45,913	4,995	6,574	11,434	12,766
Middle Atlantic and Gulf coasts	130,226	149,941	833,438	442,721	131,994	124,068	146,532	71,750
Pacific coast	34,482	34,439	687,076	174,926	22,669	45,565	23,715	20,253
Northern lakes	184,724	69,794	260,138	58,317	55,169	52,746	50,478	13,701
Western rivers	9,256	6,623	6,117	15,313	9,846	16,191	25,021	10,506

BUILT FOR FOREIGNERS[1]

	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1926	1927	1928	1929
Number	2	5	36	41	22	59	23	33	10	4	7	9	12	12
Gross tons	414	275	2,949	124,560	48,531	121,098	39,507	65,938	55,991	17,408	272	610	1,228	1,209

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

Source: Reports of the Commissioner of Navigation.

No. 481.—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. 431. Vessels under construction Dec. 31, 1929, numbered 798 of 3,110,880 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
1919 [2]	2,483	7,144,549	2,095	6,788,632	1,051	4,075,385
1920	1,759	5,861,666	1,563	5,742,984	509	2,476,253
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

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

[2] Figures for Germany are omitted because complete totals for that country are not available.

Source: Lloyd's Register of Shipping.

No. 482.—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. 431

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	1925	64,641	15,377
1900	28,957	2,750	1921	61,975	17,026	1926	64,784	14,879
1905	35,998	3,996	1922	64,371	17,062	1927	65,193	14,670
1910	41,913	5,059	1923	65,166	16,945	1928	66,955	14,633
1915	49,262	5,893	1924	64,024	15,957	1929	68,074	14,482

	Number					Thousands of tons (see headnote)					
	1900	1910	1920	1925	1929	1900	1910	1914	1920	1925	1929
World total	**28,422**	**30,058**	**31,595**	**32,916**	**32,482**	**29,044**	**41,915**	**49,090**	**57,314**	**64,641**	**68,074**
Steam and motor	15,898	22,008	26,513	29,205	29,612	22,369	37,291	45,404	53,905	62,380	66,407
Steel and iron	14,548	20,403	23,382	26,468	27,191	21,915	36,769	44,934	51,661	61,317	65,654
Wood and composite	1,350	1,605	3,131	2,737	2,421	454	521	470	2,244	1,063	754
Sailing	12,524	8,050	5,082	3,711	2,870	6,674	4,624	3,686	3,409	2,261	1,667
Steel and iron	2,468	2,115	1,314	919	759	2,992	2,508	2,095	1,524	954	678
Wood and composite	10,056	5,935	3,768	2,792	2,111	3,683	2,116	1,590	1,885	1,307	989
United States	**3,135**	**3,469**	**5,457**	**4,882**	**4,383**	**2,750**	**5,059**	**5,368**	**16,049**	**15,377**	**14,482**
Steam and motor	932	1,712	4,110	3,921	3,635	1,455	3,827	4,330	14,574	14,272	13,592
Steel and iron	638	1,270	3,242	3,349	3,105	1,267	3,602	4,120	13,341	13,882	13,291
Wood and composite	294	442	868	572	530	188	226	210	1,234	391	300
Sailing	2,203	1,757	1,347	961	748	1,295	1,232	1,038	1,475	1,105	890
Steel and iron	93	139	154	155	148	180	245	236	304	323	293
Wood and composite	2,110	1,618	1,193	806	600	1,116	987	803	1,171	782	597

No. 483.—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)
1914	$14,619	----------	$14,619	$166,031	[1] *$151,412*	$690,298	$695,721	[1] *$5,422*
1915	4,343,384	----------	4,343,384	4,123,128	220,256	2,135,075	2,191,476	[1] *56,401*
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 [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
Grand total	220,142,471	3,482,421	223,624,892	113,665,996	109,958,896	183,531,838	176,107,669	7,424,169

[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 482, Lloyd's Register; Table 483, Report of the Governor of the Panama Canal.

No. 484.—COMMERCIAL TRAFFIC THROUGH THE PANAMA CANAL: BY NATIONALITY OF VESSEL

NOTE.—See general note, p. 431. 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)
Total traffic:				
1915–1929, total	53, 246	233, 974	220, 435	245, 949
1915	1, 075	3, 793	4, 368	4, 888
1916	758	2, 396	2, 408	3, 094
1917	1, 803	5, 799	5, 627	7, 059
1918	2, 069	6, 574	6, 439	7, 532
1919	2, 024	6, 125	6, 173	6, 917
1920	2, 478	8, 546	8, 514	9, 374
1921	2, 892	11, 416	11, 277	11, 599
1922	2, 736	11, 417	11, 198	10, 885
1923	3, 967	18, 606	17, 508	19, 568
1924	5, 230	26, 149	24, 291	26, 995
1925	4, 673	22, 855	21, 401	23, 959
1926	5, 197	24, 775	22, 931	26, 037
1927	5, 475	26, 228	24, 229	27, 748
1928	6, 456	29, 459	26, 944	29, 631
1929	6, 413	29, 838	27, 127	30, 663
United States:				
1915–1929, total	23, 698	113, 024	105, 930	122, 098
1915	459	1, 700	2, 003	2, 188
1916	213	653	724	849
1917	404	1, 239	1, 238	1, 476
1918	567	1, 704	1, 714	2, 098
1919	784	2, 257	2, 327	2, 759
1920	1, 129	3, 791	3, 806	4, 547
1921	1, 210	4, 862	4, 785	5, 163
1922	1, 095	4, 972	4, 867	4, 951
1923	1, 994	10, 209	9, 474	11, 055
1924	2, 947	15, 807	14, 483	16, 654
1925	2, 326	12, 271	11, 302	13, 080
1926	2, 432	12, 565	11, 540	13, 711
1927	2, 685	13, 915	12, 720	15, 242
1928	2, 753	13, 753	12, 646	14, 249
1929	2, 700	13, 326	12, 300	14, 076
British:				
1915–1929, total	15, 512	69, 327	65, 965	68, 048
1928	1, 842	8, 977	8, 074	8, 075
1929	1, 783	8, 995	8, 025	8, 331
Norwegian:				
1915–1929, total	2, 713	9, 671	8, 827	11, 076
1928	313	1, 181	1, 052	1, 268
1929	340	1, 280	1, 123	1, 505
Japanese:				
1915–1929, total	1, 831	8, 523	8, 997	10, 599
1928	188	909	949	1, 041
1929	155	775	810	980
Chilean:				
1915–1929, total	805	2, 481	2, 199	1, 446
1928	32	125	119	82
1929	31	131	137	99
Danish:				
1915–1929, total	837	3, 089	2, 949	4, 119
1928	69	285	272	380
1929	101	417	379	518
Dutch:				
1915–1929, total	1, 105	5, 337	4, 879	5, 529
1928	137	644	561	637
1929	149	691	596	696
Peruvian:				
1915–1929, total	913	2, 326	1, 787	1, 467
1928	53	140	108	96
1929	48	109	77	70
French:				
1915–1929, total	1, 016	4, 118	4, 222	4, 080
1928	127	581	577	600
1929	115	535	533	531
Swedish:				
1915–1929, total	744	3, 033	2, 559	4, 340
1928	111	480	397	705
1929	144	619	520	846
Spanish:				
1917–1929, total	371	1, 216	1, 173	854
1928	46	157	151	105
1929	32	118	117	95
Italian:				
1915–1929, total	574	2, 627	2, 638	2, 015
1928	118	581	568	499
1929	83	492	447	334
German:				
1920–1929, total	1, 569	5, 870	5, 291	6, 679
1928	316	996	893	1, 185
1929	402	1, 405	1, 222	1, 482
Miscellaneous:				
1915–1929, total	1, 558	3, 333	3, 018	3, 599
1928	351	649	579	708
1929	330	947	842	1, 099

No. 485.—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. 431

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
1915	1, 075	5, 417	3, 793	4, 888	2, 071	2, 817
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, 959	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

[1] Panama Canal measurement.

Source of Tables 484 and 485: Report of the Governor of the Panama Canal.

No. 486.—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		
	1927	1928	1929		1927	1928	1929
Grand total	8,406	9,066	10,166	Grand total	20,697	20,336	21,284
To W. coast United States[1]	3,505	3,908	4,434	To E. coast United States	11,797	10,745	12,079
To W. coast other N. America	560	500	589	To E. coast other N. America	1,850	1,224	1,076
To W. coast S. America	1,165	1,234	1,578	To Europe	6,609	8,188	7,963
To Asia	1,742	2,061	2,098	To Africa and S. America	441	179	166
To Australasia	1,434	1,363	1,468	From W. coast United States, total[1]	12,434	10,118	11,009
From E. coast United States, total	5,629	6,009	6,609	To E. coast United States	8,187	6,873	7,545
To W. coast United States[1]	2,780	2,904	3,467	To E. coast other N. America	1,023	493	217
To W. coast other N. America	90	77	86	To Europe	2,969	2,701	3,193
To W. coast S. America	365	366	427	To Africa and S. America	255	47	55
To Asia	1,634	2,013	2,014	From W. coast other N. America, total	1,998	3,265	2,366
To Australasia	761	558	615	To E. coast N. America	715	602	586
From E. coast other N. America, total	585	619	772	To Europe	1,260	2,629	1,765
To W. coast N. America	231	294	328	To Africa and S. America	23	34	15
To W. coast S. America	91	97	179	From W. coast S. America, total	5,139	5,666	6,237
To Asia	87	41	54	To E. coast United States	2,534	2,859	3,260
To Australasia	176	186	210	To E. coast other N. America	562	451	524
From Europe, total	2,008	2,382	2,596	To Europe	1,880	2,258	2,358
To W. coast N. America	801	933	1,024	To Africa and S. America	164	98	95
To W. coast S. America	699	764	940	From Asia and Australasia, total	1,126	1,286	1,671
To Asia and Australasia	508	585	632	To E. coast N. America	626	685	1,024
From E. coast S. America and Africa, total	183	156	189	To Europe	500	601	646
				To E. coast S. America			2

[1] Including Hawaii.

No. 487.—LIVES LOST BY ACCIDENT ON VESSELS SUBJECT TO UNITED STATES STEAMBOAT INSPECTION SERVICE: YEARS ENDED JUNE 30

Cause	1923	1924	1925	1926	1927	1928	1929		
							Total	Passengers	Crew
Total	247	297	310	368	262	275	341	86	255
Fire	7	8	31	8	6	17	7	2	5
Collision	20	9	3	4	8	19	9		9
Grounding		4	1		1	2	1		1
Wreck		22		11	1		1		1
Explosion, escape of steam, etc	10	10	9	97	13	8	18		18
Foundered in storm	5	38	43	4	12	7	24		24
Sinking	14	19	8	52	22	28	5		5
Accidental drowning	94	107	100	89	104	100	111	19	92
Suicide	39	31	36	36	34	30	34	27	7
Miscellaneous	58	49	39	67	61	64	131	38	93

No. 488.—UNITED STATES COAST GUARD: YEARS ENDED JUNE 30

Item	1928	1929	Item	1928	1929
Lives saved or persons rescued from peril	3,983	4,375	Instances of miscellaneous assistance	3,584	4,867
Persons on board vessels assisted	17,383	18,725	Derelicts and other obstructions to navigation removed or destroyed	167	267
Persons in distress cared for	690	879	Value of vessels assisted (including cargoes)	$39,479,729	$49,126,375
Vessels boarded and papers examined	65,710	80,263	Total expended and obligated for the Coast Guard	$27,854,307	$28,047,253
Vessels seized or reported for violations of law	1,554	2,571	Persons examined for certificates as life-boat men	4,261	4,271
Fines and penalties incurred by vessels reported	$279,510	$424,725	Regattas and marine parades patrolled	84	104
Instances of lives saved and vessels assisted	3,262	4,419			

Sources: Table 486, Panama Canal Record; Table 487, Steamboat Inspection Service, Department of Commerce; Table 488, Annual Reports of the Secretary of the Treasury.

No. 489.—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 1929 are as follows: Vessels involved, 18; tonnage, 58,891; property loss, $314,500; persons on board, 476; 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
1923	273	707	117	1,941	17,203	3,711	14,144	21,198	116
1924	237	708	96	1,917	14,201	3,803	8,861	20,255	202
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	162
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	163	421	59	1,018	10,364	2,055	8,244	12,236	145
1927	175	510	63	1,303	10,240	1,627	5,629	13,602	125
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
Great Lakes:									
1921–1925	20	92	11	357	1,894	192	1,491	2,586	25
1926	18	73	4	216	1,366	120	1,513	1,792	17
1927	20	109	17	409	2,823	197	927	3,286	5
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
Rivers of the United States:									
1921–1925	45	86	7	160	1,815	127	820	1,881	12
1926	49	108	4	260	1,542	33	1,422	2,873	8
1927	68	136	7	314	1,994	158	1,152	3,217	24
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
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	24	126	27	521	2,325	2,116	1,152	5,069	66
1927	37	178	31	761	3,647	3,333	2,785	7,530	68
1928	31	121	32	523	3,751	2,102	3,421	6,420	51
1929	36	142	123	483	3,944	1,657	1,690	5,413	76

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

No. 490.—UNITED STATES SHIPPING BOARD AND UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: NET APPROPRIATIONS AND ALLOTMENTS FROM INCEPTION TO JULY 1, 1929

For fiscal years ended prior to July 1, 1928	**$3,578,741,281**
United States Shipping Board	4,735,275
United States Shipping Board Emergency Fleet Corporation	3,574,006,006
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, and Feb. 11, 1927, current maintenance and operations	134,900,000
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, 1929	**13,688,750**
United States Shipping Board	288,750
United States Shipping Board Emergency Fleet Corporation—for current maintenance and operations	13,400,000
For fiscal year ending June 30, 1930	**16,494,000**
United States Shipping Board	359,750
United States Shipping Board Emergency Fleet Corporation	16,134,250
Current maintenance and operations	11,134,250
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, 1930	**3,608,924,031**

Source: United States Shipping Board.

No. 491.—UNITED STATES SHIPPING BOARD AND UNITED STATES SHIPPING BOARD MERCHANT FLEET CORPORATION: STATEMENT OF PROFIT AND LOSS (EXCLUDING LIQUIDATION) FISCAL YEAR 1929

[All money figures in thousands of dollars]

	Grand total	Ocean operations					Tugs	Chartered vessels
		Total	United States lines	Other passenger lines	Freighters	Tankers		
Number of voyages terminated	1,115	1,109	58	57	979	15	----	6
Cargo carried—thousand tons	8,179	8,179	228	163	7,644	144	----	----
Passengers carried	74,083	74,083	65,723	8,960	----	----	----	----
Voyage revenue (estimated)	65,227	65,137	13,026	2,735	49,094	282	----	90
Operating costs, total (estimated)	77,615	77,563	14,244	2,720	60,371	228	----	52
Voyage expense	62,402	62,402	11,867	2,233	48,134	168	----	----
Adjustment	792	792	125	----	665	2	----	----
Insurance	3,534	3,509	371	83	3,028	27	----	25
Repairs—								
Maintenance	6,252	6,231	1,085	287	4,887	22	----	1
Betterments	386	386	88	----	298	----	----	----
Advertising	647	647	400	40	207	----	----	----
Administrative expense	3,572	3,546	308	77	3,152	9	----	26
Profit or *loss* on vessel operations	[1] *12,388*	[1] *12,426*	[1] *1,218*	15	[1] *11,277*	54	----	38
Expenses of inactive vessels	2,932	----	----	----	----	----	----	----
Miscellaneous income, net	885	----	----	----	----	----	----	----
Net *loss*	[1] *14,435*	----	----	----	----	----	----	----

[1] Loss.

No. 492.—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

Type	1925		1926		1927		1928		1929	
	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	147	768,142	278	1,415,536	49	304,921	82	692,876	186	1,245,544
Steel vessels	141	747,474	275	1,415,536	48	304,921	81	692,876	185	1,245,544
Cargo	107	545,198	258	1,250,156	37	215,175	76	649,602	168	1,075,426
Passenger	8	91,999	8	90,825	1	11,000	----	----	11	115,330
Tankers	9	84,627	6	53,500	9	71,668	4	34,574	6	54,788
All other	15	4,000	----	----	----	----	1	8,700	----	----
For conversion to Diesel—										
Cargo	1	11,679	----	----	----	----	----	----	----	----
Tankers	1	9,971	3	21,055	1	7,078	----	----	----	----
Concrete vessels	2	9,298	----	----	----	----	----	----	----	----
Composite vessels: Cargo	1	3,500	----	----	----	----	----	----	----	----
Wood vessels	3	7,870	3	----	1	----	1	----	1	----

[1] See general note, p. 431. No tonnage is shown on tugs; the number includes tugs.

Source: United States Shipping Board.

No. 493.—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. 431. The number of tugs is shown under "All other" except as noted; there is no tonnage for these

Origin and class	1923	1929	
	Dead-weight tons	Number	Dead-weight tons
Grand total	9,185,452	532	4,373,984
ORIGIN			
Requisitioned steel	1,461,634	99	867,622
Contract steel	7,280,775	406	3,358,035
Contract wood or concrete	63,153	[1] 7	7,500
Purchased	158,846	13	106,292
Seized enemy	215,144	4	34,535
All other	5,900	3	
CLASS			
Steel	9,119,899	525	4,366,484
Cargo (completed)	8,140,521	508	4,269,807
Cargo and passenger	431,768	2	17,000
Tankers	395,055		
Refrigerators	100,920	10	70,277
Transports	38,235		
All other	13,400	5	9,400
Wood, composite, and concrete	65,553	[1] 7	7,500

Class	1923	1929	
	Dead-weight tons	Number	Dead-weight tons
Active steel	3,362,576	2,361	2,078,111
Cargo	2,875,947	232	2,078,111
Cargo and passenger	278,734		
Tankers	194,158		
All other	13,737	4	
Temporarily inactive steel	206,847		
Inactive steel	5,550,476	289	2,288,373
Cargo	5,126,361	277	2,201,096
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] 7	7,500

[1] Includes 6 tugs.

No. 494.—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			Atlantic coast ports			Gulf coast ports		
	1926	1927	1928	1926	1927	1928	1926	1927	1928
Total commerce	[1] 127,196	[1] 113,734	[1] 120,069	74,696	58,152	59,193	22,435	21,314	22,581
Inbound	56,878	54,570	59,105	36,578	35,698	38,039	8,477	6,664	6,724
Outbound	80,367	69,536	70,326	38,118	22,454	21,154	13,958	14,650	15,857
With foreign countries	112,826	99,118	106,224	63,962	47,210	49,342	21,488	20,029	21,350
Imports	44,686	42,183	47,395	28,614	27,436	30,924	8,184	6,094	6,325
Exports	68,140	56,935	58,829	35,348	19,774	18,418	13,304	13,935	15,025
Intercoastal				9,490	9,720	8,614	559	652	748
Inbound	10,049	10,372	9,362	7,268	7,565	6,363	245	278	324
Outbound	10,049	10,372	9,362	2,222	2,155	2,251	314	374	424
With noncontiguous territories	4,321	4,244	4,483	1,244	1,222	1,237	388	633	483
Imports	2,143	2,015	2,348	696	697	752	48	292	75
Exports	2,178	2,229	2,135	548	525	485	340	341	408

	Pacific coast ports			Great Lakes ports			Ports in noncontiguous territories [2]		
Total commerce	26,900	28,912	28,592	13,214	15,728	19,065	7,562	7,566	9,692
Inbound	6,647	6,390	4,223	5,176	5,818	7,119	4,241	4,278	5,024
Outbound	20,253	22,522	21,369	8,038	9,910	11,946	3,321	3,288	4,668
With foreign countries	14,162	16,151	16,467	13,214	15,728	19,065	2,043	1,941	1,964
Imports	2,712	2,835	3,027	5,176	5,818	7,119	1,562	1,510	1,519
Exports	11,450	13,316	13,440	8,038	9,910	11,946	481	431	445
Intercoastal	10,049	10,372	9,362						
Inbound	2,536	2,529	2,675						
Outbound	7,513	7,843	6,687						
With noncontiguous territories	2,689	2,389	2,763				[3] 5,519	[3] 5,625	[3] 7,728
Imports	1,399	1,026	1,521				[3] 2,679	[3] 2,768	[3] 3,505
Exports	1,290	1,363	1,242				[3] 2,840	[3] 2,857	[3] 4,223

[1] Duplication in intercoastal trade is eliminated.
[2] Including Philippine Islands.
[3] With continental United States.

Sources of Tables 493 and 494: United States Shipping Board.

No. 495.—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	(1)	9,587	48,431	7,254	11,150	(1)	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
Per cent distribution:										
1921	100.0	15	56	(1)	29	100.0	15	23	(1)	62
1926	100.0	6	41	24	29	100.0	8	17	42	33
1927	100.0	5	46	22	27	100.0	11	22	36	31
1928	100.0	4	47	22	27	100.0	9	24	36	31
Dry cargoes:										
1921	15,695	2,173	6,192	(1)	7,330	42,451	6,529	9,483	(1)	26,439
1922	25,526	3,162	8,106	7,259	6,999	36,062	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	39,241	5,467	6,574	14,348	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
Per cent distribution:										
1921	100.0	14	39	-------	47	100.0	15	22	-------	63
1927	100.0	7	34	26	33	100.0	14	20	35	31
1928	100.0	6	34	27	33	100.0	11	23	36	30
Tanker cargoes:										
1921	17,362	2,662	12,443	(1)	2,257	5,980	725	1,667	(1)	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	9,239	1,521	1,815	10,425	157	3,518	4,038	2,712
1926	12,601	565	9,035	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
Per cent distribution:										
1921	100.0	15	72	-------	13	100.0	12	28	-------	60
1927	100.0	1	78	10	11	100.0	1	30	39	30
1928	100.0	-------	75	12	13	100.0	-------	29	35	36
North Atlantic ports:										
1924	22,351	1,682	7,885	5,596	7,188	20,696	2,873	2,516	7,855	7,452
1925	24,069	1,501	7,756	6,224	8,588	20,817	2,504	2,595	7,891	7,827
1926	26,449	1,895	8,781	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	39,309	1,197	12,315	7,035	8,762	17,710	2,070	3,295	6,082	6,263
South Atlantic ports:										
1924	1,726	97	571	535	523	822	202	152	162	306
1925	2,082	96	821	339	826	1,081	94	314	293	380
1926	2,165	121	1,003	349	692	1,354	220	69	486	579
1927	1,576	138	655	284	499	1,126	231	48	286	561
1928	1,615	202	438	318	657	707	156	78	191	282
Gulf ports:										
1924	9,889	400	6,987	812	1,690	12,805	2,607	2,321	3,823	4,054
1925	8,539	312	5,051	1,071	2,105	12,420	2,093	2,264	3,334	4,729
1926	8,184	552	4,304	1,062	2,266	13,304	2,445	2,043	3,650	5,166
1927	6,094	412	2,918	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
Pacific ports:										
1924	2,585	484	551	765	785	9,360	981	2,233	2,898	3,248
1925	2,602	376	558	889	779	8,356	933	2,144	2,744	2,535
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
Great Lakes ports:										
1924	4,348	-------	3,636	698	14	8,578	-------	4,431	4,129	18
1925	5,843	-------	4,744	1,063	36	6,992	-------	2,775	4,124	93
1926	5,176	-------	3,448	1,694	34	8,038	-------	3,155	4,782	101
1927	5,818	-------	4,379	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

[1] British not segregated in 1921; included in "Other."

Source: Bureau of Research United States Shipping Board.

No. 496.—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	1925	1926	1927	1928—In vessels of—				
				Total	U. S. Shipping Board	Independent Amer.	British	Others
Imports, total	**43,135**	**44,686**	**42,183**	**47,395**	**2,063**	**22,124**	**10,591**	**12,617**
United Kingdom	1,924	1,946	1,385	1,662	146	99	1,209	208
North Atlantic and Baltic Europe	1,108	1,014	1,231	1,028	3	146	15	864
Havre-Hamburg range	3,366	4,498	3,481	3,985	866	110	501	2,508
South Atlantic Europe	487	564	399	565	32	14	285	234
West Mediterranean	1,143	1,192	1,174	1,172	20	152	305	695
East Mediterranean and Black Sea	412	420	429	299	-------	60	109	130
West Indies	6,702	8,042	7,763	9,841	-------	5,561	1,470	2,810
Mexico	10,510	8,375	5,476	3,749	-------	2,921	175	653
Central America	1,231	1,177	1,344	1,516	-------	504	183	829
North Coast South America	719	1,703	3,075	5,222	1	3,819	657	745
East Coast South America	1,287	1,682	1,720	1,521	288	357	419	457
West Coast South America	2,744	2,901	2,617	3,006	-------	1,532	519	955
West Africa	235	260	259	216	83	27	80	26
South and East Africa	195	243	247	231	-------	62	169	-------
Australasia	103	108	131	156	27	23	78	28
East Indies	511	550	547	704	14	137	399	154
East Asia	1,344	1,249	1,391	1,566	410	403	263	490
India, Persian Gulf, and Red Sea	822	784	730	868	173	117	560	18
Pacific Canada	1,296	1,350	1,321	1,295	-------	536	674	85
Atlantic Canada and Newfoundland	6,996	6,628	7,463	8,793	-------	5,544	2,521	728
Exports, total	**49,666**	**68,140**	**56,935**	**58,829**	**5,070**	**14,217**	**21,148**	**18,394**
United Kingdom	7,459	19,505	8,634	8,199	1,342	380	5,226	1,251
North Atlantic and Baltic Europe	1,872	1,703	2,007	1,897	43	193	150	1,511
Havre-Hamburg range	8,023	8,525	9,252	8,901	2,282	389	1,410	4,820
South Atlantic Europe	1,275	2,055	1,365	1,354	137	118	339	760
West Mediterranean	3,650	4,434	2,864	2,706	253	155	237	2,061
East Mediterranean and Black Sea	654	829	527	553	10	161	143	239
West Indies	3,383	3,142	3,245	3,247	1	1,430	769	1,047
Mexico	759	593	514	494	-------	253	4	237
Central America	1,453	1,755	2,084	1,917	19	1,552	134	212
North Coast South America	361	539	424	581	1	248	61	271
East Coast South America	2,939	4,945	3,777	3,151	361	647	1,341	802
West Coast South America	1,200	1,306	1,270	1,516	8	822	449	237
West Africa	280	474	200	281	58	81	113	29
South and East Africa	403	332	456	460	-------	119	324	17
Australasia	1,460	1,740	1,964	1,779	123	230	983	443
East Indies	289	406	403	410	6	89	154	161
East Asia	4,317	5,407	5,613	6,989	384	1,611	1,564	3,430
India, Persian Gulf, and Red Sea	406	461	465	303	42	80	178	3
Pacific Canada	719	854	910	1,068	-------	630	433	5
Atlantic Canada and Newfoundland	8,764	9,135	10,871	13,023	-------	5,029	7,136	858

Foreign trade region	Ocean-borne imports, 1928				Ocean-borne exports, 1928			
	North Atlantic	South Atlantic	Gulf	Pacific	North Atlantic	South Atlantic	Gulf	Pacific
Total	**29,309**	**1,615**	**6,325**	**3,027**	**17,711**	**707**	**15,025**	**13,440**
United Kingdom	1,373	40	144	88	3,219	191	2,960	1,824
North Atlantic and Baltic Europe	928	8	33	55	779	48	1,007	58
Havre-Hamburg range	2,493	488	531	465	3,840	186	4,137	738
South Atlantic Europe	533	17	13	2	473	6	809	66
West Mediterranean	996	9	142	25	1,084	20	1,428	174
East Mediterranean and Black Sea	297	1	1	-------	410	-------	133	10
West Indies	7,397	173	2,230	41	1,925	82	1,162	78
Mexico	1,992	290	1,331	136	146	-------	137	211
Central America	652	31	715	118	562	6	349	1,000
North Coast South America	4,684	124	403	11	430	11	128	12
East Coast South America	1,188	20	239	74	1,569	85	852	644
West Coast South America	2,211	394	255	146	316	2	56	1,142
West Africa	203	-------	13	-------	219	-------	62	-------
South and East Africa	229	2	-------	-------	279	-------	160	21
Australasia	101	-------	10	45	386	1	187	1,205
East Indies	622	-------	4	78	249	9	6	146
East Asia	680	-------	98	788	984	57	908	5,040
India, Persian Gulf, and Red Sea	727	10	108	23	207	-------	64	32
Pacific Canada	358	1	16	920	13	2	26	1,027
Atlantic Canada and Newfoundland	1,645	7	39	12	621	1	454	12

Source: Bureau of Research, United States Shipping Board.

No. 497.—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		
	1926	1927	1928	1926	1927	1928
Grand total	44,686,235	42,182,967	47,395,432	68,139,521	56,935,465	58,829,394
United Kingdom	1,946,356	1,384,559	1,662,074	19,505,183	8,634,499	8,199,134
England	1,325,181	1,177,876	1,214,635	15,584,452	7,521,564	7,077,398
Ireland	5,902	5,537	2,854	971,829	410,114	403,766
Scotland	167,628	87,225	190,547	1,862,245	583,439	604,512
Wales	447,645	113,921	254,038	1,086,657	119,382	113,458
North Atlantic and Baltic Europe	1,014,477	1,230,983	1,027,956	1,702,767	2,007,297	1,897,377
Greenland	7,380	6,111	6,360	52		10
U. S. S. R. (Russia)	3,861	14,202	47,710	72,318	123,680	123,849
Finland	103,718	104,218	129,808	162,642	92,173	102,737
Norway	258,296	351,049	197,345	374,051	337,766	260,892
Sweden	520,994	688,918	592,384	338,804	424,731	500,722
Denmark	72,438	35,086	38,559	702,677	884,678	736,942
Danzig	20,547	27,760	11,870	22,528	95,022	126,303
Germany	26,748	885	626	18,475	30,457	17,293
Estonia	494		730	461	2,427	3,543
Latvia	1			10,756	15,763	19,949
Lithuania		2,754	1,071	2	600	5,137
Havre-Hamburg range	4,497,667	3,481,007	3,985,297	8,525,201	9,251,960	8,901,028
Germany	1,305,395	1,021,047	1,246,234	3,169,952	3,913,272	3,711,828
Netherlands	1,168,762	703,482	876,062	2,405,410	2,721,748	2,599,931
Belgium	1,688,457	1,373,980	1,482,293	1,506,722	1,634,446	1,483,425
France	335,053	382,498	380,708	1,443,117	982,494	1,105,844
South Atlantic Europe	564,297	399,159	565,383	2,054,653	1,365,149	1,353,747
France	52,398	47,433	40,129	1,200,623	937,141	915,896
Portugal	71,079	33,740	55,711	327,766	175,041	121,070
Spain	440,350	317,316	468,955	216,594	202,615	237,959
Azores Islands	370	227	463	20,658	4,938	12,805
Canary Islands	98	439	110	274,916	38,639	59,299
Madeira	2	4	15	14,096	6,775	6,718
West Mediterranean	1,192,536	1,173,881	1,172,442	4,434,093	2,863,723	2,705,672
Spain	230,049	161,241	172,781	439,798	301,506	382,431
France	84,438	80,602	85,838	651,633	625,735	532,791
Italy	495,863	427,496	427,833	2,957,433	1,761,379	1,613,945
Yugoslavia	56,119	32,893	19,462	5,864	340	12,822
Malta	31	269	56	53,824	11,703	10,088
Tunis	35,883	109,954	97,327	35,018	23,208	30,587
Algeria	278,254	361,335	369,145	266,567	110,645	106,866
Morocco	11,899	91		23,948	29,207	16,142
East Mediterranean and Black Sea	419,551	429,331	299,461	828,782	526,412	552,574
Rumania	20,940	4,271	2,547	13,488	13,313	23,182
U. S. S. R. (Russia)	242,641	261,058	151,283	31,183	45,060	40,803
Turkey	34,414	40,112	40,687	47,954	16,907	32,084
Cyprus	4,074	3,639	3,116	328		126
Greece	45,669	36,537	38,727	286,284	289,220	253,158
Egypt	68,269	79,316	57,858	410,202	137,774	164,709
Palestine	177	179	134	20,188	6,120	9,786
Syria	2,268	3,728	5,063	16,927	18,018	28,439
West Indies	8,041,752	7,762,132	9,840,772	3,141,632	3,245,247	3,247,062
Cuba	5,948,097	4,924,189	4,627,572	2,142,739	2,306,626	2,049,079
Jamaica	300,133	372,055	271,122	193,204	135,419	153,068
Bahama Islands	29,114	14,612	24,865	40,722	37,764	39,330
Haiti	25,243	30,984	28,690	102,933	96,467	109,215
Dominican Republic	125,859	115,488	160,087	131,902	151,674	129,831
Lesser Antilles	1,607,020	2,301,834	4,718,414	491,257	468,227	725,741
Bermudas	6,286	2,970	10,022	38,875	49,070	40,798
Mexico	8,375,489	5,475,758	3,748,757	592,733	514,332	493,800
Central America	1,176,976	1,342,613	1,515,912	1,755,257	2,084,366	1,917,132
British Honduras	89,697	104,089	60,450	14,357	15,472	12
Guatemala	179,030	201,893	200,212	81,081	78,503	172,094
Honduras	375,347	515,884	725,579	87,515	139,502	144,442
Nicaragua	147,794	145,427	138,432	59,112	55,690	63,050
Costa Rica	157,427	156,374	157,659	41,949	45,438	62,990
Panama	45,174	43,289	40,456	4,369	8,100	21,539
Canal Zone	156,019	169,974	181,141	1,401,632	1,687,999	1,381,375
Salvador	26,488	5,683	11,983	65,242	53,662	58,740

No. 497.—Cargo Tonnage of Water-Borne Imports and Exports: By Trade Regions and Individual Countries—Continued

Foreign origin or destination	Imports			Exports		
	1926	1927	1928	1926	1927	1928
North Coast South America	1,703,129	3,074,799	5,221,744	538,725	424,312	581,158
Venezuela	857,091	1,542,094	3,178,714	293,456	214,633	287,851
British Guiana	180,898	162,433	178,078	34,147	26,877	26,279
Netherlands Guiana	48,145	162,370	182,212	22,901	21,477	19,636
French Guiana	13		9	2,089	2,502	2,352
Colombia	616,982	1,207,902	1,682,731	186,132	158,823	245,040
East Coast South America	1,681,748	1,719,786	1,521,146	4,945,361	3,776,428	3,151,058
Brazil	821,698	736,642	728,863	2,107,281	1,152,179	1,019,406
Uruguay	56,716	44,890	44,591	473,335	504,870	354,830
Argentina	789,041	925,416	732,314	2,354,133	2,110,337	1,762,086
South Atlantic Islands	14,293	12,838	15,378	10,592	9,042	14,736
West Coast South America	2,900,993	2,617,078	3,005,622	1,305,938	1,269,770	1,516,343
Colombia	31,732	12,911	20,180	56,439	53,629	71,637
Chile	2,366,623	2,274,196	2,635,673	925,122	861,229	1,158,371
Peru	489,269	310,557	229,631	298,471	314,557	258,561
Ecuador	13,369	19,414	120,138	25,906	40,355	27,774
West Africa	259,795	259,069	215,842	473,916	289,563	281,323
Morocco	3,866	18,067	33,866	37,427	34,388	34,613
Cape Verde Islands	1	212	112	120,309	28,852	9,305
Senegal	3,734	3,233	2,040	154,936	31,466	34,483
Gambia				1,045	1,981	2,561
Sierra Leone	971	1,169	469	8,153	9,726	9,669
Liberia	178	384	1,009	1,869	4,583	4,081
Ivory Coast	34,824	35,970	19,597	5,750	6,849	8,174
Gold Coast	168,521	136,537	91,648	46,585	55,809	63,468
Togo	1,261	211		3,522	4,122	4,640
Dahomey	900	2,327	1,928	6,595	6,483	5,997
Nigeria	30,779	45,912	42,021	41,795	67,876	60,169
Cameroon	723	715	1,996	4,858	5,813	6,992
Gabon	1,283	60		989	1,963	3,474
Belgian Congo	12,660	13,411	21,096	25,756	12,924	13,361
Southwest Africa		690		4,102	5,977	7,635
Angola	18	14	22	6,216	6,382	8,036
South and East Africa	242,892	247,506	231,379	331,192	455,797	460,386
Union of South Africa	77,373	46,983	31,971	234,679	304,477	321,047
Mozambique	158,836	192,632	181,974	63,851	107,308	93,681
British East Africa	[1] 2,490	[1] 6,876	[1] 15,477	[1] 14,765	[1] 24,838	[1] 28,744
Madagascar	4,140	1,014	1,462	3,442	5,685	7,401
Mauritius Island		1	206	5,705	10,576	7,610
Australasia	108,139	131,428	156,449	1,740,354	1,964,047	1,779,095
New Zealand	32,714	50,854	59,746	437,031	443,711	474,629
Australia	41,482	41,501	57,592	1,263,137	1,468,865	1,254,187
Fiji Islands	4,617	4,256	2,558	7,843	5,247	8,541
New Caledonia	8,872	11,907	7,868	5,058	4,680	5,654
Society Islands	12,111	12,470	9,880	9,830	10,132	8,696
Cook Islands	918	813	1,717	610	450	355
Tasmania	628	528	203	13,002	13,184	17,028
New Guinea	5,698	2,266	7,785	2,827	6,847	3,604
East Indies	549,605	546,849	703,490	406,417	403,358	409,558
Straits Settlements	369,456	344,005	354,568	96,213	125,098	92,842
French Indo-China	179		131	45,279	32,533	34,598
Sumatra	53,717	58,326	88,520	42,653	43,026	50,344
Java	103,194	121,435	228,938	158,437	163,022	196,075
Borneo	3,373	5,103	5,211	43,219	28,570	17,576
Celebes	13,091	17,654	23,490	4,657	5,901	10,697
East Asia	1,249,425	1,390,691	1,566,382	5,407,362	5,612,671	6,989,147
China	289,415	259,448	279,136	1,459,888	1,278,155	1,808,044
U. S. S. R. (Russia)	2,075	525	250	1,018	925	4,467
Japan	261,104	288,252	318,662	3,445,576	3,794,396	4,584,274
Philippine Islands	696,831	842,466	968,334	500,880	539,195	592,362
India, Persian Gulf, and Red Sea	783,625	730,289	867,833	464,945	464,945	302,829
Egypt	6,712	7,449	7,102	1,062	1,895	2,022
Iraq	26,792	20,118	35,052	22		63
Aden		4,520	5,430		7,292	3,890
Arabia	4,557	612	200	5,251	1,811	2,231
Anglo Egyptian Sudan	6,969	6,004	9,021	8,327	415	1,386
India	666,210	617,420	734,836	416,256	417,425	244,629
Ceylon	72,385	74,166	76,192	30,395	36,107	48,608
Canada	7,977,783	8,786,049	10,087,491	9,988,642	11,781,589	14,090,971
Pacific	1,349,540	1,321,352	1,294,979	853,558	909,988	1,067,774
Atlantic and Newfoundland	1,452,699	1,647,005	1,673,224	1,099,809	961,812	1,077,189
Great Lakes	5,175,544	5,817,692	7,119,288	8,035,275	9,909,789	11,946,008

[1] Kenya and Tanganyika Territory only.

Source: Bureau of Research, United States Shipping Board.

No. 498.—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		
	1926	1927	1928	1926	1927	1928
North Atlantic District	25,817,639	25,779,559	28,444,626	33,525,541	18,627,139	17,027,030
Maine, total	688,785	694,023	568,526	243,937	154,599	114,141
Portland	644,707	648,195	521,214	243,882	154,599	111,841
New Hampshire: Portsmouth	22,044	39,230	14,545		13	143
Massachusetts, total	2,684,349	3,072,665	3,298,218	326,837	263,339	367,094
Boston	2,514,897	2,214,400	2,149,131	298,105	258,160	342,019
Everett		85,790	326,097			9,878
Fall River	105,172	719,877	596,570	21,850	14	8,020
Rhode Island, total	459,447	316,817	270,421	512	234	292
Providence	458,947	316,817	270,421	512	234	292
Connecticut	79,881	49,098	41,089	3	2	
New York, total[1]	13,405,471	13,441,749	15,284,747	10,951,295	11,434,523	10,866,540
New York[1]	13,392,216	13,404,699	15,252,217	10,949,743	11,434,523	10,857,949
New Jersey: Paulsboro				2,836	27,464	15,199
Delaware, total	215,678	342,996	553,224	569	11,565	769
Claymont	157,038	147,758	124,402			
Wilmington	58,640	195,238	428,822	569	11,565	769
Pennsylvania, total	3,170,594	2,764,509	3,561,880	3,439,076	2,052,581	1,748,821
Chester	219,309	223,410	228,441	8,004	55,745	27,033
Marcus Hook			128,066	95,258	75,501	116,400
Philadelphia[1]	2,951,285	2,541,099	3,205,373	3,335,814	1,921,335	1,605,388
Maryland: Baltimore	4,472,784	4,452,413	4,324,637	7,089,674	1,922,194	1,562,387
District of Columbia	900					
Virginia, total	617,706	606,059	527,339	11,470,802	2,760,125	2,351,634
Newport News	123,383	161,357	68,752	4,426,546	850,664	679,113
Norfolk	494,323	444,702	458,587	7,043,516	1,909,461	1,672,521
South Atlantic District	2,126,059	1,569,290	1,595,488	1,350,015	1,121,175	692,542
North Carolina: Wilmington	196,285	151,662	254,799	22,699	32,954	23,749
South Carolina, total	742,773	653,795	597,418	681,851	357,821	157,082
Charleston	742,773	653,795	597,418	681,851	357,821	157,070
Georgia, total	562,963	376,784	388,667	438,214	470,017	277,077
Brunswick	51,619	56,298	49,610	51,207	50,877	41,666
Savannah	511,344	320,486	339,057	387,007	419,140	235,411
Florida, east coast, total	624,038	387,049	354,604	207,251	260,383	234,634
Fernandina		136		110,326	123,180	68,106
Jacksonville	509,175	326,533	247,455	86,334	120,716	139,796
Miami	114,863	60,380	106,939	954	15,699	26,317
Gulf District	8,167,152	6,072,998	6,298,657	13,450,118	13,909,796	14,902,417
Florida, west coast, total	959,912	401,216	415,979	1,115,702	1,358,782	1,299,966
Boca Grande	1,808	1	3,288	102,014	84,106	78,862
Key West	445,256	147,867	135,226	252,048	269,760	215,008
Pensacola	95,440	77,339	136,969	229,377	248,238	220,173
Tampa	415,608	176,009	140,496	492,492	725,673	760,900
Alabama: Mobile	433,704	346,188	475,123	572,450	647,047	649,228
Mississippi, total	48,522	27,443	40,889	285,044	356,800	308,608
Gulfport	48,522	27,443	40,889	272,023	348,940	303,058
Louisiana, total	5,064,140	4,462,455	4,482,970	4,859,341	4,671,318	5,001,386
Baton Rouge	168,465	243,249	220,123	963,337	1,069,984	1,006,297
Lake Charles		98	4,378	1,510	1,491	39,903
New Orleans	4,889,100	4,195,596	4,255,746	3,803,433	3,539,340	3,920,662
Texas, total	1,660,874	835,696	883,696	6,617,581	6,875,849	7,643,229
Beaumont	2,084	6,929	5,597	945,992	703,545	692,386
Corpus Christi		5,346	7,539	3,831	77,142	209,835
Freeport	217,182	54,236		132,482	233,539	186,931
Galveston	723,398	393,766	317,484	1,936,277	1,843,288	1,633,691
Houston	364,534	192,311	306,256	2,183,698	2,606,647	3,530,377
Orange	4,718	8,801	10,562	59,437	88,398	85,761
Port Arthur	219,889	87,880	167,878	1,058,691	1,082,579	1,054,520
Sabine				91,092	6,000	2,850
Texas City	129,069	86,427	68,380	198,608	219,579	226,854

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

No. 498.—Cargo Tonnage of Water-Borne Imports and Exports: By States and Individual Ports—Continued

State and port	Imports			Exports		
	1926	1927	1928	1926	1927	1928
Pacific District	2,693,184	2,785,792	3,026,486	11,384,564	13,320,987	13,412,108
California, total	1,481,968	1,522,343	1,766,722	6,959,865	8,563,387	8,793,298
Eureka				52,056	93,845	58,219
Los Angeles	451,832	510,657	601,491	4,435,046	5,663,401	5,738,897
San Diego	13,877	30,658	24,079	6,530	5,381	3,862
San Francisco [2]	1,015,927	981,020	1,139,000	2,097,250	2,313,630	2,541,806
Port San Luis	332	8		358,029	465,874	438,508
Oregon, total	126,247	133,085	125,771	1,909,297	1,974,750	1,785,804
Astoria	8,693		1,192	120,814	82,413	151,192
Coos Bay [3]	2,169			98,349	93,527	150,379
Portland	112,585	125,729	121,957	1,527,470	1,644,285	1,303,612
Prescott				25,623	22,720	26,661
Saint Helens	2,800	7,356	2,622	23,142	22,597	20,801
Wauna				22,977	41,508	59,229
Westport				52,544	41,971	29,613
Washington, total	1,084,919	1,130,364	1,133,993	2,515,402	2,782,844	2,833,006
Anacortes	88,496	113,655	82,920	51,421	60,920	44,432
Bellingham	65,585	35,585	15,808	52,907	98,678	98,822
Everett	9,723	15,622	4,255	144,868	186,519	234,939
Grays Harbor [4]	2,586	575	1,828	689,072	652,300	601,555
Kalama				2,765	18,396	41,108
Longview	203		152	82,167	90,832	121,833
Olympia	80	1,882	701	64,301	127,709	195,143
Port Angeles	142,618	99,567	115,272	19,471	28,730	22,725
Port Gamble			180	891	19,254	36,954
Port Ludlow				7,743	15,820	27,122
Seattle	403,347	454,984	448,519	786,012	804,399	720,079
Tacoma	359,470	391,321	386,038	528,092	586,986	600,595
Vancouver				11,562	25,266	28,125
Willapa Harbor				28,706	19,953	19,101
Great Lakes District	5,171,672	5,817,674	7,109,251	8,023,418	9,922,342	11,942,470
New York, total	3,993,220	4,209,551	5,364,690	1,691,207	2,486,707	3,485,302
Buffalo	3,516,543	3,621,624	4,833,615	742,755	1,587,467	1,866,973
Fair Haven				54,264	7,718	8,150
Ogdensburg	172,071	193,450	154,250	2,194	1,990	209
Oswego	2,723	26,028	900	93,184	70,314	47,517
Rochester	99,969	140,066	183,740	591,480	675,534	1,069,491
Sodus Point				202,029	136,925	486,646
Tonawanda	58,750	37,242	43,695			
Waddington	137,000	118,400	138,942			
Pennsylvania: Erie	208,368	232,248	74,225	113,660	92,928	26,745
Ohio, total	458,774	463,866	641,238	4,225,154	4,250,493	4,778,340
Ashtabula				466,391	361,762	546,318
Cleveland	131,001	157,842	163,123	187,226	216,394	203,170
Conneaut				117,031	84,489	93,102
Fairport	180,634	137,454	284,479	387,340	231,805	1,016,586
Lorain	6,000	2,982	2,982	233,836	392,559	341,971
Sandusky	115,090	102,087	80,905	1,111,954	1,099,975	706,596
Toledo	26,048	63,501	109,749	1,721,376	1,863,509	1,870,602
Indiana		23	1,500	15,550	15,020	44,057
Illinois: Chicago	79,891	80,559	225,015	321,227	336,819	172,244
Michigan, total	253,525	611,402	603,527	528,303	639,801	1,247,542
Algonac				35,032	65,238	71,245
Calcite				10,025		43,779
Detroit	146,414	459,404	416,997	13,116	125,436	212,011
Escanaba	1,360	2,846		292,406	283,889	366,065
Isle Royal			503	4,050	29,521	218,186
Marquette				158,299	115,500	
Muskegon	30,020	37,232	48,470			
Saint Clair		185		303	2,574	295,035
Wyandotte		36,185	49,431			2,930
Wisconsin, total	132,126	184,032	140,625	820,180	1,316,710	1,562,891
Ashland	98,349	143,734	100,000	124,287	98,762	186,392
Milwaukee	15,172	12,689	11,441	29,443	49,056	23,743
Superior	6,874	1,340	5,300	664,307	1,158,197	1,346,506
Minnesota, total	45,768	35,993	58,431	308,137	783,864	625,349
Duluth	45,768	35,993	58,431	308,137	783,864	599,154

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

Source: Bureau of Research, United States Shipping Board.

No. 499.—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	1925	1926	1927	1928					
				Total	North Atlantic	South Atlantic	Gulf	Pacific	Great Lakes
Imports, total	**43,135**	**44,686**	**42,183**	**47,395**	**29,309**	**1,615**	**6,325**	**3,027**	**7,119**
Wheat	3,407	3,150	3,475	4,430	6	-------	-------	7	4,417
Other grains	698	604	623	778	32	-------	1	22	723
Oil seeds	360	563	506	437	425	-------	1	6	5
Vegetable oils	-------	-------	345	383	274	-------	26	83	-------
Vegetables and vegetable products, n. e. s.	796	826	651	777	571	11	36	159	-------
Animal, fish and dairy products	245	278	389	412	295	2	45	69	1
Bananas	1,353	1,321	1,531	1,656	842	36	707	71	-------
Coconuts and copra	218	266	264	309	67	1	55	186	-------
Other fruits and nuts	415	361	276	328	244	-------	44	40	-------
Sugar	3,929	4,058	3,590	3,380	2,299	162	792	122	5
Molasses	1,306	1,330	1,195	1,334	676	2	644	12	-------
Coffee	613	668	667	681	405	8	188	80	-------
Cocoa	167	187	198	173	169	-------	-------	4	-------
Tobacco and manufactures	51	48	58	50	43	-------	4	3	-------
Cotton	82	90	93	74	64	-------	-------	10	-------
Cotton manufactures	92	108	98	96	59	1	11	25	-------
Wool	146	140	110	103	89	-------	-------	14	-------
Wool manufactures	38	37	34	35	33	-------	-------	2	-------
Silk	20	20	20	32	5	-------	-------	27	-------
Silk manufactures	38	38	37	21	17	-------	-------	4	-------
Jute	68	76	103	98	93	3	-------	2	-------
Jute manufactures	311	349	319	350	226	7	79	38	-------
Other vegetable fibers and grasses	439	335	300	360	174	4	91	23	68
Textiles and manufactures, n. e. s.	76	74	107	84	73	-------	3	7	1
Hides, skins and manufactures	173	169	192	235	230	-------	-------	5	-------
Furs and fur skins	16	16	14	14	13	-------	-------	1	-------
Rubber	408	433	459	481	464	-------	-------	17	-------
Pulp wood and wood pulp	1,851	1,791	2,051	2,081	1,158	-------	4	38	881
Paper stock, n. e. s.	292	245	175	223	192	4	6	21	-------
Paper and manufactures	342	381	445	468	182	14	79	127	66
Clays	392	423	352	320	294	-------	2	12	12
Clay and manufactures	190	298	293	244	192	-------	8	44	-------
Coal and coke	657	1,109	449	620	490	-------	-------	130	-------
Petroleum and products	11,165	11,138	10,036	12,844	10,365	442	2,006	11	20
Gypsum	506	716	753	939	843	-------	-------	96	-------
Pyrites	333	371	283	460	389	17	-------	54	-------
Non-metallic minerals, n. e. s.	-------	-------	1,830	1,855	609	107	73	260	806
Iron ores	2,203	2,698	2,797	2,611	2,499	-------	102	10	-------
Manganese and manganese ore	598	675	616	526	494	-------	21	6	5
Iron and steel and manufactures	834	1,028	722	792	458	9	97	203	25
Copper and manufactures	460	540	564	557	326	-------	-------	231	-------
Miscellaneous metals and mfrs.	925	710	728	734	295	-------	307	132	-------
Logs and lumber	1,608	1,693	1,576	1,404	919	1	106	321	57
Dyeing and tanning materials	150	182	197	219	182	-------	36	1	-------
Potash	789	781	542	757	319	265	161	10	2
Nitrates	1,242	933	829	1,173	395	415	278	74	11
Other fertilizers	96	129	136	268	95	67	62	44	-------
Pigments, chemicals and mfrs., n. e. s.	568	586	645	658	311	36	231	80	-------
All others	2,469	2,714	510	531	414	1	19	83	14
Exports, total	**49,666**	**68,140**	**56,935**	**58,829**	**17,711**	**707**	**15,025**	**13,440**	**11,946**
Wheat	5,300	6,768	7,610	6,324	2,529	-------	507	781	2,507
Rye	759	365	1,019	441	120	-------	26	4	291
Corn	224	330	295	694	241	-------	381	14	58
Barley	1,077	723	1,250	1,650	701	-------	201	186	562
Oats	-------	-------	152	185	129	-------	11	-------	45
Rice	-------	-------	144	165	12	-------	132	21	-------
Other grains	817	482	138	127	70	-------	31	26	-------
Wheat flour	1,387	1,395	1,401	1,352	780	-------	234	338	-------
Oil-cake and meal	-------	-------	714	512	267	10	216	19	-------
Vegetables and vegetable products, n. e. s.	932	908	343	277	222	1	26	28	-------
Animal, fish and dairy products	866	790	746	753	521	5	109	118	-------
Fruits and nuts	537	694	745	827	325	4	6	492	-------
Sugar	378	121	167	196	180	-------	11	5	-------
Naval stores	291	290	391	264	9	194	59	2	-------
Tobacco and manufactures	255	271	272	324	256	2	43	23	-------
Cotton	1,853	2,049	2,125	1,902	105	123	1,625	49	-------
Cotton manufactures	93	85	103	77	67	6	3	1	-------
Other textiles and manufactures	5	9	103	100	91	-------	7	1	1
Hides, skins, and manufactures	45	39	29	28	24	-------	-------	4	-------
Rubber and manufactures	32	35	59	70	57	-------	3	10	-------
Paper stock and manufactures	-------	-------	186	230	123	2	15	89	1

No. 499.—Cargo Tonnage of Water-Borne Imports and Exports: By Major Commodities and by Coastal Districts—Continued

Commodity	1925	1926	1927	1928					
				Total	North Atlantic	South Atlantic	Gulf	Pacific	Great Lakes
Exports—Continued.									
Coal and coke	9,092	24,711	8,409	9,074	2,163	83	116	13	6,699
Petroleum and products	13,174	14,959	16,512	17,864	3,348	15	7,115	7,312	74
Sulphur	612	567	799	655	15	-------	630	2	8
Cement	150	152	131	128	101	1	24	2	-------
Nonmetallic minerals and mfrs., n. e. s.	-------	-------	442	742	95	10	65	76	496
Iron ores	583	814	744	971	8	-------	-------	-------	963
Iron, steel, and manufactures	1,223	1,528	1,552	1,963	1,308	43	347	64	201
Machinery	470	494	492	604	523	-------	39	26	16
Vehicles	644	577	654	969	931	-------	6	31	1
Copper and manufactures	440	394	443	457	353	-------	11	87	6
Ores, metals and manufactures, n. e. s.	-------	-------	281	308	149	4	106	49	-------
Logs and lumber	4,539	4,750	5,430	5,617	209	125	1,988	3,289	6
Phosphates	869	759	924	833	40	69	723	1	-------
Other fertilizers	208	249	220	199	145	-------	22	32	-------
Pigments, chemicals and mfrs., n. e. s.	278	348	454	497	301	-------	101	94	1
All others	2,533	2,484	1,456	1,460	1,193	10	86	151	10

Source: Bureau of Research, United Shipping Board.

No. 500.—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. 431. 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	
	Seaports	Other ports	Seaports	Other ports
1840 [1]	1,788	501	1,861	492
1850	3,169	1,179	3,167	1,194
1860	5,000	3,275	5,257	3,533
1870	6,270	2,886	6,362	2,807
1871–1875	8,462	2,997	8,514	2,994
1876–1880	12,134	2,792	12,197	2,807
1881–1885	13,604	2,931	13,781	2,917
1886–1890	13,479	2,602	13,655	2,593
1891–1895	16,801	2,816	16,965	2,876
1896–1900	20,931	3,989	21,077	4,007
1901–1905	24,551	5,939	24,633	5,918
1906–1910	29,651	8,071	29,156	8,036
1911–1915	36,035	11,879	35,954	12,061
1915–1920 [2]	38,071	13,440	40,137	13,511
1921–1925	52,959	13,334	53,578	13,075
1910–1914	35,212	11,408	34,965	11,614
1914–1920 [3]	37,604	13,169	39,417	13,190
1882	14,656	2,945	14,846	2,911
1883	13,361	3,021	13,565	2,976
1884	12,085	2,984	12,206	2,999
1885	12,287	3,018	12,496	3,019
1886	12,230	2,906	12,413	2,915
1887	13,532	2,284	13,511	2,242
1888	12,956	2,437	13,252	2,417
1889	13,312	2,640	13,672	2,671
1890	15,366	2,741	15,429	2,720
1891	15,394	2,810	15,411	2,850
1892	18,180	2,833	18,258	2,903
1893	16,679	2,903	16,825	2,936
1894	17,025	2,965	17,306	2,966
1895	16,725	2,570	17,024	2,727
1896	17,453	3,536	17,819	3,596
1897	20,003	3,757	19,878	3,831

Year	Entered		Cleared	
	Seaports	Other ports	Seaports	Other ports
1898	21,700	3,879	21,892	3,856
1899	21,963	4,148	22,177	4,089
1900	23,534	4,629	23,618	4,663
1901	24,791	4,977	24,889	4,931
1902	24,361	6,293	24,242	6,202
1903	24,698	6,396	24,823	6,493
1904	24,111	5,841	24,192	5,824
1905	24,793	6,190	25,020	6,138
1906	27,401	6,754	26,970	6,814
1907	29,248	7,374	28,499	7,491
1908	30,444	8,095	30,198	8,084
1909	30,243	8,815	29,604	8,592
1910	30,917	9,319	30,510	9,196
1911	32,457	10,218	32,299	10,138
1912	34,659	11,499	34,706	11,711
1913	37,973	12,666	37,566	13,586
1914	40,052	13,337	39,743	13,440
1915	35,032	11,678	35,458	11,427
1916	37,744	13,806	38,946	13,477
1917	36,521	13,951	38,094	13,983
1918	31,101	14,356	31,869	14,145
1918 (July–Dec.)	16,113	8,916	16,112	9,360
1919	36,381	10,320	40,750	10,506
1920	51,532	12,572	54,981	12,837
1921	49,958	12,327	50,423	12,242
1922	51,701	13,490	51,799	13,040
1923	52,775	13,544	53,215	13,409
1924	54,726	13,565	55,294	13,616
1925	55,636	13,742	57,160	13,069
1926	63,759	13,174	65,583	13,458
1927	58,921	15,389	59,759	15,682
1928	62,809	17,402	63,331	17,336
1929	66,853	15,749	67,030	15,313

[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. 501.—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 500

Customs district	1926		1927		1928		1929	
	Entered	Cleared	Entered	Cleared	Entered	Cleared	Entered	Cleared
Grand total	76,933	79,041	74,310	75,440	80,211	80,667	82,602	82,343
Seaports, total	63,759	65,583	58,921	59,759	62,809	62,331	66,853	67,030
North Atlantic coast, total	28,517	26,236	28,345	26,532	31,071	29,048	32,670	30,784
Maine and New Hampshire	699	676	677	599	623	520	652	540
Massachusetts	3,783	2,511	4,397	2,884	4,257	2,846	4,335	3,105
Rhode Island	289	255	249	200	237	236	342	267
Connecticut	37	13	20	17	28	6	31	12
New York	20,575	20,427	20,558	21,327	22,873	23,607	23,954	24,876
Philadelphia	3,134	2,354	2,444	1,505	3,053	1,833	3,356	1,984
South Atlantic coast, total	10,413	12,885	4,896	6,642	4,607	6,070	5,520	6,640
Maryland	4,132	3,767	2,052	1,488	1,909	1,380	2,470	1,711
Virginia	4,355	6,900	887	2,722	551	2,383	830	2,409
North Carolina	95	77	65	46	170	74	136	84
South Carolina	551	524	482	408	416	343	337	235
Georgia	353	640	286	760	304	584	293	619
Porto Rico	927	977	1,124	1,218	1,257	1,306	1,454	1,582
Gulf coast, total	11,875	12,487	11,612	11,904	11,629	12,437	12,120	12,802
Florida	2,630	2,225	2,649	2,158	2,476	2,044	2,788	2,295
Mobile	614	894	689	914	659	852	582	783
New Orleans	5,421	4,843	5,189	4,535	5,119	4,695	5,358	5,008
Sabine	837	1,094	675	1,005	765	963	806	891
Galveston	2,373	3,410	2,410	3,292	2,610	3,883	2,586	3,825
Mexican border: San Antonio	4		101	29	210	61	265	259
Pacific coast, total	12,950	13,995	13,987	14,652	15,292	15,715	16,278	16,545
Washington	5,536	6,031	5,430	5,574	6,273	6,278	6,356	6,436
Oregon	899	920	960	910	927	976	929	939
San Francisco	1,759	2,125	1,811	2,365	1,996	2,457	2,075	2,529
Los Angeles	3,623	3,464	4,556	4,375	4,792	4,573	5,054	5,210
Alaska	320	241	333	255	362	267	321	239
Hawaii	813	1,214	877	1,173	942	1,164	1,043	1,192
Northern border, total	13,174	13,458	15,389	15,681	17,402	17,336	15,749	15,313
Vermont	5	7	4	7	5	6	5	6
St. Lawrence	1,144	847	1,773	828	1,239	872	1,142	861
Rochester	2,401	2,475	2,675	2,727	3,372	3,422	3,482	3,558
Buffalo	3,087	1,407	3,534	2,147	4,122	2,000	2,289	1,158
Ohio	3,475	4,655	3,781	4,745	4,179	5,430	3,910	5,448
Michigan	1,472	1,917	2,146	2,179	2,053	2,600	2,289	2,371
Chicago	203	512	199	508	228	490	286	382
Wisconsin	237	374	477	538	410	430	536	340
Duluth and Superior	1,150	1,264	1,400	2,002	1,794	2,026	1,810	1,189

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	11,879	4,564
1915–1920[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
1925	31,964	28,681	12,047	8,085	11,625	6,684	----	13,742	7,322
1926	38,930	30,029	11,875	8,082	12,950	7,000	4	13,174	7,131
1927	33,174	26,303	11,904	10,410	14,652	12,678	29	15,682	10,656
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
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
1925	33,091	26,457	12,140	9,665	11,929	9,628	----	13,069	8,805
1926	39,121	32,537	12,467	10,103	13,995	11,597	----	13,458	9,241
1927	33,241	30,514	11,612	7,337	13,967	7,580	101	15,389	7,824
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	259	15,313	10,917

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

Source: Bureau of Foreign and Domestic Commerce.

No. 502.—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 500]

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
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
1915	39,754	46,710	13,275	33,435	28.4	35,032	1,605	33,427	23,893	11,139
1916	42,514	51,550	17,928	33,622	34.8	37,744	2,137	35,607	24,253	13,491
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	45,037	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

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
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
1915	6,830	5,567	28,202	18,326	19.5	11,678	4,241	6,445	5,233
1916	9,446	7,773	28,298	16,480	25.0	13,806	6,539	8,482	5,324
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	7,033	8,716

[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. 503.—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 500]

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
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
1915	39,139	46,885	13,418	33,467	28.6	35,458	1,749	33,709	31,878	3,580
1916	42,136	52,423	17,902	34,521	34.1	38,945	2,310	36,635	35,203	3,742
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

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
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
1915	7,110	5,692	28,348	26,186	20.1	11,427	7,309	6,308	5,119
1916	9,763	7,720	29,182	27,483	25.1	13,478	8,645	8,139	5,339
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	6,882	8,431

[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 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. 431

Country	1900–1909, average	1910–1914, average	1914–1920, average	1921–1925, average	1926	1927	1928	1929
Total by sea:								
Entered	**26,362**	**35,212**	**37,604**	**52,959**	**63,759**	**58,921**	**62,809**	**66,853**
Cleared	**26,206**	**34,965**	**39,417**	**53,578**	**65,583**	**59,759**	**63,331**	**67,030**
Belgium:								
Entered	905	955	392	1,231	1,865	1,600	1,535	1,420
Cleared	901	1,039	452	1,190	1,157	1,358	1,254	1,319
Denmark:								
Entered	184	297	373	372	424	437	589	603
Cleared	352	305	498	450	615	623	728	775
France:								
Entered	611	1,047	2,251	1,953	2,385	2,266	2,375	2,194
Cleared	1,062	1,453	3,345	2,250	2,399	2,390	2,554	2,475
Germany:								
Entered	2,384	3,113	290	2,998	3,370	3,489	3,929	3,900
Cleared	2,773	3,474	298	3,165	3,150	3,597	3,446	4,005
Italy:								
Entered	1,097	1,305	2,171	1,707	2,083	1,915	2,177	2,349
Cleared	1,003	1,662	2,489	1,986	2,369	1,836	1,890	2,093
Netherlands:								
Entered	846	1,169	1,291	1,654	2,957	1,904	1,978	1,863
Cleared	1,206	1,521	1,459	1,464	1,496	1,612	1,672	1,371
Norway:								
Entered	----------	193	521	384	349	354	275	404
Cleared	----------	159	830	412	422	356	328	370
Spain:								
Entered	483	724	838	608	869	672	823	911
Cleared	265	337	490	463	504	618	617	682
Sweden:								
Entered	----------	68	240	504	578	679	651	735
Cleared	----------	66	440	353	436	491	516	518
United Kingdom:								
Entered	7,440	7,238	8,765	9,378	13,088	10,417	10,432	9,951
Cleared	7,153	7,162	8,164	8,647	14,575	9,705	9,648	9,529
Canada:								
Atlantic coast—								
Entered	1,355	1,479	1,092	1,201	1,309	1,452	1,661	1,774
Cleared	1,454	1,594	1,007	1,331	1,479	1,578	1,749	1,823
British Columbia—								
Entered	1,508	2,539	3,117	4,571	5,711	5,687	6,574	7,175
Cleared	1,509	2,589	3,094	4,573	6,121	5,805	6,546	6,859
Central America:								
Entered	799	1,879	1,535	1,734	2,031	2,410	2,454	2,540
Cleared	830	2,121	1,610	1,640	2,159	2,553	2,725	2,934
Mexico:								
Entered	856	1,789	3,788	8,160	4,759	3,349	2,165	2,034
Cleared	745	1,847	3,727	8,391	4,905	3,145	2,185	2,132
British West Indies and British Honduras:								
Entered	1,001	1,038	564	1,351	1,607	1,829	1,864	1,916
Cleared	982	1,181	642	1,435	1,881	2,038	2,027	2,241
Cuba:								
Entered	2,018	3,030	3,450	4,769	5,615	5,476	5,430	6,693
Cleared	1,766	2,449	3,560	4,659	5,610	5,306	5,277	6,771
Dominican Republic:								
Entered	111	179	345	380	517	616	771	826
Cleared	94	200	404	449	687	791	1,047	1,070
Haiti:								
Entered	106	123	108	105	175	183	224	287
Cleared	81	124	186	230	195	181	181	249
Argentina:								
Entered	207	792	633	1,006	1,224	1,161	763	873
Cleared	328	619	762	707	1,140	998	1,004	1,029
Brazil:								
Entered	587	1,131	550	552	631	681	1,060	1,077
Cleared	253	558	841	913	1,568	1,194	1,208	1,247
Chile:								
Entered	206	462	853	975	1,307	1,190	1,438	1,580
Cleared	138	327	797	793	896	1,006	1,221	1,157
Colombia:								
Entered	195	199	231	144	511	792	1,064	1,112
Cleared	172	196	213	226	479	1,007	1,249	1,051
British East Indies:								
Entered	238	329	347	576	782	808	773	884
Cleared	107	131	204	330	392	462	379	396

No. 504.—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	1927	1928	1929
China, Hong Kong, and Kwantung:								
Entered	346	442	519	959	1,019	876	1,028	1,181
Cleared	389	391	479	963	898	846	1,034	992
Japan:								
Entered	441	646	733	1,607	2,149	2,264	2,496	2,481
Cleared	351	542	796	2,106	2,901	2,958	3,438	3,443
Philippine Islands:								
Entered	63	85	132	408	634	584	530	626
Cleared	93	144	124	359	499	484	537	503
British Australasia:								
Entered	256	238	379	509	823	866	930	1,023
Cleared	413	534	567	946	1,435	1,518	1,385	1,476
All other countries:								
Entered	2,117	2,725	2,094	3,165	4,989	4,966	6,820	8,441
Cleared	1,788	2,240	1,938	3,149	5,216	5,301	7,476	8,520

No. 505.—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 502 and 503 in which the columns for northern border represent trade with Quebec and Ontario. For periods covered see note, Table 504

	1900–1909, average	1910–1914, average	1914–1920, average	1921–1925, average	1926	1927	1928	1929
Total by sea:								
Entered	**26,362**	**35,212**	**37,604**	**52,959**	**63,759**	**58,921**	**62,809**	**66,853**
Cleared	**26,206**	**34,965**	**39,417**	**53,578**	**65,583**	**59,759**	**63,331**	**67,030**
American:								
Entered	4,044	4,753	13,327	22,526	21,092	22,001	22,991	25,208
Cleared	4,023	4,778	14,171	22,556	22,234	22,078	23,180	25,045
Total foreign:								
Entered	22,318	30,459	24,276	30,433	42,668	36,920	39,818	41,645
Cleared	22,182	30,186	25,245	31,022	43,349	37,681	40,151	41,985
Belgian:								
Entered	262	412	269	332	483	353	367	312
Cleared	269	404	283	343	464	351	342	340
British:								
Entered	13,564	17,901	14,168	16,807	22,834	18,820	19,435	20,175
Cleared	13,422	17,814	14,755	17,064	23,010	19,065	19,559	20,193
Danish:								
Entered	398	472	774	929	1,155	1,098	1,185	1,184
Cleared	308	450	795	928	1,175	1,106	1,238	1,271
Dutch:								
Entered	667	1,004	1,007	1,300	1,754	1,648	1,735	1,761
Cleared	661	1,007	1,055	1,292	1,748	1,650	1,759	1,775
French:								
Entered	636	997	876	1,492	1,744	1,768	1,905	1,869
Cleared	642	990	919	1,518	1,753	1,849	1,943	1,913
German:								
Entered	3,160	4,362	107	847	1,809	2,109	2,676	3,062
Cleared	3,171	4,300	79	870	1,885	2,185	2,713	3,224
Italian:								
Entered	542	821	1,211	1,490	2,759	1,979	2,081	2,128
Cleared	538	850	1,366	1,569	2,796	2,026	1,973	2,072
Japanese:								
Entered	127	353	1,099	2,059	2,285	2,439	2,750	2,823
Cleared	107	244	1,046	2,235	2,531	2,602	2,831	2,780
Norwegian:								
Entered	1,941	2,679	2,744	2,817	3,872	3,482	4,143	4,393
Cleared	1,946	2,684	2,822	2,784	3,979	3,517	4,224	4,485
Spanish:								
Entered	424	413	606	480	880	486	467	530
Cleared	420	398	637	487	881	521	484	535
Swedish:								
Entered	62	70	353	564	888	900	945	1,069
Cleared	65	70	367	566	907	936	977	1,081
All other foreign:								
Entered	535	975	1,062	1,317	2,205	1,838	2,129	2,339
Cleared	542	977	1,122	1,366	2,221	1,873	2,108	2,316

Source of Tables 504 and 505: Bureau of Foreign and Domestic Commerce.

No. 506.—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	3,978	2,035	5,437	37.1	32.5
1916	5,483	4,820	665	4,155	663	2,392	2,157	532	1,625	234	13.8	24.7
1917	6,234	5,403	946	4,457	830	2,953	2,590	733	1,857	362	17.5	28.3
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	59	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

TOTAL WATER-BORNE EXPORTS AND IMPORTS COMBINED

Yearly average or year	Total	In American vessels	In foreign vessels	Per cent in American vessels	Year	Total	In American vessels	In foreign vessels	Per cent in American vessels
1830 [2]	145	130	15	89.7	1916	6,977	1,197	5,780	17.2
1840 [2]	239	198	41	82.3	1917	7,994	1,679	6,315	21.0
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					
1921–1925	6,801	2,383	4,418	35.0					

[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. 507.—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	1926	1927	1928	1929
Exports, excluding reexports	2,071,058	8,080,481	3,765,091	4,818,722	4,711,721	4,758,864	5,030,099	5,157,083
American vessels	186,926	3,116,440	1,248,736	1,458,199	1,387,814	1,419,967	1,459,913	1,475,569
Foreign vessels:								
Belgian	7,763	76,370	25,369	37,792	36,163	33,569	36,825	31,345
British	1,011,691	2,587,813	1,147,027	1,423,507	1,340,361	1,333,325	1,341,764	1,348,593
Danish	(1)	71,841	53,348	94,980	81,107	94,650	93,654	90,986
Dutch	83,895	157,957	91,486	166,413	168,064	172,705	164,090	163,326
French	70,037	166,126	111,539	137,218	132,300	121,166	123,183	126,237
German	158,640	9,671	54,702	163,767	168,304	221,028	252,283	268,807
Italian	44,544	215,441	94,707	146,858	124,631	114,792	143,614	122,733
Japanese	23,957	208,876	158,416	173,205	163,492	144,140	158,532	163,847
Norwegian	89,821	236,696	132,729	172,324	177,310	197,300	236,005	266,073
Spanish	(1)	113,291	55,878	62,167	62,788	48,796	50,505	48,638
Swedish	(1)	54,074	34,051	53,598	73,542	78,932	83,504	83,186
All other	126,611	130,515	32,096	89,975	91,167	69,512	86,338	94,456
Total foreign	1,616,959	4,028,671	1,991,348	2,721,804	2,619,229	2,629,915	2,770,298	2,808,228
Parcel post	----------	----------	----------	26,052	27,977	27,785	29,014	26,656
Cars and other land vehicles	267,173	935,370	525,007	612,667	676,701	681,197	770,873	846,630
Imports	1,789,276	5,278,481	3,112,747	4,226,589	4,430,888	4,184,742	4,091,444	4,399,361
American vessels	216,199	1,987,861	921,054	1,151,242	1,194,995	1,214,827	1,132,598	1,205,008
Foreign vessels:								
Belgian	24,404	24,736	10,342	10,211	13,839	12,063	11,309	11,867
British	808,344	1,600,697	974,273	1,384,926	1,366,926	1,133,818	1,120,985	1,163,519
Danish	(1)	40,767	51,863	54,142	49,131	58,943	57,452	48,084
Dutch	90,840	187,478	99,554	122,278	151,499	141,500	135,495	144,137
French	82,945	141,181	140,112	147,809	160,865	151,833	140,621	145,788
German	151,613	14	27,755	85,945	139,517	162,508	199,154	243,318
Italian	39,796	60,618	45,254	70,663	78,483	75,639	65,170	68,400
Japanese	57,545	454,180	212,203	390,393	382,236	404,540	377,108	437,914
Norwegian	82,679	111,811	147,689	164,095	167,684	154,068	150,157	164,409
Spanish	(1)	36,148	11,220	15,886	29,933	20,897	16,926	17,710
Swedish	(1)	27,663	21,975	36,102	51,072	54,933	50,173	50,837
All other	77,410	57,959	40,764	82,624	104,635	75,826	93,085	100,035
Total foreign	1,415,576	2,743,252	1,783,004	2,565,074	2,695,820	2,446,567	2,417,633	2,602,017
Parcel post	----------	----------	98,375	125,133	129,161	111,501	110,153	123,309
Cars and other land vehicles	157,501	547,368	310,314	385,140	410,912	411,846	431,061	469,027

[1] Included in "All other."

Source: Bureau of Foreign and Domestic Commerce.