15.—WAGES, HOURS OF LABOR, AND EMPLOYMENT

[Data in this section relate to Continental United States, except as noted. For data relating to hours of labor and wages shown in other sections, consult the index]

No. 341.—INDEX NUMBERS OF EARNINGS PER HOUR (EXCLUSIVE OF AGRICULTURE)

NOTE.—These index numbers are based on such information as afforded comparisons through a series of years. No one series of directly comparable data extends through the entire period, although many trades and industries are continuously represented in the table. Agricultural wages are not included in the indexes given in this table, but are presented separately in table 555; this separation was made because of the seasonal character of the industry, the wide differences in methods of hiring, and the perquisites so often forming a part of the farm wages. The figures in this table indicate the change in earnings per hour when wage workers were actually at work, with 1913 as the base year. During the period, regular full-time working hours have been greatly reduced; hence the figures do not apply to full-time earnings per day or per week. Further, they do not reflect actual earnings in periods of broken time or unemployment.

[1913=100. On currency basis during Civil War period]

Year	Index number	Year	Index number	Year	Index number	Year	Index number
1840	33	1864	50	1888	67	1912	97
1841	34	1865	58	1889	68	1913	100
1842	33	1866	61	1890	69	1914	102
1843	33	1867	63	1891	69	1915	103
1844	32	1868	65	1892	69	1916	111
1845	33	1869	66	1893	69	1917	128
1846	34	1870	67	1894	67	1918	162
1847	34	1871	68	1895	68	1919	184
1848	35	1872	69	1896	69	1920	234
1849	36	1873	69	1897	69	1921	218
1850	35	1874	67	1898	69	1922	208
1851	34	1875	67	1899	70	1923	217
1852	35	1876	64	1900	73	1924	223
1853	35	1877	61	1901	74	1925	226
1854	37	1878	60	1902	77	1926	229
1855	38	1879	59	1903	80	1927	231
1856	39	1880	60	1904	80	1928	232
1857	40	1881	62	1905	82	1929	233
1858	39	1882	63	1906	85	1930	229
1859	39	1883	64	1907	89	1931	217
1860	39	1884	64	1908	89	1932	186
1861	40	1885	64	1909	90	1933	178
1862	41	1886	64	1910	93	1934	200
1863	44	1887	67	1911	95		

Source: Bureau of Labor Statistics, Department of Labor.

No. 342.—INDEX NUMBERS OF EARNINGS PER HOUR. COST OF LIVING, AND REAL EARNINGS

NOTE.—The general trend of earnings per hour presented in table 341 relate to money received per hour by the wage earner as compensation for his work. The real measure of his earnings, however, is not his money income, but what he is able to buy with it. In the following table, therefore, index numbers relating to earnings per hour and to cost of living are brought together and from them a third index number is computed showing the change in the worker's "real earnings"

[1913=100]

Year	Index numbers of—			Year	Index numbers of—		
	Earnings per hour	Cost of living	Real earnings		Earnings per hour	Cost of living	Real earnings
1913	100	100.0	100.0	1924	223	170.7	130.6
1914	102	103.0	99.0	1925	226	175.7	128.6
1915	103	105.1	98.0	1926	229	175.2	130.7
1916	111	118.3	93.8	1927	231	172.7	133.8
1917	128	142.4	89.9	1928	232	170.7	135.9
1918	162	174.4	92.9	1929	233	170.8	136.4
1919	184	188.3	97.7	1930	229	163.7	[1] 139.9
1920	234	208.5	112.2	1931	217	148.1	[1] 146.5
1921	218	177.3	123.0	1932	186	133.9	[1] 138.9
1922	208	167.3	124.3	1933	178	131.7	[1] 135.2
1923	217	171.0	126.9	1934	200	137.7	[1] 145.2

[1] Computed by the Bureau of Foreign and Domestic Commerce from data in the first two columns.

Source: Bureau of Labor Statistics, Department of Labor.

No. 343.—AVERAGE HOURS AND EARNINGS IN SPECIFIED MANUFACTURING INDUSTRIES

NOTE.—**The base year for the general indexes is indicated by 100.0 in bold type.** The general indexes and the averages for employees in all occupations for each industry are weighted according to the number of employees in each occupation. Data have not been collected annually for all of the industries, but at intervals; the first year for which comparable data were collected is shown, other years not shown in this table are available unless otherwise indicated by a footnote. Data are for a representative pay period of 1 week in each year

TEXTILES

Cotton goods

Year	Speeder tenders, male: Average hours per week, Full time	Speeder tenders, male: Average hours per week, Actually worked	Speeder tenders, male: Average earnings per hour	Speeder tenders, female: Average hours per week, Full time	Speeder tenders, female: Average hours per week, Actually worked	Speeder tenders, female: Average earnings per hour	Spinners, frame, male: Average hours per week, Full time	Spinners, frame, male: Average hours per week, Actually worked	Spinners, frame, male: Average earnings per hour	Spinners, frame, female: Average hours per week, Full time	Spinners, frame, female: Average hours per week, Actually worked	Spinners, frame, female: Average earnings per hour	Loom fixers, male: Average hours per week, Full time	Loom fixers, male: Average hours per week, Actually worked	Loom fixers, male: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			Dol.
1907	63.9	(1)	0.116	59.3	(1)	0.139	59.4	(1)	0.124	61.0	(1)	0.110	60.8	(1)	0.207
1910	61.4	(1)	.131	57.8	(1)	.133	57.2	(1)	.120	59.0	(1)	.108	58.7	(1)	.200
1913	59.8	(1)	.145	56.5	(1)	.153	56.9	(1)	.143	57.8	(1)	.128	57.6	(1)	.227
1918	58.2	(1)	.265	55.0	(1)	.277	54.3	(1)	.248	56.1	(1)	.233	56.4	(1)	.391
1920	54.2	(1)	.533	50.2	(1)	.486	50.7	(1)	.475	51.8	(1)	.427	52.2	(1)	.685
1922	54.1	(1)	.358	51.0	(1)	.369	53.4	(1)	.292	52.6	(1)	.301	52.9	(1)	.500
1924	54.3	(1)	.394	51.2	(1)	.411	53.2	(1)	.369	53.1	(1)	.319	52.9	(1)	.553
1926	55.1	43.8	.343	51.0	43.9	.368	55.1	39.7	.289	53.5	42.0	.282	53.5	49.5	.489
1928	55.1	40.3	.345	51.2	40.6	.359	57.8	38.3	.339	52.9	38.6	.276	53.7	46.7	.482
1930	54.8	41.1	.343	51.3	40.9	.349	55.5	36.5	.322	53.5	38.8	.266	53.5	46.8	.483
1932	54.2	43.5	.273	51.5	42.3	.296	53.6	41.1	.214	53.6	40.0	.213	53.4	48.1	.403
1933 [2]	(1)	46.1	.225	(1)	43.8	.232	(1)	46.7	.216	(1)	40.1	.184	(1)	52.7	.387
1933 [3]	(1)	33.6	.378	(1)	34.5	.382	(1)	35.1	.375	(1)	33.8	.336	(1)	38.0	.565
1934	(1)	27.9	.383	(1)	30.2	.388	(1)	30.1	.374	(1)	27.5	.335	(1)	32.2	.563

Cotton goods—Continued; Woolen and worsted goods [4]

Year	Weavers, male: Average hours per week, Full time	Weavers, male: Average hours per week, Actually worked	Weavers, male: Average earnings per hour	Weavers, female: Average hours per week, Full time	Weavers, female: Average hours per week, Actually worked	Weavers, female: Average earnings per hour	General index [5]			Spinners, mule, male: Average hours per week, Full time	Spinners, mule, male: Average hours per week, Actually worked	Spinners, mule, male: Average earnings per hour	Spinners, frame, female: Average hours per week, Full time	Spinners, frame, female: Average hours per week, Actually worked	Spinners, frame, female: Average earnings per hour
			Dol.			Dol.						Dol.			Dol.
1907	60.3	(1)	0.161	59.5	(1)	0.151	(1)	(1)	(1)	58.6	(1)	0.219	57.6	(1)	0.127
1910	58.8	(1)	.151	57.8	(1)	.147	102.1	(1)	87.5	57.0	(1)	.224	56.0	(1)	.122
1913	57.6	(1)	.170	56.7	(1)	.164	100.0	(1)	100.0	56.5	(1)	.239	55.5	(1)	.140
1918	56.2	(1)	.301	55.4	(1)	.285	97.0	(1)	179.9	54.9	(1)	.499	52.4	(1)	.278
1920	51.8	(1)	.573	50.3	(1)	.528	89.7	(1)	323.5	48.2	(1)	.816	48.2	(1)	.481
1922	52.6	(1)	.389	51.6	(1)	.380	91.5	(1)	222.4	49.2	(1)	.670	48.4	(1)	.345
1924	52.8	(1)	.449	51.8	(1)	.429	91.8	(1)	250.7	48.9	(1)	.755	48.9	(1)	.417
1926	53.2	45.4	.396	51.9	44.8	.375	92.3	100.0	221.0	49.7	44.2	.695	49.8	38.3	.362
1928	53.4	41.6	.392	52.2	40.8	.371	92.5	92.7	218.3	49.5	40.1	.684	49.7	37.9	.383
1930	52.7	44.2	.400	52.0	43.2	.381	92.5	94.7	219.0	49.5	40.3	.659	49.1	37.6	.387
1930	------	------	------	------	------	------	------	------	------	*50.0*	*40.8*	*.620*	*49.4*	*37.7*	*.380*
1932	53.1	46.1	.314	52.0	45.3	.307	92.5	98.2	179.2	51.3	40.7	.515	49.4	40.6	.340
1933 [2]	(1)	49.7	.264	(1)	46.8	.252	(1)	102.0	156.7	(1)	(1)	(1)	(1)	(1)	(1)
1933 [3]	(1)	36.6	.415	(1)	37.2	.409	(1)	78.7	249.5	40.0	30.0	.626	39.7	35.3	.416
1934	(1)	31.4	.420	(1)	31.6	.413	(1)	67.2	256.7	40.0	32.8	.582	39.8	28.1	.412

Woolen and worsted goods—Continued

Year	Loom fixers, male: Average hours per week, Full time	Loom fixers, male: Average hours per week, Actually worked	Loom fixers, male: Average earnings per hour	Weavers, male: Average hours per week, Full time	Weavers, male: Average hours per week, Actually worked	Weavers, male: Average earnings per hour	Weavers, female: Average hours per week, Full time	Weavers, female: Average hours per week, Actually worked	Weavers, female: Average earnings per hour	Burlers, female: Average hours per week, Full time	Burlers, female: Average hours per week, Actually worked	Burlers, female: Average earnings per hour	General index [5]		
			Dol.			Dol.			Dol.			Dol.			
1907	53.0	(1)	0.267	58.5	(1)	0.203	58.0	(1)	0.188	58.3	(1)	0.122	(1)	(1)	(1)
1910	56.6	(1)	.279	57.1	(1)	.207	56.3	(1)	.180	56.5	(1)	.130	101.3	(1)	90.4
1913	55.8	(1)	.297	56.3	(1)	.232	56.0	(1)	.197	55.6	(1)	.146	100.0	(1)	100.0
1918	54.5	(1)	.552	54.5	(1)	.470	54.1	(1)	.406	54.1	(1)	.276	97.0	(1)	192.6
1920	48.3	(1)	.973	48.3	(1)	.807	48.3	(1)	.747	48.4	(1)	.452	86.2	(1)	353.7
1922	48.4	(1)	.754	48.3	(1)	.616	48.4	(1)	.576	48.2	(1)	.371	87.1	(1)	267.0
1924	49.0	(1)	.870	48.8	(1)	.701	48.9	(1)	.654	49.2	(1)	.420	87.7	(1)	300.2
1926	49.0	45.1	.807	48.9	41.0	.652	49.2	40.1	.600	49.3	40.8	.381	88.0	100.0	276.5
1928	49.0	45.4	.821	48.9	38.1	.658	48.8	36.7	.605	49.3	39.0	.383	88.0	95.7	239.5
1930	49.5	43.8	.809	49.3	40.5	.636	49.2	38.6	.579	49.0	38.1	.354	88.0	95.7	266.4
1930	*49.8*	*44.1*	*.775*	*49.8*	*49.7*	*.611*	*49.6*	*38.6*	*.544*	*49.4*	*38.6*	*.339*	------	------	------
1932	51.6	45.5	.676	51.4	43.0	.497	52.4	43.4	.440	50.2	36.8	.294	89.2	96.2	228.2
1933 [3]	40.0	38.9	.772	40.0	37.0	.562	39.9	38.1	.492	40.0	37.0	.398	71.1	86.5	271.7
1934	40.0	35.3	.768	40.0	33.0	.562	40.0	32.7	.515	40.0	28.2	.416	71.1	72.2	285.6

For footnotes, see p. 312.

No. 343.—Average Hours and Earnings in Manufacturing Industries—Continued

TEXTILES—Continued

Silk and rayon goods

Year	Spinners, male: Average hours per week, Full time	Spinners, male: Average hours per week, Actually worked	Spinners, male: Average earnings per hour	Spinners, female: Average hours per week, Full time	Spinners, female: Average hours per week, Actually worked	Spinners, female: Average earnings per hour	Winders, hard silk, female: Average hours per week, Full time	Winders, hard silk, female: Average hours per week, Actually worked	Winders, hard silk, female: Average earnings per hour	Warpers, male: Average hours per week, Full time	Warpers, male: Average hours per week, Actually worked	Warpers, male: Average earnings per hour	Warpers, female: Average hours per week, Full time	Warpers, female: Average hours per week, Actually worked	Warpers, female: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			Dol.
1907	56.8	(1)	0.098	58.7	(1)	0.083	57.6	(1)	0.099	57.0	(1)	0.306	57.8	(1)	0.162
1910	57.5	(1)	.094	56.9	(1)	.091	57.3	(1)	.093	56.6	(1)	.317	56.3	(1)	.179
1913	56.6	(1)	.117	56.3	(1)	.110	56.3	(1)	.112	55.3	(1)	.388	55.7	(1)	.205
1919	53.9	(1)	.342	50.3	(1)	.274	51.5	(1)	.269	50.7	(1)	.558	51.9	(1)	.354
1931	54.2	49.9	.344	50.2	43.1	.289	50.1	40.7	.293	51.1	45.4	.648	50.4	43.5	.476
1933 [2]	55.6	47.9	.251	50.0	42.6	.211	50.3	40.7	.206	51.7	44.6	.396	50.5	40.3	.321
1933 [3]	39.1	30.4	.442	38.3	34.4	.351	39.4	34.5	.344	40.2	35.8	.519	39.9	35.1	.474
1934	39.5	33.0	.462	38.3	31.5	.361	39.3	30.2	.356	40.0	34.2	.615	40.0	29.6	.499

Year	Quillers, female: Average hours per week, Full time	Quillers, female: Average hours per week, Actually worked	Quillers, female: Average earnings per hour	Loom fixers, male: Average hours per week, Full time	Loom fixers, male: Average hours per week, Actually worked	Loom fixers, male: Average earnings per hour	Weavers, broad silk, male: Average hours per week, Full time	Weavers, broad silk, male: Average hours per week, Actually worked	Weavers, broad silk, male: Average earnings per hour	Weavers, broad silk, female: Average hours per week, Full time	Weavers, broad silk, female: Average hours per week, Actually worked	Weavers, broad silk, female: Average earnings per hour	General index [5]		
			Dol.			Dol.			Dol.			Dol.			
1907	58.0	(1)	0.097	57.4	(1)	0.260	57.7	(1)	0.206	57.1	(1)	0.143	(1)	(1)	(1)
1910	56.2	(1)	.107	56.5	(1)	.289	56.9	(1)	.213	56.7	(1)	.141	101.3	(1)	86.5
1913	55.3	(1)	.115	55.8	(1)	.321	56.0	(1)	.253	56.1	(1)	.198	100.0	(1)	100.0
1919	51.3	(1)	.237	51.5	(1)	.546	51.7	(1)	.473	52.0	(1)	.398	92.6	(1)	199.0
1931	50.0	44.2	.265	51.0	50.2	.746	51.2	47.0	.499	49.6	46.0	.422	91.0	(1)	215.8
1933 [2]	50.5	42.5	.192	51.2	49.9	.534	50.7	46.4	.287	49.6	44.9	.254	91.4	(1)	143.0
1933 [3]	40.1	36.5	.134	39.9	38.9	.724	40.0	37.4	.447	40.0	37.1	.410	71.4	(1)	220.6
1934	39.6	33.3	.357	40.0	36.8	.765	39.6	34.7	.482	39.9	35.4	.433	71.2	(1)	238.1

Dyeing and finishing of textiles

Year	Dyeing machine tenders, male: Average hours per week, Full time	Dyeing machine tenders, male: Average hours per week, Actually worked	Dyeing machine tenders, male: Average earnings per hour	Mangle tenders, male: Average hours per week, Full time	Mangle tenders, male: Average hours per week, Actually worked	Mangle tenders, male: Average earnings per hour	Printing machine tenders, male: Average hours per week, Full time	Printing machine tenders, male: Average hours per week, Actually worked	Printing machine tenders, male: Average earnings per hour	Tenter-frame tenders, male: Average hours per week, Full time	Tenter-frame tenders, male: Average hours per week, Actually worked	Tenter-frame tenders, male: Average earnings per hour	Drier tenders, male: Average hours per week, Full time	Drier tenders, male: Average hours per week, Actually worked	Drier tenders, male: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			Dol.
1930	50.6	48.6	0.465	51.2	50.9	0.424	51.5	54.7	1.201	51.0	51.2	0.435	51.2	51.6	0.435
1932	50.8	49.7	.415	51.6	51.5	.366	50.8	55.2	1.019	51.5	53.3	.385	51.6	53.6	.375
1933 [2]	53.3	51.2	.352	48.3	46.1	.340	55.8	54.4	1.043	50.3	54.7	.319	53.2	56.6	.295
1933 [3]	40.4	35.4	.443	40.9	35.9	.421	40.0	36.3	1.392	40.2	32.7	.442	40.1	36.3	.428
1934	40.2	33.3	.518	40.1	31.8	.464	40.1	36.5	1.345	40.1	33.7	.489	40.0	32.8	.467

Year	Calender tenders, male: Average hours per week, Full time	Calender tenders, male: Average hours per week, Actually worked	Calender tenders, male: Average earnings per hour	Truckers, hand, male: Average hours per week, Full time	Truckers, hand, male: Average hours per week, Actually worked	Truckers, hand, male: Average earnings per hour	Yarn winders, female: Average hours per week, Full time	Yarn winders, female: Average hours per week, Actually worked	Yarn winders, female: Average earnings per hour	Employees in all occupations [5 6]: Males: Average hours per week, Full time	Males: Average hours per week, Actually worked	Males: Average earnings per hour	Females: Average hours per week, Full time	Females: Average hours per week, Actually worked	Females: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			Dol.
1930	51.4	50.7	0.431	50.6	51.5	0.405	51.9	39.6	0.350	51.0	50.7	0.473	50.5	42.4	0.335
1932	52.1	49.8	.383	51.2	51.2	.344	53.4	39.3	.262	51.4	51.1	.418	51.2	43.5	.291
1933 [2]	54.8	56.6	.345	52.3	50.6	.302	53.8	42.0	.228	52.4	51.9	.368	49.9	43.2	.277
1933 [3]	40.3	36.7	.434	40.2	35.7	.400	39.9	28.9	.393	40.5	36.6	.481	40.0	33.7	.380
1934	40.0	34.3	.480	40.2	34.4	.414	40.0	26.9	.416	40.3	33.9	.518	39.6	33.8	.405

Men's clothing [7]

Year	Cutters, cloth, hand and machine, male: Average hours per week, Full time	Cutters, cloth, hand and machine, male: Average hours per week, Actually worked	Cutters, cloth, hand and machine, male: Average earnings per hour	Basters, coat, male: Average hours per week, Full time	Basters, coat, male: Average hours per week, Actually worked	Basters, coat, male: Average earnings per hour	Operators, coat, male: Average hours per week, Full time	Operators, coat, male: Average hours per week, Actually worked	Operators, coat, male: Average earnings per hour	Operators, coat, female: Average hours per week, Full time	Operators, coat, female: Average hours per week, Actually worked	Operators, coat, female: Average earnings per hour	Hand sewers, coat, female: Average hours per week, Full time	Hand sewers, coat, female: Average hours per week, Actually worked	Hand sewers, coat, female: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			Dol.
1911	49.9	(1)	0.406	55.3	(1)	0.220	55.9	(1)	0.264	54.2	(1)	0.195	54.8	(1)	0.155
1913	49.0	(1)	.433	52.5	(1)	.267	52.5	(1)	.305	52.1	(1)	.199	52.1	(1)	.179
1919	47.7	(1)	.628	47.5	(1)	.511	47.6	(1)	.591	48.1	(1)	.361	47.8	(1)	.334
1922	44.0	(1)	1.033	44.3	(1)	.848	44.1	(1)	.962	43.9	(1)	.593	44.2	(1)	.526
1924	44.2	(1)	1.111	44.4	(1)	.889	44.1	(1)	1.033	43.6	(1)	.614	44.1	(1)	.555
1926	44.2	42.4	1.123	44.3	42.7	.925	44.1	41.9	1.034	44.4	39.3	.638	44.4	41.1	.545
1928	43.8	41.7	1.129	44.2	42.8	.905	44.2	42.3	1.016	43.3	38.2	.632	43.9	40.0	.527
1930	44.0	38.5	1.139	44.3	39.8	.834	44.3	40.3	.958	43.8	35.2	.570	44.2	37.6	.496
1932	44.2	36.3	.920	44.2	39.1	.561	44.2	40.4	.687	44.5	37.3	.407	44.4	37.1	.345

For footnotes, see p. 312.

No. 343.—Average Hours and Earnings in Manufacturing Industries—Continued

Year	TEXTILES—Continued														
	Men's clothing—Continued						Hosiery and underwear								
	Pressers, coat, male			General index [5]			Knitters, full-fashioned, hosiery, male			Knitters, transfer, hosiery, female			Loopers, hosiery, female		
	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour
			Dol.						Dol.			Dol.			Dol.
1907	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	58.1	(1)	0.123	58.4	(1)	0.140
1910	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	57.5	(1)	.121	57.3	(1)	.133
1911	55.1	(1)	0.240	104.6	(1)	86.7	(1)	(1)	(1)	57.2	(1)	.135	57.1	(1)	.134
1913	52.3	(1)	.291	100.0	(1)	100.0	55.1	(1)	0.390	56.0	(1)	.149	56.0	(1)	.150
1919	47.8	(1)	.541	92.7	(1)	173.5	51.7	(1)	.640	53.0	(1)	.272	52.2	(1)	.296
1922	44.1	(1)	.869	85.3	(1)	283.2	52.9	(1)	.861	50.7	(1)	.293	50.8	(1)	.327
1924	44.2	(1)	.934	85.3	(1)	295.7	50.5	(1)	1.099	50.8	(1)	.344	50.8	(1)	.384
1926	44.3	42.1	.933	85.7	100.0	291.8	51.1	50.8	1.346	52.5	46.1	.298	52.4	43.5	.371
1928	44.0	41.8	.912	85.1	99.5	284.4	50.5	50.0	1.390	53.1	45.4	.294	53.0	44.3	.385
1930	44.2	39.1	.867	85.7	92.6	272.7	50.7	44.4	1.277	53.7	40.0	.273	53.0	37.6	.386
1932	44.3	37.8	.608	85.8	91.4	196.9	51.1	43.7	.669	53.7	41.4	.205	52.6	36.6	.289

Year	Hosiery and underwear—Continued														
	Seamers, full fashioned, hosiery, female			Boarders, hosiery, male			Knitters, web or tube, underwear, male			Cutters, hand, layers-up, and markers, underwear, female			Seamers, underwear, female		
	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			Dol.
1907	(1)	(1)	(1)	58.4	(1)	0.218	58.5	(1)	0.219	58.6	(1)	0.144	58.6	(1)	0.144
1910	(1)	(1)	(1)	57.0	(1)	.193	58.0	(1)	.201	56.5	(1)	.137	57.8	(1)	.143
1911	(1)	(1)	(1)	56.9	(1)	.189	57.9	(1)	.211	56.4	(1)	.139	58.1	(1)	.141
1913	55.1	(1)	0.170	55.8	(1)	.219	55.4	(1)	.249	54.8	(1)	.169	54.5	(1)	.176
1919	(1)	(1)	(1)	52.5	(1)	.450	52.9	(1)	.407	50.4	(1)	.313	51.3	(1)	.287
1922	50.7	(1)	.395	51.3	(1)	.462	51.8	(1)	.448	48.9	(1)	.372	50.3	(1)	.325
1924	50.5	(1)	.484	51.9	(1)	.531	51.3	(1)	.528	49.8	(1)	.363	50.3	(1)	.372
1926	50.5	46.3	.515	53.4	47.7	.481	52.0	50.9	.534	50.2	43.1	.367	50.2	42.0	.374
1928	49.8	45.9	.504	53.8	48.2	.521	52.2	48.6	.490	50.4	44.5	.344	50.2	42.5	.355
1930	50.2	40.0	.497	53.7	40.2	.488	51.9	42.8	.515	50.4	40.2	.364	50.0	38.3	.354
1932	50.8	40.0	.347	53.3	38.8	.380	52.3	43.1	.390	50.2	37.8	.286	50.6	35.4	.274

Year	TEXTILES—Continued						BOOTS AND SHOES								
	Hosiery and underwear—Continued						Cutters, vamp, and whole shoe, hand, male			Treers, hand and machine, male			Vampers, female		
	Finishers, underwear, female			General index [5]											
	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour
			Dol.						Dol.			Dol.			Dol.
1907	58.7	(1)	0.158	(1)	(1)	(1)	54.9	(1)	0.325	54.7	(1)	0.305	55.7	(1)	0.246
1910	57.9	(1)	.150	104.2	(1)	82.0	56.3	(1)	.319	55.9	(1)	.259	56.9	(1)	.238
1911	57.9	(1)	.148	103.8	(1)	83.7	56.2	(1)	.313	56.0	(1)	.267	56.5	(1)	.238
1913	54.7	(1)	.184	100.0	(1)	100.0	54.5	(1)	.351	55.3	(1)	.282	54.7	(1)	.246
1919	51.9	(1)	.297	94.2	(1)	183.1	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1920	(1)	(1)	(1)	(1)	(1)	(1)	47.8	(1)	.829	48.3	(1)	.677	48.8	(1)	.506
1922	50.2	(1)	.327	91.9	(1)	213.0	48.3	(1)	.787	48.6	(1)	.577	49.0	(1)	.480
1924	49.8	(1)	.377	91.3	(1)	246.1	48.4	(1)	.838	48.8	(1)	.624	49.4	(1)	.519
1926	50.3	42.3	.358	92.4	100.0	266.6	48.9	44.7	.808	49.2	47.5	.611	49.1	45.7	.531
1928	50.2	41.4	.341	92.4	99.3	267.2	48.6	44.8	.824	49.2	45.6	.624	49.3	45.2	.505
1930	50.5	39.4	.341	93.1	90.0	273.8	48.7	42.0	.796	49.1	43.0	.563	49.1	41.7	.465
1932	50.8	36.9	.262	93.0	87.6	213.6	48.9	40.3	.634	49.3	42.5	.433	49.0	39.2	.355

For footnotes, see p. 312.

No. 343.—Average Hours and Earnings in Manufacturing Industries—Continued

BOOTS AND SHOES—Continued

Year	Bed-machine operators, male: Average hours per week: Full time	Bed-machine operators, male: Average hours per week: Actually worked	Bed-machine operators, male: Average earnings per hour	Top stitchers, female [3]: Average hours per week: Full time	Top stitchers, female [3]: Average hours per week: Actually worked	Top stitchers, female [3]: Average earnings per hour	Edge setters, male: Average hours per week: Full time	Edge setters, male: Average hours per week: Actually worked	Edge setters, male: Average earnings per hour	Edge trimmers, male: Average hours per week: Full time	Edge trimmers, male: Average hours per week: Actually worked	Edge trimmers, male: Average earnings per hour	General index [3]: Average hours per week: Full time	General index [3]: Average hours per week: Actually worked	General index [3]: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			
1907	54.7	(1)	0.350	48.0	(1)	0.185	56.0	(1)	0.400	55.3	(1)	0.404	(1)	(1)	(1)
1910	56.4	(1)	.311	56.3	(1)	.188	56.3	(1)	.373	56.4	(1)	.382	102.7	(1)	92.0
1911	56.1	(1)	.321	56.9	(1)	.194	56.3	(1)	.380	56.5	(1)	.389	102.4	(1)	93.9
1913	55.2	(1)	.330	54.6	(1)	.210	55.3	(1)	.411	55.4	(1)	.410	100.0	(1)	100.0
1920	48.7	(1)	.789	48.5	(1)	.448	48.7	(1)	.873	48.7	(1)	.904	88.2	(1)	232.0
1922	48.9	(1)	.668	48.8	(1)	.433	48.9	(1)	.757	48.9	(1)	.764	88.4	(1)	207.9
1924	49.1	(1)	.692	49.3	(1)	.462	49.1	(1)	.756	49.1	(1)	.767	88.9	(1)	214.1
1926	49.1	46.5	.700	49.3	44.0	.486	49.1	45.8	.766	49.2	45.7	.785	88.9	100.0	219.1
1928	49.2	45.0	.682	49.4	44.3	.451	49.1	44.1	.755	49.1	44.7	.764	89.2	98.5	220.3
1930	49.1	42.1	.657	49.1	41.5	.419	49.0	41.6	.706	49.1	41.7	.722	88.8	93.2	212.0
1932	49.1	40.4	.515	49.0	40.5	.338	49.0	39.3	.551	49.1	39.3	.572	88.8	88.8	171.2

LUMBER (SAWMILLS)

Year	Setters: Average hours per week: Full time	Setters: Average hours per week: Actually worked	Setters: Average earnings per hour	Sawyers, head, band: Average hours per week: Full time	Sawyers, head, band: Average hours per week: Actually worked	Sawyers, head, band: Average earnings per hour	Edgermen: Average hours per week: Full time	Edgermen: Average hours per week: Actually worked	Edgermen: Average earnings per hour	Laborers: Average hours per week: Full time	Laborers: Average hours per week: Actually worked	Laborers: Average earnings per hour	General index [3]: Average hours per week: Full time	General index [3]: Average hours per week: Actually worked	General index [3]: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			
1907	(1)	(1)	(1)	60.8	(1)	0.490	60.7	(1)	0.254	60.5	(1)	0.183	(1)	(1)	(1)
1910	(1)	(1)	(1)	61.2	(1)	.543	61.2	(1)	.255	61.3	(1)	.166	100.3	(1)	97.3
1913	61.0	(1)	0.258	60.9	(1)	.557	61.0	(1)	.268	61.1	(1)	.171	100.0	(1)	100.0
1915	61.2	(1)	.239	61.0	(1)	.539	61.0	(1)	.252	61.3	(1)	.157	100.0	(1)	91.4
1919	57.0	(1)	.446	57.5	(1)	.768	57.5	(1)	.450	57.1	(1)	.345	91.8	(1)	194.6
1921	57.6	(1)	.412	57.8	(1)	.797	57.5	(1)	.437	57.2	(1)	.285	93.6	(1)	166.5
1923	57.0	(1)	.474	57.0	(1)	.883	57.1	(1)	.492	57.5	(1)	.310	93.8	(1)	180.5
1925	57.5	(1)	.458	57.7	(1)	.877	57.8	(1)	.468	57.5	(1)	.309	93.8	(1)	178.0
1928	56.5	52.7	.468	56.7	54.4	.887	56.7	52.3	.470	56.9	49.6	.303	91.3	(1)	184.9
1930	56.5	48.8	.451	55.9	49.7	.886	56.4	49.4	.461	56.6	46.8	.291	91.2	(1)	179.0
1932	55.8	40.5	.319	55.6	40.0	.652	55.7	40.9	.324	56.0	38.0	.205	90.0	(1)	127.6

FURNITURE

Year	Machine hands, male: Average hours per week: Full time	Machine hands, male: Average hours per week: Actually worked	Machine hands, male: Average earnings per hour	Veneerers, male: Average hours per week: Full time	Veneerers, male: Average hours per week: Actually worked	Veneerers, male: Average earnings per hour	Assemblers and cabinet makers, male: Average hours per week: Full time	Assemblers and cabinet makers, male: Average hours per week: Actually worked	Assemblers and cabinet makers, male: Average earnings per hour	Upholsterers, male: Average hours per week: Full time	Upholsterers, male: Average hours per week: Actually worked	Upholsterers, male: Average earnings per hour	General index [3]: Average hours per week: Full time	General index [3]: Average hours per week: Actually worked	General index [3]: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.			
1907	58.2	(1)	0.211	(1)	(1)	(1)	[9] 56.7	(1)	[9] 0.235	53.6	(1)	0.300	(1)	(1)	(1)
1910	58.7	(1)	.212	58.8	(1)	0.200	58.0	(1)	.228	55.0	(1)	.297	101.4	(1)	98.6
1912	58.5	(1)	.211	58.3	(1)	.213	58.1	(1)	.223	56.4	(1)	.291	101.4	(1)	97.3
1913	57.8	(1)	.217	57.3	(1)	.217	57.2	(1)	.227	56.2	(1)	.295	100.0	(1)	100.0
1915	57.5	(1)	.223	57.0	(1)	.218	57.1	(1)	.235	55.3	(1)	.312	99.5	(1)	103.2
1929	52.4	51.4	.512	52.5	52.7	.454	52.1	50.8	.560	50.1	46.5	.724	89.9	(1)	236.3
1931	52.1	41.5	.428	52.5	43.4	.376	51.9	42.0	.445	50.3	34.5	.538	89.8	(1)	198.2

IRON AND STEEL

Blast furnaces

Year	Stockers: Average hours per week: Full time	Stockers: Average hours per week: Actually worked	Stockers: Average earnings per hour	Larry men: Average hours per week: Full time	Larry men: Average hours per week: Actually worked	Larry men: Average earnings per hour	Blowers: Average hours per week: Full time	Blowers: Average hours per week: Actually worked	Blowers: Average earnings per hour	Keepers: Average hours per week: Full time	Keepers: Average hours per week: Actually worked	Keepers: Average earnings per hour	Keepers' helpers: Average earnings per hour
			Dol.			Dol.			Dol.			Dol.	Dol.
1907	81.4	(1)	0.170	84.0	(1)	0.195	84.0	(1)	0.300	84.0	(1)	0.218	84.0	(1)	0.165
1913	78.0	(1)	.192	82.3	(1)	.217	82.2	(1)	.332	82.0	(1)	.235	82.2	(1)	.186
1920	75.5	(1)	.527	73.8	(1)	.586	73.2	(1)	.868	73.3	(1)	.635	74.5	(1)	.522
1922	74.4	(1)	.352	75.1	(1)	.402	72.4	(1)	.678	75.3	(1)	.420	75.3	(1)	.349
1924	60.5	(1)	.465	57.7	(1)	.548	58.3	(1)	.889	57.1	(1)	.579	58.6	(1)	.475
1926	60.1	(1)	.465	57.9	(1)	.551	58.5	(1)	.902	57.4	(1)	.577	59.1	(1)	.471
1929	62.6	(1)	.451	58.5	(1)	.552	58.7	(1)	.918	57.7	(1)	.579	59.5	(1)	.486
1931	57.2	37.8	.485	55.3	36.5	.563	55.8	48.4	.929	55.2	39.3	.573	56.2	36.7	.492
1933 [2]	55.4	19.6	.374	54.5	22.9	.430	54.8	42.3	.727	54.2	24.0	.439	53.9	21.2	.382

For footnotes, see p. 312.

No. 343.—Average Hours and Earnings in Manufacturing Industries—Continued

Year	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour
	Full time	Actually worked		Full time	Actually worked		Full time	Actually worked		Full time	Actually worked		Full time	Actually worked	
	IRON AND STEEL—Continued														
	Blast furnaces—Continued						Open-hearth furnaces								
	Laborers			General index [5]			Stockers			Charging-machine operators			Melters' helpers, first		
			Dol.						Dol.			Dol.			Dol.
1907	75.8	(1)	0.146	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1910	------	------	------	------	------	------	76.8	(1)	0.177	76.8	(1)	0.294	77.7	(1)	0.416
1913	72.5	(1)	.171	100.0	(1)	100.0	77.8	(1)	.197	78.0	(1)	.335	77.1	(1)	.440
1920	72.3	(1)	.474	93.8	(1)	278.5	70.9	(1)	.573	67.2	(1)	.895	69.4	(1)	1.089
1922	67.7	(1)	.315	94.0	(1)	194.1	73.9	(1)	.379	72.2	(1)	.625	71.4	(1)	.775
1924	62.4	(1)	.401	77.6	(1)	253.7	58.2	(1)	.540	56.3	(1)	.863	55.5	(1)	1.064
1926	62.4	(1)	.389	77.8	(1)	252.2	57.8	(1)	.535	55.7	(1)	.951	55.3	(1)	1.170
1929	63.8	(1)	.373	78.9	(1)	257.6	57.9	(1)	.560	56.2	(1)	.958	55.9	(1)	1.247
1931	59.5	33.6	.384	74.4	(1)	268.8	54.5	39.1	.527	53.2	37.6	.879	53.1	35.5	1.239
1933 [2]	57.2	20.3	.289	71.7	(1)	216.6	54.3	22.3	.376	52.4	22.9	.629	52.4	19.7	.867
	Open-hearth furnaces—Continued												Bar mills		
	Steel pourers			Ladle cranemen			Laborers			General index [5]			Stockers		
			Dol.			Dol.			Dol.						Dol.
1907	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	64.4	(1)	0.178
1910	75.3	(1)	0.308	77.2	(1)	0.294	74.5	(1)	0.157	(1)	(1)	(1)	59.0	(1)	.250
1913	77.0	(1)	.370	77.2	(1)	.341	76.2	(1)	.187	100.0	(1)	100.0	60.2	(1)	.216
1920	68.0	(1)	.929	68.3	(1)	.837	68.5	(1)	.525	89.6	(1)	283.1	61.5	(1)	.612
1922	70.4	(1)	.645	72.9	(1)	.588	67.9	(1)	.354	92.3	(1)	202.5	59.2	(1)	.420
1924	56.5	(1)	.837	55.2	(1)	.832	59.0	(1)	.434	75.6	(1)	267.9	56.0	(1)	.502
1926	55.6	(1)	.889	54.9	(1)	.900	59.2	(1)	.429	74.4	(1)	285.7	54.2	(1)	.519
1929	56.3	(1)	.927	55.8	(1)	.941	60.5	(1)	.433	75.2	(1)	301.3	53.5	(1)	.530
1931	53.5	38.1	.851	53.2	37.7	.846	57.5	31.7	.436	70.1	(1)	296.6	54.2	31.7	.455
1933 [2]	53.1	24.6	.575	52.4	20.5	.566	54.9	15.7	.330	69.5	(1)	216.5	52.2	15.8	.326
	Bar mills—Continued														
	Rollers			Roughers			Finishers			Hotbed men			Laborers		
			Dol.			Dol.			Dol.			Dol.			Dol.
1907	65.5	(1)	1.013	61.5	(1)	0.434	65.9	(1)	0.309	63.3	(1)	0.189	68.3	(1)	0.153
1910	62.4	(1)	.928	61.0	(1)	.402	64.0	(1)	.323	62.9	(1)	.200	67.8	(1)	.160
1913	59.3	(1)	.985	59.8	(1)	.436	59.6	(1)	.350	60.3	(1)	.217	62.5	(1)	.169
1920	59.5	(1)	1.949	57.8	(1)	1.034	60.0	(1)	.866	58.8	(1)	.618	65.1	(1)	.506
1922	58.4	(1)	1.416	57.3	(1)	.709	57.9	(1)	.638	58.3	(1)	.439	64.5	(1)	.316
1924	53.9	(1)	1.577	54.7	(1)	.810	54.0	(1)	.749	53.8	(1)	.538	57.5	(1)	.392
1926	53.2	(1)	1.699	53.2	(1)	.847	53.0	(1)	.848	53.0	(1)	.556	55.0	(1)	.411
1929	55.0	(1)	1.822	55.8	(1)	.887	53.9	(1)	.952	54.5	(1)	.601	56.0	(1)	.399
1931	55.4	37.8	1.542	56.7	32.8	.791	54.4	31.5	.864	54.1	27.9	.578	54.2	28.1	.394
1933 [2]	54.5	23.8	.965	55.8	17.9	.536	55.0	17.7	.500	55.5	15.2	.349	53.7	14.6	.305
	Bar mills—Contd.			Tin-plate mills											
	General index [5]			Rollers			Roughers			Doublers, mechanical [10]			Heaters, level-handed		
						Dol.			Dol.			Dol.			Dol.
1907	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
1910	(1)	(1)	(1)	42.7	(1)	1.025	42.7	(1)	0.425	42.7	(1)	0.632	(1)	(1)	(1)
1913	100.0	(1)	100.0	42.7	(1)	1.139	42.7	(1)	.533	42.7	(1)	.740	42.7	(1)	0.595
1920	100.5	(1)	247.6	42.7	(1)	2.542	42.7	(1)	1.363	42.7	(1)	1.655	42.7	(1)	1.465
1922	99.5	(1)	168.8	42.7	(1)	1.701	42.7	(1)	.893	42.7	(1)	1.046	42.7	(1)	1.001
1924	90.4	(1)	203.1	42.7	(1)	2.099	42.7	(1)	1.150	42.7	(1)	1.243	42.7	(1)	1.229
1926	88.9	(1)	205.2	42.7	(1)	1.635	42.7	(1)	.902	42.7	(1)	.787	42.7	(1)	.917
1929	90.4	(1)	217.0	42.7	(1)	1.778	42.7	(1)	1.014	42.7	(1)	.679	42.7	(1)	.982
1931	89.4	(1)	204.2	42.7	34.4	1.737	42.7	32.4	.989	42.7	34.7	.749	42.7	35.4	.942
1933 [2]	88.0	(1)	147.6	42.6	28.6	1.250	42.6	28.8	.709	42.6	27.2	.544	42.6	30.9	.721

For footnotes, see p. 312.

No. 343.—Average Hours and Earnings in Manufacturing Industries—Continued

Year	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour
	Full time	Actually worked		Full time	Actually worked		Full time	Actually worked		Full time	Actually worked		Full time	Actually worked	
	IRON AND STEEL—Continued														
	Tin-plate mills—Continued									Sheet mills					
	Tinners, hand			Assorters, female			General index [5]			Sheet heaters			Rollers, hand mills		
			Dol.			Dol.						Dol.			Dol.
1910	42.9	(1)	0.402	49.7	(1)	0.128	(1)	(1)	(1)	42.7	(1)	0.883	42.7	(1)	1.242
1913	43.6	(1)	.433	53.7	(1)	.163	100.0	(1)	100.0	42.8	(1)	.993	42.8	(1)	1.476
1920	42.9	(1)	1.114	46.9	(1)	.465	109.8	(1)	227.6	43.4	(1)	2.151	43.4	(1)	2.976
1922	43.3	(1)	.795	43.3	(1)	.365	108.2	(1)	155.9	43.3	(1)	1.381	43.3	(1)	1.895
1924	43.4	(1)	.976	43.6	(1)	.422	105.9	(1)	190.6	43.4	(1)	1.559	43.4	(1)	2.148
1926	43.5	(1)	.840	43.4	(1)	.384	104.3	(1)	168.8	43.3	(1)	1.404	43.3	(1)	1.956
1929	42.7	(1)	.907	46.1	(1)	.369	102.8	(1)	175.5	43.3	(1)	1.432	43.4	(1)	1.979
1931	42.7	33.9	.899	45.5	38.1	.380	102.0	(1)	171.2	43.5	24.6	1.287	43.5	24.1	1.811
1933 [2]	43.8	34.1	.654	45.2	38.9	.295	101.7	(1)	124.0	43.4	16.9	.828	42.3	18.1	1.209
	Sheet mills—Continued														
	Roughers			Shearmen			Openers			Laborers			General index [5]		
			Dol.			Dol.			Dol.			Dol.			
1910	42.7	(1)	0.558	46.0	(1)	0.689	46.0	(1)	0.274	63.1	(1)	0.164	(1)	(1)	(1)
1913	42.8	(1)	.642	42.9	(1)	.814	45.4	(1)	.279	64.9	(1)	.190	100.0	(1)	100.0
1920	43.4	(1)	1.584	43.5	(1)	1.891	44.0	(1)	1.188	59.5	(1)	.536	96.2	(1)	215.1
1922	43.3	(1)	.994	43.3	(1)	1.175	43.5	(1)	.732	65.2	(1)	.356	97.7	(1)	143.7
1924	43.4	(1)	1.150	43.7	(1)	1.289	43.5	(1)	.806	64.6	(1)	.420	96.0	(1)	167.5
1926	43.3	(1)	1.037	43.6	(1)	1.222	43.5	(1)	.741	56.6	(1)	.475	93.5	(1)	157.1
1929	43.4	(1)	1.067	43.5	(1)	1.227	43.2	(1)	.754	60.7	(1)	.429	93.5	(1)	164.2
1931	43.6	23.5	.952	43.5	26.3	1.052	43.8	20.0	.659	57.7	31.0	.428	91.4	(1)	154.7
1933 [2]	40.5	16.0	.744	41.9	20.8	.702	38.4	16.2	.442	54.2	23.8	.330	89.7	(1)	97.9
	GENERAL INDEXES FOR OTHER BRANCHES—IRON AND STEEL [11]														
	Bessemer converters			Puddling mills			Blooming mills			Plate mills			Standard-rail mills		
1913 [12]	100.0	(1)	100.0	100.0	(1)	100.0	100.0	(1)	100.0	100.0	(1)	100.0	100.0	(1)	100.0
1920	100.4	(1)	238.4	101.3	(1)	269.8	92.5	(1)	248.7	98.4	(1)	263.1	86.3	(1)	248.8
1922	98.1	(1)	165.5	97.9	(1)	151.2	93.2	(1)	178.1	94.7	(1)	186.7	86.7	(1)	185.0
1924	74.7	(1)	219.7	104.7	(1)	219.8	74.8	(1)	231.3	81.8	(1)	220.4	81.0	(1)	225.6
1926	75.1	(1)	225.7	97.9	(1)	200.3	74.2	(1)	236.6	79.8	(1)	237.6	78.3	(1)	234.3
1929	76.7	(1)	226.4	94.5	(1)	209.1	75.3	(1)	251.3	83.0	(1)	250.6	79.0	(1)	247.2
1931	76.1	(1)	233.8	99.6	(1)	180.5	72.1	(1)	250.6	81.1	(1)	245.9	77.4	(1)	241.3
1933 [2]	75.3	(1)	172.5	99.2	(1)	144.5	71.9	(1)	184.2	76.5	(1)	176.1	75.0	(1)	205.9
	MOTOR VEHICLES														
	Machinists, male			Gear-cutter operators, male			Grinding-machine operators, male			Sewing-machine operators, female			Top builders and trimmers, male		
			Dol.			Dol.			Dol.			Dol.			Dol.
1922	50.0	(1)	0.715	50.2	(1)	0.678	50.0	(1)	0.710	50.5	(1)	0.442	50.8	(1)	0.778
1925	50.0	(1)	.806	50.6	(1)	.746	50.1	(1)	.765	50.7	(1)	.472	50.6	(1)	.808
1928	47.9	49.5	.844	49.5	50.1	.760	48.8	48.0	.792	51.0	37.5	.513	49.6	41.0	.840
1930	46.9	36.6	.851	48.3	34.8	.740	47.6	33.3	.780	51.2	31.2	.461	50.0	31.8	.751
1932	47.9	38.3	.703	48.7	36.0	.623	47.7	31.7	.669	51.3	34.4	.366	49.0	33.0	.603
1934 [2 13]	(1)	40.7	.790	(1)	37.4	.778	(1)	38.6	.754	(1)	37.8	.510	(1)	39.8	.769
1934 [2 14]	(1)	37.5	.803	(1)	31.5	.755	(1)	33.9	.770	(1)	27.9	.531	(1)	30.2	.784
	Assemblers, motor, male			Assemblers, chassis and final, male			Tool and die makers, male			Employees in all occupations [5]					
										Males			Females		
			Dol.			Dol.			Dol.			Dol.			Dol.
1922	50.0	(1)	0.661	50.3	(1)	0.644	50.0	(1)	0.769	50.1	(1)	0.662	50.3	(1)	0.438
1925	49.8	(1)	.747	50.0	(1)	.721	50.2	(1)	.875	50.3	(1)	.729	50.1	(1)	.467
1928	50.1	47.1	.762	49.7	43.7	.768	48.8	51.0	.919	49.4	47.0	.756	50.3	41.1	.487
1930	48.8	31.8	.725	48.0	32.6	.681	49.9	42.9	.887	48.7	34.6	.733	50.6	31.8	.436
1932	48.4	29.3	.632	49.0	26.9	.570	47.0	39.4	.785	48.3	31.9	.638	50.5	30.7	.361
1934 [2 13]	(1)	38.4	.745	(1)	37.6	.720	(1)	39.2	.899	(1)	39.1	.727	(1)	38.2	.519
1934 [2 14]	(1)	32.3	.753	(1)	31.1	.733	(1)	40.8	.933	(1)	34.1	.742	(1)	34.6	.531

For footnotes, see p. 312.

No. 343.—Average Hours and Earnings in Manufacturing Industries—Continued

Year	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour	Average hours per week		Average earnings per hour
	Full time	Actually worked		Full time	Actually worked		Full time	Actually worked		Full time	Actually worked		Full time	Actually worked	
	FOUNDRIES														
	Pattern makers, male			Core makers, male			Core makers, female			Laborers, male			Molders, hand, floor, male		
			Dol.			Dol.			Dol.			Dol.			Dol.
1923	51.1	(1)	0.750	51.4	(1)	0.690	49.2	(1)	0.431	53.5	(1)	0.428	51.2	(1)	0.729
1925	50.4	(1)	.804	50.3	(1)	.734	48.6	(1)	.444	52.5	(1)	.481	50.4	(1)	.802
1927	50.3	47.7	.830	50.4	44.3	.755	48.4	40.6	.491	52.1	47.9	.491	49.9	43.8	.820
1929	50.1	48.9	.833	49.9	46.9	.744	49.1	41.6	.469	52.1	50.2	.490	50.0	45.6	.828
1931	49.3	39.8	.834	50.0	31.2	.706	48.6	31.2	.430	50.8	33.6	.460	50.0	29.6	.782
1933 [2]	49.2	38.9	.652	49.0	29.8	.550	48.1	31.5	.324	50.0	27.8	.378	48.9	25.7	.612
	FOUNDRIES—Continued						MACHINE SHOPS								
	Employees in all occupations [5]						Lathe operators, engine, male			Machinists, male			Fitters and bench hands, male		
	Males			Females											
1923	52.4	(1)	0.560	49.3	(1)	0.404	50.9	(1)	0.633	50.0	(1)	0.683	49.9	(1)	0.616
1925	51.5	(1)	.612	49.0	(1)	.427	50.3	(1)	.663	49.9	(1)	.702	49.8	(1)	.643
1927	51.1	46.6	.626	49.0	41.2	.459	50.2	48.0	.695	49.5	47.7	.728	49.5	48.1	.662
1929	51.0	48.8	.625	49.7	42.3	.451	50.3	50.2	.717	49.8	50.2	.739	49.8	50.5	.677
1931	50.3	33.5	.601	48.7	29.4	.422	50.0	36.8	.706	49.0	40.4	.733	49.5	38.0	.666
1933 [2]	49.4	29.4	.483	48.3	30.2	.314	48.8	33.5	.578	48.3	36.7	.606	48.5	33.7	.562
	MACHINE SHOPS—Continued														
	Assemblers, male			Laborers, male			Tool makers, male			Employees in all occupations [5]					
										Males			Females		
1923	50.6	(1)	0.575	51.1	(1)	0.418	50.4	(1)	0.693	50.8	(1)	0.560	49.1	(1)	0.366
1925	49.6	(1)	.634	50.6	(1)	.456	50.0	(1)	.727	50.4	(1)	.604	49.3	(1)	.420
1927	50.1	47.9	.653	50.4	48.6	.456	49.7	48.5	.756	50.1	48.3	.629	48.9	44.8	.403
1929	50.1	49.7	.657	50.5	50.5	.469	50.0	50.4	.780	50.3	50.4	.641	49.3	46.1	.399
1931	49.9	37.9	.656	50.3	38.6	.455	49.4	41.9	.758	49.8	38.2	.637	49.2	38.8	.408
1933 [2]	48.3	34.0	.538	48.8	33.0	.379	48.6	36.8	.643	48.5	34.6	.545	47.4	34.2	.351
	SLAUGHTERING AND MEAT PACKING [7]														
	Cattle killing department														
	Headers, male			Leg breakers, male			Floormen or siders, male			Rumpers, male			Gutters and bung droppers, male		
1917	(1)	(1)	0.384	(1)	(1)	0.318	(1)	(1)	0.563	(1)	(1)	0.463	(1)	(1)	0.319
1921	47.6	(1)	.645	47.8	(1)	.574	48.0	(1)	.848	47.8	(1)	.743	47.8	(1)	.578
1923	52.1	(1)	.627	52.8	(1)	.529	52.6	(1)	.849	52.3	(1)	.740	52.5	(1)	.554
1925	50.0	(1)	.641	49.9	(1)	.558	49.9	(1)	.856	50.1	(1)	.749	50.1	(1)	.575
1927	49.0	44.4	.662	49.1	44.1	.556	49.2	43.9	.877	49.6	44.4	.761	49.0	44.1	.587
1929	48.8	44.8	.644	48.7	43.1	.580	48.7	44.1	.882	49.1	44.9	.755	48.9	44.6	.598
1931	49.1	41.9	.592	48.7	40.7	.512	48.9	41.2	.800	49.1	41.8	.684	49.1	41.4	.517
	Cattle killing department—Contd.						Hog killing department								
	Splitters, male			Laborers, male [15]			Stickers, male			Scalders, male [16]			Shavers and scrapers, male		
1917	(1)	(1)	0.591	(1)	(1)	0.238	(1)	(1)	0.357	(1)	(1)	0.295	(1)	(1)	0.290
1921	47.8	(1)	.855	47.8	(1)	.471	49.6	(1)	.611	48.8	(1)	.516	48.9	(1)	.502
1923	52.5	(1)	.857	52.2	(1)	.436	53.0	(1)	.652	52.1	(1)	.496	52.5	(1)	.497
1925	50.0	(1)	.855	50.2	(1)	.442	51.8	(1)	.627	51.9	(1)	.514	51.4	(1)	.523
1927	49.1	45.0	.876	49.4	44.1	.451	50.3	48.1	.631	50.5	46.2	.521	50.6	44.1	.535
1929	48.7	45.8	.879	48.6	42.9	.466	50.0	48.2	.645	50.2	47.7	.516	49.9	45.2	.528
1931	48.9	42.1	.780	49.0	42.3	.408	50.0	44.8	.565	50.4	46.4	.475	50.1	43.1	.480

For footnotes, see p. 312.

No. 343.—Average Hours and Earnings in Manufacturing Industries—Con

Year	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour	Average hours per week: Full time	Average hours per week: Actually worked	Average earnings per hour
	SLAUGHTERING AND MEAT PACKING—Continued														
	Hog killing department—Continued									Employees in all occupations, 13 departments [5] [17]					
	Gutters, bung droppers, rippers open, male			Splitters, male			Laborers, male [13]			Males			Females		
			Dol.			Dol.			Dol.			Dol.			Dol.
1917	(1)	(1)	0.337	(1)	(1)	0.364	(1)	(1)	0.237	(1)	(1)	0.271	(1)	(1)	0.178
1921	48.7	(1)	.584	48.8	(1)	.621	48.8	(1)	.451	48.4	(1)	.511	48.3	(1)	.365
1923	52.4	(1)	.572	52.3	(1)	.627	52.2	(1)	.444	52.2	(1)	.499	52.8	(1)	.361
1925	51.9	(1)	.590	51.5	(1)	.635	51.7	(1)	.433	50.2	(1)	.507	49.4	(1)	.359
1927	50.4	44.5	.589	50.1	46.3	.630	51.0	44.7	.442	49.5	47.7	.517	49.1	44.4	.363
1929	50.0	47.7	.602	49.9	50.1	.654	49.8	46.4	.443	49.3	48.5	.525	48.9	44.9	.369
1931	50.3	45.6	.527	49.8	46.5	.583	49.6	44.8	.400	49.2	45.9	.470	48.9	42.4	.321
	BAKERIES [7]														
	Bread department														
	Mixers, male			Bench hands, or hand bakers, male			Dividers or scalers and rounders, male			Molders, male			Oven men [19]		
1931	51.7	51.5	0.676	51.0	48.0	0.659	51.7	50.7	0.562	51.8	50.1	0.538	51.3	49.5	0.666
1933 [2]	(1)	50.5	.564	(1)	43.6	.517	(1)	49.6	.512	(1)	49.0	.468	(1)	48.8	.560
1933 [3]	(1)	44.4	.636	(1)	39.5	.559	(1)	43.3	.548	(1)	41.9	.517	(1)	42.8	.628
1934	(1)	40.3	.703	(1)	35.5	.638	(1)	39.1	.619	(1)	38.2	.583	(1)	39.0	.701
	Bread department—Continued									Cake and other sweet-goods dept. [20]					
	Packers, male			Employees in all occupations [5]						Cake makers, male			Finishers, male		
				Males			Females								
1931	52.5	50.9	0.483	55.0	54.0	0.553	50.1	46.7	0.298	51.9	49.8	0.578	50.6	49.4	0.447
1933 [2]	(1)	47.3	.393	(1)	51.6	.469	(1)	43.4	.330	(1)	48.0	.533	(1)	47.4	.459
1933 [3]	(1)	41.2	.448	(1)	47.1	.523	(1)	40.7	.376	(1)	43.3	.587	(1)	41.8	.531
1934	(1)	38.1	.488	(1)	44.8	.570	(1)	39.2	.392	(1)	40.8	.634	(1)	40.8	.539
	Cake and other sweet-goods department—Continued														
	Finishers, female			Wrappers and packers, male			Wrappers and packers, female			Employees in all occupations [5]					
										Males			Females		
1931	50.0	46.1	0.272	52.1	51.3	0.366	50.1	42.4	0.278	51.8	49.9	0.486	50.1	44.1	0.275
1933 [2]	(1)	40.4	.260	(1)	41.5	.366	(1)	41.3	.249	(1)	47.9	.489	(1)	42.0	.274
1933 [3]	(1)	36.2	.319	(1)	38.6	.415	(1)	38.1	.311	(1)	43.7	.531	(1)	38.5	.330
1934	(1)	35.7	.355	(1)	37.6	.450	(1)	35.0	.346	(1)	41.2	.565	(1)	36.0	.364

[1] Data are not available or the general index was not computed.
[2] Data are for a pay period before the adoption of the National Recovery Administration code.
[3] Data are for a pay period after the adoption of the National Recovery Administration code.
[4] Figures for 1907 to 1930 inclusive (except those for 1930 in italics), exclude the southern mills; the figures for 1930 in italics and those for later years include the southern mills.
[5] Covers all occupations of industry or branch of industry indicated, including those not here shown.
[6] Beginning 1933 includes all dyehouse laborers theretofore included with the various textile industries.
[7] Data available only for years shown, see head note. [8] Including undertrimmers and barber trimmers.
[9] Cabinetmakers only; data are not available for assemblers. [10] Includes doublers, hand, prior to 1929.
[11] Indexes not computed prior to 1913; however, earlier basic data are available except for puddling mills.
[12] For puddling mills, 1914 data. [13] Data are for 1 week in April 1934, the period of high production.
[14] Data are for 1 week in September 1934, the period of low production.
[15] Includes floor cleaners, mark heads, spread cattle, tie guts, laundrymen, taggers, etc.
[16] Includes tubmen, droppers, gamb cutters, polemen, and duckers.
[17] Includes cattle, hog, sheep, and calf killing, offal, hide, casing, cutting of fresh beef, cutting of fresh pork, lard and oleo oil, sausage, cured meat, canning, and maintenance and repair departments.
[18] Includes drivers, penners, steamers, singers, washers, aitchbone breakers, and toe pullers.
[19] Includes oven men for the "Cake and other sweet-goods department" not reported separately since 1931.
[20] Data for 1931 do not include pies, which were added for the first time in 1933.

Source: Bureau of Labor Statistics, Department of Labor.

No. 344.—AVERAGE HOURS ACTUALLY WORKED IN 1 WEEK AND AVERAGE EARNINGS PER HOUR IN SUNDRY INDUSTRIES

NOTE.—Data are for a representative pay period of 1 week in each year. Data are not collected annually, but at intervals, and comparable figures are available only for the years shown. All averages are weighted according to the number of employees in each occupation in the industry

Industry and year	Hours, average		Earnings, average	
	Males	Females	Males	Females
Air transportation:				
Ground personnel:			*Cents*	*Cents*
1931	[1] 49.5	[1] 48.0	64.5	49.7
1933 [2]	[1] 49.8	[1] 46.8	61.3	45.7
Pilots: [3]				
1931	80.4	-------	708.4	-------
1933 [2]	85.3	-------	736.1	-------
Copilots: [4]				
1931	170.0	-------	134.1	-------
1933 [2]	124.9	-------	185.1	-------
Motor transportation (intercity only), 1933 [2]:				
Bus	50.4	45.4	54.1	37.9
Truck	50.7	44.8	45.7	36.7
Tobacco:				
Cigarettes:				
1930	46.8	43.4	37.8	26.9
1933 [2]	34.9	28.9	37.0	23.1
1935 [5]	34.6	32.6	48.4	37.3
Smoking, chewing, and snuff:				
1933 [2]	37.5	36.6	41.6	28.3
1935 [5]	36.6	33.5	49.6	36.7
Glass, 1932	37.3	37.9	49.0	24.9
Leather, 1932	42.1	40.9	49.3	30.3
Motor vehicle parts and equipment: [5]				
1934 [6]	38.0	34.9	64.9	46.0
1934 [7]	32.0	29.1	66.1	46.0
Petroleum, 1934: [5]				
Drilling and production	36.2	36.8	78.0	68.4
Pipe lines	35.3	37.7	77.8	61.3
Refining	35.5	38.3	75.2	58.8
Portland cement:				
1929	56.7	46.6	51.8	38.9
1932	45.8	27.2	40.1	38.6
Pottery:				
Semivitreous:				
1925	[8] 74.4	[8] 69.0	70.5	38.5
1932	[8] 59.3	[8] 54.6	53.5	29.2
Vitreous:				
1925	[8] 83.5	[8] 77.4	63.8	32.9
1932	[8] 45.8	[8] 40.7	54.6	26.4
Rayon and other synthetic textiles:				
1930	46.7	42.3	50.4	34.4
1932	47.9	44.3	40.8	28.3

[1] Average credited hours per week. [2] Data are for a pay period before adoption of N. R. A. code.
[3] Average hours actually flown in 1 month and average earnings per flight hour.
[4] Average full-time hours in 1 month and earnings per hour on duty regardless of actual flight.
[5] Pay period after adoption of N. R. A. code. [6] Data for week in April, the high production period.
[7] Data for week in September, the low production period. [8] Average actual hours worked in 2 weeks

No. 345.—AVERAGE FULL-TIME HOURS OF LABOR PER WEEK AND AVERAGE EARNINGS PER HOUR IN MINING INDUSTRIES

NOTE.—Nearly all coal mines operate on a 48-hour week, but contract miners and their laborers in anthracite mines, and loaders, hand or pick miners, and machine miners in bituminous mines, generally work less hours. General averages are weighted according to the number of employees in each occupation in the industry. Data are for a representative pay period of 1 week in each year; they are not collected annually, but at intervals, and comparable figures are available only for the years shown, except for bituminous coal mines, for which 1926 data are also shown in the 1933 Statistical Abstract

Industry and occupation	1924	1931
Metalliferous mines:		
Average hours—		
General average	53.0	51.6
Drilling-machine operators—		
Company	51.4	49.5
Contract	48.6	49.1
Muckers	52.7	50.2
Timbermen	51.5	48.7
Topmen	55.3	54.9
Trammers	50.9	48.9
Average earnings—	*Cents*	*Cents*
General average	55.9	55.9
Drilling-machine operators—		
Company	59.4	64.6
Contract	72.9	69.4
Muckers	55.4	50.5
Timbermen	60.4	60.2
Topmen	42.8	40.0
Trammers	55.0	52.4

Industry and occupation	1922	1924	1929	1931	1933 [1]
Anthracite: [2]					
Average earnings—	*Cents*	*Cents*	*Cents*	*Cents*	*Cents*
General average	75.3	85.7	-------	82.4	-------
Company miners	69.7	79.5	-------	76.9	-------
Laborers	62.9	69.6	-------	68.5	-------
Contract miners	117.3	143.2	-------	118.0	-------
Laborers	82.9	97.1	-------	83.3	-------
Drivers	58.0	63.2	-------	64.5	-------
Trackmen	67.5	74.1	-------	74.0	-------
Bituminous coal:					
Average earnings—					
General average [3]	85.3	78.8	65.9	59.8	41.0
Brakemen [2]	77.9	71.0	59.6	57.6	42.1
Drivers [2]	82.4	74.8	63.7	60.2	45.2
Loaders, hand [4]	90.2	81.1	64.8	56.1	36.9
Miners, hand or pick [4]	84.0	80.8	67.3	58.9	37.6
Miners, machine [4]	127.4	116.3	101.8	94.0	62.6
Trackmen [2]	82.6	73.7	63.5	60.8	44.6

[1] Data are for a pay period before the adoption of the National Recovery Administration code.
[2] Based on hours actually worked, excluding lunch time.
[3] Based on a combination of hours at place of work in mine, including lunch time for loaders and miners, and hours actually worked for all other employees.
[4] Based on hours actually worked, plus lunch time.

Source of tables 344 and 345: Bureau of Labor Statistics, Department of Labor.

No. 346.—AVERAGE HOURLY WAGE RATES PAID COMMON LABOR

NOTE.—Rates in cents per hour. Data are based on entrance rates paid unskilled adult males in important industries requiring considerable numbers of common laborers. Some establishments reported two rates—one for the 10-hour and one for the 8-hour day, or one for white and one for colored or Mexican workers; these distinctions have not been maintained in the tabulated data, although it is apparent that the lowest rates are shown for those geographic divisions where there are large numbers of colored or Mexican workers, and the highest, for localities where an 8-hour day is more or less prevalent

Industry and geographic division	July 1—								
	1926	1927	1928	1929	1930	1931	1932	1933	1934
Industries reporting	42.8	42.6	44.9	43.7	43.1	41.2	38.1	35.0	43.0
Automobiles	46.1	46.3	57.2	49.9	48.2	57.7	62.0	46.5	54.9
Brick, tile, and terra cotta	40.7	42.2	39.4	37.8	38.0	33.9	28.9	24.7	36.9
Cement	40.1	39.2	37.2	37.8	37.9	37.2	30.6	29.5	44.7
Electrical machinery, apparatus, and supplies	43.1	44.2	46.0	45.9	44.8	42.9	39.6	37.1	43.5
Foundry and machine-shop products	37.1	37.8	38.4	39.8	39.0	38.2	34.8	31.8	40.1
Iron and steel	42.7	43.2	42.5	42.5	42.1	41.8	31.8	33.6	43.2
Leather	40.9	41.4	42.3	42.2	41.9	39.1	32.9	31.6	39.3
Lumber (sawmills)	33.6	32.2	31.7	32.0	31.6	27.7	21.5	20.8	33.1
Paper and pulp	42.8	42.5	44.3	44.0	43.2	37.2	35.6	32.6	40.3
Petroleum refining	47.9	44.0	45.4	45.7	48.1	47.5	42.1	40.7	52.6
Slaughtering and meat packing	41.5	41.7	42.2	42.0	41.8	41.7	34.6	32.3	43.9
Public utilities [1]	42.0	39.8	42.9	42.8	44.6	44.6	41.5	38.7	41.8
General contracting [2]	47.1	48.2	47.4	48.3	47.0	42.6	39.9	38.3	45.5
United States	42.8	42.6	44.9	43.7	43.1	41.2	38.1	35.0	43.0
New England	47.1	46.7	48.2	48.0	49.5	45.4	40.4	37.1	43.3
Middle Atlantic	45.1	47.2	47.8	46.4	46.1	45.1	40.4	36.7	45.2
East North Central	48.0	46.7	51.6	48.4	47.0	45.2	45.0	38.7	47.0
West North Central	40.1	40.6	41.3	41.8	40.6	42.9	35.8	34.5	43.2
South Atlantic	32.8	31.5	29.4	30.2	32.1	28.9	23.4	25.3	33.6
East South Central	27.6	27.0	26.0	26.8	26.7	25.2	21.0	25.7	34.1
West South Central	32.5	31.8	33.8	35.6	33.0	29.9	23.7	23.4	32.7
Mountain	44.4	44.4	44.0	44.9	45.2	43.1	39.3	42.3	46.4
Pacific	45.9	46.5	46.9	47.9	47.6	43.5	40.2	38.0	46.9

[1] Includes street railways, gas works, waterworks, and electric power and light plants.
[2] Includes building, highway, public works, and railroad construction.

No. 347.—WAGE RATES OF COMMON LABOR IN ROAD BUILDING

NOTE.—Rates in cents per hour. Data from January 1922 through February 1932 compiled from Federal-aid project reports; since then State project reports have been included. Earlier data included reports on farm labor or other forms of common labor closely correlated, as reported to the Department of Agriculture and the Department of Labor

Year and month	United States, average	New England	Middle Atlantic	South Atlantic	East South Central	West South Central	East North Central	West North Central	Mountain	Pacific
1915	20	20	20	14	12	16	21	25	26	26
1918	36	39	38	27	23	28	39	45	44	45
1919	41	41	41	32	28	36	43	53	47	52
1920	49	49	50	37	32	40	53	62	55	60
1921	36	38	35	26	25	28	35	45	46	50
1922	32	39	37	21	20	24	31	31	37	48
1923	38	51	45	25	22	25	39	34	42	54
1924	38	50	45	28	24	27	40	36	41	52
1925	38	46	45	27	25	27	37	38	44	52
1926	39	50	46	30	25	27	38	36	43	52
1927	39	49	47	28	25	30	39	38	45	53
1928	40	50	44	26	26	28	39	38	46	53
1929	39	51	43	27	26	31	40	38	46	53
1930	39	50	42	25	25	28	38	37	47	53
1931	36	45	38	21	20	23	37	36	45	51
1932	32	36	36	19	19	26	37	34	44	48
1933	35	36	36	23	20	28	41	35	44	52
March	32	34	36	21	19	27	40	34	43	50
June	33	33	35	23	20	28	39	34	42	49
September	37	38	36	25	20	28	43	36	44	52
December	38	39	39	25	23	31	45	38	47	58
1934	41	43	42	30	29	34	50	43	54	57
March [1]	42	44	42	31	30	35	50	41	55	57
June	43	43	41	31	30	35	51	42	55	57
September	41	44	42	32	30	34	50	45	56	58
December	40	42	42	32	30	34	52	48	55	57

[1] Increase in wage rates beginning March 1934 was due to provisions of the National Recovery Act, which required State highway departments to fix minimum wage scales.

Sources: Table 346, Bureau of Labor Statistics, Department of Labor; table 347, Bureau of Public Roads, Department of Agriculture.

No. 348.—INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES

NOTE.—Monthly average, 1923-1925=100. Indexes are currently based on monthly reports from establishments representing 90 industries beginning 1931 (52 to 62 industries in earlier years) and employing approximately 50 percent of all factory employees in the United States. The indexes in the following table and in tables 349 to 352 have been adjusted to conform with the Federal Biennial Census data on employment and pay rolls through the year 1931. Indexes are weighted according to the average number of employees and the average weekly pay rolls in the base period 1923-1925 in each of the component industries and are without seasonal adjustment. For a detailed description of the construction of these indexes refer to Bulletin No. 610, published by the United States Bureau of Labor Statistics. See table 349 for seasonally adjusted indexes of employment

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
EMPLOYMENT													
1919	105.3	102.0	102.4	102.5	103.1	104.3	106.9	109.7	111.7	111.3	112.6	114.4	107.2
1920	114.9	113.7	116.0	114.5	112.0	111.1	108.5	108.8	107.5	103.7	97.4	89.7	108.2
1021	81.0	82.6	83.2	82.1	81.9	81.0	79.8	81.2	83.4	84.1	84.2	83.3	82.3
1922	82.5	84.6	85.9	85.8	87.9	89.8	88.2	91.4	94.5	97.0	99.0	100.5	90.6
1923	100.7	102.5	104.6	105.0	105.3	106.0	104.9	105.2	105.7	104.5	103.2	101.4	104.1
1924	100.2	101.5	101.7	99.9	96.8	93.8	91.0	92.1	94.4	95.3	94.8	96.1	96.5
1925	96.3	98.1	98.8	98.7	98.1	98.0	97.8	99.5	101.5	102.2	101.8	101.5	99.4
1926	100.5	101.5	102.1	101.4	100.4	100.3	99.4	101.4	103.4	103.1	101.4	100.0	101.2
1927	98.2	99.7	100.2	99.6	99.1	99.1	98.1	99.3	100.5	99.6	97.4	96.1	98.9
1928	95.0	96.5	97.6	97.1	97.0	97.8	97.7	100.1	102.2	102.6	101.7	101.2	98.9
1929	100.8	102.9	104.1	105.3	105.3	105.6	106.1	107.9	109.0	107.7	103.6	99.8	104.8
1930	97.3	97.4	96.9	96.3	94.8	92.9	89.5	88.8	89.6	87.7	84.6	82.3	91.5
1931	79.6	80.3	80.7	80.7	80.1	78.4	77.0	77.1	77.4	74.4	71.8	71.0	77.4
1932	68.7	69.5	68.4	66.1	63.4	61.2	58.9	60.1	63.3	64.4	63.4	62.1	64.1
1933	60.2	61.1	58.8	59.9	62.6	66.9	71.5	76.4	80.0	79.6	76.2	74.4	69.0
1934	73.3	77.7	80.8	82.4	82.5	81.1	78.7	79.5	75.8	78.4	76.8	78.0	78.8
1935	78.7	81.2	82.4	82.4	81.1	79.6	79.5	------	------	------	------	------	------
PAY ROLLS													
1919	95.3	89.6	90.0	89.2	90.0	92.0	94.8	99.9	104.7	102.2	106.7	114.0	97.4
1920	117.2	115.5	123.7	120.9	122.4	124.2	119.3	121.6	119.8	115.8	107.0	98.0	117.1
1921	82.8	81.3	81.7	79.0	77.3	75.4	71.7	73.9	73.4	72.6	71.7	73.3	76.2
1922	69.6	72.4	74.9	73.8	77.2	80.5	78.5	83.0	87.0	89.5	93.4	95.7	81.3
1923	94.6	97.9	102.5	103.8	107.3	107.5	103.3	103.8	104.3	106.6	104.5	102.9	103.3
1924	98.8	104.1	104.1	101.8	97.5	92.4	85.7	89.3	92.5	95.1	93.7	97.6	96.1
1925	95.4	100.8	102.4	100.0	100.7	98.7	96.8	99.3	98.8	104.6	104.6	105.2	100.6
1926	100.9	105.0	106.5	104.4	103.1	103.3	99.0	103.4	104.4	107.6	104.1	103.5	103.8
1927	98.4	104.4	105.7	104.5	104.0	102.4	98.5	101.9	101.4	102.1	98.5	99.5	101.8
1928	96.0	101.2	102.5	100.5	101.3	101.7	99.0	103.3	104.7	108.2	105.0	105.6	102.4
1929	102.3	109.3	111.6	112.6	112.9	111.2	107.2	112.0	112.9	112.4	104.1	100.7	109.1
1930	95.9	98.8	98.8	97.7	95.4	92.3	84.3	83.3	84.1	82.2	76.8	75.2	88.7
1931	70.0	74.3	75.6	74.4	73.4	69.7	66.2	65.9	63.4	61.3	58.1	57.6	67.5
1932	53.5	54.6	53.1	49.5	46.8	43.4	39.8	40.6	42.9	44.7	42.9	41.5	46.1
1933	39.5	40.2	37.1	38.8	42.7	47.2	50.8	56.8	59.1	59.4	55.5	54.5	48.5
1934	54.0	60.6	64.8	67.3	67.1	64.9	60.5	62.2	58.0	61.0	59.5	63.2	61.9
1935	64.1	69.1	70.7	70.8	68.5	66.4	65.3	------	------	------	------	------	------

Source: Bureau of Labor Statistics, Department of Labor.

No. 349.—INDEXES OF EMPLOYMENT IN MANUFACTURING INDUSTRIES: ADJUSTED FOR SEASONAL VARIATIONS

NOTE.—Monthly average, 1923-1925=100. Indexes are based upon the data shown in table 348. For a description of the methods of adjustment see the Federal Reserve Board Bulletin for June 1934, p. 324

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1919	107.5	103.2	102.1	102.5	103.4	104.4	107.1	108.4	109.4	109.2	111.7	114.5
1920	117.2	115.0	115.7	114.4	112.3	111.2	108.6	107.4	105.2	101.9	96.4	89.6
1921	82.4	83.3	82.9	82.1	82.1	81.4	80.3	80.6	81.9	82.6	83.4	83.3
1922	84.0	85.3	85.8	86.1	88.2	90.1	88.8	90.7	92.8	95.6	98.3	100.6
1923	102.6	103.1	104.1	104.7	105.4	106.4	105.9	105.1	104.0	103.4	103.2	102.0
1924	101.8	101.8	101.1	99.6	96.9	94.3	92.0	92.1	92.9	94.0	94.7	96.6
1925	97.8	98.4	98.4	98.5	98.3	98.6	99.0	99.3	99.6	100.7	101.7	102.2
1926	102.3	101.9	101.7	101.1	100.7	100.9	100.5	101.1	101.4	101.5	101.3	100.8
1927	100.0	100.2	99.9	99.5	99.4	99.5	99.2	98.9	98.4	97.8	97.4	97.0
1928	96.8	97.1	97.3	97.0	97.3	98.1	98.4	99.4	99.9	100.7	101.8	102.3
1929	103.1	103.6	104.0	105.1	105.4	105.9	107.0	107.2	106.3	105.5	103.6	101.0
1930	99.4	98.1	96.8	96.1	94.9	93.2	90.3	88.2	87.0	85.8	84.7	83.3
1931	81.7	81.1	81.0	80.6	80.3	78.8	78.0	76.8	75.2	72.9	71.6	71.5
1932	70.2	70.1	68.4	66.1	63.7	61.6	59.6	60.0	61.8	63.0	63.2	62.4
1933	61.4	61.7	58.9	59.9	62.9	67.4	72.5	76.4	78.0	77.8	75.9	75.0
1934	75.1	78.4	81.0	82.3	82.6	81.5	79.5	79.3	73.9	76.8	76.7	78.9
1935	80.5	81.9	82.4	82.3	81.2	79.9	80.4	------	------	------	------	------

Source: Federal Reserve Board.

No. 350.—INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS: By Groups of Industries

NOTE.—Monthly average, 1923-1925=100. See headnote, table 348

Year and month	Food and kindred products		Textiles and their products		Lumber and allied products		Paper and printing		Chemicals and allied products		Rubber products		Leather and manufactures	
	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls
1919	109.8	97.6	98.8	89.8	94.1	89.3	96.0	73.1	(1)	(1)	(1)	(1)	108.1	99.9
1920	106.7	109.6	99.0	107.7	89.4	109.9	103.4	99.1	(1)	(1)	(1)	(1)	98.5	106.5
1921	93.7	94.1	92.6	89.3	76.6	69.7	88.0	82.5	(1)	(1)	(1)	(1)	86.6	86.5
1922	97.5	92.8	97.3	91.4	97.4	82.2	92.2	85.9	(1)	(1)	(1)	(1)	97.3	96.1
1923	102.1	100.4	105.2	105.8	101.5	100.0	99.2	96.2	102.9	102.2	102.6	101.0	106.6	106.9
1924	98.4	99.4	94.9	93.8	98.1	98.4	99.7	99.5	96.7	96.3	91.8	92.9	96.3	95.3
1925	99.5	100.2	99.9	100.4	100.4	101.6	101.1	104.3	100.4	101.5	105.6	106.1	97.1	97.8
1926	99.5	101.8	99.9	100.2	100.4	102.5	104.1	110.8	106.7	108.8	105.1	107.0	96.6	98.9
1927	101.7	104.0	104.0	106.8	94.1	96.7	104.1	111.0	104.1	107.9	105.7	110.0	97.7	100.3
1928	105.8	107.6	101.3	101.7	92.4	94.2	105.0	112.3	102.9	108.1	111.1	117.5	95.6	95.8
1929	112.8	113.9	104.8	105.2	95.4	97.4	111.3	119.5	115.6	121.0	111.0	115.1	98.5	99.0
1930	109.4	108.9	92.9	85.6	76.1	72.6	108.0	114.6	109.5	112.2	85.9	84.7	91.2	82.3
1931	97.4	93.0	87.2	75.1	56.3	46.6	96.3	97.3	95.1	91.8	73.9	62.5	84.3	72.1
1932	86.4	74.2	76.7	53.5	41.1	25.1	85.0	74.8	84.0	70.4	65.4	44.9	79.0	58.1
1933	94.4	76.2	87.9	61.2	44.2	26.4	86.2	69.3	94.7	74.3	73.9	50.2	83.3	62.9
1934	106.5	92.4	91.2	71.2	48.7	32.7	94.9	79.6	108.6	89.4	82.9	63.7	87.8	73.9
1933														
January	79.1	64.6	77.9	48.3	36.4	18.8	81.6	66.7	84.0	66.4	61.8	36.9	76.7	49.3
February	78.2	63.0	80.9	52.6	36.0	18.8	81.5	65.6	85.4	66.4	62.2	37.2	80.9	56.5
March	77.0	60.8	76.0	45.2	34.3	16.4	80.0	63.1	84.9	65.3	59.8	32.6	80.1	53.1
April	83.0	67.5	78.3	49.0	35.0	17.8	79.8	62.2	86.4	65.1	59.6	35.0	78.3	51.8
May	85.1	70.4	82.3	52.0	37.9	20.7	80.6	64.9	85.7	68.0	62.4	43.7	79.9	57.3
June	89.7	73.5	89.7	59.3	42.7	24.8	82.3	66.4	87.9	71.3	69.3	53.3	83.4	64.8
July	94.5	76.8	95.4	64.4	46.6	27.6	84.1	67.9	92.3	74.1	77.4	60.4	89.5	72.4
August	105.4	82.1	97.8	74.1	50.4	32.4	88.7	71.0	99.1	77.9	86.6	61.9	92.9	78.2
September	120.9	94.8	98.2	78.7	54.3	37.3	92.7	74.7	106.0	81.5	88.8	61.4	90.7	77.5
October	115.9	91.1	97.7	77.4	55.2	38.1	94.5	76.0	109.1	85.5	88.7	62.9	88.9	72.3
November	104.8	85.3	92.9	69.7	52.3	33.6	94.2	75.6	108.4	84.6	86.7	58.3	79.1	60.1
December	99.2	84.4	88.0	64.0	49.8	31.0	94.5	77.2	107.6	84.9	83.9	59.0	78.7	61.1
1934														
January	94.1	80.7	88.2	64.8	45.6	27.4	92.4	74.3	107.9	84.5	82.0	58.7	82.9	67.5
February	93.9	81.1	96.8	77.9	47.1	30.5	93.1	76.0	110.6	87.2	84.6	65.2	90.3	81.7
March	96.2	82.2	100.0	82.6	48.5	31.9	93.7	77.7	112.8	89.1	87.1	70.5	92.7	84.4
April	97.2	83.1	99.1	79.8	49.4	33.3	95.1	77.7	113.3	92.3	90.0	73.4	92.3	82.1
May	99.6	87.2	96.1	74.1	51.0	34.6	95.9	80.6	106.1	88.3	89.1	70.3	91.4	78.9
June	105.1	91.9	90.9	66.4	50.0	33.9	94.7	78.9	104.5	88.1	85.6	66.5	87.7	72.9
July	110.1	95.6	85.9	62.5	48.8	31.6	93.4	77.3	105.3	88.7	83.9	61.9	89.4	77.2
August	122.1	105.1	88.2	68.1	49.0	33.5	93.8	78.4	106.9	90.0	80.7	58.8	91.1	78.7
September	127.1	109.3	73.1	57.5	49.3	33.9	95.3	80.3	108.6	89.9	78.4	56.1	85.7	69.2
October	119.1	103.4	92.3	74.7	49.5	35.2	96.4	82.7	109.4	91.6	77.4	58.3	83.4	64.3
November	109.0	96.1	90.9	71.1	48.6	33.6	96.8	82.7	108.6	90.9	76.6	58.1	81.6	61.0
December	103.8	92.9	92.8	75.3	47.8	33.3	97.5	86.3	108.8	91.7	79.0	66.0	84.8	69.1

Year and month	Stone, clay, and glass products		Iron and steel and their products [2]		Nonferrous metals and their products		Machinery [3]		Transportation equipment		Railroad repair shops		Tobacco manufactures	
	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls
1919	86.4	72.1	99.9	97.1	(1)	(1)	116.9	103.7	(1)	(1)	(1)	(1)	113.4	107.3
1920	89.8	92.8	107.8	123.8	(1)	(1)	128.9	135.2	(1)	(1)	(1)	(1)	111.3	124.6
1921	72.2	66.5	66.6	57.0	(1)	(1)	77.5	69.5	(1)	(1)	(1)	(1)	108.3	104.5
1922	85.5	72.6	84.1	70.6	(1)	(1)	81.7	71.8	(1)	(1)	(1)	(1)	105.8	99.1
1923	100.4	98.3	103.9	103.2	105.4	103.7	105.8	104.0	107.6	107.7	108.6	109.6	105.7	104.1
1924	98.9	100.5	97.0	96.7	96.7	95.9	95.1	95.3	93.1	90.8	96.4	95.6	98.8	99.4
1925	100.7	101.2	99.1	100.1	97.9	100.4	99.1	100.7	99.3	101.5	95.0	94.8	95.5	96.5
1926	103.8	104.2	102.5	105.0	(1)	(1)	107.8	111.2	99.1	99.5	95.5	96.1	90.9	92.1
1927	99.9	100.5	97.2	98.6	96.5	100.5	102.3	106.0	87.9	89.8	89.0	92.0	93.4	91.0
1928	95.7	96.2	96.6	100.4	(1)	(1)	105.1	111.3	96.2	101.6	83.8	87.2	90.7	86.1
1929	93.8	93.7	102.6	107.8	111.4	116.4	125.9	134.2	103.5	105.4	82.6	90.4	83.9	81.8
1930	80.2	76.9	89.2	85.7	(1)	(1)	104.6	102.2	80.2	70.2	73.4	76.1	78.3	72.7
1931	63.7	53.9	69.7	55.0	74.0	63.1	78.3	63.9	66.3	52.3	64.1	61.7	72.1	60.1
1932	44.6	29.1	53.3	29.1	58.1	39.1	56.3	36.1	56.0	40.7	53.4	42.7	64.0	47.3
1933	45.0	27.6	58.6	36.2	62.0	41.5	58.9	37.9	54.2	39.5	52.0	41.7	59.7	42.5
1934	52.8	35.5	69.0	49.0	74.3	56.0	77.7	57.2	82.9	68.6	55.5	48.1	62.6	47.1
1933														
January	35.2	20.7	46.8	22.8	52.2	31.5	48.1	28.2	51.4	35.8	51.7	39.2	55.7	35.7
February	36.5	21.4	49.0	24.8	53.2	32.0	48.7	28.7	50.3	32.1	50.8	39.2	58.6	37.1
March	36.9	21.2	46.8	22.7	50.8	29.1	47.1	26.2	45.2	27.8	50.6	38.1	53.3	33.4
April	38.4	21.6	48.1	24.6	51.9	30.5	47.7	26.8	45.3	31.9	48.1	36.2	52.0	33.4
May	41.3	24.5	51.0	29.8	54.1	35.3	50.1	30.6	48.8	38.7	49.7	38.9	59.2	42.1
June	45.9	28.6	55.7	36.2	58.4	40.0	54.2	35.6	51.7	40.6	48.4	38.1	61.2	43.7

[1] Data not available. [2] Not including machinery. [3] Not including transportation equipment.

No. 350.—Indexes of Employment and Pay Rolls in Manufacturing Establishments: By Groups of Industries—Continued

Year and month	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls
	Stone, clay, and glass products		Iron and steel and their products		Nonferrous metals and products		Machinery		Transportation equipment		Railroad repair shops		Tobacco manufactures	
1933														
July	49.3	29.9	61.8	41.4	61.7	43.1	58.1	39.1	58.3	43.5	51.7	40.0	60.3	43.6
August	52.8	33.9	68.4	50.0	69.2	48.3	64.5	43.5	61.6	49.7	54.2	45.9	62.2	44.5
September	52.9	33.5	71.4	47.5	74.3	51.6	69.8	46.6	64.3	48.2	55.1	45.3	61.7	48.2
October	51.6	33.6	69.8	47.6	75.6	53.8	73.0	50.2	59.1	43.3	55.0	48.9	64.6	51.2
November	50.3	31.8	67.9	43.3	72.6	52.4	73.3	50.2	53.5	38.6	54.8	46.1	66.0	50.1
December	49.0	31.0	66.6	43.7	69.8	50.2	71.8	49.1	61.1	43.7	53.5	44.7	62.1	46.5
1934														
January	47.3	29.9	63.5	41.1	67.3	47.1	70.0	47.6	71.2	52.7	52.8	42.1	54.5	39.8
February	49.8	33.3	66.6	45.7	70.9	52.2	72.9	51.8	84.6	71.9	53.4	45.6	62.1	45.5
March	52.1	34.7	70.0	51.3	75.1	56.8	76.8	55.8	93.4	84.4	55.5	48.5	64.4	45.8
April	55.3	38.8	72.6	56.8	76.9	58.9	80.3	60.5	99.4	92.4	57.8	53.0	64.7	46.2
May	57.7	39.5	75.2	61.3	77.8	60.6	81.3	62.2	99.7	88.3	59.6	53.8	61.3	46.3
June	57.1	38.8	76.4	62.6	75.9	57.9	80.8	61.6	95.6	78.5	59.8	53.8	62.4	47.5
July	54.2	36.1	70.3	47.6	73.1	53.6	79.0	58.5	88.4	66.0	58.3	51.1	61.1	47.3
August	53.1	34.9	68.6	45.5	73.4	53.2	78.9	58.1	83.7	70.4	55.2	48.5	65.1	49.3
September	52.9	34.7	66.0	41.1	73.2	54.0	78.0	55.6	74.2	52.3	55.7	45.6	64.7	50.3
October	51.9	35.5	66.0	42.8	75.1	57.5	77.9	57.0	64.2	49.7	53.9	46.8	65.3	49.0
November	52.2	35.6	66.2	44.2	76.0	58.8	77.9	57.2	62.2	48.4	51.6	44.4	64.0	48.8
December	50.1	34.4	66.6	47.6	76.9	61.5	78.5	60.2	78.4	67.6	52.0	44.4	61.9	49.9

Source: Bureau of Labor Statistics, Department of Labor.

No. 351.—INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING ESTABLISHMENTS: By Industry Groups and Industries

Note.—**Monthly average, 1923–1925=100.** Indexes for some of the groups include industries that are not shown separately in this table. See headnote, table 348

Industry group and industry	Employment					Pay rolls				
	1930	1931	1932	1933	1934	1930	1931	1932	1933	1934
Food and kindred products	109.4	97.4	86.4	94.4	106.5	108.9	93.0	74.2	76.2	92.4
Baking	121.5	112.6	101.2	101.2	113.2	123.7	109.0	88.6	82.7	95.5
Beverages	(1)	85.5	74.0	127.9	163.2	(1)	83.1	64.3	118.0	156.2
Butter	(1)	82.0	75.3	76.1	80.0	(1)	79.1	65.7	58.7	60.3
Confectionery	92.1	82.0	74.2	79.7	80.0	93.3	77.5	59.9	59.5	68.5
Flour	73.9	68.1	65.1	67.7	76.5	78.7	66.7	55.9	53.9	63.4
Ice cream	89.0	76.0	64.5	62.9	71.4	93.0	76.9	56.4	48.6	56.4
Slaughtering and meat packing	92.1	84.1	79.8	87.6	103.7	96.3	82.2	65.2	67.7	90.5
Sugar refining, cane	92.3	80.3	74.2	78.6	86.4	89.7	79.6	68.7	67.0	70.1
Textiles and their products	92.9	87.2	76.7	87.9	91.2	85.6	75.1	53.5	61.2	71.2
Fabrics	86.0	80.3	71.9	86.2	89.5	79.4	70.2	50.9	62.2	70.9
Carpets and rugs	74.2	67.5	52.0	60.6	66.7	59.7	54.3	32.2	42.6	50.1
Cotton goods	80.7	74.5	67.8	87.5	92.9	69.4	61.0	44.6	62.1	73.0
Dyeing and finishing textiles	112.0	103.3	89.3	94.8	106.2	108.7	101.2	72.3	73.6	84.2
Knit goods	102.9	96.0	94.1	102.2	107.6	108.6	92.2	75.5	81.4	98.6
Silk and rayon goods	95.1	86.9	68.7	75.5	75.4	87.2	74.8	46.4	51.8	60.0
Woolen and worsted goods	67.2	67.1	59.5	78.2	72.4	60.5	57.3	41.3	54.5	52.5
Wearing apparel	105.0	99.6	84.8	88.2	91.1	93.6	80.7	55.5	55.7	67.7
Clothing, men's	91.4	84.9	74.4	80.3	84.0	74.7	62.8	42.3	47.3	57.9
Clothing, women's	142.2	135.8	110.4	110.0	116.1	127.9	110.5	73.9	68.0	84.9
Millinery	91.3	83.7	76.3	75.9	70.4	88.6	79.2	65.2	57.9	60.6
Shirts and collars	102.7	104.0	90.5	99.0	99.8	90.3	82.7	61.0	72.1	89.7
Lumber and allied products	76.1	56.3	41.1	44.2	48.7	72.6	46.6	25.1	26.4	32.7
Furniture	89.0	73.7	57.8	61.7	63.0	80.7	59.2	34.8	36.3	41.9
Lumber, millwork	64.4	51.1	35.6	34.5	36.8	61.1	42.0	21.7	19.5	23.3
Lumber, sawmills	67.6	41.1	26.1	28.7	33.4	67.6	33.6	14.2	16.0	21.4
Paper and printing	108.0	96.3	85.0	86.2	94.9	114.6	97.3	74.8	69.3	79.6
Boxes, paper	90.7	81.8	70.5	77.0	84.9	91.6	79.0	60.1	62.7	75.4
Paper and pulp	102.5	89.5	82.4	90.3	105.4	104.6	82.1	61.7	64.9	79.3
Printing and publishing:										
Book and job	110.9	100.7	85.8	79.4	85.7	115.6	99.1	73.4	62.5	72.0
Newspapers and periodicals	109.9	101.8	92.8	93.3	98.5	119.4	108.0	88.6	80.0	87.4

[1] Data not available.

No. 351.—Indexes of Employment and Pay Rolls in Manufacturing Establishments: By Industry Groups and Industries—Continued

Industry group and industry	Employment					Pay rolls				
	1930	1931	1932	1933	1934	1930	1931	1932	1933	1934
Chemicals and allied products	109.5	95.1	84.0	94.7	108.6	112.2	91.8	70.4	74.3	89.4
Chemicals	99.5	85.1	72.9	87.2	108.1	103.5	84.2	63.0	71.9	92.4
Druggists' preparations	108.2	103.2	90.3	90.7	101.1	116.3	105.3	82.4	81.0	92.1
Explosives	79.7	80.4	66.4	76.3	93.6	74.7	66.9	45.3	52.3	71.6
Fertilizers	111.0	78.8	62.4	82.5	106.4	104.2	73.4	49.6	55.8	79.3
Paints and varnishes	(1)	94.4	82.2	85.7	100.3	(1)	90.3	66.8	64.3	79.0
Petroleum refining	124.9	106.2	96.1	99.8	111.1	130.4	105.8	85.4	83.1	94.3
Rayon and allied products	242.2	241.9	217.0	281.9	307.6	214.1	188.4	140.4	178.8	215.4
Rubber products	85.9	73.9	65.4	73.9	82.9	84.7	62.5	44.9	50.2	63.7
Boots and shoes	82.0	63.2	52.5	50.9	54.0	77.4	48.6	37.7	42.5	48.8
Rubber goods other than boots, shoes, tires, etc	(1)	102.3	94.1	112.2	122.4	(1)	89.9	70.0	79.5	94.3
Tires and inner tubes	79.0	64.9	57.1	64.7	75.2	79.3	56.2	37.7	41.7	56.4
Leather and its manufactures	91.2	84.3	79.0	83.3	87.8	82.3	72.1	58.1	62.9	73.9
Boots and shoes	90.2	85.3	81.7	83.9	87.0	78.3	70.2	58.5	61.5	71.7
Leather	84.6	76.9	69.1	81.3	91.1	83.0	72.5	56.0	66.8	80.2
Stone, clay, and glass products	80.2	63.7	44.6	45.0	52.8	76.9	53.9	29.1	27.6	35.5
Brick, tile, and terra cotta	72.2	50.2	29.6	27.0	29.7	62.2	35.2	14.0	12.0	16.0
Cement	84.6	65.8	44.9	41.1	49.3	83.4	56.9	27.7	22.2	30.6
Glass	83.8	71.5	58.9	69.8	89.8	82.9	66.5	45.9	52.9	71.8
Pottery	82.9	72.3	57.0	60.2	69.0	74.1	56.4	35.1	35.8	44.7
Iron and steel and their products, not incl. machinery	89.2	69.7	53.3	58.6	69.0	85.7	55.0	29.1	36.2	49.0
Cast-iron pipe	80.4	71.5	45.5	39.2	51.1	75.3	55.1	24.2	19.7	27.8
Hardware	88.6	70.3	55.1	55.8	62.7	81.6	58.9	35.5	36.1	47.0
Blast furnaces and steel works	90.3	68.4	51.5	58.5	69.7	87.7	53.6	24.8	35.4	49.2
Steam and hot-water heating apparatus and steam fittings	78.3	67.1	46.5	49.5	47.6	69.0	46.3	24.7	26.4	29.9
Stoves	83.1	69.4	57.3	68.7	87.2	74.3	53.4	35.0	43.9	60.1
Structural and ornamental metal work	98.9	76.0	50.8	46.1	56.8	94.2	61.5	31.1	26.3	38.9
Tin cans and other tinware	(1)	83.7	73.8	78.7	90.7	(1)	83.3	67.3	70.6	84.4
Wirework	(1)	95.6	90.3	103.3	124.4	(1)	80.6	61.9	75.7	101.0
Nonferrous metals and their products	(1)	74.0	58.1	62.0	74.3	(1)	63.1	39.1	41.5	56.0
Aluminum manufactures	(1)	90.2	64.3	71.8	71.2	(1)	81.3	42.1	50.9	54.4
Brass, bronze, and copper products	96.6	74.9	57.8	64.1	74.6	88.7	60.3	35.8	41.3	53.9
Lighting equipment	(1)	65.3	49.5	51.4	64.4	(1)	60.4	38.8	38.7	51.9
Smelting and refining copper, lead, and zinc	(1)	54.4	45.3	50.7	68.1	(1)	45.9	27.3	29.2	42.1
Stamped and enameled ware	106.3	85.4	69.8	76.5	86.6	104.9	76.8	49.0	52.3	72.9
Machinery, not including transportation equipment	104.6	78.3	56.3	58.9	77.7	102.2	63.9	36.1	37.9	57.2
Agricultural implements	110.7	62.3	39.2	44.5	75.1	106.9	51.9	32.4	37.7	77.7
Electrical machinery, apparatus, and supplies	107.1	80.9	56.8	51.3	63.9	109.3	68.7	37.1	33.6	47.7
Engines, turbines, tractors, and water-wheels	106.1	68.1	42.4	44.8	69.7	107.2	54.0	24.0	25.7	45.7
Foundry and machine-shop products	94.2	69.7	50.4	52.6	68.0	89.0	55.4	31.1	32.8	49.6
Machine tools	126.0	74.7	40.5	41.7	69.0	121.9	61.5	27.5	28.7	53.4
Radios and phonographs	141.0	124.4	100.0	151.4	203.5	139.8	96.5	62.7	85.4	116.5
Textile machinery and parts	71.2	61.3	48.7	61.1	69.1	66.0	54.3	35.4	47.0	54.4
Transportation equipment	80.2	66.3	56.0	54.2	82.9	70.2	52.3	40.7	39.5	68.6
Automobiles	80.3	71.0	60.8	59.8	93.2	65.7	53.4	42.3	42.8	76.1
Cars, electric and steam railroad	54.7	29.6	26.3	25.4	43.4	53.2	25.4	23.5	20.5	40.8
Locomotives	52.3	28.0	19.4	15.6	31.1	51.5	18.1	8.9	5.8	13.7
Shipbuilding	107.3	83.0	66.0	55.4	70.2	113.5	76.8	52.5	38.9	54.9
Railroad repair shops	73.4	64.1	53.4	52.0	55.5	76.1	61.7	42.7	41.7	48.1
Electric railroad	85.8	79.3	71.7	66.3	66.0	93.0	80.2	64.3	55.1	58.0
Steam railroad	72.4	62.9	52.0	50.9	54.7	74.8	60.4	41.2	40.8	47.5
Tobacco manufactures	73.3	72.1	64.0	59.7	62.6	72.7	60.1	47.3	42.5	47.1
Chewing and smoking tobacco and snuff	69.8	71.9	76.2	74.5	75.6	71.3	69.0	66.0	63.1	67.4
Cigars and cigarettes	79.4	72.1	62.5	57.9	60.9	72.9	58.9	45.0	39.9	44.6

[1] Data not available.

Source: Bureau of Labor Statistics, Department of Labor.

No. 352.—INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES: By Durable- and Nondurable-Goods Groups

NOTE.—Monthly average, 1923-1925=100. See head note, table 348

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	DURABLE-GOODS GROUP [1]												
EMPLOYMENT													
1923	99.2	101.5	104.0	105.6	106.6	107.7	106.6	106.4	106.0	105.4	104.3	102.0	104.6
1924	100.6	102.0	103.1	102.7	98.8	94.7	91.1	91.0	91.8	93.4	93.1	94.7	96.4
1925	95.3	97.0	98.3	99.3	99.1	98.4	97.3	98.2	99.7	101.4	101.8	101.9	99.0
1926	100.9	102.3	103.3	103.5	102.8	102.3	101.1	102.1	102.7	102.2	100.3	98.3	101.8
1927	95.6	97.3	98.2	98.1	98.0	97.1	94.9	95.3	94.9	94.3	92.1	90.9	95.6
1928	89.8	91.8	93.7	94.7	96.1	96.6	95.8	98.1	99.4	99.8	99.3	98.8	96.2
1929	99.1	101.7	103.5	105.3	106.5	106.4	106.3	107.3	106.8	105.0	100.3	95.8	103.7
1930	93.1	93.3	93.1	92.8	91.8	89.1	84.7	82.2	81.0	79.6	77.1	74.9	86.1
1931	71.9	72.1	72.2	72.2	71.4	69.5	66.8	65.3	64.5	61.8	60.3	59.7	67.3
1932	57.3	57.8	56.5	54.6	52.9	50.9	48.5	46.9	47.3	47.7	48.1	47.3	51.3
1933	45.4	45.8	43.9	44.4	47.0	50.7	55.3	60.1	63.4	63.2	61.2	60.7	53.4
1934	59.8	63.5	67.1	70.0	71.5	70.8	67.4	66.1	64.2	62.8	62.2	64.3	65.8
1935	66.1	69.3	70.8	71.6	71.3	69.5	69.3	------	------	------	------	------	------
PAY ROLLS													
1923	91.6	95.8	101.4	104.6	109.1	110.0	104.5	106.0	105.2	108.9	107.4	104.0	104.0
1924	97.9	105.5	106.6	105.7	100.3	93.0	84.0	87.3	89.0	93.0	91.8	95.9	95.8
1925	92.5	99.7	101.7	100.8	101.9	99.2	95.4	97.5	97.1	104.6	105.3	105.7	100.1
1926	99.0	105.2	107.3	106.5	105.2	104.9	99.1	103.7	103.1	107.0	103.2	100.9	103.8
1927	93.3	101.1	103.4	103.2	103.2	99.8	93.9	97.5	95.1	96.8	93.3	94.1	97.9
1928	89.5	96.8	99.5	99.8	101.8	101.2	97.1	102.0	102.3	107.0	104.2	103.9	100.4
1929	100.0	109.0	112.0	114.7	115.8	112.9	107.1	112.6	111.7	111.1	101.7	96.7	108.8
1930	90.1	94.6	95.1	95.3	93.3	89.1	78.1	75.6	74.7	73.7	68.4	66.4	82.9
1931	59.8	64.4	65.7	65.1	64.1	59.4	54.3	52.9	49.6	48.5	46.4	45.8	56.3
1932	41.3	42.0	40.4	38.0	37.0	33.3	29.8	28.2	27.9	29.8	30.0	29.4	33.9
1933	27.6	27.7	25.3	26.6	30.8	34.7	38.0	43.9	44.7	45.4	42.5	42.3	35.8
1934	41.6	47.9	52.8	57.4	58.6	56.9	49.9	50.0	45.5	46.4	46.1	50.4	50.3
1935	52.5	58.6	60.5	61.8	60.1	57.6	55.6	------	------	------	------	------	------
	NONDURABLE-GOODS GROUP [2]												
EMPLOYMENT													
1923	102.5	103.8	105.3	104.4	104.1	104.2	103.3	104.0	105.2	103.6	102.2	100.8	103.6
1924	99.8	100.8	100.1	97.0	94.6	93.0	90.9	93.4	97.3	97.3	96.7	97.7	96.6
1925	97.5	99.3	99.5	98.3	97.0	97.5	98.5	101.0	103.5	103.2	101.9	101.1	99.8
1926	100.2	100.6	100.9	99.1	97.8	98.3	97.5	100.6	104.1	104.2	102.5	101.9	100.6
1927	101.0	102.3	102.5	101.3	100.3	101.2	101.6	103.5	106.5	105.2	103.1	101.7	102.5
1928	100.6	101.8	101.8	99.6	98.0	99.0	99.7	102.3	105.3	105.6	104.3	103.7	101.8
1929	102.7	104.3	104.9	105.4	104.1	104.7	105.8	108.6	111.4	110.6	107.1	104.0	106.1
1930	101.8	101.7	100.9	100.1	98.0	96.9	94.7	95.9	98.9	96.5	92.7	90.1	97.4
1931	87.8	89.0	90.0	89.8	89.3	88.0	88.2	89.8	91.1	88.0	84.2	83.0	88.2
1932	80.9	82.2	81.2	78.5	74.8	72.4	70.1	74.2	80.4	82.3	79.9	77.8	77.9
1933	76.0	77.6	74.7	76.5	79.3	84.3	88.9	93.9	97.8	97.2	92.2	89.1	85.6
1934	87.9	93.0	95.4	95.8	94.3	92.3	90.8	94.0	88.2	95.1	92.4	92.7	92.7
1935	92.3	94.1	94.8	94.0	91.6	90.4	90.5	------	------	------	------	------	------
PAY ROLLS													
1923	98.5	100.8	104.1	103.1	105.0	104.5	101.9	101.1	103.2	103.6	100.8	101.6	102.4
1924	99.8	102.2	101.0	96.8	94.1	91.6	88.0	91.9	96.9	97.8	96.1	100.0	96.4
1925	99.3	102.1	103.4	99.0	99.2	98.2	98.6	101.7	101.0	104.7	103.7	104.6	101.3
1926	103.5	104.9	105.5	101.8	100.4	101.3	98.9	103.0	105.9	108.5	105.3	106.8	103.8
1927	104.7	108.6	108.7	106.1	105.1	105.8	104.3	107.4	109.6	108.8	105.1	106.3	106.7
1928	104.1	106.8	106.4	101.5	100.8	102.5	101.6	104.9	107.6	109.8	106.1	107.8	105.0
1929	105.3	109.8	111.0	110.2	109.3	109.1	107.3	111.3	114.4	114.2	107.4	105.8	109.6
1930	103.2	104.1	103.5	100.8	98.3	96.5	92.3	93.2	96.0	93.0	87.4	86.5	96.2
1931	83.0	86.9	88.3	86.3	85.2	82.7	81.3	82.5	80.8	77.6	73.0	72.5	81.7
1932	69.1	70.7	69.2	64.0	59.3	56.2	52.6	56.3	61.8	63.6	59.2	56.9	61.6
1933	54.5	56.2	52.1	54.4	57.9	63.1	67.0	73.3	77.6	77.3	72.1	70.1	64.6
1934	69.7	76.9	80.1	80.0	78.1	75.1	73.9	77.9	74.0	79.6	76.6	79.5	76.8
1935	79.0	82.5	83.8	82.3	79.1	77.6	77.7	------	------	------	------	------	------

[1] Includes iron and steel and their products; machinery; transportation equipment; railroad repair shops; nonferrous metals and their products; lumber and allied products; and stone, clay, and glass products.
[2] Includes food and kindred products; textiles and their products; paper and printing; chemicals and allied products; leather and its manufactures; rubber products; and tobacco manufactures.

Source: Bureau of Labor Statistics, Department of Labor.

No. 353.—INDEXES OF FACTORY EMPLOYMENT AND PAY ROLLS IN SPECIFIED STATES

[Index numbers for New Jersey and Pennsylvania, relative to monthly average of the years 1923–1925 as 100; for Massachusetts, New York, Illinois, and Wisconsin, monthly average of the years 1925–27]

Year and month	Employment						Pay rolls					
	Massachusetts [1]	New York [2]	New Jersey [3]	Pennsylvania [3]	Illinois [4]	Wisconsin [5]	Massachusetts [1]	New York [2]	New Jersey [3]	Pennsylvania [3]	Illinois [4]	Wisconsin [5]
1923	-------	111.9	104.4	106.6	112.5	102.1	-------	105.6	102.2	106.7	105.6	95.8
1924	-------	102.0	96.6	95.9	103.1	97.3	-------	97.9	96.0	95.0	95.3	93.0
1925	100.1	101.3	99.1	97.5	99.8	101.4	99.5	99.2	101.8	98.3	97.9	101.4
1926	102.0	101.4	101.7	99.4	103.1	101.7	101.8	102.0	108.1	102.7	104.2	102.2
1927	97.9	97.3	95.0	95.7	97.1	96.8	98.7	98.8	100.7	97.0	98.0	96.4
1928	91.6	93.4	90.9	92.7	95.3	96.2	92.9	95.4	94.6	93.1	95.2	98.1
1929	94.3	97.9	103.2	98.4	102.6	100.1	97.4	101.7	107.8	102.1	101.3	100.8
1930	81.5	86.0	93.9	89.5	88.4	87.8	78.6	85.6	94.9	85.6	77.6	80.1
1931	73.5	73.4	78.3	74.6	71.0	75.1	65.3	67.1	71.2	61.3	53.8	60.1
1932	59.3	59.2	64.3	63.5	56.5	63.0	44.6	46.6	50.4	41.1	34.3	40.3
1933	64.6	61.4	66.0	66.5	59.6	69.7	47.8	46.4	48.9	44.3	35.6	44.7
1934	68.3	70.8	75.5	74.0	70.6	80.8	54.6	56.7	58.1	56.7	47.1	59.6
1931												
March	77.0	77.8	82.2	79.0	76.6	78.2	71.9	75.1	77.5	70.0	61.7	68.8
June	74.9	73.4	78.0	74.1	72.3	76.7	66.2	66.7	71.3	61.9	55.5	64.2
September	75.0	73.6	77.0	72.4	68.3	75.0	65.0	66.5	65.1	55.8	49.4	55.6
December	65.6	67.7	71.0	70.1	63.6	66.9	53.7	57.8	60.6	53.1	44.3	48.8
1932												
March	64.2	64.6	68.2	67.3	61.3	68.1	52.1	53.8	56.0	48.0	39.8	48.5
June	53.8	55.6	64.0	60.6	56.6	62.4	39.2	42.6	49.9	37.7	33.5	38.0
September	60.9	57.8	62.3	62.7	54.5	61.1	45.2	44.9	47.4	37.9	31.8	37.0
December	58.2	57.1	61.5	62.5	51.7	58.8	41.2	42.6	45.7	37.8	29.1	35.0
1933												
January	57.2	55.3	58.5	59.4	50.7	57.3	39.1	40.0	42.5	33.9	28.5	32.5
February	59.4	56.3	59.6	60.9	52.1	58.8	41.6	40.7	43.6	35.1	29.6	34.0
March	55.3	53.7	57.2	58.1	50.8	58.6	36.6	38.4	40.0	32.9	27.2	32.6
April	55.5	55.3	57.1	58.3	51.7	60.8	37.4	40.1	41.5	33.9	28.2	36.4
May	57.6	57.1	59.8	61.4	53.6	63.3	41.5	42.4	44.2	38.3	31.3	40.6
June	61.9	59.5	63.2	64.7	57.2	69.5	46.2	45.1	47.8	42.9	35.4	46.8
July	67.9	62.1	66.0	67.5	60.9	75.9	52.1	47.9	49.9	46.3	37.9	49.2
August	72.0	65.7	70.2	72.1	67.9	77.5	56.2	51.0	52.7	54.0	42.6	53.3
September	73.8	69.6	74.5	75.1	69.7	79.7	58.2	55.0	55.0	54.2	43.0	53.8
October	75.2	69.6	75.5	75.4	68.9	80.0	58.2	54.1	56.5	55.7	43.0	55.3
November	71.7	67.4	75.5	74.1	66.2	78.3	54.6	51.8	56.8	52.8	40.3	52.3
December	68.0	66.2	74.7	71.4	65.4	76.5	51.7	51.3	56.1	51.1	40.5	50.1
1934												
January	67.4	65.8	72.5	68.2	64.0	75.7	52.0	51.8	53.6	47.5	40.5	50.5
February	71.8	69.6	73.9	72.4	66.9	77.2	57.6	54.7	56.3	53.4	43.2	54.4
March	72.9	72.2	75.0	74.7	69.1	79.3	59.3	58.3	57.0	57.6	45.2	58.9
April	73.6	73.2	74.8	75.6	70.4	79.6	59.5	59.0	57.7	59.3	46.8	59.6
May	72.4	72.1	76.4	75.5	72.1	84.1	58.4	58.2	59.4	62.9	49.1	63.9
June	68.2	71.1	76.9	75.6	72.7	84.1	53.9	57.0	59.6	61.7	49.9	64.0
July	66.5	69.7	76.5	74.4	71.5	85.7	53.2	55.7	58.1	55.5	48.0	62.2
August	67.2	70.4	77.0	74.5	72.9	82.4	54.0	56.9	59.3	57.3	48.6	60.7
September	66.5	71.4	76.7	72.9	74.2	80.9	46.6	57.3	59.0	53.1	48.6	57.8
October	67.6	72.0	76.0	75.0	73.5	80.2	52.1	57.2	58.8	57.2	49.8	60.8
November	66.6	70.9	75.0	74.4	70.3	79.5	50.9	56.1	58.3	56.4	47.4	60.2
December	69.0	71.1	75.3	75.0	69.9	80.6	57.3	58.0	59.7	58.1	48.2	62.5

[1] Compiled by the Massachusetts Department of Labor and Industries, based upon monthly returns from representative establishments employing about 46 percent of the total factory employees in the State. In 1934, reports were received from concerns varying in number from 1,131 to 1,599. The employment indexes are adjusted to the annual State census of manufactures each year when the census material becomes available. The State census schedules do not call for monthly pay roll.

[2] Compiled by the New York State Department of Labor from reports of approximately 1,500 firms prior to January 1930, 1,850 in 1930, and by the end of 1934, 1,877. Concerns reporting accounted for about 38 percent of the total factory employment in the State.

[3] Compiled by the Federal Reserve Bank of Philadelphia: For New Jersey they are based upon monthly reports to the bank from 1923 to 1926 and since then to the New Jersey Bureau of Statistics and Records. Current indexes represent reports from about 760 manufacturers covering 56 industries which in 1933 employed about 191,000 wage earners and accounted for approximately 65 percent of the total factory employment and pay rolls; for Pennsylvania, they are based upon original reports collected by the bank in cooperation with the United States Bureau of Labor Statistics. Current indexes represent reports from about 2,100 manufacturers covering 68 industries which in 1933 employed approximately 368,000 wage earners, and accounted for about 55 percent of the total factory employment and pay rolls. The indexes for both States have been adjusted to the Federal Biennial Census of Manufactures data through 1931 and will be similarly adjusted for later years as soon as detailed data become available; they have been weighted according to the relative importance of each industry as revealed by the Federal Biennial Census of Manufactures.

[4] Compiled by the Illinois Department of Labor. The indexes are computed by the link relative method; about 1,775 firms, employing an average of 257,200 wage earners, reported for the year 1934.

[5] Compiled by the Industrial Commission of Wisconsin from reports of representative manufacturing establishments, which accounted for about two-thirds of the factory employees in the State

No. 354.—WEEKLY EARNINGS OF FACTORY LABOR IN SPECIFIED STATES

[Index numbers for New Jersey, Pennsylvania, and Delaware, relative to monthly average of the years 1923–25 as 100; for New York, Illinois, Wisconsin, and Massachusetts, monthly average of the years 1925–27. Data for Delaware compiled by the Federal Reserve Bank of Philadelphia from reports of 51 manufacturing concerns representing 24 industries which in 1929 employed over 7,000 wage earners, and accounted for approximately 50 percent of the total factory wage earners and pay rolls; for original sources of other data, number of firms reporting, etc., in each State, see notes 1 to 5, table 353]

Year and month	Average amount per week			Index numbers						
	New York	Illinois	Wisconsin	Massachusetts	New York	New Jersey	Pennsylvania	Delaware	Illinois	Wisconsin
1923	$27.24	$27.07	$23.97	----------	94.4	99.8	101.8	99.8	95.4	93.8
1924	27.68	27.55	24.40	----------	95.9	99.5	98.6	100.8	97.1	95.4
1925	28.26	27.93	25.56	99.4	97.9	100.7	99.6	99.4	98.4	100.0
1926	29.02	28.67	25.67	99.8	100.5	105.9	102.5	101.8	101.0	100.4
1927	29.30	28.49	25.45	100.8	101.5	109.0	102.6	103.1	100.5	99.6
1928	29.44	28.43	26.04	101.4	102.0	109.8	103.1	102.6	100.2	101.9
1929	29.99	28.66	25.90	103.3	103.9	113.0	106.9	106.7	101.0	100.6
1930	28.81	27.16	23.33	96.4	99.5	111.3	98.1	103.2	95.7	90.3
1931	26.42	23.59	20.02	88.3	91.2	101.7	81.1	93.9	83.2	78.4
1932	22.74	18.67	15.30	75.0	78.5	88.4	63.0	75.9	65.8	60.2
1933	21.84	18.20	15.31	73.5	75.4	83.5	65.6	72.6	64.1	60.1
1934	23.19	20.42	18.29	79.9	80.1	86.4	76.6	76.0	72.0	71.4
1933										
March	20.73	16.29	13.24	66.2	71.6	78.9	55.7	68.3	57.4	52.1
June	21.95	18.99	15.84	74.7	75.8	85.4	66.9	74.7	66.9	62.2
September	22.87	18.91	16.51	78.9	79.0	83.3	72.2	72.4	66.6	64.8
December	22.43	18.93	16.16	76.1	77.4	84.7	71.5	75.1	66.7	63.3
1934										
March	23.39	20.19	18.45	81.4	80.8	85.4	76.7	75.4	71.2	72.1
June	23.24	21.02	19.13	79.1	80.2	87.0	81.3	76.3	74.1	74.3
September	23.24	20.05	17.73	82.5	80.2	86.4	74.0	75.4	70.7	69.4
December	23.63	20.90	19.23	83.0	81.6	88.9	78.4	76.3	73.7	75.2

No. 355.—AVERAGE WEEKLY AND HOURLY EARNINGS: ALL WAGE EARNERS AND CLASSIFIED GROUPS OF LABOR, 25 MANUFACTURING INDUSTRIES

NOTE.—Index numbers based on 1923 as 100. Data cover an average of 1,750 plants during 1934. The earnings are computed by weighting the average earnings in each industry according to the relative importance of the industry as revealed by the Federal Biennial Census of Manufactures for 1923. In addition, each labor group is weighted according to the relative proportion of the group in each industry as revealed in the Conference Board's studies during the 3-year period 1927–29. The pay-roll data are based upon the first full week in each month, or, if a generally recognized holiday falls in that week, upon the succeeding week

Year	All wage earners		Male, unskilled		Male, skilled and semiskilled		Female	
	Actual amount	Index number	Actual amount	Index number	Actual amount	Index number	Actual amount	Index number
WEEKLY EARNINGS								
1923	$26.61	100.0	$22.28	100.0	$30.80	100.0	$17.24	100.0
1924	26.43	99.3	22.42	100.7	30.55	99.2	16.76	97.2
1925	27.09	101.8	23.03	103.4	31.28	101.5	17.21	99.9
1926	27.40	103.0	23.18	104.0	31.60	102.6	17.29	100.3
1927	27.49	103.3	23.52	105.6	31.58	102.5	17.42	101.0
1928	27.80	104.5	23.87	107.1	31.94	103.7	17.18	99.8
1929	28.54	107.3	24.37	109.4	32.63	105.9	17.62	102.2
1930	25.90	97.4	21.94	98.5	29.18	94.7	15.99	92.7
1931	22.63	85.0	19.18	86.1	25.05	81.3	14.70	85.2
1932	17.05	64.1	14.49	65.1	19.48	63.2	11.70	67.9
1933	17.71	66.6	14.91	66.9	20.26	65.8	12.36	71.7
1934	20.12	75.6	16.42	73.7	22.41	72.7	14.44	83.8
HOURLY EARNINGS								
1923	.541	100.0	.443	100.0	.619	100.0	.383	100.0
1924	.562	103.9	.459	103.6	.644	104.0	.393	102.7
1925	.561	103.8	.458	103.4	.643	103.9	.390	101.8
1926	.568	104.9	.460	103.9	.651	105.2	.397	103.6
1927	.576	106.4	.471	106.4	.657	106.2	.399	104.2
1928	.578	106.9	.473	106.9	.658	106.4	.395	103.2
1929	.589	108.9	.485	109.6	.667	107.8	.398	103.9
1930	.589	108.9	.478	107.8	.662	107.0	.395	103.1
1931	.564	104.3	.460	103.9	.634	102.4	.371	96.8
1932	.497	91.8	.401	90.4	.559	90.3	.324	84.7
1933	.491	90.7	.401	90.5	.550	88.9	.340	88.7
1934	.581	107.4	.478	108.0	.642	103.7	.425	111.0

Source: National Industrial Conference Board (Inc.).

No. 356.—INDEXES OF EMPLOYMENT AND PAY ROLLS IN NONMANUFACTURING INDUSTRIES AND BUSINESS

[Monthly average 1929=100]

Year and month	Anthracite mining		Bituminous coal mining		Metalliferous mining		Quarrying and non metallic mining		Crude petroleum producing		Telephone and telegraph		Power and light	
	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls
1930	93.4	95.3	93.4	81.3	83.2	78.0	84.3	79.3	87.4	85.9	97.9	102.9	103.0	104.3
1931	80.5	75.4	83.2	57.5	59.1	44.8	67.4	53.4	65.7	61.7	86.6	93.7	95.6	96.7
1932	62.5	53.7	67.4	35.6	36.5	21.6	49.0	29.1	55.3	44.1	79.1	81.1	83.0	79.8
1933	51.7	45.8	67.9	37.8	34.6	20.6	44.9	24.7	62.2	44.1	70.4	68.2	78.8	72.0
1934	59.6	55.9	77.2	54.2	41.6	26.7	48.9	29.6	77.7	56.9	70.3	71.5	83.8	77.9
1933														
January	52.5	43.2	69.8	36.1	32.4	18.1	35.1	18.1	57.2	39.9	74.6	71.7	77.7	73.0
February	58.7	56.8	69.3	37.2	31.5	17.8	34.8	17.4	57.0	41.7	73.9	71.9	77.4	71.6
March	54.6	48.8	67.6	30.7	30.0	17.4	35.1	17.8	56.5	42.5	73.2	71.6	76.9	71.9
April	51.6	37.4	63.7	26.6	29.4	16.4	39.3	20.2	56.8	40.1	72.3	67.8	76.9	69.4
May	43.2	30.0	61.2	26.9	30.0	17.0	43.4	23.8	56.9	41.6	70.1	68.5	76.9	69.9
June	39.5	34.3	61.3	29.2	31.5	18.3	47.3	27.5	58.0	40.6	69.2	66.6	77.3	69.9
July	43.8	38.2	63.2	33.6	33.0	19.0	49.5	28.4	59.5	42.2	68.5	66.7	77.5	70.0
August	47.7	46.6	68.6	43.3	36.8	21.9	51.6	29.9	60.8	42.5	68.1	66.1	78.1	70.9
September	56.8	60.7	71.8	44.1	38.9	23.9	52.6	29.3	66.2	44.4	68.3	64.6	80.3	71.8
October	56.9	61.6	68.0	44.1	40.7	25.9	53.2	31.2	70.6	50.1	68.7	67.0	82.2	76.2
November	61.0	47.8	74.8	50.7	40.6	25.6	51.1	28.3	72.2	50.3	68.9	67.7	82.6	74.5
December	54.5	44.3	75.4	50.8	40.6	26.2	45.3	24.4	75.0	53.2	69.4	67.7	81.8	74.4
1934														
January	64.1	73.2	75.8	51.3	39.6	25.4	39.7	21.3	73.2	53.0	70.2	69.0	82.2	73.8
February	63.2	65.8	76.1	54.6	40.3	26.0	38.8	21.0	72.4	50.5	69.8	67.9	81.2	74.4
March	67.5	82.4	77.8	58.9	39.8	25.9	42.0	24.1	72.8	52.5	70.0	70.4	81.7	75.6
April	58.2	51.7	72.2	51.4	41.7	27.2	48.7	29.9	74.0	53.4	70.2	68.8	82.4	76.8
May	63.8	64.0	76.7	54.4	40.8	25.6	54.3	35.0	76.7	56.4	70.2	71.4	83.1	77.6
June	57.5	53.3	76.7	55.1	41.0	26.7	56.6	37.0	80.0	56.9	70.4	71.3	84.0	77.8
July	53.6	42.3	77.0	49.7	39.9	25.1	55.6	35.0	81.6	60.0	71.0	72.3	85.0	81.1
August	49.5	39.7	77.1	50.4	42.7	27.0	54.7	34.0	82.7	61.2	71.0	74.0	85.6	79.9
September	56.9	47.0	78.2	51.4	42.3	25.9	53.3	32.4	81.8	59.7	70.9	72.2	85.8	79.3
October	58.5	48.3	79.3	57.6	43.3	28.2	51.8	32.1	79.5	60.8	70.3	74.9	85.8	80.6
November	60.7	51.2	79.8	58.3	43.2	28.5	49.5	29.4	78.8	59.0	69.9	72.2	85.5	79.6
December	61.6	52.3	79.7	57.0	44.4	29.4	42.1	23.6	78.7	59.5	69.7	73.2	83.6	78.3

Year and month	Electric railroad and motor-bus operation and maintenance [1]		Wholesale trade [2]		Retail trade [2] Total		Retail trade [2] General merchandising		Hotels [2]		Laundries [2]		Dyeing and cleaning	
	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls	Employment	Pay rolls
1930	93.4	93.5	95.7	95.3	96.8	95.3	94.1	93.3	96.5	96.5	(3)	(3)	(3)	(3)
1931	84.7	83.4	85.8	81.9	87.7	83.1	92.2	87.4	86.3	81.4	93.1	88.3	85.6	76.1
1932	75.5	68.0	76.8	64.2	76.8	63.2	82.6	69.5	74.1	60.9	83.5	70.1	75.2	57.3
1933	70.0	58.9	76.1	56.8	76.1	55.2	84.2	65.4	70.1	51.0	78.8	59.5	74.3	49.5
1934	72.1	62.2	82.8	63.0	82.0	60.9	92.7	74.9	80.2	61.6	81.3	64.9	77.1	56.1
1933														
January	70.6	60.9	73.6	58.3	72.1	54.7	76.4	61.4	68.8	52.2	78.6	60.7	67.4	44.2
February	70.4	60.6	72.4	55.1	70.4	51.8	73.0	57.1	68.6	52.1	77.5	58.1	65.6	40.2
March	69.8	59.4	71.3	53.5	68.9	49.0	70.7	53.4	67.2	49.8	76.1	55.4	65.8	38.9
April	69.5	58.1	71.5	52.4	73.3	52.0	80.7	60.8	67.2	48.4	76.5	56.6	74.9	51.7
May	69.1	58.2	72.2	53.8	72.1	51.3	78.5	59.3	68.2	49.1	76.6	57.1	75.7	51.0
June	69.3	58.0	73.9	53.7	73.2	52.2	79.9	60.6	69.5	49.4	79.2	59.4	79.1	53.7
July	69.4	57.4	75.1	55.5	71.0	51.0	74.7	56.4	69.6	49.4	79.5	58.7	76.6	50.0
August	69.5	58.2	77.9	57.2	75.4	54.9	78.4	62.4	70.4	49.6	81.1	60.3	76.8	50.0
September	69.7	57.8	80.3	58.7	80.6	58.7	89.0	71.8	72.4	51.5	82.6	63.5	81.9	57.1
October	70.6	59.8	81.7	62.4	83.3	61.6	93.6	75.3	73.0	53.4	81.3	62.5	81.6	57.4
November	71.0	59.4	81.6	60.5	83.9	61.4	97.0	76.1	72.3	52.7	78.4	60.7	76.1	52.5
December	70.8	59.6	81.5	60.9	89.1	64.0	118.9	90.1	73.9	54.9	78.4	61.1	70.5	47.3
1934														
January	70.5	59.2	80.6	60.3	79.8	59.0	86.6	71.1	76.4	57.2	78.5	61.7	68.1	46.8
February	71.0	60.1	81.2	61.0	79.6	58.8	85.0	68.9	78.9	60.9	78.4	61.7	68.1	46.3
March	71.7	62.2	81.8	62.0	81.5	59.8	90.1	71.5	80.4	62.2	79.2	62.7	72.4	51.7
April	72.2	62.9	82.1	63.1	82.5	61.2	91.0	74.0	81.5	62.7	80.5	64.4	79.9	60.8
May	72.6	63.0	82.8	62.6	82.9	61.5	92.0	74.5	81.8	62.9	82.1	66.9	84.3	65.1
June	73.2	63.2	82.3	62.8	82.6	61.4	90.6	73.9	81.9	62.9	84.0	68.3	84.9	64.1
July	73.1	63.8	82.2	63.8	79.0	60.1	83.0	69.5	80.4	61.5	84.6	68.2	80.5	58.9
August	72.8	62.8	82.5	62.7	77.8	58.4	81.2	66.9	80.0	60.2	83.7	66.6	78.6	56.7
September	72.5	62.4	83.5	63.6	81.7	60.6	91.5	74.0	80.0	61.0	82.9	65.9	80.0	59.0
October	72.2	63.0	84.3	64.5	82.6	61.9	94.2	77.3	80.9	62.7	81.7	64.8	80.3	59.1
November	71.8	61.8	85.1	64.2	83.7	61.8	100.2	79.8	80.6	62.4	80.3	63.7	75.8	53.9
December	71.0	62.3	85.0	64.8	90.9	66.0	127.3	97.8	80.0	62.2	79.5	63.3	72.4	51.1

[1] Not including electric-railroad-car building and repairing; see under manufacturing industries, p. 318.
[2] Adjusted to conform with the Federal Census data through 1933 for trade and 1931 for hotels and laundries. Indexes for hotels relate to year-round hotels having 25 or more guest rooms.
[3] Data are not available.

Source: Bureau of Labor Statistics, Department of Labor.

No. 357.—INDEX NUMBERS OF UNION WAGE RATES AND HOURS OF LABOR

NOTE.—Index numbers subsequent to 1924 cover only the occupations listed in table 359; for previous years they included also the metal and millwork trades. See also headnote, table 358

[Rates and hours for 1913=100]

Year	Rates of wages per hour	Hours per full-time week	Rates of wages per full-time week	Year	Rates of wages per hour	Hours per full-time week	Rates of wages per full-time week
1907	89.7	102.6	91.5	1921	205.3	93.9	193.3
1908	91.0	102.1	92.5	1922	193.1	94.4	183.0
1909	91.9	101.9	93.3	1923	210.6	94.3	198.6
1910	94.4	101.1	95.2	1924	228.1	93.9	214.3
1911	96.0	100.7	96.5	1925	237.9	93.0	222.3
1912	97.6	100.3	97.7	1926	250.3	92.8	233.4
1913	100.0	100.0	100.0	1927	259.5	92.4	240.8
1914	101.9	99.6	101.6	1928	260.6	91.9	240.6
1915	102.8	99.4	102.3	1929	262.1	91.5	240.7
1916	107.2	98.8	106.2	1930	272.1	89.8	243.8
1917	114.1	98.4	112.4	1931	273.0	89.2	242.9
1918	132.7	97.0	129.6	1932	241.8	87.7	212.2
1919	154.5	94.7	147.8	1933	231.2	88.0	203.0
1920	199.0	93.8	188.5				

Source: Bureau of Labor Statistics, Department of Labor.

No. 358.—INDEX NUMBERS OF UNION HOURS OF LABOR PER WEEK AND RATES OF WAGES PER HOUR, BY OCCUPATIONS

NOTE.—Data cover the principal cities of the United States. The relative hours are percentages showing the change in the regular full-time working hours per week, account not being taken of loss of time from slack work or other causes nor of overtime work. The relative wages are percentages which indicate the change in wages per hour. The figures are based on the scale prevailing May 15 each year. Data for 1934 and 1935 are being compiled by the Department of Labor but are not available at the time this publication goes to press

[Rates and hours for 1913=100]

Year	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
	Bakers		Building trades									
			Bricklayers, building		Building laborers		Carpenters, general		Carpenters: Parquetry-floor layers		Cement finishers	
1910	109.1	85.8	100.6	96.7	100.0	94.5	100.7	95.1	------	------	102.1	94.2
1921	90.3	278.7	98.7	172.7	94.7	227.7	98.4	197.8	94.1	219.6	95.0	188.4
1923	90.2	276.0	98.6	191.1	94.7	218.1	98.8	204.0	93.6	222.0	95.0	191.2
1925	89.7	293.4	98.5	213.4	94.5	231.6	98.8	222.8	93.4	215.7	94.7	212.6
1926	90.5	277.2	98.5	226.4	94.7	254.9	98.8	238.4	94.1	253.1	94.7	226.9
1927	90.2	286.8	98.1	231.9	94.9	255.8	98.8	246.7	93.9	250.2	94.4	236.8
1928	89.6	285.9	98.0	233.9	94.8	257.0	98.2	247.5	93.3	236.1	93.8	234.6
1929	89.4	293.4	95.5	239.6	94.7	258.2	98.2	252.0	93.6	241.9	93.9	234.6
1930	89.4	289.2	93.3	245.1	92.8	275.3	95.1	261.6	87.7	259.5	90.3	256.4
1931	89.8	279.9	91.7	245.9	91.3	267.5	93.5	263.5	86.5	262.8	90.0	253.3
1932	90.2	285.0	88.6	211.9	89.0	228.3	91.1	219.4	87.1	208.3	88.4	213.8
1933	89.9	239.5	89.8	207.5	87.6	228.0	90.5	208.1	84.9	176.6	89.6	210.9
	Building trades—Continued											
	Engineers, portable and hoisting		Hod carriers		Inside wiremen		Lathers		Marble setters		Painters, building	
1910	------	------	101.2	97.2	100.8	95.9	------	------	100.5	92.5	101.3	92.6
1921	96.3	178.2	98.0	237.8	96.2	201.9	98.1	192.1	99.2	160.6	94.7	212.8
1923	95.6	185.5	98.1	215.4	96.2	197.1	98.4	199.3	99.2	178.0	95.1	218.7
1925	95.9	205.7	97.9	251.5	96.2	232.4	97.9	234.5	99.2	190.0	95.3	243.1
1926	96.1	217.2	98.0	273.8	96.1	244.6	97.6	240.6	99.2	212.3	94.9	257.5
1927	97.7	224.2	98.0	280.4	96.2	254.9	97.2	250.3	99.1	217.0	94.5	266.2
1928	96.6	233.5	98.0	280.7	95.7	257.2	96.7	251.0	99.1	218.0	92.0	270.8
1929	96.9	232.5	92.7	293.0	93.4	268.2	96.2	249.0	99.1	233.4	91.8	270.2
1930	93.5	259.0	92.9	302.3	91.2	271.1	90.9	259.4	93.8	234.5	90.5	289.5
1931	92.3	261.4	92.1	297.3	90.3	275.1	90.2	262.6	92.2	235.5	89.7	292.4
1932	89.6	245.7	89.8	241.3	87.6	262.5	89.8	232.4	91.2	214.6	89.3	242.3
1933	89.7	214.8	89.8	206.1	87.8	241.1	89.5	219.6	91.1	209.5	89.0	245.3

No. 358.—Index Numbers of Union Hours of Labor per Week and Rates of Wages per Hour, by Occupations—Continued

Year	Building trades—Continued											
	Plasterers		Plasterers' laborers		Plumbers and gas fitters		Sheet-metal workers		Steam and sprinkler fitters		Stonemasons	
	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
1910	100.6	96.6	100.6	96.4	101.1	90.9	101.7	91.0	101.3	91.9	100.8	94.7
1921	97.5	180.5	98.3	219.1	97.8	181.1	97.1	202.3	97.0	171.3	99.2	193.0
1923	98.1	193.2	98.4	212.0	97.7	185.6	97.1	201.9	97.0	175.6	99.2	212.5
1925	97.9	219.8	98.1	243.1	97.7	206.6	97.1	229.3	97.0	212.2	98.9	229.5
1926	95.1	236.1	94.9	257.2	97.7	222.7	97.1	244.8	96.9	229.7	99.1	253.1
1927	94.7	241.0	94.9	259.7	97.6	227.2	96.8	252.2	96.8	236.2	98.9	256.0
1928	93.9	241.6	95.1	264.1	97.5	232.1	91.5	247.4	96.8	239.5	98.8	259.3
1929	93.0	238.6	95.0	265.0	96.7	233.8	96.4	256.9	96.3	241.0	95.9	266.5
1930	91.2	250.3	91.9	282.3	92.0	240.0	92.7	268.5	92.0	252.2	92.9	266.4
1931	90.6	253.0	92.0	274.3	90.9	244.2	91.2	273.2	91.2	254.5	91.1	269.0
1932	89.0	210.6	91.5	221.3	89.7	210.0	89.0	234.0	88.6	214.2	90.4	237.4
1933	90.1	201.3	90.1	203.7	90.3	209.7	88.7	227.5	88.1	211.3	90.1	224.3

Year	Building trades—Contd.											
	Structural-iron workers		Tile layers		Chauffeurs		Teamsters and drivers		Longshoremen		Granite cutters	
	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
1910	101.7	92.7	------	------	------	------	------	------	------	------	101.8	93.7
1921	98.7	184.0	98.3	161.9	87.5	202.5	88.2	223.0	76.6	236.8	100.1	209.0
1923	98.8	178.4	98.4	174.0	88.6	197.7	89.3	224.9	81.8	209.2	99.8	212.7
1925	98.8	204.5	98.4	202.3	87.7	223.5	88.2	254.3	77.5	239.9	100.2	216.8
1926	98.7	218.5	98.4	212.0	85.1	226.3	89.0	256.6	76.7	242.0	100.0	244.1
1927	98.7	235.5	98.3	221.9	83.8	242.1	88.3	269.1	75.7	236.7	100.2	242.6
1928	98.7	235.7	98.0	221.8	84.0	243.2	88.2	277.1	75.6	248.6	100.2	245.3
1929	98.2	236.0	97.8	224.2	82.7	244.2	87.5	279.8	75.7	250.1	99.9	249.8
1930	95.4	248.1	92.8	234.9	82.2	249.4	87.8	292.0	75.6	253.5	95.2	262.3
1931	94.1	251.6	91.5	237.2	81.8	253.9	89.9	287.8	76.0	251.5	94.2	262.5
1932	91.5	215.4	89.5	206.1	82.0	244.9	84.8	299.2	75.7	251.5	94.4	234.1
1933	91.2	212.8	90.2	204.5	81.6	228.7	85.7	249.3	75.5	242.5	92.6	228.5

Year	Printing and publishing: Book and job											
	Bookbinders		Compositors, hand		Electrotypers		Machine operators, timework		Press assistants and feeders		Pressmen, cylinder	
	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
1910	100.3	95.1	100.1	94.1	100.8	91.5	100.3	93.9	100.2	92.4	100.0	95.4
1921	94.7	220.1	94.3	219.6	96.5	223.1	93.9	200.6	94.2	245.8	94.5	205.5
1923	93.4	224.0	91.4	228.5	95.9	241.6	92.2	203.8	92.5	266.2	93.0	216.7
1925	93.3	236.6	91.7	237.4	96.6	249.7	92.2	211.7	92.4	278.8	92.6	225.9
1926	93.2	240.8	91.7	242.1	96.6	252.2	92.0	215.2	92.3	281.9	92.4	230.5
1927	93.0	246.0	91.7	246.6	96.6	255.2	92.2	223.0	92.2	285.3	92.4	230.9
1928	93.6	244.8	91.7	250.1	96.6	257.1	92.0	224.6	92.2	287.0	92.3	232.7
1929	93.0	247.5	91.7	251.5	96.3	263.2	92.0	228.0	92.1	289.7	92.3	236.8
1930	93.5	250.7	91.7	259.3	95.2	269.9	92.0	238.0	92.1	294.8	92.3	240.1
1931	93.3	252.7	91.7	260.2	94.5	274.5	91.9	228.8	92.1	299.9	92.4	239.1
1932	92.9	244.0	91.4	259.3	94.6	272.8	91.9	240.1	81.1	290.4	84.4	236.2
1933	92.4	239.1	88.6	237.2	89.7	253.9	87.8	218.3	84.8	271.3	84.9	224.1

Year	Printing and publishing: Book and job—Con.		Printing and publishing: Newspaper									
	Pressmen, platen		Compositors, hand, daywork		Machine operators, daywork, (timework)		Machine tenders, (machinists), daywork		Pressmen, web presses, daywork		Stereotypers, daywork	
	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour	Hours per week	Wages per hour
1910	99.8	94.9	100.4	92.7	100.5	94.8	------	------	100.3	95.5	100.5	92.1
1921	94.7	231.7	99.5	174.9	99.2	175.5	99.8	178.5	100.6	184.1	98.1	173.9
1923	92.9	235.8	100.6	177.9	100.3	183.1	100.5	180.9	102.3	182.4	99.9	174.9
1925	93.1	244.3	99.4	193.7	99.0	198.0	100.3	185.3	100.0	208.2	99.6	184.5
1926	92.3	255.8	99.3	196.7	98.9	201.6	100.2	185.2	100.3	212.2	99.6	188.1
1927	92.3	258.3	99.3	201.8	98.5	208.9	100.1	194.5	99.9	223.3	99.1	191.0
1928	92.5	253.9	98.9	206.6	98.2	213.8	100.0	198.4	99.9	224.9	99.5	191.0
1929	92.6	257.8	98.4	211.3	98.3	217.4	99.6	201.7	99.8	228.1	98.5	200.1
1930	92.6	259.9	98.4	212.5	98.2	216.7	99.2	205.1	99.9	229.3	98.5	201.8
1931	92.5	260.2	98.4	212.5	98.3	220.0	99.3	204.7	99.9	231.2	98.6	201.6
1932	90.4	250.1	95.5	204.5	96.0	214.2	92.7	209.7	97.8	235.0	98.0	203.9
1933	87.5	241.3	93.9	195.7	95.0	197.1	94.9	186.0	99.1	215.3	96.9	190.4

Source: Bureau of Labor Statistics, Department of Labor.

No. 359.—AVERAGE UNION RATES OF WAGES PER HOUR IN TRADES SPECIFIED, FOR THE UNITED STATES, AS OF MAY 15

NOTE.—Statistics cover the principal cities of the United States. For index numbers in the principal trades, based on these rates, see table 358. See also headnote of that table regarding data for 1934 and 1935

Occupation	1931	1932	1933
	Dols.	*Dols.*	*Dols.*
Grand average, all trades herein covered [1]	1.254	1.111	1.062
Bakers	.934	.951	.799
BUILDING TRADES			
Asbestos workers	1.471	1.237	1.222
Bricklayers:			
Building	1.700	1.465	1.435
Sewer, tunnel, and caisson	2.039	1.522	1.604
Building labor group:			
Building laborers	.893	.762	.761
Hod carriers	1.088	.883	.754
Plasterers' laborers	1.128	.910	.838
Plumbers' laborers	1.051	.883	.908
Carpenters:			
General	1.400	1.166	1.106
Millwrights	1.349	1.108	1.047
Parquetry-floor layers	1.494	1.184	1.004
Ship	1.372	1.109	1.021
Wharf and bridge	1.383	1.153	1.228
Cement finishers	1.475	1.245	1.228
Composition roofers	1.432	1.182	1.207
Composition roofers' helpers	.782	.730	.682
Elevator constructors	1.524	1.409	1.295
Elevator constructors' helpers	1.098	1.004	.936
Engineers, portable and hoisting	1.608	1.511	1.321
Glaziers	1.428	1.211	1.222
Inside wiremen	1.506	1.437	1.320
Inside wiremen, fixture hangers	1.335	1.276	1.002
Lathers	1.565	1.385	1.309
Marble setters	1.572	1.432	1.398
Marble setters' helpers	1.026	.931	.938
Mosaic and terrazzo workers	1.466	1.356	1.238
Painters:			
Building	1.482	1.228	1.243
Fresco	1.456	1.051	1.070
Sign	1.573	1.393	1.338
Plasterers	1.709	1.423	1.360
Plumbers and gas fitters	1.514	1.302	1.300
Sheet-metal workers	1.441	1.234	1.200
Slate and tile roofers	1.576	1.401	1.375
Steam and sprinkler fitters	1.525	1.283	1.266
Steam and sprinkler fitters' helpers	1.084	.953	.926
Stonemasons	1.642	1.449	1.369
Structural-iron:			
Workers	1.564	1.339	1.323
Finishers	1.598	1.332	1.346
Tile layers	1.554	1.350	1.340
Tile layers' helpers	1.047	.923	.831
Average, building trades	1.428	1.216	1.201
PRINTING AND PUBLISHING: BOOK AND JOB			
	Dols.	*Dols.*	*Dols.*
Bindery women	0.541	0.515	0.509
Bookbinders	1.023	.988	.968
Compositors, hand	1.166	1.162	1.063
Electrotypers	1.315	1.307	1.216
Machine operators, timework	1.192	1.251	1.137
Machine tenders (machinists)	1.218	1.279	1.191
Photo-engravers	1.329	1.371	1.321
Press assistants and feeders	.880	.852	.796
Pressmen:			
Cylinder	1.161	1.147	1.088
Platen	.948	.911	.879
Average, printing and publishing, book and job	1.068	1.084	1.006
PRINTING AND PUBLISHING: NEWSPAPER			
Compositors, hand:			
Daywork	1.210	1.164	1.114
Nightwork	1.311	1.283	1.222
Machine operators, daywork:			
Piecework	[2] .147	[2] .149	[2] .129
Timework	1.239	1.206	1.110
Machine operators, nightwork:			
Piecework	[2] .167	[2] .167	[2] .158
Timework	1.339	1.335	1.219
Machine tenders (machinists)			
Daywork	1.204	1.233	1.094
Nightwork	1.332	1.380	1.211
Photo-engravers:			
Daywork	1.354	1.347	1.263
Nightwork	1.653	1.652	1.478
Pressmen, web presses:			
Daywork	1.104	1.122	1.028
Nightwork	1.292	1.306	1.240
Stereotypers:			
Daywork	1.063	1.075	1.004
Nightwork	1.241	1.227	1.160
Average, printing and publishing, newspaper	1.247	1.231	1.149
CHAUFFEURS AND TEAMSTERS AND DRIVERS			
Chauffeurs	.737	.711	.664
Teamsters and drivers	.755	.785	.654
Average, chauffeurs, etc.	.740	.722	.663
GRANITE AND STONE TRADES			
Granite cutters	1.344	1.199	1.170
Stonecutters	1.524	1.380	1.294
Average, granite and stone trades	1.437	1.293	1.234
MISCELLANEOUS TRADES			
Laundry workers	.481	.487	.435
Linemen	1.135	1.091	1.034
Longshoremen	.868	.868	.837

[1] Except piecework.

[2] Rate per 1,000 ems.

Source: Bureau of Labor Statistics, Department of Labor.

No. 360.—EMPLOYMENT AND PAY ROLLS ON PUBLIC WORKS FUNDS PROJECTS

NOTE.—**Amount of pay rolls in thousands of dollars.** Data relate to workers at site of Federal and non-Federal construction projects and jobs in railway car and locomotive shops financed in whole or in part from Public Works funds. Figures are in part duplicated in data shown elsewhere for Federal employees, railroads, and other agencies engaged on force-account projects (projects for which contracts are not let). Number of wage earners is weekly average for public-road projects; maximum number for other projects

Year and month	Number of wage earners	Amount of pay rolls	Average earnings per hour	Year and month	Number of wage earners	Amount of pay rolls	Average earnings per hour
1933:				1934—continued:			
July	267	26	$0.751	July	644,729	34,845	$0.574
August	4,719	132	.637	August	602,360	35,126	.586
September	39,535	1,785	.542	September	549,624	31,689	.613
October	146,747	6,354	.528	October	507,886	29,289	.628
November	255,512	11,553	.531	November	470,467	28,791	.620
December	300,758	13,092	.537	December	382,594	22,444	.642
1934:				1935:			
January	298,069	12,646	.540	January	304,723	18,463	.672
February	311,381	14,348	.541	February	272,273	16,896	.672
March	307,274	14,113	.553	March	281,461	17,401	.669
April	382,220	18,785	.570	April	333,045	20,940	.667
May	506,056	25,942	.563	May	394,875	24,490	.667
June	610,752	33,808	.565	June	414,306	26,387	.654

No. 361.—UNEMPLOYMENT RELIEF: FAMILIES AND SINGLE PERSONS RECEIVING RELIEF AND OBLIGATIONS INCURRED FOR RELIEF FROM PUBLIC FUNDS AS REPORTED TO THE FEDERAL EMERGENCY RELIEF ADMINISTRATION

Year and month	Resident families and single persons receiving relief (thousands)[1]				Transients receiving relief[3] (thousands)	Obligations incurred for relief (thous. of dollars)							Average relief benefits per family per month (6)
						Total	Direct relief	Work relief[4]	All other[5]	Source of funds: From Federal funds		Source of funds: From State and local funds	
	Families	Single persons	Total persons	Percent of total population[2]						Amount	Percent of total		
1933						792,762	377,260	192,962	222,540	480,601	61	312,161	
Jan.	[7]3,850	(8)	(8)	(8)	(8)	60,827	(8)	(8)	(8)	31,175	51	29,652	(8)
Feb.	[7]4,140	(8)	(8)	(8)	(8)	67,375	(8)	(8)	(8)	39,850	59	27,525	(8)
Mar.	[7]4,560	(8)	(8)	(8)	(8)	81,206	(8)	(8)	(8)	51,356	63	29,850	(8)
Apr.	4,475	(8)	(8)	(8)	(8)	73,011	44,324	24,311	4,376	45,374	62	27,637	[9]$14.13
May	4,252	(8)	(8)	(8)	(8)	70,806	41,347	25,169	4,290	48,803	69	22,003	15.59
June	3,789	(8)	(8)	(8)	(8)	66,339	39,423	22,630	4,286	42,524	64	23,815	[9]14.93
July	3,452	[7]455	[7]15,282	12	(8)	60,156	34,736	21,577	3,843	37,482	62	22,674	15.07
Aug.	3,352	[7]412	[7]15,077	12	(8)	61,470	33,413	23,796	4,261	39,781	65	21,689	[9]15.20
Sept.	2,985	[7]403	[7]13,338	11	(8)	59,346	32,798	21,966	4,582	36,289	61	23,057	17.17
Oct.	3,011	[7]436	[7]13,618	11	(8)	64,889	35,249	23,851	5,789	40,415	62	24,474	19.18
Nov.[10]	3,365	461	15,080	12	(8)	70,811	43,371	21,725	5,715	39,797	56	31,014	18.31
Dec.[10]	2,631	438	11,665	10	(8)	56,526	45,793	3,468	7,265	27,755	49	28,771	16.88
1934						1,478,026	656,858	461,914	359,254	1,068,588	72	409,438	
Jan.[10]	2,486	456	11,087	9	(8)	53,881	43,740	1,561	8,580	29,066	54	24,815	16.71
Feb.[10]	2,600	532	11,627	9	127	57,668	45,894	1,589	10,185	26,463	46	31,205	16.87
Mar.[10]	3,071	563	13,494	11	145	69,813	54,242	3,377	12,194	32,522	47	37,290	17.93
Apr.	3,847	590	16,840	14	164	113,307	55,215	38,971	19,121	82,300	73	31,008	20.98
May	3,816	620	17,233	14	174	128,286	54,879	42,703	30,704	95,543	75	32,743	23.90
June	3,766	561	16,880	14	187	125,356	51,120	42,424	31,812	91,997	73	33,359	23.28
July	3,858	543	17,260	14	195	130,941	50,096	47,367	33,478	95,158	73	35,783	24.05
Aug.	4,055	571	18,179	15	206	149,165	54,545	54,921	39,699	112,707	76	36,458	25.83
Sept.	4,090	658	18,389	15	222	141,477	52,882	50,290	38,305	108,316	77	33,161	24.10
Oct.	4,095	722	18,405	15	236	156,367	59,698	53,902	42,767	121,871	78	34,496	26.39
Nov.	4,218	772	18,951	15	267	172,265	63,128	62,850	46,287	133,865	78	38,400	28.31
Dec.	4,464	800	20,046	16	289	179,500	71,419	61,959	46,122	138,780	77	40,720	28.37
1935:													
Jan.	4,618	851	20,670	17	297	196,751	76,524	71,686	48,541	152,182	77	44,569	30.43
Feb.	4,574	864	20,536	17	300	180,429	71,843	63,624	44,962	141,614	79	38,815	28.05
Mar.	4,588	880	20,552	17	300	188,244	74,265	62,868	51,111	146,341	78	41,902	28.73
Apr.	4,471	882	20,035	16	294	188,027	70,767	62,344	54,916	142,051	76	45,975	28.96
May	4,301	863	19,250	16	287	188,093	65,855	64,560	57,678	144,448	77	43,645	29.34

[1] Covers the general relief programs (direct relief and work program) and special programs (rural rehabilitation, emergency education, and college student aid).
[2] Based on the 1930 Census of Population.
[3] Middle of the month figures.
[4] Beginning April 1934, represents earnings of relief persons under the E. R. A. work program.
[5] Includes obligations incurred for relief under the special programs, for administration and, since April 1934, for purchases of materials, supplies, and equipment, rentals of equipment, earnings of nonrelief persons employed, and other expenses incident to the work program.
[6] Covers only direct relief and work program earnings of families under the general relief program.
[7] Partially estimated.
[8] Data not available.
[9] Average per case.
[10] Figures do not include the Civil Works program which was in existence November 1933 to March 1934.

Sources: Table 360, Bureau of Labor Statistics, Department of Labor; table 361, Federal Emergency Relief Administration.

No. 362.—UNEMPLOYMENT RELIEF: Persons Receiving Relief and Obligations Incurred for Relief from Public Funds as Reported to the Federal Emergency Relief Administration, by States

State	Persons receiving relief, Dec. 1934 [1] (thous.)	Percent of total population [2]	Obligations incurred during 1934 (thous. of dollars) [3]		State	Persons receiving relief, Dec. 1934 [1] (thous.)	Percent of total population [2]	Obligations incurred during 1934 (thous. of dollars) [3]	
			Total	Federal funds				Total	Federal funds
United States	**20,046**	**16**	**1,478,026**	**1,068,588**	Montana	105	20	11,187	9,960
					Nebraska	190	14	10,183	7,988
Alabama	337	13	18,990	18,097	Nevada	11	13	2,434	2,357
Arizona	93	21	7,746	6,592	New Hampshire	43	9	4,240	2,528
Arkansas	357	19	17,048	16,153	New Jersey	658	16	49,798	42,631
California	803	14	66,830	48,434	New Mexico	129	31	6,415	6,359
Colorado	223	22	17,716	13,979	New York	2,077	17	274,379	152,496
Connecticut	183	11	18,504	9,491	North Carolina	328	10	13,993	13,804
Delaware	19	8	1,646	829	North Dakota	196	29	12,471	11,469
Dist. of Col	66	14	8,341	7,318	Ohio	1,193	18	77,334	57,237
Florida	307	21	18,038	18,027	Oklahoma	677	28	19,642	16,409
Georgia	389	13	20,550	19,588	Oregon	123	13	9,818	8,262
Idaho	105	24	6,623	6,019	Pennsylvania	1,738	18	146,092	105,575
Illinois	1,129	15	106,984	72,288	Rhode Island	75	11	7,103	3,246
Indiana	486	15	31,477	20,787	South Carolina	299	17	14,568	14,178
Iowa	259	11	14,260	7,849	South Dakota	286	41	20,886	19,559
Kansas	316	17	19,882	14,570	Tennessee	301	12	13,345	12,762
Kentucky	483	19	15,590	13,307	Texas	1,138	20	35,624	21,923
Louisiana	277	13	19,489	19,072	Utah	117	23	10,721	8,607
Maine	80	10	8,878	5,372	Vermont	27	8	1,980	1,191
Maryland	175	11	19,843	14,713	Virginia	194	8	7,697	6,750
Massachusetts	690	16	72,960	40,191	Washington	202	13	16,683	13,787
Michigan	866	18	60,760	41,190	West Virginia	396	23	19,176	16,683
Minnesota	568	22	35,218	28,573	Wisconsin	432	15	39,206	30,787
Mississippi	277	14	12,795	12,551	Wyoming	34	15	3,900	3,811
Missouri	589	16	28,983	23,239					

[1] Does not include transients. See also note 1, table 361.
[2] Based on 1930 Census of Population.
[3] Includes obligations incurred for relief under the general relief program, under all special programs, for administration, purchases of materials, supplies and equipment, rental of equipment, earnings of nonrelief persons, and other expenses incident to the work program.

Source: Federal Emergency Relief Administration.

No. 363.—EMERGENCY CONSERVATION WORK: Enrolled Strength of Civilian Conservation Corps and Amount Expended or Obligated

Note—Data for enrolled strength represent continental United States, while those for expenditures or obligations include Alaska, Hawaii, and Puerto Rico for 1933-34, and for 1934-35, also the Virgin Islands

Month	Enrolled strength at end of month [1]		Object of expenditure	Expended or obligated (thousands of dollars)	
	1933-34 [2]	1934-35 [2]		1933-34 [2]	1934-35 [2 4]
April	37,189	267,256	Total	296,128	450,046
May	154,238	285,546			
June	279,722	232,677	Allowance to members	90,161	126,426
July	293,582	345,181	Pay of civilian employees	28,377	43,862
August	275,998	338,047	Clothing, subsistence, etc.[5]	91,946	144,767
September [3]	208,700	277,704	Supplies, materials, and equipment	41,696	56,506
October	240,241	349,334	Travel of persons	11,655	14,209
November	287,733	337,456	Transportation of things	7,392	9,690
December	278,517	299,479	Miscellaneous	14,903	31,259
January	289,184	346,245	Acquisition of land	9,998	23,327
February	278,766	332,876			
March [3]	211,747	241,810			

[1] Excludes Indians and Territorial enrollees, averaging about 9,000 per month.
[2] Years ended March.
[3] Last day enrollment is low for these months as they are the end of a 6 months' discharge period.
[4] Includes oligations contracted for in January, Febbruary, and March 1935, for actual operations and enlargement of Civilian Conservation Corps, which took place subsequent to March 1935.
[5] Includes shelter, clothing, medical supplies and treatment, and utilities.

Source: Director of Emergency Conservation Work.

16.—POSTAL SERVICE

[Postal statistics, unless otherwise noted, include data for outlying territories and possessions except Philippine Islands and Canal Zone]

No. 364.—UNITED STATES POSTAL SERVICE, 1800 TO 1934

Year ended June 30—	Number of post offices	Mileage of post routes [1]	Finances, thousands of dollars: Gross revenue	Finances, thousands of dollars: Gross expenditure	Finances, thousands of dollars: Surplus (+) or deficit (−) [2]	Revenue per capita, dollars	Money orders issued, thousands of dollars: Domestic [3]	Money orders issued, thousands of dollars: International [3]	Number of ordinary postage stamps issued, millions	Number of pieces of mail handled, millions [4]
1800	903	20,817	281	214	+67					
1810	2,300	36,406	552	496	+56					
1820	4,500	72,492	1,112	1,161	−49					
1830	8,450	115,176	1,851	1,933	−82					
1840	13,468	155,739	4,544	4,718	−175	0.27				
1850	18,417	178,672	5,600	5,213	+287	.20			[5] 2	
1860	28,498	240,594	8,518	19,171	−10,653	.27			216	
1865	20,550	142,340	14,556	13,695	+917	.42	[6] 1,360		387	
1870	28,492	231,232	18,880	23,999	−5,098	.49	34,054	[7] 22	468	
1875	35,547	277,873	26,791	33,611	−6,820	.61	77,431	1,965	682	
1880	42,989	343,888	33,315	36,543	−3,222	.66	100,353	3,464	876	
1885	51,252	365,251	42,561	50,046	−7,481	.76	117,859	6,840	1,465	
1890	62,401	427,990	60,882	66,260	−5,401	.97	114,363	13,230	2,220	4,005
1895	70,064	456,026	76,983	87,180	−10,230	1.12	156,709	12,906	2,795	5,134
1897	71,022	470,032	82,665	94,077	−11,432	1.15	174,483	13,588	3,064	5,781
1898	73,570	480,461	89,013	98,034	−9,055	1.22	191,354	13,240	3,418	6,214
1899	75,000	496,948	95,021	101,632	−6,630	1.28	211,214	13,745	3,693	6,576
1900	76,688	500,989	102,355	107,740	−5,410	1.34	238,921	16,749	3,999	7,130
1901	76,945	511,808	111,631	115,555	−3,982	1.43	274,546	20,073	4,239	7,424
1902	75,924	507,540	121,848	124,786	−2,961	1.53	313,551	22,974	4,621	8,085
1903	74,169	506,268	134,224	138,784	−4,587	1.66	353,628	35,238	5,271	8,887
1904	71,131	496,818	143,583	152,362	−8,813	1.74	378,778	42,550	5,331	9,502
1905	68,131	486,805	152,827	167,399	−14,594	1.81	396,903	47,516	5,751	10,188
1906	65,600	478,711	167,933	178,450	−10,543	1.96	444,516	63,048	6,284	11,361
1907	62,658	463,406	183,585	190,238	−6,692	2.11	479,650	84,081	7,061	12,256
1908	60,704	450,738	191,479	208,352	−16,910	2.15	498,700	88,972	7,651	13,364
1909	60,144	448,618	203,562	221,004	−17,480	2.24	491,075	76,755	8,732	14,005
1910	59,580	447,998	224,120	229,977	−5,881	2.43	547,994	99,743	9,067	14,850
1911	59,237	435,488	237,880	237,649	+219	2.53	578,111	109,605	10,046	16,901
1912	58,729	436,469	246,744	248,525	−1,786	2.58	583,337	97,660	9,929	17,589
1913	58,020	436,293	266,620	262,068	+4,511	2.74	624,489	102,668	10,813	18,567
1914	56,810	435,597	287,935	283,544	+4,376	2.91	667,231	101,963	11,112	
1915	56,380	433,334	287,248	298,546	−11,333	2.85	656,139	60,772	11,226	
1916	55,935	425,950	312,058	306,204	+5,829	3.05	719,365	46,357	11,672	
1917	55,414	454,835	329,726	319,839	+9,836	3.18	813,319	41,645	12,452	
1918 [8]	54,347	465,371	388,976	324,834	+64,127	3.70	904,650	35,865	13,066	
1919 [8]	53,084	455,498	436,239	362,498	+73,735	4.11	1,109,613	39,766	15,020	
1920	52,641	436,342	437,150	454,323	−17,270	4.10	1,332,700	32,960	13,213	
1921	52,168	434,349	463,491	620,994	−157,518	4.28	1,305,370	24,399	13,870	
1922	51,950	454,901	484,854	545,644	−60,815	4.41	1,205,327	20,651	14,262	
1923	51,613	460,171	532,828	556,851	−24,065	4.78	1,376,461	34,119	15,478	23,055
1924	51,266	467,896	572,949	587,377	−14,464	5.08	1,510,705	50,615	15,954	24,358
1925	50,957	464,269	599,591	639,282	−39,745	5.28	1,532,567	52,650	17,387	25,835
1926	50,601	470,779	659,820	679,704	−19,972	5.63	1,590,486	63,172	16,333	25,484
1927	50,266	478,662	683,122	714,577	−31,506	5.76	1,647,580	68,952	16,000	26,687
1928	49,944	487,512	693,634	725,700	−32,121	5.78	1,630,157	71,520	16,676	26,837
1929	49,482	491,179	696,948	782,344	−85,461	5.73	1,658,443	76,113	16,917	27,952
1930	49,063	503,918	705,484	803,667	−98,216	5.75	1,714,576	72,708	16,269	27,888
1931	48,733	528,570	656,463	802,485	−146,066	5.29	1,559,549	62,228	15,559	26,544
1932	48,159	537,644	588,172	793,684	−205,551	4.71	1,536,889	48,849	14,651	24,307
1933	47,641	536,679	587,631	699,887	−112,375	4.67	1,647,421	35,116	11,917	19,868
1934	46,506	536,751	586,733	630,733	−44,034	4.64	1,776,740	30,041	12,526	20,626

[1] Not counting rural free delivery routes.
[2] Audited postal surplus or deficit which is greater or less than excess of receipts or expenditures by the amount of adjusted losses and contingencies.
[3] International includes foreign countries on domestic basis. For explanation see headnote table 366.
[4] Data are for continental United States and are estimates except in 1923 and beginning with 1926, when figures are accurate calculations. No estimates made from 1914 to 1922, inclusive.
[5] Postage stamps first issued under act of Mar. 3, 1847, and placed on sale at New York July 1, 1847.
[6] From Nov. 1, 1864, when money-order system first went into operation, to June 30, 1865.
[7] From Sept. 1, 1869, to June 30, 1870. International money orders first issued under convention of Oct. 12, 1867.
[8] Gross revenues of department for 1918 and 1919 include $44,500,000 and $71,292,000, respectively, war-tax revenue accruing from increased postage.

Source: Annual Reports of the Postmaster General.

No. 365.—REVENUES, UNITED STATES POSTAL SERVICE: Years Ended June 30

[All figures in thousands of dollars]

Item	1910	1915	1920	1925	1930	1932	1933	1934
Total	224, 129	287, 248	437, 150	599, 591	705, 484	588,172	587, 631	586, 733
Ordinary postal revenue	219, 339	279, 460	424, 406	585, 333	686, 426	568, 344	564, 325	559, 920
Stamps, postal cards, etc.[1]	202, 065	256, 037	379, 587	507, 572	574, 851	459, 945	456, 407	449, 773
Second-class postage paid in money (pound rates)[1]	8, 174	10, 468	25, 100	29, 619	28, 584	21, 189	18, 154	19, 357
Other postage paid in money under permit	4, 418	7, 527	12, 960	39, 301	73, 545	77, 736	81, 485	82, 210
Box rents	4, 139	4, 981	6, 145	7, 817	8, 539	7, 832	6, 860	6, 515
Miscellaneous	542	448	614	1, 024	907	1, 641	1, 419	2, 065
Money-order revenues	4, 790	7, 175	10, 314	12, 909	17, 496	15, 762	16, 616	18, 710
Revenue from postal savings	---------	612	2, 430	1, 349	1, 562	4, 066	6, 690	8, 103

[1] For volume of this item, see table 370.

No. 366.—POSTAL MONEY-ORDER BUSINESS: Years Ended June 30

Note.—For revenues from money orders, see table 365. For value of orders issued for other years, see table 364. Money orders are exchanged on a domestic basis not only within this country, but with its outlying possessions, Canada, Cuba, and numerous islands and minor countries neighboring the United States. International-basis orders are exchanged between the United States and its outlying possessions, on the one hand, and other than "domestic basis" foreign countries, on the other. In this table, however, "International" includes money orders exchanged between the United States and "domestic basis" foreign countries, and these are not included in "Domestic"

Item	1910	1915	1920	1925	1930	1932	1933	1934
Number of money-order offices	51, 791	55, 670	54, 395	54, 269	54, 161	55, 081	56, 106	53, 803
DOMESTIC[1]								
Orders issued								
Number (1,000)	76, 918	105, 073	148, 491	197, 054	202, 273	178, 633	170, 932	198, 081
Amount (1,000 dollars)	547, 994	656, 139	1, 332, 700	1, 532, 567	1, 714, 576	1, 536, 889	1, 647, 421	1, 776, 740
Orders paid:								
Number (1,000)	76, 496	103, 884	147, 520	196, 038	201, 453	179, 299	171, 552	196, 624
Amount (1,000 dollars)	545, 632	652, 786	1, 333, 046	1, 531, 597	1, 713, 681	1, 538, 095	1, 642, 617	1, 776, 361
Excess of issues:[2]								
Number (1,000)	422	1, 190	971	1, 015	820	—666	—620	1, 457
Amount (1,000 dollars)	2, 362	1, 353	—346	970	895	—1, 206	—4, 804	378
INTERNATIONAL[3 4]								
Orders issued:								
Number (1,000)	4, 500	3, 055	1, 852	2, 966	3, 978	3, 164	2, 640	2, 360
Amount (1,000 dollars)	99, 743	60, 772	32, 960	52, 650	72, 708	48, 849	35, 116	30, 041
Orders paid:								
Number (1,000)	1, 956	2, 217	1, 508	1, 765	2, 161	1, 237	949	1, 082
Amount (1,000 dollars)	27, 244	24, 743	25, 362	19, 765	25, 825	14, 577	11, 012	13, 145
Excess of issues:								
Number (1,000)	2, 544	837	343	1, 201	1, 817	1, 927	1, 691	1, 278
Amount (1,000 dollars)	72, 499	36, 029	7, 598	32, 886	46, 883	34, 272	24, 104	16, 895
FOREIGN "DOMESTIC BASIS"[5]								
Paid in foreign countries:								
Number (1,000)	667	655	601	938	1, 034	752	548	576
Amount (1,000 dollars)	10, 184	9, 110	9, 568	16, 920	20, 921	12, 224	7, 541	7, 792
Paid in the United States:								
Number (1,000)	1, 566	1, 936	1, 246	1, 498	1, 751	934	678	771
Amount (1,000 dollars)	17, 766	18, 386	17, 916	15, 118	17, 935	8, 454	6, 101	6, 805

[1] Domestic money orders first issued Nov. 1, 1864, under act of Congress approved May 17, 1864.
[2] Minus sign indicates excess of payments.
[3] Includes foreign countries on "domestic basis."
[4] International money orders first issued Sept. 1, 1869, under Postal Convention of Oct. 12, 1867.
[5] Included under "International" above.

Source of tables 365 and 366: Annual Reports of the Postmaster General.

No. 367.—EXPENDITURES, UNITED STATES POSTAL SERVICE: YEARS ENDED JUNE 30

NOTE.—**All figures in thousands of dollars.** For total expenditures see table 364. Data cover expenditures during the specified fiscal year, whether on account of that year or of previous years

Item	1910	1915	1920	1925	1930	1932	1933	1934
Service in post offices (total)	107,771	139,937	234,102	338,046	429,571	418,926	357,949	321,120
Salaries of postmasters	27,514	30,400	40,108	47,562	52,850	50,629	44,350	39,621
Salaries of clerks, etc	38,045	53,317	102,319	153,336	201,972	198,585	168,855	151,622
City delivery service	31,805	42,668	63,626	95,161	127,890	127,290	108,835	98,266
All other expenditures	10,405	13,552	28,049	41,987	46,860	42,422	35,909	31,611
Railway Mail Service	19,389	28,408	38,711	52,906	61,888	62,932	52,097	47,451
Rural Delivery Service	37,074	49,806	75,794	93,163	106,347	106,343	93,802	81,674
Transportation of domestic mail	61,940	76,914	99,520	142,141	176,984	168,181	156,386	140,159
By railroads	49,405	59,576	70,714	99,720	117,265	103,813	95,435	92,518
By other means	12,535	17,338	28,805	42,421	59,720	64,368	60,951	47,641
Transportation foreign mail	3,204	3,273	5,912	9,175	24,449	32,956	35,650	36,966
Payment account of invalid money orders	600	208	284	138	131	140	201	252
Post Office Department [1]				3,712	4,298	4,207	3,802	3,109

[1] Paid out of the General Treasury prior to 1923.

No. 368.—TRANSPORTATION OF DOMESTIC MAILS

NOTE.—**Amounts, except as indicated, in thousands of dollars.** Since Nov. 1, 1916, all service on steam railroads is authorized and paid for under the space basis system; formerly, payments were based on a system of quadrennial weighings. Railway mail space units of service vary in size and character and may consist of a car, a section of a car, or a closed pouch carried on a car. Some cars are railway post offices, others are for storage only, over 20 classes of units being distinguished. The "equated unit" represents a calculation of the equivalent of all the different units in terms of a 60-foot car. Annual rate of expenditure (regular authorizations) represents estimated cost for transporting normal mail traffic over regular routes only, based on contracts outstanding at the end of each fiscal year. "Annual cost" includes emergency and side and transfer service. Average rates are based on "regular authorizations"

Class of service and item	Year ended June 30, or as of June 30 of year specified						
	1910	1915	1920	1925	1930	1933	1934
Steam railway service:							
Length of routes (miles)	220,730	233,676	232,358	230,470	220,416	205,892	201,260
Annual travel (thousand miles)—							
Regular space units	[1] 426,923	[1] 499,011	561,827	579,256	564,801	455,677	453,847
Prorated to 60-foot car basis			218,349	226,395	228,478	198,513	190,929
Annual expenditure—							
Regular authorizations	49,302	58,149	83,731	88,991	103,970	88,956	86,303
Annual cost			89,661	107,491	125,243	104,691	100,896
Average rate of cost—							
Per mile of length (dollars)	223.36	248.84	360.35	386.12	471.70	432.05	428.81
Per unit mile traveled (cents)	[1] 11.55	[1] 11.65	14.90	15.36	18.41	19.52	19.02
Per 60-foot car mile (cents)			38.34	39.31	45.70	45.13	45.50
Railway mail service—							
Number of employees	16,795	19,599	20,407	20,693	21,185	20,154	19,285
Expenditure for salary	19,047	21,205	35,644	48,913	56,577	48,560	44,319
Electric railway service:							
Number of routes	539	569	543	288	224	168	153
Length of routes (miles)	7,198	8,183	8,043	8,042	7,012	5,379	4,824
Annual travel of space units (thousand miles)	[1] 11,630	[1] 13,948	[1] 11,752	10,487	9,829	7,241	6,387
Annual rate of expenditure	674	819	471	566	571	416	364
Average cost per unit mile traveled (cents)	[1] 5.79	[1] 5.87	[1] 4.01	5.39	5.81	5.74	5.70
Power boat service:							
Number of routes	217	260	266	284	265	239	219
Length of routes (miles)	27,256	32,402	34,642	49,791	40,130	38,210	38,977
Annual travel (thousand miles)	4,826	5,685	3,992	5,298	4,806	3,936	3,864
Annual rate of expenditure	705	990	[2] 773	1,492	1,401	1,252	1,220
Average cost per mile traveled (cents)	14.61	17.42	19.36	28.16	29.15	31.80	31.58
Air mail service:							
Length of routes (miles)		[3] 218	3,094	2,665	14,907	27,679	[4] 28,820
Mileage scheduled (thousands)		[3] 18	654	2,160	16,228	38,114	31,224
Miles traveled with mail (thousands)		[3] 16	549	2,077	14,939	35,910	29,111
Mail carried [5] (thousand pounds)		[3] 18	527	233	7,720	6,742	6,477
Cost of service		[3] 14	1,264	2,744	14,618	19,400	[6] 12,130

[1] Annual travel in thousands of miles and average cost per mile traveled. Space basis was not in force.
[2] Exclusive of freight and express service to Alaska or New York Harbor service.
[3] 1918 data.
[4] Advertised mileage, new system.
[5] Beginning 1925, only specially paid air mail was carried.
[6] Subject to revision.

Source of tables 367 and 368: Annual Reports of the Postmaster General.

No. 369.—CITY AND RURAL FREE DELIVERY AND STAR-ROUTE SERVICE

NOTE.—Free city delivery was inaugurated in 1863; rural free delivery in 1897. Star routes are mail routes between towns which are let on a contract basis. Star route service in Alaska is not included in the accompanying table, data for 1934 being as follows: Number of routes, 63; length, 10,216 miles; annual travel, 221,691 miles; annual rate of expenditure, $134,060

As of June 30—	City free delivery			Rural free delivery				Star routes	
	Number of offices	Number of carriers	Annual cost [1] (1,000 dollars)	Number of routes	Length of routes (miles)	Annual travel (1,000 miles)	Annual cost (1,000 dollars)	Number of routes (regular service)	Annual cost (1,000 dollars)
1870	51	1,362	1,231					7,295	5,050
1880	104	2,628	[1] 2,364					9,863	7,321
1890	454	9,066	[1] 7,978					15,887	5,321
1895	604	12,714	12,145					20,733	5,754
1900	796	15,322	14,671	1,259	28,685		420	22,834	5,088
1905	1,144	21,778	20,923	32,110	721,237		20,865	17,199	7,342
1910	1,492	28,715	31,738	41,079	993,068	303,007	36,915	13,425	6,928
1915	1,808	32,902	39,829	43,866	1,067,674	325,305	52,566	11,557	8,713
1917	1,948	34,592	42,009	43,464	1,112,556	336,303	52,420	11,208	8,383
1918	1,992	34,593	42,790	43,453	1,127,110	344,100	52,196	10,958	8,606
1919	2,018	35,024	50,118	43,210	1,143,467	346,066	65,448	10,773	10,055
1920	2,086	36,142	62,841	43,445	1,151,832	348,627	75,562	10,739	11,106
1921	2,161	38,532	72,309	43,752	1,163,896	352,533	83,034	10,664	12,390
1922	2,229	39,485	75,226	44,186	1,180,448	357,254	84,430	10,715	12,641
1923	2,277	40,134	77,945	44,439	1,190,534	360,256	86,172	10,802	12,610
1924	2,325	43,829	82,904	44,760	1,205,714	363,670	86,765	10,802	12,735
1925	2,401	46,251	93,567	45,189	1,227,654	370,273	102,945	10,906	12,774
1926	2,522	48,238	105,370	45,315	1,249,978	377,046	104,117	10,991	12,955
1927	2,812	50,117	113,301	44,730	1,270,746	383,851	104,447	11,215	12,996
1928	2,899	51,293	117,490	44,288	1,289,613	390,054	105,008	11,472	13,541
1929	2,970	52,719	122,515	43,840	1,316,420	398,444	106,202	11,695	13,969
1930	3,050	53,762	126,426	43,278	1,334,842	404,738	106,378	11,788	14,281
1931	3,098	53,387	126,179	42,412	1,354,759	412,382	106,502	12,089	14,532
1932	3,111	52,767	125,700	41,602	1,358,030	412,084	105,824	12,443	14,765
1933	3,111	51,229	107,410	40,013	1,365,712	414,417	103,693	12,596	14,301
1934	3,111	48,275	96,947	37,108	1,359,895	412,721	92,285	12,237	12,942

[1] Data represent audited expenditures; in 1880 and 1890 they include some incidental expense.

No. 370.—POSTAL SERVICE: VOLUME OF CERTAIN ITEMS OF BUSINESS, YEARS ENDED JUNE 30

NOTE.—For sales of postage stamps and other stamped paper and postage collected on second-class matter see table 365

	1910	1915	1920	1925	1930	1933	1934
Transactions in stamped paper:							
Ordinary postage stamps issued (millions)	9,067	11,226	13,213	17,387	16,269	11,917	12,526
Stamped envelopes and wrappers issued (millions)	1,507	1,794	2,350	2,997	3,164	1,645	1,581
Postal cards issued (millions)	726	976	986	1,497	1,643	1,390	1,590
Pieces of mail carried [1] (millions)	14,850			25,835	27,888	19,868	20,626
Second-class matter carried:							
Free in county (1,000 pounds)	55,639	62,142	61,528	69,195	75,326	53,822	54,523
Paid at pound rates (1,000 pounds)	817,773	1,047,144	1,307,227	1,348,297	1,554,415	914,832	968,153
Foreign mails dispatched by sea:							
Letters, post cards (1,000 pounds)	[2] 3,142	3,401	4,608	5,640	7,103	4,562	4,432
Other articles (1,000 pounds)	[2] 17,832	22,848	66,725	66,229	83,377	49,702	47,936
Mail registered:							
Domestic, paid (1,000 pieces)	33,682	27,688	56,951	70,512	76,489	43,740	41,433
International, paid (1,000 pieces)	4,782	4,325	11,300	10,993	7,869	4,237	4,007
Official, free (1,000 pieces)	3,589	5,297	8,663	8,414	8,680	9,220	9,934
Registry fees (1,000 dollars)	3,594	3,201	6,825	8,850	12,807	[3] 7,601	[3] 7,186
Mail insured:							
Domestic, parcel post (1,000 pieces)		18,012	95,385	152,078	126,421	69,362	67,561
International (1,000 pieces)				603	649	357	298
Total fees paid (1,000 dollars)		941	5,416	8,061	8,775	5,062	4,969
Mail sent C. O. D.:							
Total pieces sent (1,000)		4,721	20,098	52,362	46,249	28,451	30,650
Total fees (1,000 dollars)		472	2,070	5,562	5,825	3,848	4,222

[1] See note 4, table 364.
[2] Excluding mails carried by domestic contract steamers, or steamers subsidized by foreign countries.
[3] Not including surcharges (effective July 1, 1932) amounting to $2,824,000 in 1933 and $2,860,000 in 1934.

Source of tables 369 and 370: Annual Reports of the Postmaster General.

No. 371.—POSTAL SERVICE: By States and Outlying Areas

Division and State	Number of post offices, June 30, 1934	Mileage of rural free-delivery routes, June 30, 1934	Gross postal receipts [1]					
			1920	1925	1930	1932	1933	1934
			In thousands of dollars for years ended June 30					
Grand total	46, 506	1, 359, 895	424, 525	584, 755	686, 351	567, 016	563, 356	558, 327
United States proper	46, 112	1, 359, 840	423, 463	583, 427	684, 610	565, 274	561, 548	556, 096
New England	2, 526	42, 780	32, 276	43, 496	51, 375	44, 895	46, 362	44, 868
Maine	775	12, 084	2, 866	3, 946	3, 912	3, 490	3, 532	3, 534
New Hampshire	363	6, 196	1, 504	2, 035	2, 286	2, 066	2, 144	2, 157
Vermont	369	8, 153	1, 220	1, 540	1, 703	1, 571	1, 586	1, 613
Massachusetts	621	8, 066	18, 913	25, 064	29, 627	25, 543	26, 527	25, 247
Rhode Island	85	1, 254	2, 029	2, 702	3, 297	2, 912	3, 047	2, 929
Connecticut	313	7, 027	5, 744	8, 211	10, 550	9, 313	9, 526	9, 383
Middle Atlantic	5, 431	113, 723	117, 897	161, 532	194, 927	163, 614	163, 728	157, 983
New York	2, 099	48, 686	74, 772	102, 514	125, 072	104, 267	103, 765	99, 239
New Jersey	641	8, 624	9, 512	14, 655	19, 768	17, 612	18, 395	17, 723
Pennsylvania	2, 691	56, 413	33, 613	44, 363	50, 087	41, 735	41, 568	41, 021
East North Central	6, 073	302, 360	107, 343	151, 924	175, 748	138, 394	131, 549	133, 395
Ohio	1, 458	68, 933	24, 800	35, 417	42, 088	33, 963	31, 446	31, 649
Indiana	976	58, 619	9, 226	13, 774	15, 613	12, 775	12, 491	12, 569
Illinois	1, 545	72, 089	51, 357	70, 753	78, 757	59, 852	56, 962	58, 015
Michigan	1, 099	52, 840	13, 199	18, 978	24, 133	19, 061	18, 196	18, 778
Wisconsin	995	49, 879	8, 761	13, 002	15, 157	12, 743	12, 454	12, 384
West North Central	7, 025	329, 833	53, 971	73, 365	80, 641	65, 407	63, 938	63, 486
Minnesota	1, 148	53, 698	10, 847	15, 836	17, 614	14, 481	14, 254	14, 212
Iowa	1, 191	63, 823	9, 392	11, 720	13, 504	10, 828	10, 204	10, 320
Missouri	1, 655	60, 491	18, 624	27, 230	28, 988	22, 781	22, 408	21, 789
North Dakota	658	29, 332	2, 062	2, 360	2, 721	2, 330	2, 351	2, 475
South Dakota	613	25, 063	2, 066	2, 539	2, 750	2, 233	2, 214	2, 253
Nebraska	773	37, 231	5, 504	6, 663	7, 279	6, 206	6, 049	5, 984
Kansas	987	60, 195	5, 476	7, 017	7, 785	6, 548	6, 458	6, 453
South Atlantic	8, 038	189, 325	34, 415	46, 072	52, 293	44, 818	46, 471	46, 836
Delaware	78	3, 040	811	999	1, 233	1, 092	1, 202	1, 153
Maryland	631	11, 406	5, 292	7, 101	8, 519	7, 159	7, 400	7, 204
District of Columbia	1	203	3, 536	4, 771	6, 047	5, 577	6, 249	5, 632
Virginia	2, 006	29, 429	5, 621	7, 236	7, 985	7, 058	7, 276	7, 211
West Virginia	1, 733	11, 423	3, 154	4, 395	4, 611	3, 864	3, 878	3, 999
North Carolina	1, 303	40, 982	4, 138	5, 814	6, 830	6, 005	6, 252	6, 670
South Carolina	552	25, 724	2, 289	2, 530	2, 174	1, 736	1, 763	1, 862
Georgia	981	53, 716	6, 395	7, 734	9, 220	7, 374	7, 405	7, 812
Florida	753	13, 402	3, 179	5, 492	5, 674	4, 953	5, 046	5, 293
East South Central	5, 214	142, 454	15, 546	20, 576	23, 736	18, 825	18, 842	19, 601
Kentucky	2, 492	26, 027	4, 392	6, 283	6, 827	5, 689	5, 720	5, 766
Tennessee	931	44, 482	5, 289	7, 107	8, 546	6, 732	6, 879	7, 056
Alabama	993	37, 749	3, 418	4, 385	5, 108	3, 944	3, 799	4, 127
Mississippi	798	34, 196	2, 447	2, 801	3, 255	2, 460	2, 444	2, 652
West South Central	5, 162	158, 982	24, 678	30, 646	37, 240	29, 994	30, 232	31, 106
Arkansas	1, 202	25, 307	2, 928	3, 585	3, 828	2, 905	2, 849	3, 017
Louisiana	833	14, 357	4, 015	5, 055	5, 486	4, 611	4, 580	4, 710
Oklahoma	977	43, 287	4, 730	5, 889	7, 272	5, 524	5, 647	5, 835
Texas	2, 150	74, 031	13, 005	16, 117	20, 654	16, 954	17, 156	17, 544
Mountain	3, 558	36, 319	12, 178	15, 004	17, 276	14, 453	14, 409	14, 479
Montana	750	6, 680	2, 016	2, 180	2, 446	2, 036	2, 125	2, 191
Idaho	471	6, 768	1, 397	1, 324	1, 513	1, 284	1, 239	1, 341
Wyoming	364	1, 210	712	953	993	866	884	884
Colorado	683	15, 271	4, 398	5, 878	6, 819	5, 655	5, 539	5, 433
New Mexico	522	2, 820	679	900	1, 089	983	1, 005	1, 037
Arizona	277	1, 543	943	1, 137	1, 532	1, 276	1, 298	1, 295
Utah	334	1, 867	1, 647	2, 179	2, 347	1, 836	1, 832	1, 812
Nevada	157	160	386	453	537	517	487	486
Pacific	3, 085	46, 064	25, 158	40, 812	51, 378	44, 873	46, 019	44, 344
Washington	818	15, 087	5, 636	7, 494	8, 719	7, 262	7, 213	7, 344
Oregon	739	10, 108	3, 324	4, 809	5, 436	4, 561	4, 584	4, 570
California	1, 528	20, 869	16, 198	28, 509	37, 223	33, 050	34, 222	32, 430
Outlying offices	[2] 394	55	[3] 1, 062	1, 328	1, 740	1, 741	1, 808	2, 232
Alaska	191	----------	82	71	104	90	94	90
Guam	1	----------	1	2	3	2	2	2
Hawaii	98	55	352	611	774	779	838	775
Puerto Rico	96	----------	406	522	527	520	558	539
Samoa (Tutuila)	2	----------	2	2	(4)	(4)	(4)	(4)
Virgin Islands	5	----------	17	11	15	13	13	14
Philatelic agency	----------	----------	----------	109	317	337	303	812

[1] Revenues from money-order business, postal savings, and certain miscellaneous items not included.
[2] Includes 1 post office in Little America.
[3] Includes receipts from agencies in China, France, and Siberia.
[4] Less than $500.

Source: Annual Reports of the Postmaster General.

17.—TELEPHONE, TELEGRAPH, AND CABLE SYSTEMS

[Data cover public telephone systems and land (wire) and wireless commercial telegraph systems operated in continental United States and commercial cable systems operated by companies incorporated in United States]

No. 372.—TELEPHONE SYSTEMS: Equipment, Traffic, Employees, Salaries and Wages, Revenue, and Investment

Note.—The more detailed data were collected only for companies reporting an annual income of $5,000 or more previous to 1922 and $10,000 or more in 1922, 1927, and 1932

[All money figures in thousands of dollars]

	1907	1912	1917	1922	1927	1932
ALL SYSTEMS						
Number of systems and lines	22,971	32,233	53,234	57,253	60,148	44,828
Miles of wire (thousands)	12,999	20,248	28,827	37,266	63,836	87,678
Number of telephones (thousands)	6,119	8,730	11,717	14,347	18,523	17,424
Number of calls originating with systems reporting (millions)	(1)	(1)	21,846	24,648	31,614	30,048
Number of employees	(1)	(1)	262,629	312,015	375,272	334,065
Salaries and wages	(1)	(1)	175,670	352,926	486,597	458,117
Revenue, operating [2]	(1)	(1)	382,830	665,568	1,023,574	1,061,530
Investment in plant and equipment	(1)	(1)	1,492,329	2,205,183	3,548,875	4,791,903
SYSTEMS REPORTING ANNUAL INCOME OF $5,000 OR MORE, 1907–1917, AND THOSE REPORTING $10,000 OR MORE, 1922–1932						
Number of systems and lines	1,636	1,916	2,200	1,323	1,368	918
Miles of wire, total (thousands)	11,922	19,019	27,298	35,503	62,277	86,464
Underground	(3)	9,165	14,849	21,440	39,893	55,236
Overhead	(3)	9,854	12,449	14,063	22,384	31,248
Exchange lines	(3)	16,336	23,723	30,907	54,281	(4)
Toll lines	(3)	2,683	3,575	4,596	7,996	(4)
Number of telephones (thousands)	4,907	7,327	9,954	12,295	16,713	16,284
Number of central offices	10,613	11,515	12,294	10,666	11,485	12,724
Number of private-branch exchanges	28,276	52,651	80,914	102,622	(4)	(4)
Number of calls originating with systems reporting (millions)	10,400	13,736	19,809	21,901	29,196	29,100
Local exchange	10,161	13,395	19,366	21,235	28,109	(4)
Long distance or toll	240	341	443	666	1,087	(4)
Number of employees	131,670	183,361	244,490	290,333	356,739	320,763
Salaries and wages	65,009	96,041	169,655	341,538	475,840	451,478
Operators (included above):						
Number	72,518	96,332	138,971	159,558	(4)	(4)
Male	2,457	1,972	1,679	932	(4)	(4)
Female	70,061	94,360	137,292	158,626	(4)	(4)
Wages	22,637	32,474	66,137	138,897	(4)	(4)
BELL SYSTEM (INCLUDED ABOVE)						
Miles of wire (thousands)	8,947	15,133	23,134	30,614	56,819	80,586
Number of telephones (thousands)	3,132	5,087	7,327	9,515	13,726	13,793
Number of originating calls (millions)	6,401	9,133	14,598	16,567	23,693	25,061
SYSTEMS REPORTING ANNUAL INCOME OF LESS THAN $5,000, 1907–1917, AND LESS THAN $10,000, 1922–1932						
Miles of wire (thousands)	1,077	1,229	1,529	1,763	1,559	1,193
Number of telephones (thousands)	1,212	1,403	1,763	2,052	1,810	1,140
Number of originating calls (millions)	(3)	(3)	2,037	2,746	2,418	948

[1] Not reported except for the larger systems and lines.
[2] Including assessments of mutual companies.
[3] Comparable data not available.
[4] Not called for on schedule.

Source: Bureau of the Census, Department of Commerce.

No. 373.—TELEPHONE SYSTEMS: MILES OF WIRE, NUMBER OF TELEPHONES, AND NUMBER OF ORIGINATING CALLS, ALL SYSTEMS AND LINES, BY STATES

Division and State	Miles of wire		Number of telephones				Telephones per 1,000 population, 1932	Number of originating calls (millions)	
	1927	1932	1912	1922	1927	1932		1927	1932
United States	63,836,182	87,677,586	8,729,592	14,347,395	18,522,767	17,424,406	139	31,614	30,048
New England	5,586,569	7,682,588	625,488	1,223,497	1,548,931	1,513,939	183	2,328	2,458
Maine	326,120	517,144	68,914	113,725	131,367	124,372	155	214	205
New Hampshire	211,448	288,990	40,017	68,874	83,066	79,506	170	117	127
Vermont	105,645	149,129	40,142	54,530	60,793	58,133	161	84	86
Massachusetts	3,165,833	4,099,247	329,992	687,700	867,888	832,740	193	1,334	1,368
Rhode Island	429,451	595,303	41,664	92,766	114,944	110,671	158	117	176
Connecticut	1,348,072	2,032,775	104,759	205,902	290,873	308,517	188	462	496
Middle Atlantic	19,992,639	27,399,025	1,782,145	3,249,710	4,588,211	4,613,733	172	6,908	6,905
New York	11,592,418	15,385,557	970,449	1,780,563	2,595,537	2,628,537	204	3,935	4,000
New Jersey	3,012,459	4,382,769	185,632	383,496	599,336	642,830	154	774	838
Pennsylvania	5,387,812	7,630,699	626,064	1,085,651	1,393,338	1,342,366	138	2,199	2,067
East North Central	15,223,410	21,574,370	2,378,257	3,693,101	4,589,751	4,034,931	156	7,538	6,504
Ohio	3,658,505	5,545,857	631,206	962,837	1,122,036	978,394	144	1,958	1,712
Indiana	1,558,005	2,223,608	354,550	508,726	552,249	444,996	136	1,061	863
Illinois	5,688,146	7,599,337	807,253	1,283,449	1,685,690	1,507,222	193	2,571	2,206
Michigan	2,967,217	4,263,778	335,074	508,140	711,315	621,958	124	1,140	982
Wisconsin	1,351,537	1,941,790	250,174	429,949	518,461	482,361	162	808	741
West North Central	6,044,901	7,641,354	1,621,523	2,315,996	2,594,081	2,260,985	169	4,577	3,960
Minnesota	1,422,716	1,610,192	272,359	424,777	487,611	443,682	171	931	849
Iowa	960,226	1,310,798	380,294	533,347	565,533	484,879	196	916	775
Missouri	1,988,764	2,620,741	404,150	550,980	657,946	592,153	162	1,269	1,157
North Dakota	140,923	161,225	51,241	77,586	86,198	69,241	101	129	143
South Dakota	154,601	177,521	65,858	101,555	107,641	88,798	127	171	119
Nebraska	606,425	736,632	201,689	273,500	295,274	247,551	178	524	367
Kansas	771,246	1,024,245	245,932	354,251	393,878	334,681	176	637	550
South Atlantic	4,244,852	5,760,130	531,402	937,324	1,262,222	1,250,882	78	2,426	2,430
Delaware	118,539	210,300	15,842	23,534	28,901	32,537	135	53	58
Maryland	936,353	1,076,460	84,801	153,790	197,135	212,014	128	294	317
District of Columbia	540,152	675,044	46,603	102,231	144,985	180,785	366	186	235
Virginia	615,286	876,581	76,652	155,490	183,698	196,956	81	382	420
West Virginia	349,899	445,781	80,251	116,081	146,677	134,150	76	279	243
North Carolina	392,455	706,829	65,152	116,129	160,507	143,710	44	379	321
South Carolina	171,678	290,599	33,239	54,078	64,616	57,215	33	146	148
Georgia	538,751	772,176	96,436	136,334	173,410	151,264	52	437	415
Florida	581,739	706,360	32,426	79,657	162,293	142,251	92	270	273
East South Central	2,001,125	2,587,978	337,292	521,120	644,270	547,440	55	1,537	1,401
Kentucky	722,120	863,293	130,751	201,545	222,735	191,236	72	485	407
Tennessee	642,096	850,951	104,353	171,413	220,559	192,983	73	559	539
Alabama	421,927	580,087	56,292	84,401	121,115	100,813	37	313	282
Mississippi	214,982	293,647	45,896	63,761	79,861	62,408	31	180	173
West South Central	3,619,976	5,028,077	543,102	872,157	1,149,357	1,002,389	81	2,649	2,591
Arkansas	318,868	366,944	68,303	99,490	118,178	86,676	46	239	193
Louisiana	560,262	694,367	46,602	87,354	137,610	132,735	62	385	392
Oklahoma	655,102	1,173,051	116,217	222,889	278,912	241,453	99	581	571
Texas	2,085,744	2,793,715	311,980	462,424	614,657	541,525	90	1,444	1,435
Mountain	1,198,550	1,640,855	228,652	385,730	456,198	446,492	119	780	802
Montana	135,536	181,485	35,537	55,115	59,238	55,361	103	81	96
Idaho	111,940	134,096	29,454	48,745	54,822	49,201	110	128	93
Wyoming	60,622	85,233	9,946	24,949	28,049	28,346	123	39	49
Colorado	559,873	717,589	90,397	150,652	183,250	179,063	171	313	300
New Mexico	48,765	84,722	10,346	18,342	21,580	23,100	53	35	43
Arizona	89,305	158,261	11,224	24,353	33,194	36,064	80	37	68
Utah	167,393	231,113	34,064	53,261	63,106	60,082	116	127	130
Nevada	25,116	48,356	5,684	10,313	12,959	15,275	164	20	23
Pacific	5,924,110	8,363,209	683,731	1,148,760	1,689,746	1,753,615	205	2,871	2,997
Washington	739,138	1,029,949	150,016	238,275	299,109	276,530	174	554	560
Oregon	490,820	599,201	99,713	146,847	185,171	166,639	170	331	307
California	4,694,152	6,734,059	434,002	763,638	1,205,466	1,310,446	219	1,986	2,130

Source: Bureau of the Census, Department of Commerce.

No. 374.—TELEPHONE SYSTEMS: Total Number of Telephones, all Systems, and Number of Telephones and Miles of Wire in The Bell System

Dec. 31—	Total telephones [1]	Bell System		Dec. 31—	Total telephones [1]	Bell System	
		Telephones [2]	Miles of wires			Telephones [2]	Miles of wire
1895	339,500	309,502	675,415	1924	16,072,500	15,906,550	39,893,619
1900	1,355,900	855,911	1,961,801	1925	16,935,900	16,720,224	45,473,540
1905	4,126,900	2,530,924	5,779,918	1926	17,746,000	17,574,252	50,861,150
1910	7,635,400	5,882,719	11,642,212	1927	[3] 18,522,767	18,365,486	56,822,895
1915	10,523,500	9,172,495	18,505,545	1928	19,341,000	19,197,035	62,192,744
1918	12,077,600	11,065,999	23,346,132	1929	20,068,000	19,958,000	69,519,425
1919	12,668,500	11,795,747	24,162,999	1930	20,201,000	20,098,059	76,248,265
1920	13,329,400	12,601,935	25,377,404	1931	19,690,000	19,596,000	79,239,000
1921	13,875,200	13,380,219	27,819,821	1932	[3] 17,424,406	17,341,000	80,491,000
1922	[3] 14,347,395	14,050,565	30,616,522	1933	16,711,000	16,635,000	80,281,000
1923	15,369,500	15,000,101	34,523,842	1934	[4] 16,889,000	[4] 16,815,000	80,118,000

[1] Partly estimated, except as indicated.
[2] Bell-owned and Bell-connecting (owned by other companies).
[3] From Bureau of the Census.
[4] Excludes 80,000 Bell private-line telephones. Prior to 1934 private-line telephones were included.

No. 375.—AMERICAN TELEPHONE & TELEGRAPH CO. AND ASSOCIATED OPERATING COMPANIES (BELL TELEPHONE SYSTEM): Summary of Statistics

	1910	1915	1920	1925	1930	1933	1934
	Operating statistics and employees as of Dec. 31 (in thousands, except as indicated)						
Exchange messages, daily average	21,681	25,184	31,835	46,702	62,365	55,199	56,648
Toll messages, daily average	603	819	1,327	2,098	2,933	2,047	2,142
Central offices (number)	4,933	5,300	5,702	6,017	6,585	6,763	6,769
Miles of wire, total	11,642	18,506	25,377	45,474	76,248	80,281	80,118
Aerial wire	5,625	7,932	9,630	14,991	26,023	27,480	27,555
Underground wire	6,017	10,573	15,748	30,483	50,225	52,801	52,563
Exchange wire	9,678	16,052	21,604	39,841	62,867	65,028	64,946
Toll wire	1,904	2,453	3,773	5,633	13,381	15,253	15,172
Telephones, total	5,883	9,172	12,602	16,720	20,098	16,635	16,815
Bell-owned [1]	3,933	5,968	8,334	12,035	15,682	13,163	[1] 13,378
Bell-connecting (owned by other companies)	1,950	3,204	4,268	4,685	4,416	3,472	3,437
Employees (number)	120,311	156,294	231,316	293,095	324,343	248,497	248,957
	Telephone plant, capital stock, and funded debt Dec. 31 (in thousands of dollars) [2]						
Telephone plant	611,000	880,069	1,363,826	2,524,906	4,043,422	[3] 4,240,673	[3] 4,248,186
Capital stock [4]	344,645	440,711	511,493	1,144,619	2,155,053	2,109,718	2,106,187
Funded debt	224,792	353,236	585,794	890,337	1,115,592	1,037,625	1,038,825

[1] Includes private-line telephones prior to 1934; in 1934 excludes 80,000 private-line telephones
[2] All duplications between companies excluded.
[3] Includes organization and franchise costs ($2,026,000 in 1933 and $1,993,000 in 1934).
[4] Includes capital stock installments.

Source of tables 374 and 375: American Telephone & Telegraph Co.

No. 376.—TELEPHONE SYSTEMS: Reports to the Interstate Commerce Commission and to the Federal Communications Commission

Note.—Companies engaged in interstate business are required to report both as regards interstate and intrastate business. Prior to 1923 the classification of companies based on the amount of annual operating revenues was as follows: Class A, over $250,000; class B, $50,000 to $250,000; class C, $10,000 to $50,000. Effective Jan. 1, 1923, the classification was amended as follows: Class A, over $250,000; class B, $100,000 to $250,000; class C, $50,000 to $100,000; class D, $50,000 or less. A further change was made effective Jan. 1, 1933, as follows: Class A, over $100,000; class B, $50,000 to $100,000; class C, $50,000 or less. The companies below $50,000 are not covered in the table

Year ended Dec. 31—	Miles of wire (thousands)	Number of company telephones (thousands)	Operating revenues [1]	Operating expenses [1]	Taxes	Net operating income [1]	Investment: Plant and equipment [1]	Investment: All other [1]
			Thousands of dollars					
All companies:								
1916	23,699	8,963	314,801	209,233	17,123	(2)	1,217,756	(2)
1920	29,640	----------	530,349	(2)	(2)	88,024	1,704,304	1,122,289
1925	49,773	13,875	818,218	556,993	63,632	193,599	2,790,056	1,633,124
1929	75,729	17,697	1,172,863	791,612	90,050	284,968	4,070,131	2,337,207
1930	82,783	17,904	1,209,665	831,500	92,855	277,135	4,445,139	2,658,091
1931	86,670	17,573	1,179,660	795,376	97,244	279,188	4,619,076	2,830,718
1932	88,303	15,681	1,049,757	715,675	92,837	228,865	4,660,663	2,783,658
1933	84,702	14,948	967,833	690,533	90,906	186,304	4,649,937	2,721,877
1934 [3]	84,095	15,074	972,669	684,719	94,972	192,862	4,618,688	2,671,582
Class A companies:								
1925	48,487	13,037	792,428	539,072	61,699	186,777	2,674,926	1,631,335
1930	81,517	17,128	1,183,503	813,734	90,956	269,717	4,312,385	2,652,428
1933	84,372	14,769	962,348	686,312	90,467	185,495	4,620,717	2,699,415
1934 [3]	83,842	14,937	968,484	681,480	94,618	192,279	4,596,037	2,649,177
Class B companies: 1933	330	179	5,485	4,221	439	809	29,221	22,462
Class B companies: 1934 [3]	253	137	4,185	3,239	355	583	22,650	22,406

[1] Owing to revisions in the accounting classifications, data beginning with 1933 are not comparable with those for earlier years.
[2] Data not available. [3] Returns incomplete; data, however, represent great bulk of business.

Sources: Interstate Commerce Commission, 1916 to 1933; Federal Communications Commission thereafter.

No. 377.—WIRELESS TELEGRAPH SYSTEMS: Summary of Statistics

Note.—1917 omitted owing to war conditions; 1932 data not available

	1907	1912	1922	1927
Number of companies or systems	5	4	4	5
Number of messages	154,617	[1] 285,091	2,365,109	3,777,538
Number of tower stations	117	74	37	55
Income, total	$106,791	$669,158	[2] $8,111,102	[2] $24,829,340
Expenses, total	$160,329	$664,420	$5,111,574	$12,866,636
General operation and maintenance	$117,480	$588,712	$3,534,474	$5,116,264
Interest and taxes	$5,562	$7,826	$156,457	$249,435
All other expenses	$37,287	$67,882	$1,420,643	$7,500,937
Net income	----------	$4,738	$2,999,528	$11,962,704
Deficit	$53,538	----------	----------	----------
Assets, total	$32,958,897	$10,377,197	$46,494,909	$81,147,512
Plant and equipment	$317,614	$1,205,770	$34,716,814	$35,751,904
Investment and marketable securities, long-term advances, and miscl. investments	$32,196,456	$9,171,427	$1,225,169	$17,711,483
Cash and current assets			[3] $4,427,830	$19,312,823
Materials and supplies			$5,883,877	$6,831,530
Sundries			$241,219	$1,387,342
Deficit	$444,827	----------	----------	$152,430
Liabilities, total	$32,958,897	$10,377,197	$46,494,909	$81,147,512
Capital stock	$32,676,242	$9,602,570	$36,034,309	$38,174,134
Funded and long-term debt	$282,655	$287,866	$525,000	----------
Floating debt			$659,280	$320,961
Accounts payable			$3,254,556	$11,436,628
Reserves (depreciation and other)			$4,040,280	$17,206,630
Sundries	----------	$313,777	$1,172,599	$5,746,973
Surplus	----------	$172,984	$808,885	$8,262,186
Number of employees	176	958	1,258	1,985
Salaries and wages	$81,771	$393,606	$2,095,506	$2,558,179

[1] Includes 5,013 land messages sent over a leased wire by a wireless company doing a land-telegraph business also.
[2] Includes revenues from transmission for 1922, $4,207,785; for 1927, $6,226,188; other operating revenues, 1922, $3,644,201; 1927, $14,791,565; nonoperating income, 1922, $259,116; 1927, $3,811,587.
[3] Includes sinking funds and stock and bond discounts.

Source: Bureau of the Census, Department of Commerce.

No. 378.—TELEGRAPH AND CABLE SYSTEMS: Reports to the Interstate Commerce Commission and to the Federal Communications Commission

[All money figures in thousands of dollars]

Year ended Dec. 31—	Miles of wire (thousands)	Investments		Operating revenues	Operating ratio (per cent)	Operating income	Net income	Dividends
		Plant and equipment	Other					
All companies:								
1916	1,936	149,936	(1)	74,847	73.77	(1)	13,955	6,066
1920	1,781	258,097	21,275	153,264	(1)	21,512	16,158	11,471
1921	1,858	270,976	20,549	136,663	(1)	18,667	13,311	9,078
1922	1,874	279,402	19,907	138,190	(1)	22,894	18,138	13,960
1923	1,894	288,481	27,001	144,610	81.11	21,025	16,656	9,309
1924	1,946	307,143	27,565	146,176	81.94	20,229	15,805	9,386
1925	2,075	321,687	28,191	162,693	81.64	23,204	18,854	9,066
1926	2,056	338,794	27,017	165,831	82.81	21,767	16,806	10,750
1927	2,207	379,514	27,434	170,843	80.58	25,714	21,046	11,618
1928	2,317	396,609	32,190	177,019	81.18	26,335	21,662	11,680
1929	2,365	411,725	54,285	188,574	82.59	26,333	21,611	18,828
1930	2,381	450,223	38,640	169,643	86.16	17,930	10,730	20,073
1931	2,349	463,171	25,498	142,792	87.78	12,662	4,029	9,588
1932	2,337	465,639	22,417	110,302	89.88	6,168	[2] *3,123*	2,461
1933	2,353	466,701	24,637	109,040	85.02	11,124	2,895	816
1934	2,399	501,754	55,057	119,053	86.35	11,024	1,058	1,796
Western Union Co.: 1934	1,903	328,664	19,229	87,230	85.05	9,033	2,243	--------
Mackay companies: 1934	387	82,247	943	21,016	96.25	109	[2] *2,521*	--------

[1] Data not available. [2] Deficit.

Source: Interstate Commerce Commission, 1916 to 1933; Federal Communications Commission thereafter.

No. 379.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS COMBINED: Equipment, Traffic, Employees, and Finances

	1902	1912	1917	1922	1927	1932
Miles of pole line [1]	237,990	247,528	241,128	252,991	256,809	256,661
Miles of single wire [2]	1,318,350	1,814,196	1,890,245	1,853,250	2,145,897	2,266,054
Aerial	(3)	(3)	1,809,482	1,718,251	1,940,069	1,956,003
Underground	(3)	(3)	77,187	131,448	200,979	303,912
Submarine	(3)	(3)	3,576	3,551	4,849	6,139
Nautical miles of ocean cable	16,677	67,676	71,251	76,711	99,074	96,468
Number of offices	27,377	30,864	28,940	27,354	27,666	26,047
Operated jointly with railway companies	(3)	26,247	23,272	21,906	21,449	18,816
Messages sent (thousands)	91,655	109,378	[4] 127,074	191,121	229,582	158,378
Governmental	(3)	(3)	4,597	3,199	2,732	3,655
Full commercial rate	(3)	(3)	110,618	175,847	214,164	146,162
Contract rate and free	(3)	(3)	11,858	12,075	12,686	8,561
Number of employees	27,627	[4] 44,811	64,723	68,632	81,498	66,723
Salaries and wages ($1,000)	15,040	[4] 24,965	43,764	76,162	99,520	73,949
Revenue, operating ($1,000)	35,301	60,403	106,990	146,805	177,589	114,656
Investment in plant and equipment ($1,000)	161,680	222,047	243,358	326,662	426,699	506,445

[1] Exclusive of pole line owned and operated wholly by railway companies.
[2] Exclusive of wire owned and operated wholly by railway companies, as follows: Reported by all railway companies, 1912, 314,329 miles; reported by railway companies having annual operating revenues of $1,000,000 or more, 1917, 344,110 miles; 1922, 285,002 miles; 1927, 333,898 miles; 1932, 337,059 miles. No data for 1902.
[3] Figures not available.
[4] The number of employees includes 7,516 messengers whose wages are not included in figure for salaries and wages.

Source: Bureau of the Census, Department of Commerce.

No. 380.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: EQUIPMENT, TRAFFIC, EMPLOYEES, AND FINANCES

	Land systems				Ocean systems			
	1917	1922	1927	1932	1917	1922	1927	1932
Miles of pole line [1]	241,012	252,991	254,720	256,215	116	--------	2,089	446
Miles of single wire [2]	1,888,793	1,845,237	2,138,259	2,259,827	1,452	8,013	7,638	6,227
Aerial	1,808,325	1,714,211	1,936,611	1,952,432	1,157	4,040	3,458	3,571
Underground	76,892	127,475	197,058	301,560	295	3,973	3,921	2,352
Submarine	3,576	3,551	4,590	5,835	--------	--------	259	304
Nautical miles of ocean cable	--------	--------	--------	--------	71,251	76,711	99,074	96,468
Number of offices	28,826	27,214	27,530	25,901	114	140	136	146
Operated jointly with railway companies	23,272	21,906	21,449	18,816	--------	--------	--------	--------
Messages sent, thousands	[3] 120,623	181,519	215,595	147,941	6,451	9,603	13,987	10,437
Governmental	4,309	3,130	2,657	3,583	288	69	75	72
Full commercial rate	106,159	166,730	200,381	135,797	4,459	9,117	13,783	10,365
Contract rate and free	10,154	11,659	12,557	8,561	1,704	417	129	--------
Number of employees	60,376	62,299	74,903	60,933	4,347	6,333	6,595	5,790
Salaries and wages ($1,000)	40,512	68,737	89,984	66,988	3,252	7,425	9,536	6,961
Revenue, operating ($1,000)	91,313	128,631	159,682	97,729	15,677	18,174	17,907	16,927
Investment in plant and equipment ($1,000)	[4] 163,488	254,030	338,143	415,694	[5] 79,871	72,632	88,556	90,751

[1] Exclusive of pole line owned and operated wholly by railway companies.
[2] Exclusive of wire owned and operated wholly by railway companies having annual operating revenues of $1,000,000 or more: 1917, 344,110 miles; 1922, 285,002 miles; 1927, 333,898 miles; 1932, 337,059 miles.
[3] In addition, 31,102,577 lettergrams, not distributed according to rate, were reported.
[4] Not including land-line system plant and equipment to the value of $20,000,000 reported as cable-system plant and equipment for 1917.
[5] Includes land-line-system plant and equipment to the value of $20,000,000.

No. 381.—WESTERN UNION TELEGRAPH CO.: MILEAGE OF LINES AND WIRES, NUMBER OF OFFICES, AND FINANCES

Year ended—	Miles of pole line and cable	Miles of wire	Number of offices	Receipts	Expenses	Net income[1]
June 30—				*Dollars*	*Dollars*	*Dollars*
1867	46,270	85,291	2,565	6,568,925	3,944,006	2,624,920
1870	54,109	112,191	3,972	7,138,738	4,910,772	2,227,966
1875	72,833	179,496	6,565	9,564,575	6,335,415	3,229,158
1880	85,645	233,534	9,077	12,782,895	6,948,957	5,833,938
1885	147,500	462,283	14,184	17,706,834	12,005,910	5,700,924
1890	183,917	678,997	19,382	22,387,029	15,074,304	7,312,725
1895	189,714	802,651	21,360	22,218,019	16,076,630	6,141,389
1900	192,705	933,153	22,900	24,758,570	18,593,206	6,165,364
1905	200,224	1,184,557	23,814	29,033,635	21,845,570	7,188,065
1910	214,360	1,429,049	24,825	33,889,202	26,614,302	7,274,900
Dec. 31—						
1915	238,940	1,610,709	25,142	52,475,721	40,972,541	11,503,180
1917	228,766	1,626,963	25,466	78,480,223	62,783,006	15,697,217
1918	[2] 247,303	1,382,547	25,452	[3] 88,093,247	[3] 76,713,028	[3] 11,380,219
1919	245,560	1,433,978	25,159	[3] 104,082,147	[3] 90,312,033	[3] 13,770,114
1920	246,214	1,449,710	24,881	121,473,685	108,134,041	13,339,644
1921	246,064	1,521,085	24,632	105,228,075	95,542,563	9,685,512
1922	242,729	1,534,009	24,580	107,116,306	93,910,954	13,205,352
1923	244,001	1,557,399	24,678	113,628,470	99,982,165	13,646,305
1924	246,742	1,593,963	24,478	115,235,563	101,815,734	13,419,829
1925	246,307	1,635,236	24,428	129,151,617	112,861,832	16,289,785
1926	249,916	1,668,293	24,688	136,406,026	121,098,832	15,307,194
1927	251,756	1,783,140	24,765	134,460,816	119,328,218	15,132,598
1928	255,088	1,889,632	24,842	139,387,321	123,817,517	15,569,804
1929	256,044	1,934,020	25,061	148,449,854	132,872,815	15,577,039
1930	256,763	1,948,938	24,298	133,235,751	123,987,519	9,248,232
1931	258,652	1,913,485	23,490	110,547,245	104,572,745	5,974,500
1932	258,020	1,899,174	21,950	84,581,963	85,412,568	[4] 830,605
1933	257,274	1,902,327	21,261	84,993,425	80,628,543	4,364,882
1934	255,781	1,902,799	21,078	88,757,205	86,514,121	2,243,084

[1] Prior to 1919 data represent net income before bond interest.
[2] Figures readjusted.
[3] Corporate and Federal.
[4] Deficit.

Sources: table 380, Bureau of the Census, Department of Commerce; table 381, Western Union Telegraph Co.

18.—POWER—ELECTRIC AND OTHER

[Data in this section relate to continental United States]

No. 382.—ANNUAL SUPPLY OF ENERGY FROM MINERAL FUELS AND WATER POWER IN THE UNITED STATES

NOTE.—The figures, except coal equivalent, represent the equivalent of the heating power of the classes of fuel in trillions of British thermal units. Data represent production, except those for oil imports, and take no account of exports, imports, or changes in stocks

Annual average or year	Anthracite	Bituminous	Total coal	Domestic oil	Natural gas	Imported oil	Water power [1]	Grand total fuels and water power	Equivalent in bituminous coal [2]	
									Million tons of 2,000 lbs.	Per capita, tons
1871–1875	637	754	1,391	49	--------	--------	(1)	1,520	58	1.4
1876–1880	718	955	1,673	101	--------	--------	(1)	1,857	71	1.5
1881–1885	985	1,863	2,848	153	[3] 24	--------	(1)	3,110	119	2.2
1886–1890	1,195	2,474	3,669	198	[3] 264	--------	(1)	4,221	161	2.7
1891–1895	1,453	3,286	4,739	307	[3] 166	--------	104	5,316	203	3.0
1896–1900	1,513	4,493	6,006	357	[3] 198	--------	129	6,690	255	3.5
1901–1905	1,818	7,140	8,958	612	323	--------	209	10,102	386	4.8
1906–1910	2,207	9,783	11,990	1,037	470	1	369	13,867	529	5.9
1911–1915	2,427	11,527	13,954	1,486	619	72	591	16,722	638	6.6
1916–1920	2,523	13,981	16,504	2,176	820	297	851	20,648	788	7.6
1921–1925	2,112	12,610	14,722	3,888	1,024	569	1,105	21,308	813	7.3
1926–1930	2,084	13,595	15,679	5,375	1,760	408	1,781	25,002	954	8.0
1929	2,008	14,017	16,025	6,044	2,062	474	1,929	26,534	1,013	8.3
1930	1,887	12,249	14,136	5,388	2,089	373	1,856	23,842	910	7.4
1931	1,622	10,011	11,633	5,106	1,813	284	1,721	20,557	785	6.3
1932	1,356	8,114	9,470	4,711	1,673	268	1,900	18,022	688	5.5
1933	1,348	8,741	10,089	5,434	1,672	191	1,931	19,317	737	5.9
1934 [4]	1,561	9,390	10,951	5,456	1,774	215	1,896	20,292	775	6.1

[1] The fuel equivalent for water power is calculated from the reported horsepower of installed water wheels. Prior to 1890 data were unsatisfactory, but estimates are included in the total.
[2] Calculated at 26,200,000 British thermal units per ton.
[3] Based on the amount of coal displaced by gas, as estimated by the gas companies at the time.
[4] Preliminary.

No. 383.—ELECTRICITY PRODUCED, CONSUMPTION OF FUEL, AND CAPACITY OF GENERATORS IN PUBLIC-UTILITY POWER PLANTS

NOTE.—Data prior to 1919 are totals for central stations and electric railways as reported by Bureau of the Census; thereafter, they are estimated totals for all plants, based on returns from about 3,500 plants in 1919 to about 3,800 in 1934, each producing 10,000 kilowatt-hours or more per month, engaged in public service, including central stations, electric railways, steam railroads generating electricity for traction, and certain other plants. The capacity of plants reporting is about 95 percent of that of all plants

Calendar year	Production of electricity			Consumption of fuel			Consumption—Coal or coal equivalent		Capacity of generators
	Total	Water power	Fuel power	Coal	Fuel oil	Gas	Total	Per kilowatt-hour	
	Million kilowatt-hours	*Million kilowatt-hours*	*Million kilowatt-hours*	*Thousand tons* [1]	*Thousand barrels* [2]	*Million cubic feet*	*Thousand tons* [1]	*Pounds*	*Thousand kilowatts*
1902	4,768	--------	--------	--------	--------	--------	--------	--------	[3] 2,112
1912	17,572	--------	--------	--------	--------	--------	--------	--------	7,670
1919	38,921	14,606	24,315	35,100	11,050	21,406	38,880	3.2	13,094
1920	43,555	16,150	27,405	37,124	13,123	24,702	41,420	3.0	14,399
1921	40,975	14,970	26,005	31,585	12,045	23,722	35,240	2.7	15,483
1922	47,654	17,207	30,447	34,179	13,197	27,172	38,000	2.5	15,971
1923	55,665	19,343	36,322	38,966	14,684	31,433	43,522	2.4	17,369
1924	59,014	19,969	39,044	37,556	16,630	48,443	43,130	2.2	19,519
1925	65,870	22,356	43,514	40,222	10,246	46,521	44,780	2.1	23,619
1926	73,791	26,189	47,602	41,311	9,399	53,207	45,856	1.95	25,398
1927	80,205	29,875	50,330	41,888	6,782	62,919	45,910	1.84	27,691
1928	87,850	34,696	53,154	41,350	7,158	77,326	46,387	1.76	29,630
1929	97,352	34,629	62,723	44,937	10,124	112,707	52,574	1.69	31,952
1930	95,936	33,021	62,915	42,898	9,260	120,230	50,654	1.62	34,264
1931	91,729	30,603	61,126	38,734	8,123	139,328	47,134	1.55	35,590
1932	83,153	34,098	49,055	30,290	7,967	107,875	36,600	1.50	36,061
1933	85,402	34,727	50,674	30,575	9,940	102,601	37,163	1.47	36,038
1934	91,150	34,058	57,092	33,555	10,379	127,896	41,266	1.45	35,874

[1] Of 2,000 pounds. [2] Of 42 gallons. [3] Partly estimated.

Sources: Table 382, Bureau of Mines, Department of the Interior; table 383, 1902 and 1912, Bureau of the Census, Department of Commerce; thereafter, Geological Survey, Department of the Interior.

No. 384.—PRODUCTION OF ELECTRIC POWER AND CAPACITY OF GENERATORS IN PUBLIC UTILITY POWER PLANTS: By States

[Production in millions of kilowatt-hours; capacity of generators in thousands of kilowatts]

Division and State	Production of electric power										Capacity of generators, December 1934
	Total						Generated by water power		Generated by fuel power		
	1920	1925	1930	1932	1933	1934	1933	1934	1933	1934	
United States	43,555	65,870	95,936	83,153	85,402	91,150	34,727	34,058	50,674	57,092	35,374
New England	3,407	4,824	6,400	5,724	6,067	6,371	2,652	2,776	3,414	3,595	2,907
Maine	352	509	731	770	825	870	810	862	15	8	264
New Hampshire	97	264	367	700	599	631	550	575	49	55	280
Vermont	200	258	480	521	432	442	432	442	(1)	(1)	175
Massachusetts	1,740	2,378	2,908	2,441	2,595	2,673	572	570	2,023	2,103	1,348
Rhode Island	334	408	547	251	442	473	5	5	437	468	243
Connecticut	684	1,007	1,367	1,040	1,174	1,284	284	323	890	961	597
Middle Atlantic	12,349	18,299	25,136	22,860	22,977	24,417	6,891	6,804	16,087	17,613	9,250
New York	6,939	10,267	14,404	13,243	12,988	13,419	5,276	5,393	7,712	8,026	5,472
New Jersey	1,096	1,506	2,857	3,060	3,202	3,524	30	31	3,171	3,493	1,042
Pennsylvania	4,314	6,526	7,875	6,388	6,787	7,475	1,584	1,380	5,204	6,094	2,736
East North Central	9,958	15,715	22,165	18,168	18,856	20,920	2,103	2,145	16,752	18,776	7,910
Ohio	2,930	4,387	5,942	4,960	5,415	5,948	27	15	5,388	5,933	2,158
Indiana	933	1,484	2,943	2,502	2,513	2,822	133	72	2,380	2,750	1,057
Illinois	3,043	5,269	6,851	5,452	5,632	6,090	247	229	5,385	5,861	2,314
Michigan	2,093	3,031	4,270	3,418	3,484	4,112	984	1,055	2,500	3,057	1,558
Wisconsin	960	1,542	2,159	1,836	1,813	1,949	713	774	1,100	1,175	822
West North Central	3,179	4,254	5,982	5,534	5,505	5,726	1,564	1,224	3,940	4,502	2,683
Minnesota	703	1,046	1,311	1,152	1,162	1,224	447	338	714	886	588
Iowa	1,017	1,195	1,574	1,527	1,394	1,437	632	575	762	862	596
Missouri	698	866	1,269	1,210	1,289	1,205	401	250	888	956	710
North Dakota	28	39	125	137	139	158	-------	-------	139	158	68
South Dakota	48	75	114	88	86	98	10	8	75	91	64
Nebraska	247	366	575	551	556	611	47	37	508	574	255
Kansas	438	667	1,014	870	879	992	26	16	853	976	402
South Atlantic	3,980	6,272	10,895	9,398	10,144	10,194	6,088	5,702	4,056	4,491	4,362
Delaware	76	102	18	6	6	6	-------	-------	6	6	9
Maryland	283	573	1,869	1,691	1,753	1,641	1,470	1,205	283	436	619
District of Columbia	255	350	548	607	468	545	11	11	457	535	222
Virginia	521	802	1,231	1,026	1,090	1,123	345	299	744	824	467
West Virginia	1,128	1,643	2,103	1,540	1,732	1,828	181	128	1,550	1,699	567
North Carolina	260	942	2,298	1,617	1,957	1,886	1,720	1,758	237	128	1,000
South Carolina	730	882	1,202	1,323	1,313	1,363	1,205	1,232	108	130	648
Georgia	595	661	937	980	1,212	1,131	1,116	1,043	96	88	467
Florida	133	318	688	607	613	670	38	25	575	645	362
East South Central	1,464	2,610	3,882	3,556	3,399	3,760	2,836	3,088	564	672	1,664
Kentucky	276	475	719	682	660	724	389	396	271	328	333
Tennessee	573	875	1,037	1,039	976	1,167	766	935	211	232	426
Alabama	550	1,169	2,065	1,784	1,712	1,815	1,680	1,756	32	59	840
Mississippi	66	91	62	51	50	53	-------	-------	50	53	65
West South Central	1,230	2,202	5,055	4,148	4,256	4,552	188	158	4,069	4,394	1,772
Arkansas	119	189	108	149	165	136	129	85	36	51	148
Louisiana	219	350	1,067	1,085	1,097	1,222	-------	-------	1,097	1,222	311
Oklahoma	214	394	958	706	728	753	3	2	725	751	338
Texas	679	1,268	2,922	2,208	2,267	2,442	56	72	2,211	2,370	975
Mountain	2,581	3,127	3,699	2,530	2,771	2,898	2,213	2,170	557	729	1,193
Montana	1,126	1,263	1,320	635	923	868	905	852	18	15	310
Idaho	591	754	912	585	595	685	594	684	(1)	1	227
Wyoming	47	56	98	85	79	82	27	26	52	56	44
Colorado	397	523	573	478	459	507	185	182	275	325	235
New Mexico	15	22	76	158	157	173	2	1	156	172	87
Arizona	159	131	384	281	296	345	245	250	51	95	144
Utah	212	340	293	275	237	207	236	147	1	60	136
Nevada	34	40	43	33	24	32	20	27	4	5	11
Pacific	5,408	8,569	12,723	11,404	11,428	12,312	10,193	9,992	1,235	2,320	4,133
Washington	1,197	1,623	2,555	2,487	2,439	2,747	2,390	2,584	48	163	917
Oregon	476	730	1,219	969	965	1,002	889	872	76	130	339
California	3,736	6,216	8,948	7,949	8,023	8,562	6,913	6,535	1,110	2,027	2,878

[1] Less than 500,000 kilowatt-hours.

Source: Geological Survey, Department of the Interior.

No. 385.—CENTRAL ELECTRIC STATIONS: EQUIPMENT, EMPLOYEES, OUTPUT AND SALES

NOTE.—A central electric station, commercial or municipal, is one either generating and selling electrical energy, or selling only, to public or private consumers. Figures do not include establishments which consume all current generated, such as mines, factories, hotels, and other enterprises not in the nature of public utilities, nor plants operated by the Federal Government or by States unless energy is sold commercially. No data are included for electric-railway power plants unless part of the current generated is sold. There is considerable duplication in total sales, since they include energy sold for resale. Amount sold is considerably less than current generated due to line losses, etc.

	All central electric stations					
	1902	1912	1917	1922	1927	1932
Number of establishments [1]	3,620	5,221	6,542	6,355	4,335	3,429
Prime movers, horsepower ... thousands	**1,845**	**7,530**	**12,937**	**19,851**	**35,710**	**47,967**
Steam engines	1,394	1,895	1,702	1,371	994	650
Steam turbines		3,054	6,747	12,355	24,323	32,904
Water wheels and hydroturbines	439	2,469	4,277	5,822	9,844	13,532
Internal-combustion engines	12	111	210	303	548	881
Generators:						
Number	12,484	12,610	13,428	12,701	11,967	11,111
Kilowatt capacity ... thousands	1,212	5,165	8,994	14,313	25,811	34,623
Output ... millions of kilowatt-hours	----------	**14,183**	**31,044**	**50,274**	**96,829**	**111,716**
Generated	2,507	11,569	25,438	40,292	74,687	79,657
Purchased	(2)	2,614	5,606	9,983	22,142	32,059
Sold	(2)	(2)	25,752	41,965	79,011	88,265
To ultimate consumers	(2)	(2)	(2)	32,948	63,612	65,896
For resale	(2)	(2)	(2)	9,017	15,399	22,369
Number of customers ... thousands	(2)	3,838	7,179	12,710	21,790	23,862
Salaried employees ... number	6,996	26,093	35,406	55,112	101,415	110,453
Salaries ... 1,000 dollars	5,664	24,307	36,788	86,951	(3)	(4)
Wage earners ... number	[5] 23,330	[6] 53,242	[6] 70,135	[6] 95,650	[6] 149,605	[6] 134,120
Wages ... 1,000 dollars	14,983	36,855	58,454	125,481	(3)	(4)

[1] The term "establishment" as here used may represent a single electric station (either generating or distributing or both) or a number of such stations operated under the same ownership.
[2] Figures not available.
[3] Salaries and wages were not reported for 1927 by municipal plants. Commercial plants reported 95,917 salaried employees, with salaries amounting to $166,341,000, and 138,796 wage earners, with wages amounting to $201,291,000.
[4] Schedule did not call for segregation of salaries and wages. The total amount reported was $323,880,000 of which $303,058,000 was reported by commercial establishments and $20,822,000 by municipal.
[5] Average number for the year.
[6] Number Sept. 16, 1912; Sept. 29, 1917; June 30, 1922, 1927, and 1932, or nearest representative day.

No. 386.—CENTRAL ELECTRIC STATIONS: EQUIPMENT, EMPLOYEES, AND FINANCES OF COMMERCIAL AND MUNICIPAL ESTABLISHMENTS

NOTE.—See headnote to table 385

	Commercial establishments				Municipal establishments			
	1917	1922	1927	1932	1917	1922	1927	1932
Number of establishments	4,224	3,774	2,137	1,627	2,318	2,581	2,198	1,802
Horsepower of prime movers ... thousands	12,078	18,571	33,661	45,191	859	1,280	2,049	2,776
Capacity of generators thousands of kw.	8,412	13,407	24,383	32,648	582	906	1,428	1,975
Output, millions of kw.-hrs.	29,812	47,833	92,299	106,329	1,232	2,441	4,529	5,387
Generated	24,399	38,413	71,307	75,692	1,039	1,878	3,379	3,965
Purchased	5,413	9,420	20,992	30,637	193	563	1,150	1,422
Sold—								
To ultimate consumers	24,723	30,941	60,537	62,148	1,029	2,007	3,075	3,748
For resale		8,971	14,808	21,789		45	591	580
Customers ... thousands	6,202	11,065	19,661	21,634	977	1,645	2,129	2,228
Employees ... number	94,679	136,105	234,747	225,557	10,862	14,657	16,273	19,016
Income ... 1,000 dollars	486,634	986,684	[1] 1,841,227	[1] 2,030,997	40,260	85,436	[2] 122,437	[1] 126,298
Expenses ... do	395,127	792,496	[3] 1,318,255	[3] 1,477,139	31,441	67,129	(4)	[3] 89,217
Assets ... do	3,631,973	5,504,614	12,950,388	17,032,540	148,345	288,623	(4)	710,143
Value of plant and equipment ... 1,000 dollars	2,933,017	4,229,356	[5] 8,880,291	[6] 12,124,807	127,375	235,660	417,167	[6] 539,570

[1] Includes net income from utilities other than electric and nonoperating income.
[2] Operating revenues only.
[3] Includes other deductions from gross income.
[4] Not called for on schedule.
[5] Includes plant and equipment valued at $902,057,000, not separated as to electric light and power and other properties.
[6] Reported as fixed capital.

Source of tables 385 and 386: Bureau of the Census, Department of Commerce.

No. 387.—CENTRAL ELECTRIC STATIONS: STATISTICS OF

[See headnote

Division and State	Horsepower of prime movers (thousands)				Thousands of kilowatt-hours generated			
	Total		Steam engines and turbines and internal-combustion engines, 1932	Water wheels and hydro-turbines, 1932	1912	1917	1922	1927
	1927	1932						
Continental U.S.	35,710	47,967	34,435	13,532	11,569,110	25,438,303	40,291,536	74,686,378
New England	3,009	3,643	2,422	1,221	865,380	1,835,584	2,969,971	4,750,194
Maine	252	353	75	278	117,093	165,504	278,456	560,664
New Hampshire	157	421	85	336	126,594	160,456	94,864	226,444
Vermont	204	[1] 599	[1] 344	[1] 255	42,660	65,080	217,718	338,528
Massachusetts	1,529	1,590	1,354	236	386,254	937,125	1,493,328	2,245,301
Rhode Island	264	(1)	(1)	(1)	62,107	161,856	341,592	411,074
Connecticut	603	680	564	116	130,672	345,563	544,013	968,182
Middle Atlantic	8,615	11,310	9,250	2,060	3,548,605	7,659,318	10,765,515	19,281,645
New York	4,212	6,276	4,689	1,587	2,175,049	3,828,592	5,430,772	9,917,686
New Jersey	1,004	1,426	1,419	7	383,891	781,231	1,058,090	1,861,985
Pennsylvania	3,399	3,608	3,142	466	989,665	3,049,495	4,276,653	7,501,975
East North Central	8,668	11,366	10,393	973	2,527,964	5,757,150	9,368,260	18,211,895
Ohio	2,354	2,917	2,895	22	399,101	1,083,514	2,404,492	4,724,016
Indiana	870	1,331	1,282	49	236,944	441,423	795,271	1,746,153
Illinois	2,904	3,698	3,623	75	1,150,900	2,210,373	3,089,504	6,075,352
Michigan	1,619	2,235	1,773	462	525,616	1,504,240	2,102,686	3,773,636
Wisconsin	921	1,185	820	365	215,403	517,600	976,307	1,892,737
West North Central	2,671	3,655	3,022	633	712,595	1,776,475	2,968,757	4,549,264
Minnesota	516	659	484	175	186,045	440,932	588,838	843,357
Iowa	649	843	632	211	67,166	614,809	858,543	1,429,170
Missouri	648	1,022	817	205	232,829	266,431	700,642	891,179
North Dakota	56	104	104	----------	12,298	22,978	40,221	59,409
South Dakota	70	99	92	7	24,704	31,810	61,524	90,407
Nebraska	250	349	329	20	56,300	129,531	245,919	405,056
Kansas	482	579	564	15	133,253	269,984	473,070	830,685
South Atlantic	4,394	6,130	3,295	2,835	729,896	1,745,295	3,789,434	8,445,217
Delaware, Maryland, Dist. of Columbia	695	1,227	825	402	118,035	326,440	622,359	1,102,188
Virginia	502	568	438	130	28,724	107,581	319,206	973,766
West Virginia	755	731	648	83	42,345	204,108	1,199,378	1,902,820
North Carolina	773	1,381	476	905	70,552	371,711	404,428	2,036,122
South Carolina	700	940	199	741	356,772	500,431	844,417	1,116,267
Georgia	609	748	196	552	87,572	184,136	268,256	746,074
Florida	360	535	513	22	25,896	50,888	131,390	567,980
East South Central	1,447	2,051	1,026	1,025	227,665	1,048,815	1,419,834	2,777,268
Kentucky	395	455	314	141	75,593	122,631	231,507	505,564
Tennessee	456	579	289	290	75,545	564,914	492,507	936,874
Alabama	508	926	332	594	48,603	330,772	633,883	1,270,159
Mississippi	88	91	91	----------	27,924	30,498	61,937	64,671
West South Central	1,563	2,472	2,351	121	233,948	482,646	1,041,393	3,275,021
Arkansas	131	207	118	89	17,787	38,645	84,469	174,198
Louisiana	277	467	467	----------	18,328	26,009	52,156	634,594
Oklahoma	300	471	468	3	48,824	100,738	242,509	654,513
Texas	855	1,327	1,298	29	149,009	317,254	662,259	1,811,716
Mountain	1,406	1,675	572	1,103	845,394	2,036,195	2,209,444	3,389,551
Montana	378	452	28	424	379,213	965,454	988,009	1,398,749
Idaho	307	308	5	303	115,812	145,308	531,134	713,214
Wyoming	48	50	47	3	11,580	27,391	38,736	67,070
Colorado	269	311	220	91	165,196	274,224	290,082	499,566
New Mexico	33	(4)	(4)	(4)	9,028	17,245	22,362	32,674
Arizona	153	[4] 333	[4] 205	[4] 128	32,960	65,732	147,391	280,267
Utah	199	201	61	140	86,635	486,995	146,337	340,873
Nevada	19	20	6	14	44,970	53,846	45,393	57,137
Pacific	3,937	5,665	2,104	3,561	1,877,663	3,096,825	5,758,928	10,006,324
Washington	848	1,230	304	926	71,415	242,371	1,144,069	2,105,289
Oregon	308	537	260	277	58,789	107,887	266,861	840,063
California	2,781	3,898	1,540	2,358	1,747,459	2,746,567	4,347,998	7,060,973

[1] Rhode Island included with Vermont.
[2] West Virginia included with Delaware, District of Columbia, and Maryland.

COMMERCIAL AND MUNICIPAL ESTABLISHMENTS, BY STATES

to Table 385]

Thousands of kilowatt-hours generated—Continued			Thousands of kilowatt-hours sold, 1932		Revenue (in thousands of dollars), 1932		Division and State
1932	Commercial establishments, 1932	Municipal establishments, 1932	To ultimate consumers	For resale	From sale of electric current to ultimate consumers	From electric current sold for resale	
79,657,467	75,692,668	3,964,799	65,895,976	22,369,097	1,821,106	154,198	Continental U.S.
5,330,234	5,224,337	105,897	4,487,961	3,632,230	155,042	27,756	New England.
762,112	758,343	3,769	624,686	53,011	12,326	507	Maine.
680,607	678,643	1,963	207,198	514,453	7,921	4,118	New Hampshire.
[1] 811,459	[1] 795,902	[1] 15,558	[1] 545,301	[1] 636,663	[1] 19,209	[1] 4,340	Vermont.
2,158,486	2,085,461	73,025	2,194,464	2,094,556	82,785	15,015	Massachusetts.
(1)	(1)	(1)	(1)	(1)	(1)	(1)	Rhode Island.
917,571	905,988	11,582	916,311	333,547	32,801	3,776	Connecticut.
20,340,795	20,177,114	163,681	18,126,798	3,840,416	540,983	18,836	Middle Atlantic.
10,976,564	10,874,359	102,204	9,337,071	1,531,496	285,089	6,366	New York.
2,990,679	2,978,793	11,886	2,141,050	324,712	85,383	979	New Jersey.
6,373,552	6,323,962	49,591	6,648,678	1,984,208	170,511	11,491	Pennsylvania.
18,106,043	17,031,475	1,074,568	14,894,151	6,652,397	413,047	48,015	East North Central.
4,868,954	4,569,663	299,290	3,996,804	1,188,523	110,417	8,003	Ohio.
2,422,940	2,247,557	175,383	1,439,080	1,473,384	45,461	11,342	Indiana.
5,446,743	5,240,302	206,441	5,241,428	3,127,590	138,552	21,539	Illinois.
3,532,623	3,203,684	328,939	2,901,927	207,036	76,476	1,915	Michigan.
1,834,784	1,770,269	64,515	1,314,912	655,865	42,141	5,216	Wisconsin.
5,357,887	4,825,708	532,179	4,754,347	1,112,598	155,135	10,825	West North Central.
995,182	915,139	80,044	1,001,878	107,543	33,152	1,994	Minnesota.
1,483,096	1,402,843	80,253	740,899	208,597	28,436	2,527	Iowa.
1,214,488	1,132,544	81,945	1,766,384	562,855	47,429	3,334	Missouri.
140,316	133,403	6,913	79,088	14,245	4,749	138	North Dakota.
87,402	67,072	20,330	96,845	13,502	5,521	285	South Dakota.
561,795	489,126	72,669	438,224	100,218	15,262	1,262	Nebraska.
875,607	685,582	190,025	631,029	105,637	20,586	1,285	Kansas.
9,458,694	9,191,866	266,829	6,750,375	2,637,718	161,092	19,141	South Atlantic.
2,231,617	2,211,778	19,839	[2] 2,464,156	[2] 1,070,274	[2] 58,325	[2] 7,513	Delaware. Maryland. Dist. of Columbia.
962,318	912,084	50,234	814,387	81,447	21,812	480	Virginia.
1,442,443	1,442,305	138	(2)	(2)	(2)	(2)	West Virginia.
1,651,235	1,609,387	41,847	1,288,397	922,851	25,030	6,211	North Carolina.
1,294,883	1,293,920	964	763,879	466,152	13,182	3,737	South Carolina.
1,269,290	1,257,166	12,124	958,742	56,615	21,978	745	Georgia.
606,909	465,225	141,683	460,815	40,380	20,765	455	Florida.
2,993,770	2,914,604	79,166	2,890,544	733,803	65,156	5,111	East South Central.
681,947	660,942	21,005	626,734	240,139	19,716	1,520	Kentucky.
1,050,405	1,022,065	28,340	1,054,271	33,670	20,365	260	Tennessee.
1,209,646	1,207,681	1,965	1,010,552	457,405	17,527	3,280	Alabama.
51,773	23,916	27,856	198,988	2,589	7,548	51	Mississippi.
4,308,491	4,111,943	196,548	3,463,757	1,057,048	101,467	7,508	West South Central.
155,020	137,266	17,754	283,022	59,037	9,357	849	Arkansas.
1,171,951	1,125,864	46,087	639,769	518,579	17,053	2,907	Louisiana.
725,488	669,054	56,434	610,265	108,882	19,781	1,103	Oklahoma.
2,256,031	2,179,758	76,273	1,930,701	370,551	55,276	2,649	Texas.
2,346,832	2,266,345	80,487	1,958,421	363,173	52,302	3,032	Mountain.
635,520	635,166	355	[3] 901,460	[3] 16,133	[3] 17,801	[3] 245	Montana.
473,290	458,052	15,238	296,091	211,520	6,202	1,070	Idaho.
74,597	73,581	1,016	62,070	6,705	2,820	180	Wyoming.
437,330	394,157	43,173	345,608	25,414	14,154	411	Colorado.
(4)	(4)	(4)	(4)	(4)	(4)	(4)	New Mexico.
[4] 412,616	[4] 411,461	[4] 1,155	[4] 266,987	[4] 100,200	[4] 8,952	[4] 1,078	Arizona.
275,846	256,495	19,350	(3)	(3)	(3)	(3)	Utah.
37,634	37,433	200	86,205	3,200	2,373	48	Nevada.
11,414,720	9,949,276	1,465,444	8,569,621	2,339,714	176,882	13,974	Pacific.
2,544,767	1,979,090	565,677	1,835,963	535,572	28,904	2,874	Washington.
968,614	929,935	38,679	742,723	78,017	15,712	705	Oregon.
7,901,339	7,040,251	861,088	5,990,934	1,726,125	132,266	10,395	California.

[3] Utah included with Montana.
[4] New Mexico included with Arizona.
Source: Bureau of the Census, Department of Commerce.

No. 388.—CENTRAL ELECTRIC STATIONS, COMMERCIAL AND MUNICIPAL ESTABLISHMENTS: NUMBER OF CUSTOMERS, CURRENT SOLD, AND REVENUE (ULTIMATE CONSUMERS ONLY), BY CLASS OF SERVICE, 1932

Class of service	Total	Commercial	Municipal	Total	Commercial	Municipal
	Number of customers			Current sold (thousands of kilowatt-hours)		
Total	**23, 858, 411**	**21, 630, 662**	**2, 227, 749**	**65, 895, 976**	**62, 147, 695**	**3, 748, 281**
Farm service (all uses)	613, 753	592, 692	21, 061	1, 504, 257	1, 488, 106	16, 151
Domestic service	19, 285, 560	17, 337, 876	1, 947, 684	11, 790, 140	10, 410, 750	1, 379, 390
Commercial service:						
Small light and power (retail)	3, 527, 794	3, 284, 326	243, 468	12, 059, 464	10, 793, 768	1, 265, 696
Large light and power (wholesale)	379, 402	365, 038	14, 364	32, 380, 076	31, 931, 213	448, 863
Municipal street lighting	29, 832	28, 997	835	2, 235, 668	1, 746, 288	489, 380
Railroads (motive power):						
Street and interurban	474	454	20	4, 392, 943	4, 348, 207	44, 736
Electrified steam railroad divisions	367	363	4	762, 205	762, 115	90
Other service	21, 229	20, 916	313	771, 223	667, 248	103, 975
	Current sold per customer (kilowatt-hours)			Revenue from electric service (thousands of dollars)		
Total	**2, 762**	**2, 873**	**1, 683**	**1, 821, 106**	**1, 703, 304**	**117, 802**
Farm service (all uses)	2, 451	2, 511	767	42, 774	41, 875	899
Domestic service	611	600	708	649, 765	584, 995	64, 770
Commercial service:						
Small light and power (retail)	3, 418	3, 286	5, 199	491, 852	459, 441	32, 411
Large light and power (wholesale)	85, 345	87, 474	31, 249	483, 391	475, 739	7, 652
Municipal street lighting	74, 942	60, 223	586, 084	92, 011	81, 795	10, 216
Railroads (motive power):						
Street and interurban	9, 267, 813	9, 577, 550	2, 236, 782	38, 777	38, 297	480
Electrified steam railroad divisions	2, 076, 852	2, 099, 491	22, 379	7, 019	7, 016	3
Other service	36, 329	31, 901	332, 187	15, 517	14, 146	1, 371
	Revenue per customer (dollars)			Revenue per kilowatt-hour (cents)		
Total	**76**	**79**	**53**	**2. 8**	**2. 7**	**3. 1**
Farm service (all uses)	70	71	43	2. 8	2. 8	5. 6
Domestic service	34	34	33	5. 5	5. 6	4. 7
Commercial service:						
Small light and power (retail)	139	140	133	4. 1	4. 3	2. 6
Large light and power (wholesale)	1, 274	1, 303	532	1. 5	1. 5	1. 7
Municipal street lighting	3, 084	2, 821	12, 234	4. 1	4. 7	2. 1
Railroads (motive power):						
Street and interurban	81, 808	84, 354	24, 014	. 9	. 9	1. 1
Electrified steam railroad divisions	19, 124	19, 326	794	. 9	. 9	3. 5
Other service	731	676	4, 381	2. 0	2. 1	1. 3

Source: Bureau of the Census, Department of Commerce.

No. 389.—AVERAGE RETAIL PRICES OF HOUSEHOLD ELECTRICITY (32 CITIES)

[Cents per kilowatt-hour]

December—	Net price	December—	Net price	December—	Net price	December—	Net price
1913	8. 1	1919	7. 5	1925	7. 3	1931	6. 5
1914	7. 8	1920	7. 7	1926	7. 2	1932	6. 5
1915	7. 6	1921	7. 7	1927	7. 1	1933	6. 1
1916	7. 4	1922	7. 5	1928	6. 9	1934 (November)	5. 8
1917	7. 2	1923	7. 4	1929	6. 7		
1918	7. 6	1924	7. 4	1930	6. 6		

Source: Bureau of Labor Statistics, Department of Labor.

No. 390.—CENTRAL ELECTRIC STATIONS: Financial Statistics

[All figures in thousands of dollars. See headnote to table 385]

	Commercial establishments						Municipal establishments
	1902	1912	1917	1922	1927	1932	1932
INCOME ACCOUNT							
Income, total	78,736	279,054	486,634	936,684	[1]1,841,227	[1]2,030,997	[1]126,298
Electric service, total	77,350	264,475	462,474	936,852	1,680,218	1,854,110	121,194
Commercial and domestic light and power	57,195	205,974	373,280	773,111	1,424,998	[2]1,576,197	[3]107,103
Municipal lighting	16,130	27,131	31,462	40,854	66,141	81,795	10,215
Sales to other public service corporations	4,025	30,857	57,207	122,321	189,079	[4]196,118	[5]3,876
Value of free service	(6)	513	525	566	(6)	(6)	(6)
Interest and dividends from investments	(6)	4,869	8,807	16,527	53,959	61,060	692
Other sources	1,386	9,710	15,353	33,305	[1]107,050	[1]115,827	[1]4,412
Expenses, total	62,835	217,660	395,127	792,496	[7]1,318,255	[7]1,477,139	[7]89,217
Fuel	10,190	30,502	78,286	146,323	157,912	102,560	9,823
Current purchased	2,007	16,913	35,733	79,637	143,711	161,121	17,779
Supplies, materials, and miscellaneous	14,751	27,565	48,118	80,492	[7]121,529	[7]209,730	[7]20,908
Rent of offices, conduits, etc	1,272	4,214	9,881	18,626	(8)	(8)	(8)
Salaries and wages	18,767	55,659	86,473	194,148	367,632	303,058	20,822
Taxes	2,655	13,117	29,897	73,128	150,253	203,858	1,292
Injuries, damages, insurance	1,074	3,316	5,145	10,209	(6)	(6)	(6)
Interest	12,119	46,865	71,145	125,596	269,602	354,165	7,193
Depreciation	(6)	17,989	26,292	59,273	107,616	142,647	11,400
Sinking and reserve funds	(6)	1,520	4,157	5,064	(6)	(8)	(8)

[1] Includes net income from utilities other than electric and nonoperating income.
[2] Includes revenue for farm service, $41,875,000; domestic service, $584,995,000; small light and power (retail), $459,441,000; large light and power (wholesale), $475,739,000; and other service, $14,146,000.
[3] Includes revenue for farm service, $899,000; domestic service, $64,769,000; small light and power (retail), $32,412,000; large light and power (wholesale), $7,652,000; and other service, $1,371,000.
[4] Includes revenue for street and interurban railways, $38,297,000; electrified steam-railroad divisions, $7,015,000; and total for resale, $150,806,000.
[5] Includes revenue for street and interurban railways, $480,000; electrified steam-railroad divisions, $3,000; and total for resale, $3,393,000.
[6] Not called for on schedule.
[7] Includes other deductions from gross income.
[8] No comparable data.

No. 391.—CENTRAL ELECTRIC STATIONS: Reports to the Edison Electric Institute

	1926	1928	1930	1932	1933	1934
Current generated ... million kilowatt-hours	67,990	80,453	88,592	76,885	79,259	84,931
Sales to ultimate consumers ... do	56,089	66,988	74,906	63,764	65,754	70,782
Domestic service, incl. nonirrigated farms	6,827	8,619	11,018	11,987	11,960	12,798
Commercial, small light and power (retail)	9,485	11,692	13,944	12,932	12,475	13,151
Commercial, large light and power (wholesale)	32,615	38,903	41,621	31,186	33,722	36,919
All other	7,163	7,774	8,323	7,659	7,596	7,915
Revenue from ultimate consumers ... 1,000 dollars	1,520,159	1,784,309	1,990,955	1,832,596	1,773,416	1,837,046
Domestic service, incl. nonirrigated farms	478,182	571,620	664,441	669,200	656,570	677,697
Commercial, small light and power (retail)	427,407	519,957	575,598	528,861	499,684	511,682
Commercial, large light and power (wholesale)	488,915	549,989	590,992	476,451	465,191	495,657
All other	125,655	142,743	159,924	158,084	151,970	152,010
Customers, average for year ... thousands	19,448	22,470	24,351	24,282	24,067	24,566
Domestic, including nonirrigated farms	15,992	18,520	20,149	19,956	19,800	20,266
Commercial, small light and power (retail)	3,041	3,445	3,613	3,707	3,671	3,706
Commercial, large light and power (wholesale)	383	474	541	555	529	527
All other	33	30	48	65	67	68

Sources: Table 390, Bureau of the Census, Department of Commerce; table 391, Edison Electric Institute.

No. 392.—DEVELOPED AND POTENTIAL WATER POWER

NOTE.—In thousands of horsepower. Data for developed water power cover capacity of actual installation of water wheels and turbines in plants of 100 horsepower or more. Figures for potential power are revised estimates showing the 24-hour horsepower available 90 percent of the time and 50 percent of the time at an over-all efficiency of 70 percent at all developed and undeveloped sites. Data for potential power are not directly comparable with those for developed power, because developed power is usually given in terms of the capacity of installed water wheels or turbines, which may be several times the potential power available 90 percent of the time. Probably with complete development of the water-power resources of the whole country the installed capacity would amount to 80,000,000 horsepower or more

Division and State	Developed water power (capacity of actual installation)							Potential water power available—	
	November, 1921	March, 1925	January, 1930	January, 1932	January, 1933	January, 1934	January, 1935	90 percent of the time	50 percent of the time
Continental U. S.	7,927	10,048	13,808	15,563	15,818	15,913	16,075	41,701	60,276
New England	1,311	1,399	1,643	1,939	1,947	2,004	2,006	1,022	2,019
Maine	450	477	541	613	613	613	616	536	1,074
New Hampshire	229	243	278	559	559	572	575	186	350
Vermont	130	168	260	202	202	192	192	103	209
Massachusetts	338	344	362	362	368	423	422	107	236
Rhode Island	30	30	30	30	30	29	29	25	40
Connecticut	134	136	172	172	174	175	173	65	110
Middle Atlantic	1,479	1,958	2,113	2,302	2,396	2,421	2,465	4,397	6,083
New York	1,292	1,714	1,805	1,892	1,900	1,885	1,885	4,034	4,993
New Jersey	17	19	18	17	17	17	17	50	90
Pennsylvania	170	226	291	392	478	520	563	313	1,000
East North Central	739	885	1,075	1,103	1,139	1,186	1,189	758	1,401
Ohio	29	30	30	21	22	23	23	55	166
Indiana	27	51	55	54	55	55	55	45	145
Illinois	85	87	95	94	94	88	88	189	361
Michigan	267	305	379	414	444	464	477	184	249
Wisconsin	331	413	517	520	524	555	546	285	480
West North Central	444	515	551	765	767	762	750	1,040	1,862
Minnesota	205	263	287	287	287	287	272	212	329
Iowa	173	177	181	182	184	183	183	169	395
Missouri	18	20	23	235	235	235	235	84	105
North Dakota	(1)	(1)	(1)	(1)	(1)	(1)	(1)	82	193
South Dakota	18	19	19	20	20	20	20	206	247
Nebraska	15	21	24	24	24	24	24	183	342
Kansas	15	14	16	16	16	13	16	104	251
South Atlantic	1,082	1,594	2,657	2,968	2,979	3,036	3,173	2,988	5,133
Delaware	3	3	1	1	1	1	1	5	10
Maryland	7	7	416	416	416	409	404	106	238
Dist. of Columbia	1	1	6	6	6	6	6		
Virginia	104	118	126	153	155	152	154	459	812
West Virginia	15	15	89	87	87	87	227	355	980
North Carolina	330	535	947	961	971	971	980	916	1,245
South Carolina	330	507	574	810	810	811	811	555	860
Georgia	286	400	473	512	512	[2] 578	569	572	958
Florida	7	9	25	21	21	20	20	20	30
East South Central	241	392	1,169	1,364	1,364	1,298	1,303	2,477	3,251
Kentucky	1	1	145	145	145	145	145	245	380
Tennessee	127	166	179	288	288	288	291	1,340	1,656
Alabama	113	224	845	931	931	[2] 865	867	820	1,140
Mississippi								72	75
West South Central	16	31	49	134	150	150	150	567	1,117
Arkansas	1	16	16	95	95	95	95	200	300
Louisiana								9	9
Oklahoma	2	2	3	3	2	2	2	70	194
Texas	13	14	31	37	53	53	53	288	614
Mountain	827	937	1,185	1,216	1,212	1,209	1,190	11,132	14,670
Montana	344	360	419	428	429	428	428	2,410	3,300
Idaho	224	299	358	355	348	348	342	2,550	3,550
Wyoming	8	8	19	25	23	23	23	704	1,182
Colorado	92	91	98	98	102	101	102	873	1,609
New Mexico	1	1	2	1	2	2	2	116	186
Arizona	39	49	120	137	137	137	137	2,759	2,887
Utah	106	115	156	158	158	156	144	1,420	1,586
Nevada	13	14	14	14	14	14	13	300	370
Pacific	1,789	2,336	3,365	3,772	3,865	3,848	3,851	17,320	24,740
Washington	454	561	766	1,011	1,053	1,037	1,037	8,800	12,000
Oregon	185	244	299	354	364	364	363	4,400	6,300
California	1,149	1,531	2,301	2,407	2,448	2,447	2,450	4,120	6,440
Outlying areas:									
Alaska		40	36	36	37	[3] 37	[3] 37	1,000	2,500
Hawaii		25	[4] 32	[4] 32	26	26	[5] 26	19	28
Puerto Rico		15	[6] 15	[7] 30	36	[3] 36	[3] 36	72	174

[1] Less than 500. [2] Bartletts Ferry plant changed from Alabama to Georgia. [3] Capacity in 1933. [4] Capacity in 1928. [5] Capacity in 1934. [6] Capacity in 1925. [7] Capacity in 1931.

Source: Geological Survey, Department of the Interior.

19.—PUBLIC ROADS AND MOTOR VEHICLES

No. 393.—RURAL ROADS IN THE UNITED STATES

NOTE.—Mileage data included for county and township roads in 1921 and 1926 were secured from county records; data for other years shown in this and subsequent tables contain some estimates and are not as accurate as to detail. Figures for county and township roads not available subsequent to 1930. Data in most cases refer to calendar years; there are, however, exceptions in some States. Data relate to continental United States only, except as noted

Item	1921	1926	1929	1930
ALL RURAL ROADS				
Total mileage at end of year	2,941,294	3,000,190	3,024,233	3,009,066
Earth roads	2,553,534	2,450,126	2,361,798	2,315,507
Surfaced roads	387,760	550,064	662,435	693,559
Low type [1]	340,583	467,077	549,981	567,851
High type [1]	[2] 47,177	82,987	112,454	125,708
Total mileage built during year	110,976	116,413	78,003	87,717
Earth roads (graded and drained)	[3] 69,804	60,059	23,128	24,370
Surfaced roads [4]	41,172	56,354	54,875	63,347
Low type [1]	33,083	46,746	42,548	48,397
High type [1]	[5] 8,089	9,608	12,327	14,950
Funds available for rural road purposes, all authorities [6] (1,000 dollars)	[7] 1,109,896	1,640,451	2,042,400	2,302,646
Motor vehicle fees, gasoline taxes	119,915	436,449	687,730	862,933
Other taxes and appropriations	415,747	491,194	560,908	537,951
Proceeds of bonds	434,573	272,422	271,864	316,973
Federal aid [8]	77,457	79,163	77,573	92,463
All other sources	[7] 62,205	361,224	444,324	492,326
Disbursements for rural roads and bridges, all roads, by all authorities (1,000 dollars)	1,027,493	1,276,698	1,615,519	1,885,851
Highway purposes—				
Construction	622,172	621,893	813,982	1,009,712
Maintenance	250,559	338,853	433,538	475,912
Other expenditures	121,372	203,002	197,148	194,869
All other disbursements	33,389	112,950	170,850	205,357

Item	1926	1929	1930	1931	1932	1933
Total mileage of State highway systems at end of year [9]	287,928	314,136	324,496	328,942	[10] 358,210	[11] 345,751
Earth roads	124,869	105,812	98,275	86,242	92,150	73,906
Surfaced roads	163,059	208,324	226,221	242,700	266,060	[11] 271,845
Low type [1]	109,110	133,211	142,109	146,359	156,325	157,995
High type [1]	53,949	75,113	84,112	96,341	109,735	113,850
Total mileage of State highway systems built during year	27,387	32,522	35,277	44,634	35,971	27,930
Earth roads (graded and drained)	7,060	7,451	7,813	10,095	6,394	6,258
Surfaced roads [4]	20,327	25,071	27,464	34,539	29,577	21,672
Low type [1]	14,199	16,224	16,677	22,026	19,568	14,271
High type [1]	6,128	8,847	10,787	12,513	10,009	7,401
Funds available to State highway departments [12] (1,000 dollars)	806,688	1,194,775	1,423,164	1,367,970	1,173,576	955,124
Disbursements by State highway departments, including Federal aid [12] (1,000 dollars)	621,744	910,485	1,139,677	1,091,009	955,446	782,006
Highway construction under Federal aid, status at end of year: [13]						
Completed mileage	56,717	82,330	88,945	99,777	104,562	118,176
Projects under construction:						
Miles	14,581	8,735	9,089	8,672	13,349	2,669
Total cost (1,000 dollars)	365,730	217,013	233,397	216,850	250,978	66,174
Federal aid (1,000 dollars)	151,490	89,219	99,573	98,080	98,257	26,724
Projects approved for construction:						
Miles	1,575	1,400	2,875	1,910	2,682	64
Total cost (1,000 dollars)	40,299	29,340	60,394	35,473	45,085	408
Federal aid (1,000 dollars)	13,921	9,942	25,531	15,134	13,314	273
Federal-aid fund available for new projects (1,000 dollars)	113,070	99,881	144,726	113,879	20,294	3,956

[1] Low type includes sand-clay, gravel, and waterbound macadam; high type includes bituminous macadam, bituminous concrete, sheet asphalt, Portland cement concrete, and block pavements.
[2] Includes 11,303 miles of unclassified roads. [3] Includes mileage partially graded and drained.
[4] Includes original and reconstructed surfacing. [5] Includes 368 miles of unclassified roads.
[6] Excludes funds transferred. [7] Excludes balance on hand at beginning of year; not reported in 1921.
[8] For road and bridge purposes under supervision of State highway department only.
[9] Some municipal street mileage which cannot be determined included prior to 1933.
[10] Includes 20,171 miles of local roads under jurisdiction of State highway department for construction and maintenance; this mileage was excluded in 1933.
[11] Includes 1,509 miles of municipal streets. [12] Includes funds transferred to or from local units.
[13] Includes data for Hawaii beginning 1926 for all items except those for projects approved for construction which include Hawaii beginning 1929. For 1934 data regarding Federal aid road construction, also public works road construction in 1934, see table 398.

Source: Bureau of Public Roads, Department of Agriculture.

No. 394.—RURAL ROAD MILEAGE AS OF DECEMBER 31

NOTE.—Data include all rural roads. In some cases variations in mileage from that of the previous year shown are partly because of more accurate survey of road mileage. Data in most cases relate to Dec 31; there are, however, some exceptions. Data for local roads subsequent to 1930 are not available. For mileage of State highway systems as of Dec. 31, 1933, see table 395

Division and State	All types			Surfaced roads						
	1914	1921	1930	1914	1921	1926	1927	1928	1929	1930
Continental U. S.	2,445,761	2,941,294	3,009,066	257,292	387,760	550,064	588,721	626,137	662,435	693,559
New England	86,718	83,295	83,744	18,038	17,725	23,614	24,631	25,919	27,465	28,848
Maine	23,537	21,483	20,882	2,762	2,953	4,429	4,832	5,293	5,777	6,227
New Hampshire	14,020	13,841	12,034	1,660	1,692	2,218	2,391	2,546	2,784	3,000
Vermont	14,249	14,677	15,031	1,442	3,545	4,490	4,691	4,857	4,983	5,075
Massachusetts	18,681	18,868	18,802	8,506	6,575	8,280	8,485	8,783	9,324	9,682
Rhode Island	2,170	2,274	2,739	693	754	876	853	990	1,025	1,092
Connecticut	14,061	12,152	14,256	2,975	2,206	3,321	3,379	3,450	3,572	3,712
Middle Atlantic	185,771	186,935	190,635	31,516	38,946	58,298	62,071	64,748	67,935	70,801
New York	79,398	81,878	82,375	15,636	18,566	26,957	29,481	31,113	32,713	34,278
New Jersey	14,817	14,066	17,393	5,897	6,459	7,836	8,057	8,734	9,077	9,442
Pennsylvania	91,556	90,991	90,867	9,983	13,921	23,505	24,533	24,901	26,145	27,081
East North Central	405,245	412,753	419,051	94,365	124,298	153,853	160,664	168,210	174,150	181,598
Ohio	86,354	84,219	85,106	30,569	36,068	42,361	43,977	46,245	48,503	50,836
Indiana	73,347	76,246	73,768	30,962	39,857	49,440	50,284	50,995	51,314	52,034
Illinois	95,647	96,326	97,287	11,606	11,473	16,928	18,118	20,032	21,375	22,815
Michigan	74,190	77,283	81,106	7,829	17,186	21,698	22,493	24,167	25,143	26,281
Wisconsin	75,707	78,679	81,784	13,399	19,714	23,426	25,792	26,771	27,815	29,632
West North Central	650,058	759,820	777,793	14,968	30,223	61,503	69,989	78,762	87,384	96,166
Minnesota	93,517	107,103	110,661	3,968	16,905	30,011	32,399	34,223	35,501	37,217
Iowa	104,074	104,082	103,328	615	2,585	9,284	11,811	15,191	18,021	20,088
Missouri	96,041	111,520	110,540	6,713	7,879	11,043	11,739	12,319	13,074	14,326
North Dakota	68,796	106,523	106,846	955	710	1,874	2,366	2,953	3,592	4,026
South Dakota	96,306	115,485	120,271	363	548	3,510	4,087	4,840	6,147	7,096
Nebraska	80,272	86,556	93,907	1,205	496	3,273	3,979	4,651	5,364	6,386
Kansas	111,052	128,551	132,240	1,149	1,100	2,508	3,608	4,585	5,685	7,027
South Atlantic	297,193	365,567	357,554	32,154	61,178	82,282	89,541	95,384	100,840	96,514
Delaware	3,674	3,933	3,779	244	448	884	927	1,094	1,180	1,258
Maryland	16,459	14,772	14,847	2,489	3,663	4,640	5,307	5,493	5,704	6,308
Virginia	53,388	59,080	59,957	3,910	7,260	10,542	11,192	11,897	12,327	12,581
West Virginia	32,024	35,173	34,799	1,065	1,367	3,037	3,713	3,917	4,450	5,292
North Carolina	50,758	68,204	53,796	6,004	16,755	26,885	27,811	28,345	29,649	21,956
South Carolina	42,226	61,850	57,726	3,270	6,908	12,475	13,841	16,648	17,576	18,802
Georgia	80,669	94,912	102,284	12,342	18,339	11,416	13,015	13,972	14,831	14,922
Florida	17,995	27,643	30,366	2,830	6,438	12,403	13,735	14,018	15,123	15,395
East South Central	205,191	242,745	259,078	27,626	41,478	55,274	58,931	61,187	66,695	73,406
Kentucky	57,916	68,704	61,261	12,403	15,436	15,236	15,619	16,130	17,030	17,654
Tennessee	46,050	62,546	67,953	8,102	9,878	11,238	12,521	13,538	15,184	18,018
Alabama	55,446	58,410	67,907	4,988	10,420	17,514	18,204	17,370	18,369	19,784
Mississippi	45,779	53,085	61,957	2,133	5,744	11,286	12,587	14,149	16,112	17,950
West South Central	312,182	416,617	413,820	13,815	23,986	40,285	42,187	46,436	49,896	52,818
Arkansas	50,743	74,866	68,849	1,098	3,871	5,981	6,269	6,779	7,958	8,884
Louisiana	24,563	39,803	35,553	2,068	2,771	8,697	9,501	10,731	11,152	12,203
Oklahoma	107,916	[1] 134,263	120,879	122	2,461	2,930	3,300	3,711	4,774	5,307
Texas	128,960	167,685	188,539	10,527	14,883	22,677	23,117	25,215	26,012	26,424
Mountain	163,117	306,382	334,929	4,881	15,539	25,827	28,574	32,010	33,848	36,960
Montana	39,204	64,732	67,072	609	1,772	2,508	2,799	3,178	3,437	3,870
Idaho	24,396	31,099	39,825	679	2,982	6,961	7,940	8,487	8,884	9,766
Wyoming	14,797	46,528	41,233	468	440	1,284	1,361	1,604	1,760	1,987
Colorado	39,780	48,143	68,974	1,194	4,598	5,997	6,383	6,952	7,157	7,588
New Mexico	11,873	45,549	47,776	262	1,802	1,954	2,144	2,361	2,539	3,014
Arizona	12,075	21,227	22,818	253	1,233	3,070	3,150	3,421	3,597	3,840
Utah	8,810	23,047	23,655	1,154	2,544	2,600	3,001	3,996	4,237	4,451
Nevada	12,182	26,057	23,576	262	168	1,453	1,796	2,011	2,237	2,444
Pacific	140,286	167,180	172,462	19,928	34,387	49,126	52,135	53,481	54,222	56,448
Washington	42,428	45,816	43,881	4,922	12,062	16,483	16,655	16,406	16,718	16,870
Oregon	36,819	45,475	51,617	4,726	8,050	11,578	11,815	11,995	12,123	13,931
California	61,039	75,889	76,964	10,280	14,275	21,065	23,665	25,080	25,381	25,647

[1] Includes about 26,000 miles of section lines declared public highways by law but which are not open for general traffic.

Source: Bureau of Public Roads, Department of Agriculture.

No. 395.—STATE HIGHWAY SYSTEMS: RURAL ROADS AND MUNICIPAL STREETS CONNECTING HIGHWAYS AS OF DECEMBER 31, 1933, AND RURAL MILEAGE SURFACED DURING 1932 AND 1933

Division and State	Existing mileage, end of 1933						Mileage surfaced during—		
	Rural roads and municipal streets	Rural roads					1932, total [2]	1933	
		Total	Earth roads	Surfaced roads				Total [2]	On earth roads
				Total	Low type [1]	High type [1]			
Cont'l U. S.	358,292	[3] 345,751	73,906	[3] 271,845	157,995	113,850	29,577	[4] 21,672	12,377
New England	11,794	11,135	561	10,574	5,995	4,579	684	402	158
Maine	2,379	2,087	66	2,021	1,539	482	140	61	11
New Hampshire	3,032	2,948	37	2,911	2,459	452	238	37	3
Vermont	1,100	1,013	--------	1,013	444	569	94	41	--------
Massachusetts	1,795	[5] 1,795	--------	[5] 1,795	196	1,599	127	95	34
Rhode Island	1,136	1,086	408	678	168	510	20	73	50
Connecticut	2,352	2,206	50	2,156	1,189	967	65	95	60
Middle Atlantic	30,366	28,106	3,102	25,004	5,940	19,064	4,662	1,349	670
New York	14,656	13,930	1,681	12,249	1,119	11,130	1,163	824	250
New Jersey	1,872	[5] 1,872	140	[5] 1,732	118	1,614	41	33	23
Pennsylvania [6]	[7] 13,838	[7] 12,304	1,281	11,023	4,703	6,320	3,458	[4] 492	397
East North Central	51,215	49,155	1,834	47,321	18,372	28,949	4,146	2,168	775
Ohio	11,845	11,845	57	11,788	5,284	6,504	977	440	8
Indiana	8,894	8,439	137	8,302	3,911	4,391	563	396	78
Illinois	10,759	10,099	515	9,584	12	9,572	684	674	595
Michigan	8,854	8,668	521	8,147	4,083	4,064	817	281	94
Wisconsin	10,863	10,104	604	9,500	5,082	4,418	1,105	377	--------
West North Central	60,470	58,081	10,518	47,563	34,817	12,746	7,632	5,730	3,466
Minnesota	7,000	6,766	90	6,776	4,164	2,512	1,234	534	43
Iowa	8,795	7,834	410	7,424	3,222	4,202	695	284	185
Missouri	12,226	[5] 12,226	1,478	[5] 10,748	6,995	3,753	1,929	2,154	1,513
North Dakota	7,674	7,604	1,997	5,607	5,576	31	1,067	981	817
South Dakota	6,023	5,961	1,020	4,941	4,753	188	466	343	251
Nebraska	9,770	9,177	2,527	6,650	5,944	706	1,269	760	279
Kansas	8,982	8,513	2,996	5,517	4,163	1,354	972	674	378
South Atlantic	52,897	51,470	10,463	41,007	24,953	16,054	3,141	2,991	2,092
Delaware	1,142	[5] 1,142	--------	[5] 1,142	272	870	50	142	142
Maryland [8]	3,884	3,757	--------	3,757	1,761	1,996	236	110	38
Virginia	9,192	8,974	1,301	7,673	6,114	1,559	239	[4] 834	834
West Virginia	4,687	4,448	873	3,575	1,625	1,950	347	163	118
North Carolina	10,991	10,148	949	9,199	5,358	3,841	442	588	256
South Carolina	5,954	5,954	187	5,767	3,376	2,391	717	396	225
Georgia	8,680	8,680	3,921	4,759	2,775	1,984	[9] 861	599	255
Florida	8,367	8,367	3,232	5,135	3,672	1,463	249	159	134
East South Central	26,177	26,177	4,341	21,836	16,051	5,785	1,063	1,455	940
Kentucky	7,319	[5] 7,319	1,333	[5] 5,986	4,494	1,492	548	914	574
Tennessee	7,212	7,212	739	6,473	4,014	2,459	[9] 323	237	175
Alabama [8]	5,552	5,552	1,442	4,110	2,948	1,162	149	113	60
Mississippi	6,094	6,094	827	5,267	4,595	672	43	191	131
West South Central	55,099	53,628	15,421	38,207	20,669	17,538	3,737	3,728	2,519
Arkansas	9,020	8,843	1,525	7,318	5,313	2,005	5	213	25
Louisiana	17,628	[5] 17,628	5,956	[5] 11,672	9,474	2,198	1,426	563	209
Oklahoma	7,420	[5] 7,420	2,020	[5] 5,400	3,367	2,033	312	957	917
Texas	21,031	19,737	5,920	13,817	2,515	11,302	1,994	1,995	1,368
Mountain	48,142	47,113	22,763	24,350	22,910	1,440	3,165	3,034	1,591
Montana	8,250	8,093	4,629	3,464	3,419	45	811	751	571
Idaho	4,806	4,636	1,457	3,179	2,994	185	271	297	113
Wyoming	3,482	3,398	815	2,583	2,548	35	318	296	296
Colorado	9,523	9,421	4,330	5,091	4,598	493	440	347	125
New Mexico	10,525	10,370	7,218	3,152	3,036	116	215	435	175
Arizona	2,895	2,895	707	2,188	1,951	237	116	320	118
Utah	4,622	4,293	1,821	2,472	2,212	260	450	273	70
Nevada	4,034	4,007	1,786	2,221	2,152	69	544	315	123
Pacific	22,132	20,886	4,903	15,983	8,238	7,695	1,347	815	256
Washington	3,805	3,551	235	3,316	2,235	1,081	648	203	42
Oregon	4,751	[5] 4,751	614	[5] 4,137	2,530	1,607	287	238	128
California	13,576	12,584	4,054	8,530	3,523	5,007	412	374	86

[1] See note 1, table 393. [2] Includes original and reconstructed surfacing.
[3] Includes 1,509 miles of municipal streets.
[4] Not including 5,541 miles (2,892 miles in Pennsylvania and 2,649 miles in Virginia) built on secondary systems under jurisdiction of State highway departments for construction and maintenance.
[5] Includes municipal streets. [6] Data as of May 15 or for year ended May 15.
[7] Not including 20,171 miles of secondary roads under jurisdiction of State highway departments for construction and maintenance; this mileage was included in the 1932 report.
[8] Data as of Sept. 30 or for year ended Sept. 30.
[9] For 18 months, July 1, 1931, to Dec. 31, 1932.

Source: Bureau of Public Roads, Department of Agriculture.

No. 396.—DISBURSEMENTS FOR RURAL HIGHWAYS UNDER SUPERVISION OF STATE HIGHWAY DEPARTMENTS, INCLUDING FEDERAL AID

NOTE.—Figures include disbursements, whether from current revenues or the proceeds of loans, for construction, maintenance, interest and principal payments on highway bonds, and transfers to local units

Division and State	Year in which first State aid law passed	1921	1926	1927	1928	1929	1930	1931	1932	1933
		Thousands of dollars								
Cont'l U.S.	--------	397,484	621,744	707,179	830,265	910,485	1,139,677	1,091,009	955,446	782,006
New England	--------	25,910	45,178	51,735	60,878	73,425	76,418	74,095	79,341	58,896
Maine	1901	6,524	10,279	8,684	12,118	14,006	17,184	18,442	16,243	10,490
N. Hampshire	1903	2,360	3,017	3,565	5,553	[1] 7,713	9,640	8,489	7,112	7,471
Vermont	1898	951	3,713	4,080	5,762	12,516	9,013	6,999	6,177	5,511
Mass'setts	1892	7,864	13,794	18,380	16,473	20,180	21,926	28,324	29,596	18,289
Rhode Island	1902	2,213	3,871	4,242	4,548	5,412	3,367	6,188	4,768	5,347
Connecticut	1895	5,998	10,504	12,784	16,419	13,598	15,288	[2] 5,653	15,445	11,788
Middle Atlantic	--------	101,475	117,072	136,625	153,247	171,495	216,236	192,315	172,429	137,259
New York	1898	36,855	41,781	58,798	62,503	69,664	73,233	73,924	54,285	42,206
New Jersey	1891	15,608	24,378	27,763	32,479	41,397	47,414	52,860	49,197	28,377
Pennsylvania	1903	49,012	50,913	50,064	58,265	60,434	95,589	65,531	68,947	66,676
E. N. Central	--------	68,512	104,321	114,016	160,563	160,363	190,673	153,465	166,894	127,083
Ohio	1904	15,547	29,496	25,518	33,953	30,281	47,491	34,161	36,703	20,705
Indiana	1917	8,110	12,429	14,798	16,544	20,678	22,569	20,771	23,183	[3] 8,800
Illinois	1905	15,693	24,267	30,270	53,472	39,728	48,854	42,622	45,092	40,194
Michigan	1905	16,744	25,998	25,883	36,578	48,666	46,136	36,540	36,211	24,272
Wisconsin	1911	12,417	12,131	17,547	20,017	21,010	25,623	19,371	25,705	33,112
W. N. Central	--------	41,087	88,723	101,852	104,993	123,547	171,732	167,043	131,290	103,289
Minnesota	1905	7,480	17,979	17,837	18,412	23,366	39,365	36,578	36,959	17,079
Iowa	1904	18,276	15,272	24,077	37,255	36,084	50,607	36,827	23,738	18,122
Missouri	1907	4,727	30,841	25,996	18,981	28,321	43,921	42,841	37,335	34,503
North Dakota	1909	1,030	1,978	4,567	3,564	4,129	3,992	6,957	5,084	[4] 5,074
South Dakota	1911	4,738	5,843	4,862	5,893	6,168	5,915	12,674	5,413	4,509
Nebraska	1911	4,836	7,639	8,004	6,984	8,467	11,087	13,718	10,057	11,124
Kansas	1911	--------	9,171	16,509	13,904	17,012	16,845	17,448	12,704	12,878
South Atlantic	--------	51,181	113,651	133,328	121,189	113,712	139,904	154,397	123,176	104,379
Delaware	1903	3,765	3,469	3,480	3,377	5,208	8,492	4,426	3,386	4,138
Maryland	1898	7,616	10,598	[5] 10,598	10,668	13,617	17,992	16,152	15,950	13,788
Virginia	1906	7,114	12,014	14,714	14,448	14,214	19,189	22,022	17,640	20,669
West Virginia	1909	1,877	17,492	19,311	16,224	19,184	23,308	24,385	20,070	13,521
N. Carolina	1901	15,100	37,216	33,144	28,301	24,902	25,613	26,193	22,516	20,475
S. Carolina	1917	3,941	9,640	13,410	21,099	18,581	22,753	31,681	15,328	[2] 8,125
Georgia	1908	9,664	9,565	15,114	12,728	7,039	12,699	17,468	20,756	14,537
Florida	1915	2,103	13,657	23,557	14,343	10,967	9,858	12,070	7,530	9,126
E. S. Central	--------	16,621	38,845	44,734	60,329	68,942	92,737	86,158	57,533	51,828
Kentucky	1912	5,757	9,820	11,484	[6] 14,766	15,130	19,497	23,552	20,174	18,169
Tennessee	1915	6,328	14,037	16,003	19,172	29,741	53,278	41,209	25,405	15,357
Alabama	1911	1,036	10,290	10,766	20,110	19,317	15,373	14,523	7,195	10,711
Mississippi	1915	3,500	4,698	6,481	6,281	4,754	4,589	6,874	4,759	[7] 7,591
W. S. Central	--------	26,897	50,205	58,119	84,901	104,613	136,738	133,535	101,960	88,229
Arkansas	1913	--------	9,563	14,532	31,784	40,971	39,821	26,291	8,168	[4] 7,274
Louisiana	1910	5,347	10,563	10,753	11,157	17,143	29,357	50,033	38,852	25,781
Oklahoma	1911	4,775	10,420	12,816	13,251	11,969	20,228	15,047	12,144	14,524
Texas	1917	16,775	19,659	20,018	28,710	34,530	47,332	42,164	42,796	40,650
Mountain	--------	27,463	23,810	27,318	35,039	37,008	47,023	58,372	50,136	49,757
Montana	1913	3,640	1,155	1,541	3,863	4,488	6,378	7,173	8,502	7,480
Idaho	1905	4,863	4,191	3,847	5,413	3,365	6,637	7,717	6,592	5,193
Wyoming	1911	3,446	2,974	2,873	3,600	3,123	3,590	7,097	5,151	4,360
Colorado	1909	4,156	5,850	5,232	6,957	7,142	8,144	11,862	6,796	9,696
New Mexico	1909	3,713	2,928	5,089	6,603	6,675	9,138	8,762	5,718	7,605
Arizona	1909	2,948	2,565	2,608	2,443	4,873	5,233	7,242	7,041	5,491
Utah	1909	3,107	2,448	3,920	3,992	4,545	5,193	6,824	6,037	6,084
Nevada	1911	1,590	1,699	2,199	2,167	2,797	2,710	[8] 1,695	4,299	3,848
Pacific	--------	38,339	39,938	39,450	49,126	57,382	68,215	71,632	72,685	61,286
Washington	1905	9,696	8,825	8,628	13,893	15,702	15,806	17,681	19,494	11,032
Oregon	1913	17,828	10,018	10,263	10,268	11,328	14,668	17,136	13,188	12,660
California	1895	10,815	21,095	20,559	24,965	30,352	37,741	36,815	40,003	37,594

[1] Excludes expenditures of $2,462,000 for flood relief work.
[2] For 6 months ended June 30.
[3] For 9 months ended June 30.
[4] Owing to change in fiscal year, data include some disbursements reported also in 1932.
[5] Data are for 1926.
[6] For 9 months ended Mar. 31, 1929.
[7] For 11 months ended Dec. 25.
[8] For 7 months ended June 30.

Source: Bureau of Public Roads, Department of Agriculture.

No. 397.—FUNDS AVAILABLE AND DISTRIBUTION OF DISBURSEMENTS FOR STATE HIGHWAY PURPOSES, 1933

[In thousands of dollars]

Division and State	Funds available					Distribution of disbursements				
	Total	Motor-vehicle fees and motor-fuel taxes	Federal-aid receipts	Income from bonds, notes, and other loans	All other sources[1]	Total	Expenditures for highway purposes: New and reconstructed roads and bridges	Expenditures for highway purposes: Maintenance roads and bridges	Expenditures for highway purposes: Other[2]	Other disbursements[3]
Cont'l. U. S.	955,124	498,231	185,644	27,975	243,274	782,006	446,841	138,830	80,391	115,944
New England	73,182	43,373	9,100	2,856	17,853	58,896	27,927	14,377	3,065	13,527
Maine	13,296	6,766	2,995	956	2,580	10,490	4,089	1,869	1,214	3,317
New Hampshire	8,438	4,661	585	1,900	1,291	7,471	2,882	2,695	331	1,564
Vermont	6,532	3,832	774	-------	1,926	5,511	2,936	1,413	263	899
Massachusetts	23,728	13,093	3,375	-------	7,260	18,289	9,686	4,787	382	3,435
Rhode Island	5,531	3,921	802	-------	808	5,347	3,141	857	270	1,078
Connecticut	15,657	11,100	569	-------	3,988	11,788	5,193	2,756	605	3,234
Middle Atlantic	199,894	76,362	18,685	6,862	97,985	137,259	72,825	25,129	20,415	18,891
New York	73,887	8,475	7,847	6,706	50,859	42,206	25,042	9,204	6,664	1,296
New Jersey	[4]39,442	13,981	2,748	156	[4]22,557	28,377	12,022	2,260	4,155	9,941
Pennsylvania	86,565	53,906	8,090	-------	24,569	66,676	35,761	13,665	9,596	7,654
E. N. Central	166,799	106,704	24,565	-------	351,531	127,083	74,490	25,753	7,672	19,171
Ohio	28,221	19,102	5,896	-------	3,222	20,705	11,444	9,155	75	31
Indiana[5]	17,106	9,040	1,223	-------	6,843	8,800	5,083	3,559	158	-------
Illinois	57,699	35,015	7,272	-------	15,413	40,194	26,467	3,469	6,326	3,933
Michigan	29,583	22,746	5,557	-------	1,281	24,272	16,381	4,793	1,100	1,999
Wisconsin	34,190	20,801	4,617	-------	8,772	33,112	15,115	4,777	13	13,208
W. N. Central	117,594	61,756	29,857	5,997	19,984	103,289	64,896	15,178	13,833	9,382
Minnesota	19,533	12,208	3,869	-------	3,456	17,079	9,465	3,035	2,092	2,487
Iowa	22,922	15,199	3,828	811	3,084	18,122	8,956	2,211	4,887	2,068
Missouri	37,393	17,917	5,553	5,086	8,837	34,503	22,646	2,692	5,838	3,326
North Dakota[6]	5,464	1,320	3,114	100	930	5,074	3,704	1,061	44	265
South Dakota	5,192	2,282	2,670	-------	240	4,509	3,152	1,236	21	101
Nebraska	11,998	5,780	5,701	-------	517	11,124	8,819	2,205	88	12
Kansas	15,092	7,050	5,122	-------	2,920	12,878	8,154	2,738	863	1,123
South Atlantic	116,659	72,935	20,882	-------	22,843	104,379	47,328	15,301	12,318	29,434
Delaware	4,480	2,032	402	-------	2,046	4,138	2,234	273	481	1,150
Maryland	15,411	8,595	1,425	-------	5,391	13,788	7,165	2,307	1,026	3,291
Virginia	21,672	15,849	2,742	-------	3,080	20,669	7,835	4,950	666	7,219
West Virginia	16,785	8,876	2,931	-------	4,978	13,521	4,968	2,333	2,560	3,660
North Carolina	23,293	18,956	3,614	-------	723	20,475	4,734	2,138	4,466	9,138
South Carolina[7]	8,849	3,651	1,311	-------	3,888	8,125	1,560	641	2,179	3,745
Georgia	16,011	8,911	5,065	-------	2,036	14,537	11,688	928	733	1,188
Florida	10,158	6,065	3,392	-------	701	9,126	7,144	1,731	207	43
E. S. Central	58,972	28,639	17,695	-------	12,637	51,828	30,441	8,652	10,563	2,172
Kentucky	18,026	10,997	4,548	-------	2,482	18,169	11,472	3,975	2,341	382
Tennessee	22,296	9,000	4,018	-------	9,277	15,357	8,131	1,448	5,327	450
Alabama	10,983	5,906	4,610	-------	466	10,711	5,202	1,477	2,732	1,300
Mississippi[8]	7,667	2,736	4,519	-------	412	7,591	5,636	1,752	163	40
W. S. Central	93,588	43,277	24,680	10,000	15,632	88,229	54,834	16,121	6,320	10,954
Arkansas[6]	7,913	6,481	3,999	-------	[9] *2,567*	7,274	3,922	1,584	1,229	539
Louisiana	27,769	10,597	3,572	10,000	3,600	25,781	9,730	2,152	4,619	9,280
Oklahoma	13,229	6,918	4,888	-------	1,424	14,524	12,479	1,830	215	-------
Texas	44,677	19,281	12,221	-------	13,175	40,650	28,703	10,555	257	1,135
Mountain	52,008	19,281	27,099	800	4,827	49,757	35,443	7,879	1,906	4,530
Montana	7,645	2,578	4,978	-------	88	7,480	6,251	1,092	137	(10)
Idaho	5,633	2,382	2,774	-------	477	5,193	3,607	923	184	479
Wyoming	4,797	1,727	2,611	-------	459	4,360	3,241	753	178	189
Colorado	9,971	3,879	4,260	-------	1,832	9,696	6,342	1,316	313	1,726
New Mexico	7,979	2,502	4,190	500	786	7,605	4,713	1,173	453	1,266
Arizona	5,770	2,296	2,888	-------	586	5,491	4,038	918	283	252
Utah	6,424	2,954	2,816	-------	654	6,084	4,142	1,157	309	476
Nevada	3,789	963	2,582	300	[9] *55*	3,848	3,109	547	49	142
Pacific	76,426	45,904	13,080	1,461	15,981	61,286	38,656	10,441	4,306	7,882
Washington	13,962	10,487	3,248	-------	227	11,032	6,502	2,209	200	2,121
Oregon	13,896	8,203	2,724	1,461	1,508	12,660	5,363	2,109	1,325	3,863
California	48,568	27,214	7,108	-------	14,246	37,594	26,791	6,123	2,781	1,898

[1] Includes balance from previous year, transfers from local sources, and miscellaneous revenue.
[2] Equipment and machinery, interest on bonds and notes, and miscellaneous expenses.
[3] Principal payments on bonds and notes, transfers to local units, and miscellaneous disbursements.
[4] Not including income relating to Port of New York Authority and certain other income; included in previous years.
[5] For 9 months ended June 30.
[6] Owing to change in fiscal year, data include some receipts and disbursements reported also in 1932.
[7] For 6 months ended June 30.
[8] For 11 months ended Dec. 25.
[9] Deficit.
[10] Less than $500.

Source: Bureau of Public Roads, Department of Agriculture.

No. 398.—FEDERAL AID AND PUBLIC WORKS ROAD CONSTRUCTION: STATUS AS OF DEC. 31, 1934

[All figures, except mileage data, in thousands of dollars]

Division and State	Federal-aid road construction						Public-works road construction [1]					
	Mileage completed prior to Jan. 1, 1935	Projects under construction [2]			Federal-aid allotted to public-works projects	Federal-aid funds available for new projects	Total allotment of public-works funds	Mileage completed prior to Jan. 1, 1935	Projects under construction [3]			Public-works funds available for new projects
		Total cost	Federal aid allotted	Mileage					Total cost	Public-works funds alloted	Mileage	
Grand total [4]	120, 340	15,780	7, 132	460	7, 937	927	594, 000	20,226	147, 807	131, 388	6, 911	106, 311
New England	3, 342	2, 418	957	17	374	99	28, 059	436	9, 428	8, 930	156	5, 048
Maine	889					(5)	5, 082	150	1, 137	1, 107	37	567
New Hampshire	465				17		2, 879	52	687	663	19	248
Vermont	423				6	(5)	2, 816	94	526	495	27	412
Massachusetts	935	108	20	4	180		9, 948	58	4, 395	4, 214	21	2, 721
Rhode Island	299						3, 013	61	299	256	8	563
Connecticut	331	2, 310	937	13	171	19	4, 321	21	2, 384	2, 195	44	537
Middle Atlantic	8, 334	1, 227	436	24	407	17	71, 707	1, 058	26, 957	22, 020	661	7, 055
New York	4, 003	1, 076	433	24	104	13	33, 658	342	15, 964	11, 408	319	2, 924
New Jersey	692	151	3	(6)	272		9, 567	52	2, 279	2, 110	18	2, 821
Pennsylvania	3, 639				31	4	28, 482	664	8, 714	8, 502	324	1, 310
East North Central	15, 128	6, 959	3, 164	161	107	123	98, 825	1, 840	21, 292	20, 756	685	19, 507
Ohio	3, 296				81	67	23, 350	542	1, 944	1, 628	100	4, 010
Indiana	2, 380	3, 530	1, 702	51			15, 127	195	3, 434	3, 433	93	4, 370
Illinois	3, 707	3, 172	1, 356	102		41	26, 492	213	8, 899	8, 899	287	5, 416
Michigan	2, 743	257	106	8		15	19, 189	454	5, 576	5, 533	148	2, 551
Wisconsin	3, 002				26		14, 667	436	1, 439	1, 263	57	3, 160
West North Central	31, 616	667	572	53	681	52	94, 412	5, 941	19, 419	17, 925	1, 857	13, 432
Minnesota	4, 595						16, 082	1, 182	1, 901	1, 669	222	2, 666
Iowa	3, 832						15, 174	562	3, 763	3, 472	357	1, 975
Missouri	3, 438				124		18, 354	791	4, 590	4, 312	256	3, 581
North Dakota	6, 092	561	490	34	300		8, 743	1, 316	858	779	213	2, 325
South Dakota	4, 774	106	82	19	257	52	9, 059	777	1, 156	1, 124	294	2, 421
Nebraska	4, 580						11, 793	656	3, 861	3, 424	210	348
Kansas	4, 305						15, 207	657	3, 290	3, 145	305	116
South Atlantic	14, 182	942	432	34	1, 202	269	74, 637	2, 301	16, 304	14, 356	776	18, 210
Delaware	421						2, 742	52	1, 006	934	60	254
Maryland	914						5, 375	66	2, 163	1, 336	44	1, 609
Dist. of Col							2, 892	14	422	422	3	250
Virginia	2, 230				171	150	11, 182	370	1, 636	1, 386	44	2, 441
W. Virginia	1, 046	212	99	7	13	6	6, 755	106	1, 822	1, 755	64	1, 606
N. Carolina	2, 942				579	38	14, 363	842	2, 349	1, 911	200	3, 975
S. Carolina	2, 284	134	66	5	22	31	8, 230	294	1, 876	1, 859	162	1, 977
Georgia	3, 529	174	82	5	111	43	15, 205	369	3, 196	3, 052	150	4, 568
Florida	816	422	185	17	306	1	7, 893	188	1, 834	1, 701	49	1, 530
East South Central	8, 827	919	435	65	3, 858	45	47, 281	1, 281	15, 520	12, 985	835	11, 123
Kentucky	2, 198	279	115	17	13	1	11, 336	473	1, 896	1, 770	108	2, 401
Tennessee	1, 925				197		12, 796	275	3, 197	3, 100	115	2, 716
Alabama	2, 586				1, 643	15	12, 630	295	5, 386	4, 347	320	2, 823
Mississippi	2, 118	640	320	48	2, 005	29	10, 519	238	5, 041	3, 768	292	3, 183
West South Central	15, 881	1, 964	826	66	414	281	69, 406	2, 714	14, 512	13, 457	527	14, 563
Arkansas	2, 249	116	56	8	260	84	10, 176	289	2, 713	2, 518	93	2, 565
Louisiana	1, 675	690	317	3	27		8, 793	121	3, 126	2, 590	52	1, 846
Oklahoma	2, 807	733	288	33	127	26	13, 902	502	2, 725	2, 626	146	1, 818
Texas	9, 150	425	165	22		171	36, 535	1, 802	5, 948	5, 723	236	8, 334
Mountain	16, 909	509	224	34	513	14	64, 887	3, 709	12, 013	11, 070	1, 117	8, 643
Montana	3, 603				71		11, 209	645	1, 959	1, 866	206	1, 579
Idaho	1, 778	304	109	24	12	(5)	6, 764	354	1, 397	1, 375	77	1, 250
Wyoming	2, 516				90		6, 789	640	1, 288	1, 261	147	525
Colorado	2, 011	205	115	10	18		10, 361	364	2, 568	2, 096	244	879
New Mexico	2, 524				144		8, 735	516	1, 636	1, 636	147	1, 059
Arizona	1, 459					7	7, 854	345	967	932	63	1, 541
Utah	1, 474				178	7	6, 327	444	1, 027	758	100	648
Nevada	1, 544						6, 848	401	1, 171	1, 146	133	1, 162
Pacific	5, 973				63	8	41, 967	929	10, 594	8, 449	271	7, 768
Washington	1, 450						9, 222	190	1, 421	1, 421	42	1, 123
Oregon	1, 814				63	(5)	9, 205	320	1, 681	1, 563	82	1, 286
California	2, 709					8	23, 540	419	7, 492	5, 465	147	5, 359
Hawaii	147	173	87	5	320	15	2, 821	16	1, 766	1, 438	28	961

[1] As provided by the National Industrial Recovery Act and by the Act of June 18, 1934.
[2] Projects approved for construction are: 16 miles; estimated cost, $462,000; Federal aid allotted, $93,000.
[3] Projects approved for construction are: 3,320 miles; public-works funds allotted, $58,065,000.
[4] Includes Hawaii.
[5] than $500.
[6] than five-tenths of 1 mile.

Source: Bureau of Public Roads, Department of Agriculture.

No. 399.—PRODUCTION AND REGISTRATION OF MOTOR VEHICLES

NOTE.—Figures for earlier years are largely estimates. Beginning with 1921, data include production of plants located in Canada, making motor vehicles of United States design, and cars assembled in foreign countries from American parts; figures represent factory sales for United States plants and production for Canadian plants. Motor cycles and trailers are not included

Year	Production						Registration (in thousands)		
	Number (in thousands)			Wholesale value (thousands of dollars)			Total	Passenger cars, busses, and taxis	Trucks and road tractors [2]
	Total	Passenger cars	Motor trucks [3]	Total	Passenger cars	Motor trucks [3]			
1900 [4]	4	4		4,899	4,899		8		
1904 [4]	23	22	(5)	24,629	23,682	947	55	55	(5)
1905	25	25	(5)	40,000	39,030	970	78	77	1
1906	34	33	1	62,900	61,850	1,050	107	106	1
1907	44	43	1	93,400	92,040	1,360	142	140	2
1908	65	63	2	137,800	135,250	2,550	198	194	3
1909 [4]	131	128	3	165,149	159,919	5,230	312	306	6
1910	187	181	6	225,000	215,340	9,660	468	458	10
1911	210	199	11	246,000	225,000	21,000	640	620	20
1912	378	356	22	378,000	335,000	43,000	944	903	41
1913	485	462	23	443,902	399,902	44,000	1,258	1,194	64
1914 [4]	569	544	25	458,958	413,859	45,098	1,711	1,626	86
1915	970	896	74	701,778	575,978	125,800	2,446	2,310	136
1916	1,618	1,526	92	1,082,378	921,378	161,000	3,513	3,298	215
1917	1,874	1,746	128	1,274,488	1,053,506	220,983	4,983	4,657	326
1918	1,171	943	227	1,236,107	801,938	434,169	6,147	5,622	525
1919	1,934	1,658	276	1,885,113	1,461,786	423,327	7,565	6,771	794
1920	2,227	1,906	322	2,232,420	1,809,171	423,249	9,232	8,226	1,006
1921	1,682	1,518	164	1,261,667	1,091,752	169,914	10,463	9,483	980
1922	2,646	2,369	277	1,793,023	1,561,741	231,282	12,238	10,960	1,279
1923	4,180	3,754	427	2,592,033	2,274,554	317,479	15,091	13,538	1,553
1924	3,738	3,304	434	2,367,413	2,040,707	326,706	17,594	15,461	2,133
1925	4,428	3,871	557	3,015,164	2,544,529	470,635	19,937	17,496	2,441
1926	4,506	3,949	557	3,214,817	2,746,065	468,753	22,001	19,237	2,764
1927	3,580	3,083	497	2,700,706	2,265,633	435,073	23,133	20,219	2,914
1928	4,601	4,012	589	3,162,799	2,703,754	459,045	24,493	21,379	3,114
1929	5,622	4,795	827	3,576,646	2,981,142	595,504	26,501	23,122	3,380
1930	3,510	2,910	600	2,126,602	1,720,652	405,950	26,545	23,059	3,486
1931	2,472	2,038	434	1,426,656	1,153,908	272,748	25,833	22,366	3,467
1932	1,431	1,186	245	793,045	650,781	142,264	24,115	20,886	3,229
1933	1,986	1,627	359	987,436	795,305	192,132	23,844	20,616	3,227
1934	2,870	2,271	599	1,537,290	1,204,376	332,914	24,933	21,524	3,409

[1] See headnote.
[2] Road tractors are not included prior to 1924.
[3] A substantial part of the trucks reported comprises chassis without body; hence the value of bodies for these chassis is not included.
[4] Production data are from United States Census Reports and in 1900 are for fiscal year ended June 30.
[5] Less than 500.

Sources: Automobile Manufacturers Association and Bureau of Public Roads.

No. 400.—FACTORY SALES OF PASSENGER CARS (UNITED STATES AND CANADA) BY WHOLESALE PRICE CLASSES, AND PERCENTAGE OF CLOSED CARS

NOTE.—For index numbers of retail sales of new passenger cars see table 806, p. 786

Year	Number sold								Percentage of closed cars
	Total	$500 and under	$501 to $750	$751 to $1,000	$1,001 to $1,500	$1,501 to $2,000	$2,001 to $3,000	Over $3,000	
1925	3,870,744	2,019,708	660,520	545,981	462,243	103,119	54,814	24,359	56.5
1926	3,948,843	1,633,775	1,149,301	500,508	476,675	94,915	73,738	19,931	72.0
1927	3,083,360	1,039,216	957,987	446,663	466,902	107,425	50,064	15,103	84.9
1928	4,012,158	1,698,603	1,219,266	462,452	456,117	108,448	55,304	11,968	88.5
1929	4,794,898	2,585,414	1,317,116	387,835	347,340	98,086	47,587	11,520	89.4
1930	2,910,187	1,754,747	680,352	204,450	179,180	55,351	27,266	8,841	90.4
1931	2,038,183	1,328,294	413,929	162,954	80,687	33,846	12,714	5,759	92.9
1932	1,186,185	794,164	260,831	74,610	36,670	8,699	8,679	2,532	96.0
1933	1,627,361	1,316,341	237,099	32,610	20,125	10,409	8,725	2,052	98.5
1934	2,270,566	1,470,032	689,314	66,223	27,576	8,391	6,879	2,151	98.8

Source: Automobile Manufacturers Association.

No. 401.—MOTOR-VEHICLE PRODUCTION IN THE UNITED STATES [1]

Month	1926	1927	1928	1929	1930	1931	1932	1933	1934
	Passenger cars								
Total	3,783,987	2,936,533	3,815,417	4,587,400	2,784,745	1,973,090	1,135,491	1,573,512	2,177,919
January	276,119	198,157	205,539	347,609	233,815	138,317	98,803	109,833	112,754
February	323,139	262,550	291,005	406,171	280,016	180,419	94,110	90,128	186,774
March	384,579	343,872	371,283	513,656	330,922	231,244	99,399	97,469	279,274
April	385,342	356,823	364,261	537,564	372,932	286,917	120,937	149,755	288,355
May	374,789	356,030	374,680	516,181	361,368	271,475	157,756	180,551	273,764
June	340,716	279,565	355,685	452,749	285,936	210,396	160,338	207,597	261,280
July	317,160	237,811	337,560	425,998	222,205	184,173	94,705	191,265	223,094
August	381,041	275,585	398,722	441,820	183,918	155,425	75,907	191,414	183,500
September	352,070	226,443	357,704	364,336	176,426	109,228	64,748	157,376	125,040
October	290,254	183,042	338,883	319,330	113,808	58,415	35,107	104,870	84,003
November	220,357	109,712	215,742	169,492	101,141	49,184	47,532	42,365	49,020
December	138,421	106,043	204,353	92,494	122,258	97,897	86,149	50,789	111,061
	Motor trucks and busses								
Total	516,947	464,793	543,342	771,020	571,241	416,648	235,187	346,545	575,192
January	32,879	40,751	26,189	53,428	39,406	33,531	20,541	18,992	42,912
February	40,513	42,185	32,791	60,247	50,398	39,521	23,308	15,319	43,482
March	48,888	50,641	42,031	71,799	65,466	45,161	19,560	17,803	59,160
April	53,994	49,559	45,843	84,346	71,092	50,022	27,389	26,677	64,620
May	50,378	48,718	51,103	88,510	58,659	45,688	26,539	33,760	56,691
June	45,553	44,252	41,111	93,183	48,570	40,244	22,768	42,130	45,197
July	42,459	31,585	54,526	44,842	43,328	34,317	14,438	38,092	41,839
August	45,810	34,409	62,576	56,808	40,450	31,772	14,418	41,441	51,311
September	46,868	33,867	57,610	51,576	44,223	31,338	19,402	34,424	44,967
October	44,167	36,640	58,401	60,687	40,593	21,727	13,595	29,813	47,988
November	35,944	24,658	41,398	48,081	35,613	19,683	12,025	18,318	34,462
December	29,503	27,528	29,763	27,513	33,443	23,644	21,204	29,776	42,563

[1] Figures represent production or factory sales. Passenger cars include taxicabs; trucks and busses include ambulances, funeral cars, fire apparatus, street sweepers, and road tractors.

No. 402.—STATE GASOLINE TAXES

NOTE.—In a majority of States all the proceeds of these taxes and in all but a few of the others the great bulk of the proceeds are applied to road purposes

State	Total earnings (tax and other receipts) in thousands of dollars			Tax in cents per gallon on Dec. 31—	
	1932	1933	1934	1933	1934
Total	514,139	519,403	566,842	[1] 4	[1] 4
Alabama	7,001	8,033	9,299	6	6
Arizona	2,901	2,679	3,029	5	5
Arkansas	5,165	5,998	7,864	6	6½
California	36,129	35,217	35,970	3	3
Colorado	5,469	5,325	6,475	4	4
Connecticut	4,733	4,857	4,973	2	2
Delaware	1,090	1,130	1,185	3	3
Dist. of Col	2,040	2,082	2,063	2	2
Florida	14,532	14,293	16,534	7	7
Georgia	11,939	12,635	14,366	6	6
Idaho	2,287	2,283	2,872	5	5
Illinois	28,754	27,833	29,131	3	3
Indiana	16,740	16,289	17,570	4	4
Iowa	8,970	9,372	11,255	3	3
Kansas	7,420	7,771	8,634	3	3
Kentucky	8,205	8,316	9,221	5	5
Louisiana	8,301	8,155	8,923	5	5
Maine	4,254	4,127	4,486	4	4
Maryland	7,500	7,208	7,809	4	4
Massachusetts	16,519	16,377	17,002	3	3
Michigan	20,461	19,485	20,984	3	3
Minnesota	10,001	10,214	10,943	3	3
Mississippi	5,844	6,101	7,025	6	6
Missouri	8,950	9,081	9,681	2	2
Montana	2,690	2,751	3,664	5	5
Nebraska	7,809	7,706	8,656	4	4
Nevada	727	696	894	4	4
New Hampshire	2,639	2,350	2,746	4	4
New Jersey	16,675	16,471	17,098	3	3
New Mexico	2,211	2,282	2,575	5	5
New York	42,581	43,393	43,985	3	3
North Carolina	13,907	14,773	17,191	6	6
North Dakota	1,837	1,925	2,262	3	3
Ohio	34,269	33,940	37,618	4	4
Oklahoma	9,682	10,079	10,821	4	4
Oregon	5,591	6,344	7,252	5	5
Pennsylvania	30,801	31,059	33,413	3	3
Rhode Island	1,858	1,885	2,060	2	2
South Carolina	6,225	6,679	7,719	6	6
South Dakota	2,963	3,346	3,765	4	4
Tennessee	12,185	12,980	14,114	7	7
Texas	27,064	28,479	31,751	4	4
Utah	2,173	2,190	2,515	4	4
Vermont	1,875	1,766	1,942	4	4
Virginia	10,810	11,082	12,477	5	5
Washington	11,047	10,863	11,959	5	5
West Virginia	4,949	4,928	5,704	4	4
Wisconsin	14,948	15,169	15,399	4	4
Wyoming	1,418	1,405	1,768	4	4

Weighted average rate for the year.

Sources: Table 401, Bureau of the Census, Department of Commerce; table 402, Bureau of Public Roads, Department of Agriculture.

No. 403.—MOTOR VEHICLE REGISTRATIONS: PASSENGER CARS AND MOTOR TRUCKS COMBINED, BY STATES

NOTE.—Net number of cars and trucks shown when possible, excluding reregistrations and nonresident registrations. Totals in this table do not include those official cars which are exempt (or partially exempt) from paying regular registration fees to the States. Road tractors are included beginning with 1925

Division and State	1913	1915	1920	1925	1930	1933	1934
Continental U. S.	1,258,062	2,445,666	9,231,941	19,937,274	26,545,281	23,843,591	24,933,403
New England	121,327	206,609	573,321	1,290,151	1,698,619	1,590,180	1,655,623
Maine	11,022	21,545	62,907	140,499	186,157	168,173	178,995
New Hampshire	8,237	13,449	34,680	81,498	112,183	107,631	113,134
Vermont	5,913	11,499	31,625	69,576	86,624	73,576	77,921
Massachusetts	62,660	102,633	274,498	646,153	846,206	789,788	785,392
Rhode Island	10,295	16,362	50,477	101,756	136,423	136,261	142,394
Connecticut	23,200	41,121	119,134	250,669	331,026	314,751	357,787
Middle Atlantic	266,033	497,227	1,474,106	3,536,570	4,914,101	4,721,510	4,815,198
New York	134,495	255,242	676,205	1,625,583	2,307,730	2,240,757	2,269,355
New Jersey	51,360	81,848	227,737	580,554	852,850	845,734	864,641
Pennsylvania	80,178	160,137	570,164	1,330,433	1,753,521	1,635,019	1,681,202
East North Central	314,524	653,665	2,229,396	4,918,383	6,384,157	5,535,441	5,731,089
Ohio	86,156	181,332	621,390	1,346,400	1,759,363	1,554,314	1,613,265
Indiana	45,000	96,915	333,067	725,410	875,763	770,071	803,271
Illinois	94,656	180,832	568,924	1,263,177	1,638,260	1,463,050	1,456,241
Michigan	54,366	114,845	412,717	989,010	1,328,209	1,077,209	1,148,953
Wisconsin	34,346	79,741	293,298	594,386	782,562	670,797	709,359
West North Central	232,044	499,992	1,782,946	2,941,814	3,681,901	3,241,673	3,365,399
Minnesota	46,000	93,269	324,166	569,694	732,972	679,243	697,672
Iowa	70,299	145,109	437,378	659,202	778,386	632,292	666,440
Missouri	38,140	76,462	297,008	604,166	761,600	698,362	739,813
North Dakota	15,187	24,908	90,840	144,972	183,019	153,889	156,203
South Dakota	14,457	28,724	120,395	168,028	205,172	169,249	169,975
Nebraska	13,411	59,000	219,000	338,719	426,229	390,651	406,632
Kansas	34,550	72,520	294,159	457,033	594,523	517,987	528,664
South Atlantic	77,823	150,594	806,053	1,920,982	2,517,673	2,243,486	2,472,724
Delaware	2,440	5,052	18,300	40,140	56,109	51,099	54,240
Maryland	14,217	31,047	102,841	234,247	321,702	313,274	332,892
District of Columbia	4,000	8,009	34,161	103,092	156,676	149,790	163,070
Virginia	9,022	21,357	115,470	282,650	375,889	347,883	[1] 373,908
West Virginia	5,144	13,279	80,664	217,589	266,273	226,985	[2] 194,231
North Carolina	10,000	21,000	140,860	[3] 340,287	453,241	382,308	439,351
South Carolina	10,000	15,000	93,843	168,496	218,402	[4] 162,735	[5] 202,834
Georgia	[6] 20,000	25,000	146,000	248,093	341,580	330,147	376,993
Florida	[6] 3,000	[6] 10,850	73,914	286,388	327,801	279,265	335,205
East South Central	26,360	48,421	357,658	878,115	1,213,501	977,776	1,089,156
Kentucky	7,210	19,500	112,683	261,647	331,002	294,547	332,177
Tennessee	[7] 10,000	[8] 7,618	101,852	244,626	368,259	312,180	336,313
Alabama	5,300	11,634	74,637	194,580	277,146	206,361	[9] 225,732
Mississippi	3,850	9,669	68,486	177,262	237,094	164,688	174,934
West South Central	48,583	84,433	772,655	1,790,017	2,411,714	2,074,404	2,231,542
Arkansas	3,583	8,021	59,082	183,589	220,204	188,242	198,991
Louisiana	[7] 10,000	11,380	73,000	207,000	275,283	232,688	244,007
Oklahoma	[6] 3,000	25,032	212,880	424,345	550,331	451,712	477,292
Texas	[7] 32,000	[7] 40,000	427,693	975,083	1,365,896	1,201,762	[10] 1,312,152
Mountain	33,215	78,520	374,473	675,706	962,572	820,376	890,062
Montana	5,916	14,540	60,650	94,656	135,168	110,245	128,336
Idaho	2,113	7,071	50,861	81,506	119,077	96,255	108,863
Wyoming	1,584	3,976	23,926	47,711	61,501	52,560	64,990
Colorado	13,000	28,894	129,255	240,097	308,509	266,491	274,231
New Mexico	1,898	5,100	22,100	49,111	84,150	76,643	82,900
Arizona	3,613	7,753	34,601	68,029	110,525	89,496	96,586
Utah	4,000	9,177	42,616	73,427	113,997	100,362	101,926
Nevada	1,091	2,009	10,464	21,169	29,645	28,324	32,230
Pacific	138,153	226,205	861,333	1,985,536	2,761,043	2,638,745	2,702,610
Washington	24,178	38,823	173,920	328,442	446,062	427,406	422,238
Oregon	13,975	23,585	103,790	216,553	[11] 273,625	[11] 239,410	274,117
California	[7] 100,000	163,797	583,623	1,440,541	2,041,356	1,971,929	2,006,255

[1] For registration year ended Mar. 31, 1935.
[2] For 6 months ended June 30.
[3] For 6 months ended Dec. 31.
[4] For 10 months ended Oct. 31.
[5] For registration year ended Oct. 31.
[6] Registrations incomplete.
[7] Estimated.
[8] Cars registered during 1915 only; total, approximately 26,000.
[9] For registration year ended Sept. 30.
[10] For 15 months ended Mar. 31, 1935.
[11] For registration year ended June 30.

Source: Bureau of Public Roads, Department of Agriculture.

No. 404.—REGISTRATIONS AND REVENUES FROM MOTOR VEHICLES, 1934

Division and State	Number of motor cars: Total	Number of motor cars: Individually and commercially owned, registered: Passenger cars, busses, and taxis	Number of motor cars: Individually and commercially owned, registered: Trucks and road tractors	Number of motor cars: Tax-exempt official motor cars	Trailers, registered	Motorcycles, registered and official combined	Receipts from motor-vehicle administration: Total receipts [1]	Receipts from motor-vehicle administration: Registration motor cars
							Thousands of dollars	
Continental U. S.	[2] 25,163,789	21,524,063	3,409,335	[2] 230,386	615,315	102,332	304,928	262,762
New England	1,664,899	1,414,218	241,405	9,276	14,165	7,591	24,696	18,320
Maine	181,272	141,302	[3] 37,693	2,277	[3] 7,578	1,126	3,165	2,474
New Hampshire	113,815	90,752	22,382	681	2,354	1,211	2,477	2,035
Vermont	78,059	[4] 69,309	[4] 8,612	138	964	614	2,157	1,849
Massachusetts	786,693	686,884	98,508	1,301	752	1,387	6,634	3,791
Rhode Island	143,684	124,062	18,332	1,290	147	873	2,315	1,879
Connecticut	361,376	301,909	55,878	3,589	2,370	2,380	7,948	6,292
Middle Atlantic	4,865,760	4,178,452	636,746	50,562	34,793	30,307	88,120	70,728
New York	2,294,363	1,970,976	298,379	25,008	17,417	12,245	41,664	36,391
New Jersey	874,189	741,290	123,351	9,548	3,734	6,045	15,614	11,179
Pennsylvania	1,697,208	1,466,186	215,016	16,006	13,642	12,017	30,842	22,658
East North Central	5,777,772	5,030,603	700,486	46,683	219,082	20,626	71,451	63,998
Ohio	1,629,504	[5] 1,453,420	[5] 159,845	16,239	73,287	7,117	19,961	18,322
Indiana	803,860	680,480	122,791	589	34,425	2,798	7,260	5,986
Illinois	1,465,740	[5] 1,281,976	[5] 174,265	9,499	10,720	4,886	18,278	16,359
Michigan	1,162,486	[5] 1,025,548	[5] 123,405	13,533	92,184	3,063	15,901	13,588
Wisconsin	716,182	589,179	120,180	6,823	8,466	2,762	10,051	9,743
West North Central	3,378,831	2,896,186	469,213	13,432	119,972	7,805	32,073	30,030
Minnesota	699,071	593,790	103,882	1,399	24,707	1,746	6,867	6,409
Iowa	671,310	591,090	75,350	4,870	44,477	2,031	10,034	9,677
Missouri	742,616	632,104	107,709	2,803	18,024	1,657	7,344	6,562
North Dakota	156,846	129,888	26,315	643	263	249	1,291	1,233
South Dakota	171,260	146,143	23,832	1,285	10,128	360	1,314	1,267
Nebraska	408,726	350,072	56,560	2,094	18,640	1,054	1,945	1,752
Kansas	529,002	453,099	75,565	338	3,733	708	3,278	3,130
South Atlantic	2,503,705	2,124,931	347,793	30,981	49,299	11,431	27,394	24,269
Delaware	54,414	[5] 44,846	[5] 9,394	174	1,356	456	883	715
Maryland	336,410	287,541	45,351	3,518	1,434	1,573	3,523	2,807
Dist. of Columbia	165,878	145,807	17,263	2,808	1,169	864	677	169
Virginia	379,810	316,640	[3] 57,268	5,902	[3] 2,509	3,581	4,947	4,289
West Virginia [6]	194,393	166,978	27,253	162	1,084	865	1,987	1,766
North Carolina	449,701	384,585	54,766	10,350	20,649	1,306	6,944	6,793
South Carolina	205,705	181,957	20,877	2,871	1,919	722	2,831	2,510
Georgia	377,691	316,731	60,262	698	9,293	1,023	1,193	1,129
Florida	339,703	279,846	55,359	4,498	9,886	1,041	4,409	4,091
East South Central	1,079,017	925,740	143,416	9,861	8,369	3,055	11,473	11,276
Kentucky	334,327	294,732	[3] 37,445	2,150	([3])	1,047	3,013	2,875
Tennessee	342,528	298,558	37,755	6,215	2,991	1,204	3,322	3,292
Alabama	226,966	191,631	34,101	1,234	4,671	644	3,188	3,183
Mississippi	175,196	140,819	34,115	262	707	160	1,950	1,926
West South Central	2,257,179	1,850,859	380,683	25,637	56,696	6,122	24,736	22,812
Arkansas	199,560	162,391	35,700	1,469	7,950	458	2,184	1,972
Louisiana	248,887	199,228	44,779	4,880	6,528	794	4,380	4,010
Oklahoma	482,403	403,364	73,928	5,111	5,420	1,023	3,251	2,724
Texas [7]	1,326,329	1,085,876	226,276	14,177	36,798	3,847	14,921	14,106
Mountain	900,323	743,757	146,305	10,261	24,083	2,927	8,056	7,052
Montana	130,307	[5] 97,249	[5] 31,087	1,971	506	315	1,071	1,006
Idaho	110,274	91,002	17,861	1,411	11,733	367	1,560	1,514
Wyoming	65,843	51,888	13,102	853	5,398	187	437	411
Colorado	274,752	[8] 246,373	27,858	[8] 521	946	832	2,172	1,632
New Mexico	84,325	66,788	16,112	1,425	918	281	843	806
Arizona	98,783	79,795	16,791	2,197	2,313	384	759	600
Utah	103,160	84,823	17,103	1,234	1,359	448	966	850
Nevada	32,879	25,839	6,391	649	910	113	248	233
Pacific	2,735,970	2,359,322	343,288	33,360	88,856	12,468	16,929	14,277
Washington	429,356	357,917	64,321	7,118	5,470	1,784	2,727	2,296
Oregon	278,194	232,706	[3] 41,411	4,077	[3] 1,276	1,471	[9] 4,062	[9] 3,550
California	2,028,420	[10] 1,768,699	[10] 237,556	22,165	82,110	9,213	10,140	8,431

[1] Includes registration fees, licenses, permits, fines, etc.; excludes gasoline taxes and special taxes on motor carriers.
[2] Includes 333 "cars at large" not allocated to any State.
[3] Some trailers included with trucks.
[4] Some trucks included with passenger cars.
[5] Busses included with trucks.
[6] Data cover 6 months ended June 30, 1934.
[7] Data cover 15 months ended Mar. 31, 1935.
[8] Some official cars included with private and commercial.
[9] Data cover 18 months ended Dec. 31, 1934.
[10] Common carriers, freight and passenger, included with passenger cars; contract carriers, with trucks.

Source: Bureau of Public Roads, Department of Agriculture.

No. 405.—AUTOMOBILE FATALITIES IN ENTIRE DEATH REGISTRATION AREA IN CONTINENTAL UNITED STATES

NOTE.—Figures include all deaths from accidents caused by motor vehicles except motor cycles, but exclude deaths from collisions of automobiles with railroad trains and street cars

Year	Entire registration area			Registration States				
	Population	Number of deaths	Rate per 100,000 population	Population	Number of deaths	Rate per 100,000 population	Number of cars registered	Deaths per 100,000 cars
1911	59,183,071	1,291	2.2	54,285,189	1,150	2.2		
1912	60,359,974	1,758	2.9	55,188,437	1,563	2.8		
1913	63,200,625	2,488	3.9	58,235,115	2,241	3.8	882,911	253.8
1914	65,813,315	2,826	4.3	60,943,663	2,571	4.2	1,234,844	208.2
1915	67,095,681	3,978	5.9	61,881,753	3,589	5.8	1,775,064	202.2
1916	71,349,162	5,193	7.3	66,371,691	4,737	7.1	2,511,805	188.6
1917	74,984,498	6,724	9.0	69,646,824	6,064	8.7	3,530,268	171.8
1918	81,333,675	7,525	9.3	79,536,574	7,310	9.2	4,715,317	155.0
1919	85,166,043	7,968	9.4	83,612,508	7,771	9.3	5,922,572	131.2
1920	87,632,592	9,103	10.4	86,179,774	8,878	10.3	7,440,420	119.3
1921	89,102,434	10,168	11.4	87,592,175	9,903	11.3	8,578,536	115.4
1922	93,866,240	11,666	12.4	92,540,579	11,466	12.4	10,374,993	110.5
1923	97,816,104	14,411	14.7	96,385,407	14,157	14.7	13,359,965	106.0
1924	100,082,062	15,528	15.5	98,471,683	15,221	15.5	15,714,878	96.9
1925	102,951,999	17,571	17.1	101,111,137	17,149	17.0	17,875,567	95.9
1926	104,938,301	18,871	18.0	102,991,160	18,419	17.9	19,838,947	92.8
1927	108,177,568	21,160	19.6	106,309,646	20,704	19.5	21,084,564	98.2
1928	114,258,516	23,765	20.8	113,050,663	23,427	20.7	23,126,127	101.3
1929	116,317,515	27,066	23.3	115,097,972	26,662	23.2	25,097,555	106.2
1930	118,560,800	29,080	24.5	117,338,000	28,684	24.4	25,350,499	113.1
1931	119,421,000	30,042	25.2	118,157,000	29,658	25.1	24,705,328	120.0
1932	120,122,200	26,350	21.9	118,858,000	26,033	21.9	23,085,036	112.8
1933 [1]	125,693,000	29,323	23.3	125,693,000	29,323	23.3	24,073,328	121.8

Year	Rural area of registration States			Cities in registration States			Cities in nonregistration States		
	Population	Number of deaths	Rate per 100,000 population	Population	Number of deaths	Rate per 100,000 population	Population	Number of deaths	Rate per 100,000 population
1911	26,901,350	306	1.1	27,383,839	844	3.1	4,897,882	141	2.9
1912	27,144,493	442	1.6	28,043,944	1,121	4.0	5,171,537	195	3.8
1913	29,108,597	687	2.4	29,126,518	1,554	5.3	4,965,510	247	5.0
1914	30,829,210	896	2.9	30,114,453	1,675	5.6	4,869,652	255	5.2
1915	31,078,193	1,226	3.9	30,803,560	2,363	7.7	5,213,928	389	7.5
1916	34,752,780	1,684	4.8	31,618,911	3,053	9.7	4,977,471	456	9.2
1917	36,928,787	2,174	5.9	32,718,037	3,890	11.9	5,337,674	660	12.4
1918	41,844,499	2,368	5.7	37,692,075	4,942	13.1	1,797,101	215	12.0
1919	44,664,983	2,508	5.6	38,947,525	5,263	13.5	1,553,535	197	12.7
1920	44,475,250	2,757	6.2	41,704,524	6,121	14.7	1,452,318	225	15.5
1921	45,070,088	3,368	7.5	42,522,087	6,535	15.4	1,510,259	265	17.5
1922	48,575,329	4,020	8.3	43,965,250	7,446	16.9	1,325,661	200	15.1
1923	50,867,586	5,209	10.2	45,517,821	8,948	19.7	1,430,697	254	17.8
1924	52,047,381	5,668	10.9	46,424,302	9,553	20.6	1,610,379	307	19.1
1925	53,580,742	6,509	12.1	47,530,395	10,640	22.4	1,840,862	422	22.9
1926	54,389,753	7,348	13.5	48,601,407	11,071	22.8	1,947,141	452	23.2
1927	56,613,922	8,452	14.9	49,695,724	12,252	24.7	1,867,922	456	24.4
1928	61,350,563	9,997	16.3	51,700,100	13,430	26.0	1,207,853	338	28.0
1929	62,421,794	11,797	18.9	52,676,178	14,865	28.2	1,219,543	404	33.1
1930	60,565,200	12,193	20.1	56,772,800	16,491	29.0	1,222,800	396	32.4
1931	60,302,100	12,702	21.1	57,854,900	16,956	29.3	1,264,200	384	30.4
1932	61,033,400	11,304	18.5	57,824,600	14,729	25.5	1,264,200	317	25.1
1933 [1]	65,411,700	13,267	20.3	60,281,300	16,056	26.6	(1)	(1)	(1)

[1] All States included in the registration area.

Sources: Bureau of the Census, Department of Commerce, and Bureau of Public Roads, Department of Agriculture.

No. 406.—AUTOMOBILE FATALITIES IN STATES AND LARGE CITIES HAVING DEATH REGISTRATION

NOTE.—Figures include all deaths from accidents caused by motor vehicles except motor cycles, but exclude deaths from collisions of automobiles with railroad trains and street cars. See table 68 for percent of total population included in the registration area for each year prior to 1933; in 1933 the entire population is included

State	Number of deaths						Rate per 100,000 estimated population					
	1921–1925, avg.	1926–1930, avg.	1930	1931	1932	1933	1921–1925, avg.	1926–1930, avg.	1930	1931	1932	1933
Registration area in continental United States	13,869	23,988	29,080	30,042	26,350	29,323	14.3	21.3	24.5	25.2	21.9	23.3
Registration States [1]	13,579	23,579	28,684	29,658	26,033	29,323	14.3	21.3	24.4	25.1	21.9	23.3
Cities [1]	8,624	13,622	16,491	16,956	14,729	16,056	19.1	26.3	29.0	29.3	25.5	26.6
Rural	4,955	9,957	12,193	12,702	11,304	13,267	9.9	16.9	20.1	21.1	18.5	20.3
Cities in nonregistration States	290	409	396	384	317	-------	18.8	27.4	32.4	30.4	25.1	------
All registration cities [1]	8,914	14,031	16,887	17,340	15,046	16,056	19.1	26.3	29.1	29.3	25.5	26.6
REGISTRATION STATES												
Alabama	[2] 252	392	459	472	405	485	[2] 10.0	15.1	17.3	17.7	15.1	18.0
Arizona	(3)	143	181	149	162	147	(3)	34.2	41.3	33.6	36.2	32.5
Arkansas	(3)	[4] 242	306	313	260	280	(3)	[4] 13.1	16.5	16.8	13.9	15.0
California	1,131	1,828	2,193	2,367	2,198	2,233	27.0	34.5	38.3	40.5	37.0	36.8
Colorado	148	232	271	319	284	298	15.2	22.8	26.1	30.6	27.1	28.3
Connecticut	260	376	407	457	409	452	17.8	24.0	25.2	28.1	25.0	27.5
Delaware	36	64	74	76	79	84	15.8	27.1	31.0	31.7	32.9	34.9
Florida	217	479	563	518	485	494	19.0	34.6	38.0	34.4	31.7	31.8
Georgia	[5] 260	[6] 519	562	608	541	651	[5] 9.0	[6] 17.8	19.3	20.9	18.6	22.4
Idaho	[7] 46	87	109	88	86	117	[7] 10.5	19.7	24.5	19.7	19.2	26.2
Illinois	1,051	1,645	1,945	2,049	1,831	1,943	15.3	22.1	25.4	26.5	23.6	24.8
Indiana	399	772	965	1,023	845	979	13.1	24.2	29.7	31.4	25.8	29.7
Iowa	[8] 241	376	601	564	422	514	[8] 9.9	15.3	24.3	22.8	17.0	20.7
Kansas	193	322	439	402	386	482	10.7	17.3	23.3	21.3	20.4	25.4
Kentucky	167	357	477	514	441	504	6.7	13.8	18.2	19.5	16.7	19.0
Louisiana	162	332	371	412	341	395	8.5	16.2	17.6	19.4	15.9	18.3
Maine	83	127	159	159	149	190	10.7	16.0	19.9	19.9	18.6	23.7
Maryland	232	363	449	466	410	429	15.3	22.7	27.4	28.3	24.8	25.8
Massachusetts	609	732	779	813	777	801	15.3	17.5	18.3	19.0	18.1	18.6
Michigan	714	1,284	1,384	1,407	1,143	1,196	17.5	27.7	28.4	28.5	22.9	23.7
Minnesota	306	439	561	622	486	525	12.5	17.3	21.8	24.1	18.8	20.2
Mississippi	96	265	332	284	234	283	5.1	13.4	16.5	14.0	11.5	13.8
Missouri	391	605	739	844	690	770	11.2	16.8	20.3	23.1	18.9	21.0
Montana	60	100	100	118	96	115	11.0	18.5	18.6	21.9	17.9	21.4
Nebraska	119	224	286	291	212	283	9.0	16.4	20.7	21.0	15.3	20.3
Nevada	(3)	[9] 40	34	63	59	63	(3)	[9] 44.2	37.4	68.5	63.4	67.7
New Hampshire	59	83	103	100	70	135	13.1	18.0	22.1	21.4	15.0	28.8
New Jersey	643	1,040	1,211	1,229	1,105	1,147	18.6	26.7	29.8	29.9	26.6	27.4
New Mexico	(3)	[9] 104	111	95	97	102	(3)	[9] 24.7	26.1	22.2	22.5	23.5
New York	1,889	2,628	3,048	3,077	2,813	2,784	17.0	21.5	24.1	24.1	21.9	21.5
North Carolina	254	555	629	650	558	725	9.2	18.1	19.7	20.2	17.2	22.1
North Dakota	[10] 52	78	79	110	57	101	[10] 7.8	11.6	11.6	16.1	8.3	14.7
Ohio	988	1,706	2,019	1,970	1,822	1,829	16.3	26.3	30.3	29.3	27.0	26.9
Oklahoma	(3)	[6] 433	483	404	437	485	(3)	[6] 18.3	20.1	16.7	17.9	19.7
Oregon	125	221	253	292	223	249	14.9	23.9	26.4	30.2	22.9	25.3
Pennsylvania	1,405	2,011	2,422	2,412	2,043	2,190	15.6	21.2	25.1	24.9	21.0	22.4
Rhode Island	104	136	123	116	101	97	16.4	20.2	17.8	16.7	14.5	13.8
South Carolina	123	288	370	380	329	342	7.2	16.7	21.3	21.8	18.9	19.6
South Dakota	(3)	[11] 112	112	116	101	115	(3)	[11] 16.1	16.1	16.6	14.4	16.4
Tennessee	195	409	526	547	474	540	8.0	15.9	20.1	20.7	17.9	20.3
Texas	(3)	(3)	(3)	(3)	(3)	1,292	(3)	(3)	(3)	(3)	(3)	21.5
Utah	68	109	130	157	115	135	14.5	21.9	25.5	30.7	22.3	26.1
Vermont	42	62	71	71	63	70	11.8	17.3	19.7	19.7	17.5	19.4
Virginia	198	413	518	656	561	592	8.4	13.0	21.4	27.0	23.0	24.3
Washington	236	397	413	461	413	442	16.5	26.0	26.3	29.2	26.0	27.6
West Virginia	[2] 208	305	395	427	332	382	[2] 13.0	18.1	22.8	24.4	18.9	21.5
Wisconsin	306	568	712	731	624	627	11.2	19.7	24.2	24.7	21.0	21.0
Wyoming	[7] 51	65	72	98	78	87	[7] 24.7	29.5	31.9	43.0	34.1	37.7
REGISTRATION CITIES [12]												
Akron	39	82	100	77	80	85	18.0	34.3	39.1	29.3	30.3	32.1
Albany	28	40	48	45	35	37	23.7	32.0	37.6	34.9	27.1	28.5
Atlanta	53	76	87	95	99	105	23.5	29.2	32.0	34.2	35.7	37.4
Baltimore	130	188	206	226	201	185	17.1	23.7	25.5	27.8	24.7	22.6
Birmingham	46	63	70	82	75	80	22.3	25.6	26.8	30.4	27.9	29.3

For footnotes see following page.

No. 406.—Automobile Fatalities in States and Large Cities Having Death Registration—Continued

City	Number of deaths						Rate per 100,000 estimated population					
	1921–1925, avg.	1926–1930, avg.	1930	1931	1932	1933	1921–1925, avg.	1926–1930, avg.	1930	1931	1932	1933
Boston	132	138	120	148	151	143	17.4	17.8	15.3	18.8	19.2	18.2
Bridgeport	25	36	40	59	27	51	17.3	24.6	27.2	40.1	18.4	34.6
Buffalo	111	156	175	153	132	144	21.0	27.8	30.5	26.3	22.7	24.6
Chicago	597	795	841	953	846	882	20.4	24.4	24.8	27.6	24.5	25.3
Cincinnati	91	135	167	149	124	143	21.8	30.5	36.9	32.6	27.1	31.1
Cleveland	189	281	303	286	262	248	22.7	31.8	33.6	31.4	28.7	27.0
Columbus	54	99	135	121	99	109	21.1	35.0	46.3	40.9	33.5	36.4
Dallas	37	64	78	81	71	83	19.2	26.2	29.7	29.7	26.0	29.9
Dayton	28	61	71	75	58	70	16.6	31.7	35.2	36.7	28.3	33.9
Denver	44	63	80	86	86	97	16.5	22.3	27.7	29.5	29.5	33.1
Des Moines	[8] 19	33	46	43	45	43	[8] 14.2	23.6	32.2	29.8	31.1	29.6
Detroit	242	388	384	372	321	307	21.0	26.8	24.2	22.5	19.6	18.4
Flint	19	44	50	53	38	56	16.2	30.1	31.6	32.3	23.2	33.5
Fort Worth	[7] 21	43	56	55	56	45	[7] 15.3	27.3	34.1	32.9	33.4	26.6
Grand Rapids	28	38	47	36	29	23	19.1	23.2	27.8	21.0	16.9	13.3
Hartford	38	46	37	55	50	55	25.9	28.8	22.5	32.9	29.9	32.6
Houston	28	77	101	101	64	103	15.5	29.6	34.2	32.6	20.6	32.4
Indianapolis	58	110	134	156	99	124	17.5	31.0	36.7	42.2	26.8	33.3
Jacksonville	25	45	45	56	58	65	24.7	35.6	34.6	42.5	42.1	46.8
Jersey City	46	56	55	43	58	64	15.1	17.9	17.3	13.5	18.2	20.0
Kansas City, Kans	17	19	36	24	36	30	15.2	15.8	29.5	19.5	29.3	24.3
Kansas City, Mo	78	92	118	137	89	121	22.3	23.8	29.4	33.5	21.8	29.3
Long Beach	22	39	48	60	55	55	25.8	30.2	33.4	39.4	36.0	35.0
Los Angeles	220	365	417	488	486	466	27.6	32.2	33.3	37.0	36.8	34.4
Louisville	53	80	87	109	85	88	18.9	26.1	28.3	35.4	27.0	27.7
Memphis	41	75	87	100	101	116	23.4	36.2	34.3	38.6	39.0	44.4
Milwaukee	73	114	110	108	97	89	14.8	20.5	19.0	18.2	16.3	14.9
Minneapolis	68	88	110	114	91	98	16.7	19.6	23.6	24.1	19.2	20.5
Nashville	29	51	64	71	72	55	23.1	34.9	41.5	45.7	46.3	35.2
New Haven	34	49	45	51	53	45	20.9	30.1	27.7	31.3	32.6	27.7
New Orleans	64	108	120	126	91	120	15.5	24.2	26.1	27.0	19.5	25.5
New York	961	1,191	1,310	1,299	1,163	1,146	15.8	17.8	18.8	18.3	16.4	16.0
Newark, N. J	94	123	139	106	98	100	27.2	28.1	31.4	23.8	22.0	22.4
Norfolk	17	27	24	44	36	41	13.3	20.4	18.5	33.9	27.8	31.6
Oakland	44	74	111	101	64	68	18.4	27.2	38.9	34.6	21.9	23.0
Oklahoma City	15	44	76	55	66	62	12.2	26.1	40.5	27.9	33.3	30.8
Omaha	30	49	58	66	44	58	15.1	23.3	27.0	30.5	20.3	26.6
Paterson	39	50	50	52	56	57	28.5	36.2	36.1	37.5	40.3	41.0
Philadelphia	262	346	377	354	321	367	14.0	17.9	19.3	18.0	16.6	18.6
Pittsburgh	146	193	228	218	159	137	23.7	29.4	34.0	32.2	23.5	20.2
Portland, Oreg	40	61	71	95	74	83	14.7	20.8	23.4	30.9	24.1	26.9
Providence	56	69	72	52	51	48	23.1	27.6	28.4	20.4	20.0	18.8
Richmond	28	49	59	90	67	71	16.0	27.1	32.2	48.8	36.4	38.4
Rochester	48	67	80	76	62	45	15.6	20.8	24.3	22.9	18.7	13.5
St. Louis	164	177	175	180	156	149	20.8	21.8	21.3	21.7	18.8	17.9
St. Paul	45	61	76	87	84	70	18.2	23.0	27.9	31.5	30.4	25.2
Salt Lake City	28	42	44	50	58	46	22.3	30.8	31.3	35.0	40.5	31.9
San Antonio	30	58	66	63	50	68	16.2	26.4	28.3	26.2	20.8	27.9
San Diego	30	57	77	66	68	70	30.3	41.6	51.5	42.2	43.5	43.7
San Francisco	107	137	133	126	132	145	19.4	22.4	20.9	19.4	20.3	22.1
Scranton	30	38	44	36	32	42	21.5	26.7	30.6	25.0	22.2	29.1
Seattle	52	85	83	116	80	105	15.6	23.8	22.6	31.2	21.5	28.1
Springfield, Mass	22	35	46	33	28	30	16.1	23.9	30.6	21.7	18.4	19.6
Syracuse	37	53	61	70	39	49	20.3	26.1	29.0	32.8	18.3	22.8
Toledo	52	96	107	120	109	89	20.1	33.9	36.7	40.4	36.7	29.8
Trenton	32	48	57	56	41	56	26.5	39.1	46.2	45.2	33.1	45.1
Tulsa	([3])	[6] 39	50	33	34	33	([3])	[6] 29.4	35.2	22.6	23.3	22.3
Washington, D. C	80	117	138	161	186	142	17.6	24.5	28.3	32.8	37.7	28.7
Worcester	33	40	53	37	31	51	17.8	20.8	27.1	18.8	15.7	25.8
Yonkers	16	22	19	24	17	27	14.3	17.1	14.0	17.3	12.2	19.2
Youngstown	36	63	64	69	41	52	25.7	40.8	37.5	39.9	23.7	29.9

[1] Including the District of Columbia. All States were in the registration area in 1933.
[2] 1925 only.
[3] Not in registration area.
[4] Average, 1927–30.
[5] Average, 1922–24.
[6] Average, 1928–30.
[7] Average, 1922–25.
[8] Average, 1923–25.
[9] Average, 1929 and 1930.
[10] Average, 1924 and 1925.
[11] 1930 only.
[12] Only cities of over 120,000 inhabitants, according to 1930 census, are shown.

Source: Bureau of the Census, Department of Commerce.

20.—TRANSPORTATION, AIR AND LAND—STEAM AND ELECTRIC RAILWAYS, EXPRESS COMPANIES, AND CIVIL AERONAUTICS

[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 their annual operating revenues, 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.

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. 407.—RAILWAY MILEAGE OWNED AND MILEAGE OPERATED CLASSIFIED BY TRACKAGE

NOTE.—Beginning with 1908 switching and terminal roads are omitted (they operate about 2,300 miles of main tracks). The first and second columns cover all railways, including "circular" and "unofficial" lines; the last five columns omit "circular" and "unofficial" lines. Mileage owned excludes all duplication and covers continental United States only. Mileage operated includes some duplication under trackage rights and some mileage in Canada operated by United States companies

Year	Miles of road (first track) owned	Miles operated					
		All railways: Road (first track)	Reporting railways				Class I railways: Road (first track)
			Road (first track)	Other main tracks	Yard track and sidings	Total track	
June 30, 1890	163, 597	167, 191	156, 404	9, 760	33, 711	199, 875	----------
1895	180, 657	184, 628	177, 746	12, 348	43, 181	233, 275	----------
1900	193, 346	198, 964	192, 556	14, 075	52, 153	258, 784	----------
1905	218, 101	225, 196	216, 974	19, 881	69, 942	306, 797	----------
1910	240, 293	249, 992	240, 831	25, 354	85, 582	351, 767	----------
1911	243, 979	254, 732	246, 238	27, 612	88, 974	362, 824	216, 877
1912	246, 777	258, 033	249, 852	29, 367	92, 019	371, 238	220, 063
1913	249, 777	261, 036	253, 470	30, 827	95, 211	379, 508	224, 236
1914	252, 105	263, 547	256, 547	32, 376	98, 285	387, 208	226, 999
1915	253, 789	264, 378	257, 569	33, 662	99, 910	391, 141	228, 989
Dec. 31, 1916	254, 037	266, 381	259, 705	34, 325	102, 984	397, 014	231, 674
1917	253, 626	266, 015	259, 705	35, 066	105, 582	400, 353	232, 697
1918	253, 529	264, 233	258, 507	36, 228	107, 608	402, 343	233, 145
1919	253, 152	263, 707	258, 525	36, 730	108, 637	403, 892	234, 363
1920	252, 845	263, 821	259, 941	36, 894	109, 744	406, 579	235, 234
1921	251, 176	262, 544	258, 362	37, 614	111, 555	407, 531	234, 702
1922	250, 413	261, 984	257, 425	37, 888	114, 046	409, 359	234, 976
1923	250, 222	262, 482	258, 084	38, 697	116, 212	412, 993	235, 574
1924	250, 156	262, 158	258, 238	39, 916	116, 874	415, 028	235, 894
1925	249, 398	261, 871	258, 631	40, 962	118, 361	417, 954	236, 849
1926	249, 138	261, 562	258, 815	41, 686	120, 840	421, 341	237, 054
1927	249, 131	262, 091	259, 639	42, 071	123, 027	424, 737	238, 634
1928	249, 309	262, 713	260, 546	42, 432	124, 772	427, 750	240, 747
1929	249, 433	262, 546	260, 570	42, 711	125, 774	429, 055	242, 015
1930	249, 052	262, 215	260, 440	42, 742	126, 701	429, 883	242, 391
1931	248, 829	261, 816	259, 999	42, 780	127, 044	429, 823	242, 292
1932	247, 595	260, 438	258, 869	42, 556	126, 977	428, 402	241, 424
1933	245, 703	258, 465	256, 741	42, 397	126, 526	425, 664	239, 797
1934	243, 857	256, 418	254, 882	42, 109	125, 410	422, 401	238, 555

Source: Interstate Commerce Commission.

No. 408.—RAILWAY MILEAGE OWNED: By States

Note.—See headnote to table 407. 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	1930	1932	1933
United States [3]	30,626	52,922	93,267	163,597	193,346	240,439	252,845	249,052	247,595	245,703
New England	3,660	4,494	5,982	6,718	7,521	7,921	7,942	7,596	7,563	7,506
Maine	472	786	1,005	1,338	1,915	2,248	2,295	2,193	2,181	2,161
New Hampshire	661	736	1,015	1,145	1,239	1,246	1,252	1,165	1,134	1,132
Vermont	554	614	914	921	1,012	1,100	1,077	1,056	1,051	1,035
Massachusetts	1,264	1,480	1,915	2,094	2,119	2,115	2,106	2,022	2,016	1,999
Rhode Island	108	136	210	213	212	212	211	191	205	204
Connecticut	601	742	923	1,007	1,024	1,000	1,001	969	976	975
Middle Atlantic	5,840	9,709	13,832	18,161	20,709	21,980	22,293	21,752	21,651	21,518
New York	2,682	3,928	5,957	7,661	8,121	8,430	8,390	8,312	8,261	8,252
New Jersey	560	1,125	1,684	2,047	2,257	2,260	2,352	2,299	2,284	2,198
Pennsylvania	2,598	4,656	6,191	8,453	10,331	11,290	11,551	11,141	11,106	11,068
South Atlantic	5,976	7,349	9,789	18,270	23,362	29,795	32,380	31,644	31,327	30,923
Delaware	127	197	275	323	347	335	335	325	325	325
District of Columbia	(4)	(4)	(4)	30	32	36	36	36	37	38
Maryland	336	671	1,040	1,231	1,376	1,426	1,436	1,443	1,438	1,439
Virginia	1,379	1,486	1,893	3,160	3,779	4,535	4,703	4,516	4,473	4,418
West Virginia	352	387	691	1,328	2,228	3,601	3,996	4,046	4,109	3,981
North Carolina	937	1,178	1,486	3,001	3,831	4,932	5,522	5,161	4,998	4,964
South Carolina	973	1,139	1,427	2,194	2,818	3,442	3,814	3,780	3,751	3,726
Georgia	1,420	1,845	2,459	4,532	5,652	7,056	7,326	6,671	6,638	6,552
Florida	402	446	518	2,471	3,299	4,432	5,212	5,666	5,558	5,480
East North Central	9,583	14,701	25,109	36,924	41,007	44,928	44,904	43,770	43,075	42,787
Ohio	2,946	3,538	5,792	7,912	8,807	9,134	9,002	8,804	8,604	8,587
Indiana	2,163	3,177	4,373	5,971	6,471	7,420	7,426	7,106	7,089	7,062
Illinois	2,790	4,823	7,851	10,214	11,003	11,878	12,188	12,500	12,411	12,349
Michigan	779	1,638	3,938	7,243	8,195	9,021	8,734	8,072	7,832	7,726
Wisconsin	905	1,525	3,155	5,584	6,531	7,475	7,554	7,288	7,139	7,063
West North Central	1,472	8,046	19,094	38,354	42,988	49,730	52,180	51,400	51,185	50,905
Minnesota	--------	1,092	3,151	5,466	6,943	8,669	9,114	8,779	8,709	8,699
Iowa	655	2,683	5,400	8,356	9,185	9,755	9,808	9,698	9,625	9,579
Missouri	817	2,000	3,965	6,004	6,875	8,083	8,117	7,897	7,914	7,867
North Dakota	--------	[5] 65	[5] 1,225	1,941	2,731	4,201	5,311	5,275	5,275	5,276
South Dakota	--------	(6)	(6)	2,486	2,850	3,948	4,276	4,238	4,220	4,218
Nebraska	--------	705	1,953	5,295	5,685	6,067	6,166	6,174	6,159	6,105
Kansas	--------	1,501	3,400	8,806	8,719	9,007	9,388	9,339	9,283	9,161
East South Central	3,392	4,656	6,343	11,144	13,343	17,074	17,754	17,452	17,170	16,984
Kentucky	534	1,017	1,530	2,746	3,060	3,526	3,929	4,054	3,901	3,821
Tennessee	1,253	1,492	1,843	2,752	3,137	3,816	4,078	3,940	3,921	3,903
Alabama	743	1,157	1,843	3,314	4,226	5,226	5,378	5,249	5,226	5,184
Mississippi	862	990	1,127	2,332	2,920	4,506	4,369	4,209	4,122	4,076
West South Central	680	1,417	5,044	13,782	18,221	31,122	32,972	33,227	33,328	32,982
Louisiana	335	450	652	1,759	2,824	5,554	5,223	4,654	4,607	4,598
Texas	307	711	3,244	8,613	9,886	14,282	16,125	17,069	17,198	16,887
Oklahoma	--------	--------	289	1,214	2,151	5,980	6,572	6,678	6,741	6,733
Arkansas	38	256	859	2,196	3,360	5,306	5,052	4,826	4,782	4,764
Mountain	--------	1,466	5,082	12,676	15,808	22,956	25,170	24,973	24,912	24,751
Montana	--------	--------	106	2,181	3,010	4,207	5,072	5,228	5,208	5,209
Wyoming	--------	459	512	942	1,229	1,645	1,931	2,036	2,036	2,036
Colorado	--------	157	1,570	4,176	4,587	5,533	5,519	4,972	4,956	4,952
New Mexico	--------	--------	758	1,324	1,753	3,032	2,972	2,973	2,992	2,956
Arizona	--------	--------	349	1,097	1,512	2,097	2,478	2,494	2,454	2,335
Utah	--------	257	842	1,090	1,547	1,986	2,161	2,196	2,178	2,174
Nevada	--------	593	739	925	909	2,277	2,160	2,109	2,155	2,157
Idaho	--------	--------	206	941	1,261	2,179	2,877	2,965	2,933	2,932
Pacific	23	1,084	2,992	7,567	10,389	14,932	17,248	17,238	17,384	17,347
Washington	--------	--------	289	1,783	2,914	4,875	5,587	5,542	5,448	5,443
Oregon	--------	159	508	1,428	1,724	2,285	3,305	3,456	3,484	3,632
California	23	925	2,195	4,356	5,751	7,772	8,356	8,240	8,452	8,272
Alaska Territory	--------	--------	--------	--------	22	390	246	790	750	732
Hawaii Territory	--------	--------	--------	--------	--------	175	243	232	228	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. 409.—RAILWAY MILEAGE OWNED AND OPERATED

NOTE.—See note to table 407. 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	1893	176,461	169,780	1914	252,105	256,547
1850		9,021	1894	178,709	175,691	1915	253,789	257,569
1855		18,374	1895	180,657	177,746	1916	254,037	259,705
1860		30,626	1896	182,777	181,983	1917	253,626	259,705
1865		35,085	1897	184,428	183,284	1918	253,529	258,507
1870		52,922	1898	186,396	184,648	1919	253,152	258,525
1875		74,096	1899	189,295	187,535	1920	252,845	259,941
1879		86,556	1900	193,346	192,556	1921	251,176	258,362
1880		93,262	1901	197,237	195,562	1922	250,413	257,425
1881		103,108	1902	202,472	200,155	1923	250,222	258,084
1882		114,677	1903	207,977	205,314	1924	250,156	258,238
1883		121,422	1904	213,904	212,243	1925	249,398	258,631
1884		125,345	1905	218,101	216,974	1926	249,138	258,815
1885		128,320	1906	224,363	222,340	1927	249,131	259,639
1886		136,338	1907	229,951	227,455	1928	249,309	260,546
1887		149,214	1908	233,468	230,494	1929	249,433	260,570
1888		156,114	1909	236,834	235,402	1930	249,052	260,440
1889		161,276	1910	240,293	240,831	1931	248,829	259,999
1890	163,597	156,404	1911	243,979	246,238	1932	247,595	258,869
1891	168,403	161,275	1912	246,777	249,852	1933	245,703	256,741
1892	171,564	162,397	1913	249,777	253,470	1934	243,857	254,882

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

No. 410.—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 414

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
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	42,255	120,479	403,481	59,441	2,579,643	43,838	105,322
1929	242,015	42,556	121,882	406,453	57,537	2,550,813	44,801	105,411
1930	242,391	42,584	123,024	407,999	56,493	2,526,940	45,225	106,180
1931	242,292	42,627	123,318	408,237	55,055	2,488,861	45,764	103,422
1932	241,424	42,404	123,241	407,069	53,217	2,430,328	46,299	100,901
1933	239,797	[1] 42,248	122,863	404,908	50,802	2,348,821	46,916	96,734
Eastern district:								
1916	59,175	20,879	40,056	120,110	28,179	958,339	34,333	47,185
1920	59,513	21,734	42,387	123,634	29,478	1,102,551	37,762	49,543
1925	59,249	22,882	45,054	127,185	28,409	1,193,573	42,408	51,449
1930	60,014	23,131	46,552	129,697	24,247	1,108,965	46,531	50,618
1931	59,920	23,057	46,524	129,501	23,800	1,095,382	46,942	49,945
1932	59,711	22,892	46,554	129,157	22,713	1,057,012	47,628	49,163
1933	59,307	22,648	46,177	128,132	21,438	1,012,309	48,427	47,416
Southern district:								
1916	42,753	3,940	15,695	62,388	9,754	323,023	33,165	15,633
1920	43,799	4,436	17,080	65,315	10,740	392,332	36,625	16,980
1925	44,241	5,707	19,199	69,147	11,158	457,579	41,112	18,968
1930	46,087	6,377	21,882	74,346	10,717	483,145	45,404	19,871
1931	46,105	6,363	21,877	74,345	10,529	478,876	45,812	19,484
1932	45,886	6,348	21,853	74,087	10,449	476,606	45,947	19,183
1933	45,560	6,389	22,052	74,001	9,981	462,827	46,727	17,909
Western district:								
1916	129,746	9,310	42,583	181,639	23,399	742,757	31,827	29,463
1920	131,922	10,567	45,941	188,430	24,528	845,878	34,584	31,820
1925	133,359	12,228	49,620	195,207	24,407	935,716	38,448	35,153
1930	136,290	13,076	54,590	203,956	21,529	934,830	43,682	35,691
1931	136,267	13,207	54,917	204,391	20,726	914,603	44,405	33,993
1932	135,827	13,164	54,834	203,825	20,055	896,710	45,002	32,555
1933	134,930	13,211	54,634	202,775	19,383	873,685	45,374	31,409

[1] Includes second track, 36,583 miles; third track, 3,121 miles; fourth and other, 2,544 miles.

Source: Interstate Commerce Commission.

No. 411.—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; 1930, 2,898 miles; 1932, 2,878 miles; 1933, 2,770 miles, consisting of 1,616 miles of road, 501 miles of second main track, 72 miles of industrial tracks, and 581 miles of yard track and sidings. Figures also include some industrial tracks as follows: 1925, 20,407 miles; 1930, 21,694 miles; 1932, 21,585 miles; 1933, 21,601 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
1930	407,999	242,391	36,755	3,239	2,590	123,024	5,098	2,381	1,432	1,285
1932	407,069	241,424	36,678	3,162	2,564	123,241	5,389	2,410	1,596	1,383
1933	404,908	239,797	36,583	3,121	2,544	122,863	5,462	2,399	1,668	1,395
Eastern district:										
1916	120,110	59,175	16,666	2,408	1,805	40,056	(1)	(1)	(1)	(1)
1932	129,157	59,711	18,186	2,689	2,017	46,554	3,460	1,274	1,314	872
1933	128,132	59,307	17,996	2,656	1,996	46,177	3,563	1,283	1,403	877
Southern district:										
1916	62,389	42,753	3,725	43	173	15,695	(1)	(1)	(1)	(1)
1932	74,087	45,886	5,903	135	310	21,853	661	266	196	199
1933	74,001	45,560	5,928	140	321	22,052	661	265	191	205
Western district:										
1916	181,638	129,746	8,332	265	212	42,583	(1)	(1)	(1)	(1)
1932	203,825	135,827	12,589	338	237	54,834	1,268	870	86	312
1933	202,775	134,930	12,659	325	227	54,634	1,238	851	74	313

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

No. 412.—RAILWAY EQUIPMENT INSTALLED AND RETIRED FROM SERVICE: CLASS I CARRIERS

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

Year ended—	Locomotives		Freight-train cars		Passenger-train cars	
	Number installed	Number retired	Number installed	Number retired	Number installed	Number retired
June 30, 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] 1,882	[1] 3,105	93,369	103,152	3,455	3,309
1927	[1] 1,542	[1] 2,976	73,254	96,991	2,646	3,612
1928	[1] 1,017	[1] 3,047	62,945	90,707	2,524	3,252
1929	[1] 1,229	[1] 3,134	94,946	115,869	2,663	3,499
1930	[1] 1,160	[1] 2,204	81,038	82,101	1,900	2,036
1931	[1] 482	[1] 1,802	14,910	82,828	697	1,938
1932	[1] 477	[1] 2,316	8,545	69,394	579	1,928
1933	[1] 268	[1] 2,681	6,410	117,268	607	3,443

[1] Excludes units transferred from one class of service to another.

Source of tables 411 and 412: Interstate Commerce Commission.

No. 413.—RAILWAY EQUIPMENT IN SERVICE, ALL REPORTING COMPANIES

NOTE.—"All reporting companies" include switching and terminal but not circular and unofficial lines. Data for tractive effort and capacity of cars exclude switching roads beginning with 1910 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 locomotive units [2]	Total number	Capacity		
		Number	Tractive effort				Aggregate (1,000 tons)	Average (tons)	
			Aggregate (1,000 lbs.)	Average (lbs.)					
June 30, 1900	37,663	-------	-------	-------	-------	1,365,531	-------	-------	34,713
1910	60,019	-------	1,588,894	27,282	-------	2,148,478	76,579	35.9	47,179
Dec. 31, 1916	65,595	65,253	[3] 2,066,166	[3] 32,890	342	2,329,475	[4] 94,441	[4] 40.8	55,193
1917	66,070	65,699	[5] 2,087,950	[5] 33,932	371	2,379,472	[5] 95,467	[5] 41.5	55,939
1918	67,936	67,563	[5] 2,223,246	[5] 34,995	373	2,397,943	[5] 96,767	[5] 41.6	56,611
1919	68,977	68,592	[5] 2,312,634	[5] 35,789	385	2,426,889	[5] 99,001	[5] 41.9	56,290
1920	68,942	68,554	[5] 2,340,761	[5] 36,365	388	2,388,424	[5] 98,343	[5] 42.4	56,102
1921	69,122	68,733	[5] 2,385,470	[5] 36,935	389	2,378,510	[5] 98,504	[5] 42.5	56,950
1922	68,518	68,121	[5] 2,401,452	[5] 37,441	397	2,352,483	[5] 98,847	[5] 43.1	56,827
1923	69,414	69,005	[5] 2,544,115	[5] 39,177	409	2,379,131	[5] 101,318	[5] 43.8	57,159
1924	69,486	69,114	[5] 2,593,178	[5] 39,891	372	2,411,627	[5] 104,149	[5] 44.3	57,451
1925	68,092	67,713	[5] 2,586,868	[5] 40,666	379	2,414,083	[5] 105,570	[5] 44.8	56,814
1926	66,816	66,381	[5] 2,611,238	[5] 41,886	435	2,403,967	[5] 105,953	[5] 45.1	56,855
1927	65,348	64,843	[5] 2,606,171	[5] 42,798	467	2,378,800	[5] 105,846	[5] 45.5	55,729
1928	63,311	62,642	[5] 2,579,643	[5] 43,838	617	2,346,751	[5] 105,322	[5] 45.8	54,800
1929	61,257	60,572	[5] 2,550,813	[5] 44,801	621	2,323,683	[5] 105,411	[5] 46.3	53,838
1930	60,189	59,406	[5] 2,526,940	[5] 45,225	663	2,322,267	[5] 106,180	[5] 46.6	53,584
1931	58,652	57,820	[5] 2,488,861	[5] 45,764	709	2,245,904	[5] 103,422	[5] 47.0	52,096
1932	56,732	55,831	[5] 2,430,328	[5] 46,299	764	2,184,690	[5] 100,901	[5] 47.0	50,598
1933	54,228	53,202	[5] 2,348,821	[5] 46,916	789	2,072,632	[5] 96,734	[5] 47.5	47,677

[1] Excludes caboose cars.
[2] Figures prior to 1928 represent "number of locomotives."
[3] Class I, class II, and class III roads.
[4] Class I and class II roads.
[5] Class I roads.

No. 414.—CLASSIFICATION OF RAILWAY CARS IN SERVICE

NOTE.—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, 1933			
	1920	1925	1930	1932	1933	Total	Eastern district	Southern district	Western district
Freight cars [1]	2,388,424	2,414,083	2,322,267	2,184,690	2,072,632	2,034,886	949,637	376,720	708,529
Box	1,056,514	1,086,562	1,064,652	992,013	930,488	926,045	406,466	145,150	374,429
Flat	117,604	113,562	108,181	100,465	95,453	86,968	19,074	17,727	50,167
Stock	81,678	87,452	84,460	78,504	75,642	74,986	12,603	7,033	55,350
Coal	968,034	979,483	930,624	886,228	850,852	833,667	489,373	194,506	149,788
Tank	11,130	12,151	10,981	10,142	9,992	8,900	27	21	8,852
Refrigerator	60,768	49,488	41,006	37,697	32,370	32,271	2,793	4,951	24,527
Other	92,696	85,385	82,363	79,641	77,835	72,049	19,301	7,332	45,416
Steel [2]	630,150	757,065	854,864	834,924	816,548	816,548	539,425	155,302	121,821
Steel underframe [2]	886,296	1,056,125	1,118,257	1,078,353	1,038,276	1,038,276	389,920	180,366	467,990
Caboose cars	29,575	31,325	29,779	28,576	27,316	26,445	11,001	5,167	10,277
Passenger-train cars	56,102	56,814	53,584	50,598	47,677	46,510	23,378	6,915	16,217
Coaches	29,343	28,744	25,178	23,421	22,218	21,729	12,072	3,027	6,630
Combination	8,570	8,624	8,252	7,945	7,493	6,932	2,865	1,190	2,877
Emigrant	11	7	-------	-------	-------	-------	-------	-------	-------
Parlor	574	502	507	485	470	464	75	62	327
Sleeping [3]	558	377	223	208	192	192	7	4	181
Baggage and express	12,101	13,174	12,981	12,313	11,294	11,215	5,546	1,581	4,088
Postal	1,243	1,092	954	963	949	947	371	188	388
Other	3,702	4,294	5,489	5,263	5,061	5,031	2,442	863	1,726
Steel [2]	15,111	21,190	29,041	29,230	28,747	28,747	16,054	3,667	9,026
Steel underframe [2]	6,573	9,369	10,376	10,250	9,637	9,637	4,911	1,584	3,142
Company service equipment	108,485	112,592	109,527	99,557	90,565	87,376	28,509	15,601	43,266
Motor cars and trailers [2]	(4)	2,469	5,594	5,713	5,179	5,179	3,818	412	949

[1] Excludes caboose cars.
[2] Data represent class I roads only.
[3] Does not include cars owned by Pullman Co.
[4] Data not available.

Source of tables 413 and 414: Interstate Commerce Commission.

No. 415.—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]	Average compensation: Per year
June 30:				
1890	749,301			
1895	785,034	445,508		$568
1900	1,017,653	577,265		567
1901	1,071,169	610,714		570
1902	1,189,315	676,029		568
1903	1,312,537	757,321		577
1904	1,296,121	817,599		631
1905	1,382,196	839,945		608
1906	1,521,355	900,802		592
1907	1,672,074	1,072,386		641
June 30:				
1908	1,436,275	1,035,438		$721
1909	1,502,823	988,324		658
1910	1,699,420	1,143,725		673
1911	1,669,809	1,208,466		724
1912	1,716,380	1,252,348		730
1913	1,815,239	1,373,831		757
1914	1,710,296	1,381,117		808
1916	1,654,075	1,403,968	$0.266	849
Dec. 31:				
1916	1,700,814	1,506,961	.275	886

Year ended Dec. 31—	All operating carriers: Average number of employees	Class I carriers: Average number of employees	Class I carriers: Total hours (thousands)	Class I carriers: Total yearly compensation (1,000 dollars)	Class I carriers: Average hours per employee	Class I carriers: Average compensation: Per hour [2]	Class I carriers: Average compensation: Per year
1916	1,700,814	1,647,097	5,189,791	1,468,576	3,150.9	$0.283	$892
1917	1,785,893	1,732,876	5,437,977	1,739,482	3,138.1	.320	1,004
1918 [3]	1,891,517	1,841,575	5,701,417	2,613,813	3,095.9	.458	1,419
1919 [3]	1,960,439	1,913,422	5,032,493	2,843,128	2,630.1	.565	1,486
1920	2,075,886	2,022,832	5,446,741	3,681,801	2,692.6	.676	1,820
1921	1,705,308	1,659,513	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	1,694,042	1,660,850	4,346,822	2,896,566	2,617.2	.666	1,744
1930	1,517,043	1,487,839	3,759,772	2,550,789	2,527.0	.678	1,714
1931	1,282,825	1,258,719	3,039,110	2,094,994	2,414.4	.689	1,664
1932	1,052,285	1,031,703	2,378,206	1,512,816	2,305.1	.636	1,466
1933	990,839	971,196	2,233,045	1,403,841	2,299.3	.629	1,445
1934	1,027,426	1,007,702	2,393,899	1,519,352	2,375.6	.635	1,508

[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.

Source: Interstate Commerce Commission.

No. 416.—EMPLOYEES AND THEIR COMPENSATION: CLASS I CARRIERS

NOTE.—Data relate to years ended Dec. 31. Class I switching and terminal companies are included

District or class	Average number of employees: 1933	Average number of employees: 1934	Total compensation (1,000 dollars): 1933	Total compensation (1,000 dollars): 1934	Average per day or hour, straight time (dollars): 1933	Average per day or hour, straight time (dollars): 1934	Average per month total compensation (dollars): 1933	Average per month total compensation (dollars): 1934
All employees, all districts	986,573	1,025,155	1,427,293	1,544,220				
Daily basis	86,952	87,386	207,512	214,574	7.54	7.63	199	205
Hourly basis	899,621	937,769	1,219,781	1,329,646	.588	.595	199	118
Eastern district	451,684	467,581	646,541	702,830				
Daily basis	41,892	42,124	92,230	97,298	7.08	7.22	183	192
Hourly basis	409,792	425,457	554,311	605,532	.619	.625	113	119
Southern district	182,325	188,752	254,018	272,764				
Daily basis	14,510	14,613	37,498	38,332	8.00	8.09	215	219
Hourly basis	167,815	174,139	216,520	234,432	.540	.550	108	112
Western district	352,564	368,822	526,734	568,626				
Daily basis	30,550	30,649	77,784	78,944	7.93	7.95	212	215
Hourly basis	322,014	338,173	448,950	489,682	.576	.583	116	121

No. 416.—Employees and Their Compensation: Class I Carriers—Con.

District or class	Average number of employees		Total compensation (1,000 dollars)		Average per day or hour, straight time (dollars)		Average per month, total compensation (dollars)	
	1933	1934	1933	1934	1933	1934	1933	1934
Executives, officials, and staff assistants	12,465	12,252	62,882	62,521				
Daily basis	12,465	12,252	62,882	62,521	16.22	16.18	420	425
Professional, clerical, and general	166,507	168,224	263,067	277,028				
Daily basis	37,100	37,340	78,624	82,571	7.02	7.14	177	184
Hourly basis	129,407	130,884	184,443	194,457	.587	.594	119	124
Maintenance of way and structures	200,415	211,126	180,186	206,110				
Daily basis	3,630	3,773	9,372	10,046	8.28	8.35	215	222
Hourly basis	196,785	207,353	170,814	196,064	.417	.427	72	79
Maintenance of equipment and stores	265,925	280,591	334,159	376,603				
Daily basis	9,431	9,668	24,177	26,017	7.99	8.17	214	224
Hourly basis	256,494	270,923	309,982	350,586	.578	.589	101	108
Transportation (other than train service, engine, and yard)	125,493	127,017	165,154	170,540				
Daily basis	20,617	20,523	22,169	22,341	3.16	3.20	90	91
Hourly basis	104,876	106,494	142,985	148,199	.542	.547	114	116
Transportation (yardmasters, switch tenders, and hostlers)	12,623	12,961	25,083	26,509				
Daily basis	3,709	3,830	10,288	11,077	7.95	8.09	231	241
Hourly basis	8,919	9,131	14,795	15,432	.620	.628	138	141
Transportation (train and engine service)	208,140	212,984	396,762	424,908				
Hourly basis	203,140	212,984	396,762	424,908	.765	.774	163	166

No. 417.—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	1908	52	9,529	24	8,009	596,359
1882			12	912	39,074	1909	44	10,530	5	859	78,095
1883			11	1,990	108,470	1910	39	5,257	7	735	51,428
1884			37	11,038	714,755						
1885			44	8,836	385,460	1911	39	4,593	5	2,606	210,607
						1912	44	9,786	13	3,784	182,112
1886			13	1,799	70,346	1913	49	16,286	17	9,020	477,781
1887			9	1,046	90,318	1914	68	18,608	22	4,222	199,571
1888			22	3,270	186,814	1915	85	30,223	12	20,143	1,070,809
1889			22	3,803	99,664						
1890			26	2,963	105,007	1916	80	34,804	9	4,439	208,160
						1917	82	17,376	19	2,486	61,170
1891			26	2,159	84,479	1918	74	19,208	8	3,519	242,091
1892			36	10,508	357,692	1919	65	16,590	7	244	11,887
1893			74	29,340	1,781,046	1920	61	16,290	10	541	21,620
1894	192	40,819	38	7,025	395,791						
1895	169	37,856	31	4,089	369,075	1921	68	13,512	14	1,744	63,872
						1922	64	15,259	12	4,330	329,115
1896	151	30,475	34	5,441	275,597	1923	64	12,623	10	2,218	87,914
1897	128	18,862	18	1,537	92,909	1924	61	8,105	11	920	30,223
1898	94	12,745	18	2,069	138,701	1925	53	18,687	6	11,368	680,422
1899	71	9,853	10	1,019	52,285						
1900	52	4,178	16	1,165	78,234	1926	45	17,632	6	88	2,821
						1927	40	16,752	6	924	45,237
1901	45	2,497	4	73	1,627	1928	33	5,256	1	19	529
1902	27	1,475	5	278	5,835	1929	29	5,703	3	634	30,981
1903	27	1,185	9	229	18,823	1930	30	9,486	4	4,752	277,324
1904	28	1,323	8	744	36,069						
1905	26	796	10	3,593	176,321	1931	45	12,970	19	5,195	432,152
						1932	55	22,545	13	11,817	626,577
1906	34	3,971	6	204	55,042	1933 [2]	78	41,698	32	25,124	1,750,397
1907	29	3,926	7	317	13,585	1934 [2]	80	42,168	4	1,016	51,074

[1] Data relate to June 30 prior to 1916, Dec. 31 thereafter. [2] Includes roads under trusteeship.

Sources: Table 416, Interstate Commerce Commission; table 417, first two columns and all data beginning with 1933, Interstate Commerce Commission; other data. The Railway Age, Chicago.

No. 418.—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 1910; their total capitalization in 1933 was $827,754,687. 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
1900	11,491	4,522	1,323	5,645	1,470	473	9,548	---------	4,375	5,172	54.2
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
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
1929	23,983	7,853	2,065	14,065	2,705	2,598	18,680	75,598	7,213	11,467	61.4
1930	24,331	8,009	2,074	14,248	2,897	2,368	19,066	77,343	7,186	11,880	62.3
1931	24,343	8,030	2,049	14,264	2,968	2,434	18,941	76,822	7,111	11,830	62.5
1932	24,837	8,067	2,047	14,723	3,056	2,887	18,894	76,957	7,058	11,836	62.6
1933	24,723	8,057	2,042	14,624	2,924	2,968	18,831	77,214	7,175	11,656	61.9

No. 419.—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 beginning with 1908. Dividend figures throughout cover all classes of roads, but interest figure for 1913 excludes the unimportant class III roads. The amount of stock shown in the first column is exclusive of stock held by the issuing company, but includes that held by other railway companies

Year or yearly average	Stock			Dividends			Interest accrued on funded debt (1,000 dolls.)
	Actually outstanding (1,000 dolls.)	Paying dividends (1,000 dolls.)	Per cent paying dividends	Amount declared (1,000 dolls.)	Per cent on stock paying dividends	Per cent on all stock outstanding	
1891-1895	----------	1,737,048	---------	94,093	5.42	---------	243,013
1896-1900	----------	1,977,832	---------	104,295	5.27	---------	249,548
1901-1905	----------	3,505,694	---------	199,752	5.70	---------	285,755
1906-1910	----------	4,930,368	---------	339,685	6.89	---------	363,470
1910	8,010,730	5,412,578	66.71	405,771	7.50	5.00	399,582
1911	8,363,276	5,730,250	67.65	460,195	8.03	5.42	410,327
1912	8,552,447	5,581,289	64.73	400,315	7.17	4.64	429,027
1913	8,599,993	5,780,982	66.14	369,078	6.37	4.22	434,753
1914	8,654,215	5,667,073	64.39	451,653	7.97	5.13	442,595
1915	8,635,319	5,219,847	60.45	328,478	6.29	3.80	464,186
1916	8,755,404	5,430,123	62.02	366,561	6.75	4.19	481,426
1917	9,003,797	5,610,774	62.32	381,852	6.81	4.24	474,123
1918	8,846,717	5,138,851	58.09	339,186	6.60	3.83	468,286
1919	8,883,125	5,298,321	59.64	335,242	6.33	3.77	476,075
1920	8,843,100	5,075,040	57.30	331,103	6.52	3.74	500,354
1921	8,889,921	5,059,844	56.92	456,482	9.02	5.13	529,398
1922	8,961,637	5,321,347	59.38	338,806	6.37	3.78	538,594
1923	9,092,933	5,646,076	62.09	411,882	7.30	4.53	551,705
1924	9,300,054	6,042,268	64.97	385,130	6.37	4.14	588,301
1925	9,413,101	6,278,532	66.70	409,645	6.52	4.35	583,875
1926	9,365,272	6,473,280	69.12	473,683	7.32	5.06	581,709
1927	9,539,491	6,701,427	70.25	567,281	8.47	5.95	583,452
1928	9,722,079	7,159,989	73.65	510,018	7.12	5.25	578,831
1929	9,847,311	7,506,265	76.23	560,902	7.47	5.70	580,770
1930	10,011,538	7,702,021	76.93	603,150	7.83	6.02	588,742
1931	10,008,413	7,325,664	73.20	401,463	5.48	4.01	592,866
1932	10,042,762	3,298,822	32.85	150,774	4.57	1.50	591,340
1933	10,027,092	3,119,282	31.11	158,790	5.09	1.58	590,230

Source of tables 418 and 419: Interstate Commerce Commission.

No. 420.—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:								
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
1930	22, 782, 889	9, 128, 919	3, 658, 575	9, 995, 395	19, 006, 276	349, 079	64, 814	3, 362, 720
1932	22, 831, 546	9, 257, 589	3, 603, 531	9, 970, 426	19, 014, 438	354, 884	59, 315	3, 402, 909
1933	22, 656, 920	9, 178, 360	3, 534, 098	9, 944, 462	18, 846, 113	345, 554	56, 520	3, 408, 733
Stock:								
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
1930	10, 011, 538	4, 290, 108	1, 461, 628	4, 259, 802	8, 267, 129	207, 556	45, 068	1, 491, 785
1932	10, 042, 762	4, 331, 217	1, 464, 714	4, 246, 831	8, 245, 137	222, 529	41, 595	1, 533, 501
1933	10, 027, 092	4, 330, 777	1, 456, 293	4, 240, 022	8, 232, 658	218, 703	39, 819	1, 535, 912
Funded debt:								
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
1930	12, 771, 351	4, 838, 811	2, 196, 947	5, 735, 593	10, 739, 147	141, 523	19, 746	1, 870, 935
1932	12, 788, 784	4, 926, 372	2, 138, 817	5, 723, 595	10, 769, 301	132, 355	17, 720	1, 869, 408
1933	12, 629, 828	4, 847, 583	2, 077, 805	5, 704, 440	10, 613, 455	126, 851	16, 701	1, 872, 821
1933								
Common stock	8, 000, 466	3, 659, 538	1, 249, 804	3, 091, 144	6, 367, 643	204, 388	38, 741	1, 389, 694
Preferred stock	2, 026, 626	671, 239	206, 489	1, 148, 898	1, 865, 015	14, 315	1, 078	146, 218
Mortgage bonds	9, 992, 011	3, 772, 578	1, 690, 914	4, 528, 519	8, 144, 826	118, 503	13, 920	1, 714, 762
Collateral trust bonds	796, 378	389, 937	145, 745	260, 696	733, 708	2, 421	914	59, 335
Income bonds	329, 800	23, 788	9, 380	296, 632	310, 951	2, 115	632	16, 102
Miscellaneous obligations	859, 440	384, 393	82, 002	393, 045	800, 709	2, 954	1, 205	54, 572
Equipment obligations	652, 199	276, 887	149, 764	225, 548	623, 261	858	30	28, 050

No. 421.—PROPERTY INVESTMENT, INCOME, INTEREST, AND DIVIDENDS: REPORTED BY OPERATING ROADS

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

Year ended—	Investment [1]	Investment per mile of road	Net railway operating income	Return on investment	Other income	Interest, rents, and other deductions	Dividends declared
		Dollars		*Per cent*			
June 30, 1908	13, 213, 767	61, 779	634, 794	4. 80	246, 420	485, 311	329, 062
1910 [2]	14, 557, 816	64, 382	805, 097	5. 53	222, 915	511, 417	351, 202
1915	17, 441, 420	73, 208	694, 276	3. 98	189, 300	575, 198	264, 267
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, 858	89, 619	974, 918	4. 56	[3] 260, 655	[3] 667, 616	353, 127
1924	22, 182, 267	93, 233	984, 463	4. 44	[3] 269, 188	[3] 684, 559	325, 983
1925	23, 217, 209	94, 917	1, 136, 728	4. 89	272, 102	706, 272	349, 089
1926	23, 880, 740	97, 433	1, 229, 020	5. 15	301, 541	718, 984	411, 208
1927	24, 453, 871	99, 546	1, 077, 843	4. 41	314, 396	722, 485	503, 146
1928	24, 875, 984	100, 974	1, 182, 467	4. 75	323, 310	720, 776	436, 217
1929	25, 465, 036	103, 197	1, 262, 636	4. 96	362, 363	728, 428	495, 245
1930	26, 051, 000	105, 661	874, 154	3. 36	361, 196	716, 730	511, 259
1931	26, 094, 899	105, 953	528, 204	2. 02	307, 785	708, 622	333, 986
1932	26, 086, 991	106, 337	325, 332	1. 25	226, 092	701, 500	97, 245
1933	25, 901, 962	106, 437	477, 326	1. 84	213, 592	703, 745	98, 443

[1] Prior to 1925 figures include investment of leased lines and exclude investment of proprietary companies not rendering annual reports. Beginning with 1925, the investment in road and equipment of proprietary companies is included as follows: 1925, $480,216,000; 1926, $831,574,000; 1927, $919,095,000; 1928, $1,013,752,000 1929, $1,051,469,000; 1930, $1,095,631,000; 1931, $1,114,637,000; 1932, $1,121,945,000; 1933, $1,096,264,000. 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 420 and 421: Interstate Commerce Commission.

No. 422.—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	--------	--------
1926–1930	586,389	17,357,165	10,330,175	700	24.5	[1] 7.67	--------	--------
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] 14,271,944	[2] 6,120,861	[2] 445	[2] 21.1	[2] 3.24	--------	--------
1914	607,872	13,686,818	6,531,274	447	21.1	[2] 3.31	--------	--------
1915	552,004	12,939,535	6,594,287	476	21.1	[2] 3.47	[2] 15.5	--------
1916	632,304	15,855,103	6,779,225	552	22.8	[2] 3.93	[2] 16.3	--------
1917	646,402	15,911,203	6,780,872	588	24.8	[1] 4.27	[1] 17.7	--------
1918	628,436	14,995,557	7,167,144	621	27.0	[1] 5.33	[1] 22.9	--------
1919	560,499	14,273,422	6,531,570	623	25.4	[1] 6.14	[1] 24.8	[1] 23.0
1920	619,507	15,336,778	7,264,316	639	26.7	[1] 6.81	[1] 28.1	[1] 25.1
1921	519,817	12,449,086	7,309,192	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] 31.2
1929	598,343	18,169,092	10,805,302	718	24.5	[1] 7.86	[1] 26.4	[1] 32.3
1930	523,255	15,709,284	9,905,415	699	24.3	[1] 7.56	[1] 25.8	[1] 28.7
1931	446,261	13,087,643	8,472,144	653	23.4	[1] 6.98	[1] 24.6	[1] 24.5
1932	368,658	10,231,344	6,642,756	585	22.6	[1] 6.26	[1] 23.6	[1] 19.8
1933	368,666	10,540,396	6,773,651	619	23.3	[1] 6.32	[1] 23.2	[1] 21.3
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
1926–1930	576,664	17,262,995	10,267,375	713	26.9	7.67	26.4	30.6
1931	439,381	13,031,069	8,433,430	664	25.6	6.98	24.6	24.5
1932	362,798	10,188,952	6,614,824	598	24.8	6.26	23.6	19.8
1933	362,775	10,494,078	6,743,372	633	25.5	6.32	23.2	21.3
1934	421,383	11,617,116	7,458,569	638	25.6	6.24	22.7	24.2
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
1926–1930	219,468	6,956,068	4,125,220	818	28.1	8.92	28.6	26.4
1931	162,734	5,215,130	3,356,944	771	26.4	8.20	26.1	21.2
1932	134,091	4,099,182	2,668,362	711	25.8	7.54	25.3	17.1
1933	134,630	4,222,329	2,716,352	748	26.5	7.60	24.9	18.1
1934	146,672	4,488,735	2,879,764	766	27.0	7.65	25.0	20.1
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
1926–1930	122,815	3,314,113	2,127,953	738	30.5	6.65	25.3	36.0
1931	94,529	2,519,692	1,727,286	696	29.7	6.20	24.3	27.4
1932	75,523	1,968,647	1,335,337	672	29.6	5.85	23.7	21.8
1933	77,185	2,091,759	1,409,073	708	29.9	6.05	23.6	24.7
1934	87,932	2,259,425	1,515,264	709	30.3	5.93	23.1	27.6
Western district:								
1916–1920	246,903	6,023,340	2,530,519	510	22.2	5.00	21.7	--------
1921–1925	228,277	5,946,330	3,100,884	531	24.3	6.70	26.9	28.2
1926–1930	234,381	6,992,814	4,014,202	606	24.0	7.08	24.8	33.4
1931	182,118	5,296,247	3,349,200	558	22.9	6.34	23.3	27.2
1932	153,184	4,121,123	2,611,125	472	21.6	5.41	21.9	22.2
1933	150,960	4,179,990	2,617,947	503	22.3	5.41	21.4	23.7
1934	186,779	4,868,956	3,063,541	505	22.2	5.29	20.3	27.9

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

Source: Interstate Commerce Commission.

No. 423.—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 1932 Statistical Abstract, table 410, p. 381. 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
1926–1930	1,364,607	2,481,018	430,310	--------	1,657,292	315.34	173.44	4,690,122	1.090
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	2,331,291	391,945	--------	1,581,556	304.44	168.12	4,437,380	1.132
1925	1,351,155	2,463,725	417,418	--------	1,613,862	308.93	169.43	4,648,364	1.114
1926	1,439,612	2,627,492	447,444	--------	1,732,295	310.81	170.29	4,905,981	1.096
1927	1,372,547	2,510,054	432,014	--------	1,668,800	314.75	172.11	4,728,885	1.095
1928	1,371,359	2,504,196	436,087	--------	1,677,089	318.00	174.14	4,771,562	1.094
1929	1,419,383	2,584,333	450,189	--------	1,727,786	317.17	174.20	4,899,168	1.088
1930	1,220,134	2,179,015	385,815	--------	1,481,199	316.21	177.06	4,145,015	1.074
1931	944,846	1,694,075	311,073	--------	1,196,960	329.23	183.62	3,302,324	1.062
1932	678,854	1,229,078	235,309	--------	908,296	346.63	191.45	2,485,475	1.056
1933	733,391	1,322,463	250,651	--------	972,262	341.77	189.53	2,528,968	1.009
Class I roads:									
1926–1930	1,279,197	2,341,062	427,234	468,347	1,782,344	333.99	182.50	4,600,341	1.077
1931	894,186	1,605,034	309,225	338,218	1,276,861	345.82	192.66	3,248,754	1.051
1932	646,223	1,168,289	233,977	257,276	968,772	362.07	200.27	2,446,864	1.046
1933	698,943	1,258,823	249,223	273,153	1,035,707	356.6	198.0	2,488,848	.999
1934	765,296	1,369,733	269,006	297,659	1,132,526	351.5	197.4	2,631,490	.978
Eastern district:									
1926–1930	547,987	1,227,180	182,768	196,477	3,070,369	333.53	148.93	1,993,945	1.091
1931	386,210	815,595	128,656	138,585	2,153,994	333.12	157.74	1,368,022	1.063
1932	286,549	604,930	98,578	106,668	1,653,887	344.02	162.96	1,046,141	1.061
1933	305,305	650,091	104,562	112,943	1,760,002	342.5	160.8	1,062,290	1.016
1934	344,052	714,659	112,335	121,027	1,927,395	326.5	157.4	1,121,586	.998
Southern district:									
1926–1930	294,051	430,198	93,552	101,847	2,059,316	318.15	217.46	842,994	.901
1931	211,007	308,709	69,525	75,706	1,507,609	329.49	225.21	619,351	.891
1932	160,646	231,583	54,477	59,140	1,181,906	339.11	235.24	473,963	.870
1933	171,791	253,681	58,934	63,790	1,288,375	343.1	232.3	503,276	.854
1934	184,608	271,955	62,368	68,412	1,382,208	337.8	229.8	521,052	.835
Western district:									
1926–1930	437,159	683,684	150,914	170,023	1,119,969	345.22	220.74	1,763,402	1.168
1931	296,969	480,730	111,044	123,927	814,519	373.92	230.99	1,261,380	1.136
1932	199,028	331,776	80,922	91,468	595,793	406.59	243.91	926,760	1.145
1933	221,847	355,051	85,727	96,420	632,777	386.4	241.5	923,282	1.077
1934	236,636	383,119	94,303	108,220	703,114	398.5	249.9	988,852	1.049

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

Source: Interstate Commerce Commission.

No. 424.—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, exclude 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)													
1912[1]	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[1]	460.9	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[1]	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[1]	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[1]	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[1]	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[1]	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[1]	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[1]	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[1]	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	463.4	391.8	397.4	470.4	412.9	444.6	469.0	439.1	469.2	495.8	544.4	518.2	508.4
1923	524.3	497.0	442.1	530.2	517.8	542.1	535.6	530.6	558.5	540.1	581.7	526.3	489.3
1924	493.6	463.7	474.1	499.7	470.0	472.3	460.9	477.0	503.2	535.5	566.9	500.6	499.9
1925	510.2	479.2	450.1	481.1	468.6	483.5	501.7	517.1	549.9	559.9	585.3	527.4	518.7
1926	532.7	476.0	455.7	525.7	494.9	512.2	535.4	551.6	573.8	584.8	603.6	556.2	522.1
1927	511.7	482.0	464.0	525.2	493.3	513.6	511.6	503.9	551.6	559.5	574.7	498.8	462.6
1928	509.5	452.8	451.3	499.9	469.3	505.3	496.9	507.6	552.2	550.4	611.7	526.0	491.1
1929	523.6	481.6	470.4	511.3	508.6	531.8	526.0	551.7	580.2	560.7	602.4	494.1	464.2
1930	440.1	446.3	423.2	447.7	445.9	457.6	439.7	451.8	461.0	462.2	478.0	394.3	373.9
1931	349.0	361.8	332.8	371.9	365.4	364.8	365.8	372.8	360.3	346.3	359.0	301.9	285.4
1932	260.6	272.2	264.2	286.7	264.9	251.9	243.5	235.3	249.4	269.5	295.2	250.7	243.3
1933	258.0	226.6	212.2	218.1	224.9	255.2	278.3	293.7	297.0	292.2	294.4	257.7	245.3
1934	272.6	258.0	248.5	293.2	265.4	282.0	282.8	276.0	282.7	275.5	292.9	257.0	257.5
FREIGHT REVENUE (millions of dollars)													
1922	333.9	277.0	294.5	354.1	288.8	319.5	331.8	299.4	326.4	355.8	406.2	389.7	364.0
1923	385.3	366.9	326.7	398.6	386.1	405.3	387.1	379.2	402.0	390.8	441.4	395.8	344.0
1924	362.3	333.3	352.6	371.5	342.8	344.7	323.2	340.0	358.4	399.1	438.9	380.9	362.1
1925	379.4	350.6	336.8	360.6	347.0	359.2	366.0	377.4	403.2	419.6	450.5	402.4	379.4
1926	401.4	347.7	340.6	401.7	370.4	385.3	397.6	409.3	429.3	444.7	472.1	433.2	384.6
1927	387.3	357.9	353.9	406.3	371.4	391.1	381.9	369.9	415.1	426.7	452.7	385.8	334.7
1928	391.2	337.8	346.1	388.2	356.4	391.5	370.6	382.0	421.5	423.8	492.8	415.7	367.9
1929	402.4	367.0	363.6	393.6	393.5	412.5	390.9	416.8	446.3	435.3	483.3	384.3	341.1
1930	340.3	338.0	327.0	345.2	345.6	354.1	331.4	347.1	354.5	363.3	385.5	310.9	280.7
1931	271.2	276.9	257.4	291.2	283.5	282.9	281.1	290.1	279.9	270.0	289.0	238.3	214.4
1932	204.3	208.4	205.3	224.9	207.9	194.2	185.9	179.9	194.9	214.5	244.0	203.1	188.1
1933	207.7	179.2	169.2	175.3	180.2	207.5	223.3	240.2	241.3	235.4	239.6	209.9	191.7
1934	219.5	208.8	201.7	241.0	214.3	228.6	225.7	221.3	224.8	220.5	238.8	208.5	199.4
PASSENGER REVENUE (millions of dollars)													
1927	81.4	86.0	74.3	76.7	77.4	78.6	86.0	91.7	91.7	86.3	75.2	70.9	81.9
1928	75.2	78.6	69.5	70.6	71.1	70.4	81.8	82.8	85.2	80.2	69.7	65.3	76.7
1929	72.8	75.0	68.4	71.9	67.5	68.9	79.3	79.6	84.3	75.8	66.2	62.5	74.5
1930	60.8	70.5	61.3	61.8	59.6	60.4	67.2	65.8	67.4	59.1	52.4	48.7	55.4
1931	45.9	53.3	46.5	47.1	47.3	47.0	51.0	50.3	49.2	44.8	38.2	35.9	40.6
1932	31.4	38.0	33.9	34.4	31.0	31.3	32.6	32.7	31.4	30.5	26.2	24.9	30.2
1933	27.4	26.7	23.6	21.9	22.9	23.9	31.0	31.0	32.2	32.0	29.8	25.0	29.3
1934	28.9	27.2	25.4	27.4	27.0	26.6	31.6	32.2	32.8	30.6	28.6	24.8	32.0
FREIGHT TON-MILES (millions)[2]													
1922	31,320	27,151	28,451	32,941	24,735	27,940	29,062	27,115	30,472	34,334	39,287	38,077	36,271
1923	38,133	37,707	32,628	39,222	38,321	39,598	38,001	38,518	40,344	39,461	42,210	38,158	33,427
1924	35,803	34,510	35,982	36,426	31,926	33,915	31,968	33,185	36,457	39,064	43,134	38,067	35,006
1925	38,007	37,026	33,570	35,332	33,571	37,126	35,854	37,944	41,709	41,305	44,054	40,775	37,856
1926	40,725	37,680	35,405	38,669	36,300	39,834	39,252	41,717	43,734	44,346	48,296	43,360	40,116
1927	39,559	39,233	37,259	41,817	37,111	40,118	38,477	38,369	41,984	42,959	45,537	37,250	34,592
1928	39,769	36,289	35,723	39,486	35,887	39,263	37,307	39,153	42,425	43,791	48,234	41,991	37,673
1929	41,026	39,210	38,140	40,228	38,346	41,846	40,740	42,009	44,950	44,222	47,836	38,741	36,046
1930	35,179	36,718	34,347	35,301	34,900	36,573	34,417	35,595	37,423	36,232	39,294	32,310	29,034
1931	28,346	30,308	27,097	29,961	28,711	30,016	28,254	30,276	29,361	27,842	30,579	25,084	22,662
1932	21,587	22,855	21,718	23,581	21,259	19,872	18,673	19,065	20,071	22,709	26,375	21,759	21,107
1933	22,924	19,987	19,118	19,351	19,831	21,734	23,710	26,408	26,464	26,130	26,414	23,937	22,000
1934	24,802	23,762	23,198	27,792	23,472	25,260	25,212	24,257	25,402	25,885	26,497	23,780	23,105

[1] Including switching and terminal companies. [2] Revenue and nonrevenue.

Source: Interstate Commerce Commission.

No. 425.—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
1926–1930	801,503	31,846	39.73	569,310	3,818,089	908,341	[1] 2.15	2.85	[1] 56
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
1929	786,432	31,165	39.63	568,095	3,870,903	875,929	[1] 2.18	2.81	[1] 55
1930	707,987	26,876	37.96	545,091	3,691,480	730,766	[1] 1.85	2.72	[1] 49
1931	599,227	21,933	36.60	485,538	3,274,812	551,726	[1] 1.61	2.52	[1] 45
1932	480,718	16,997	35.36	419,088	2,743,437	377,511	[1] 1.33	2.22	[1] 40
1933	434,848	16,368	37.64	380,435	2,469,969	329,816	[1] 1.27	2.01	[1] 43
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
1926–1930	793,335	31,724	39.99	560,633	3,800,669	903,748	2.15	2.85	56
1931	596,391	21,894	36.71	480,367	3,265,923	550,250	1.61	2.51	45
1932	478,800	16,971	35.44	414,383	2,735,614	376,539	1.33	2.22	40
1933	432,980	16,341	37.70	376,093	2,490,051	328,957	1.27	2.01	43
1934	449,988	18,036	40.10	386,445	2,647,601	345,783	-------	1.92	47
Eastern district:									
1921–1925	642,356	18,636	29.01	230,179	1,507,410	528,429	2.84	2.84	81
1926–1930	571,978	17,392	30.41	234,631	1,642,826	474,330	2.61	2.73	74
1931	448,834	12,912	28.77	206,783	1,470,923	316,875	2.03	2.45	62
1932	362,424	10,171	28.06	179,587	1,239,635	224,842	1.71	2.21	56
1933	316,983	9,497	30.00	164,981	1,126,870	197,166	1.62	2.08	57
1934	321,694	9,936	30.90	165,995	1,149,761	206,089	-------	2.07	60
Southern district:									
1921–1925	108,845	5,191	47.69	96,314	582,587	174,435	2.22	3.36	53
1926–1930	78,652	4,110	52.26	97,851	625,385	132,664	1.78	3.23	42
1931	48,702	2,292	47.07	80,984	515,450	66,331	1.20	2.89	28
1932	36,957	1,830	49.52	70,385	437,775	42,841	.97	2.34	25
1933	43,467	2,020	46.50	64,965	413,730	38,851	.97	1.92	30
1934	50,932	2,506	49.20	67,639	454,493	44,751	-------	1.79	37
Western district:									
1921–1925	210,952	12,729	60.34	232,075	1,482,295	397,738	2.21	3.12	54
1926–1930	142,705	10,222	71.63	228,151	1,532,458	296,764	1.83	2.90	44
1931	98,855	6,690	67.67	192,600	1,279,550	167,044	1.32	2.50	34
1932	79,419	4,970	62.58	164,411	1,058,204	108,856	1.06	2.19	29
1933	72,530	4,824	66.50	146,147	949,451	92,940	1.03	1.93	32
1934	77,362	5,594	72.30	152,811	1,043,347	94,943	-------	1.70	37

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

Source: Interstate Commerce Commission.

No. 426.—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 427. Switching and terminal companies are excluded beginning with 1908; operating revenues of switching and terminal companies, 1932, $51,734,000; 1933, $57,743,000; operating expenses, 1932, $40,997,000; 1933, $40,266,000. For certain principal items for individual years 1890 to 1900, see 1932 Statistical Abstract, table 411

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
1926–1930	259,646	6,139,269	4,502,029	1,637,240	386,732	1,125,224	23,645	6,306	73.33
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
1929	260,558	6,373,004	4,579,162	1,793,842	402,698	1,262,636	24,459	6,885	71.85
1930	260,475	5,356,484	3,993,621	1,362,863	353,881	874,154	20,564	5,232	74.56
1931	259,886	4,246,385	3,273,906	972,479	308,492	528,204	16,339	3,742	77.10
1932	259,066	3,168,537	2,441,814	726,723	279,263	325,332	12,231	2,805	77.06
1933	257,802	3,138,186	2,285,218	852,968	253,522	477,326	12,173	3,309	72.82
Class I roads:									
1921–1925	235,302	5,881,855	4,583,425	1,298,431	321,536	883,599	24,997	5,518	77.92
1926–1930	239,703	6,038,339	4,421,699	1,616,640	379,941	1,114,903	25,191	6,744	73.23
1931	242,176	4,188,343	3,223,575	964,768	303,528	525,628	17,295	3,984	76.97
1932	241,519	3,126,760	2,403,445	723,315	275,135	326,298	12,946	2,995	76.87
1933	240,631	3,095,404	2,249,232	846,172	249,623	474,296	12,864	3,516	72.66
1934	238,951	3,271,567	2,441,823	829,744	239,625	462,652	13,691	3,472	74.64
Eastern district:									
1926–1930	59,526	2,718,136	2,026,514	691,622	156,454	473,330	45,663	11,619	74.56
1931	59,729	1,868,461	1,466,842	401,619	125,331	205,992	31,282	6,724	78.51
1932	59,604	1,416,801	1,076,555	340,246	116,867	159,696	23,770	5,708	75.98
1933	59,410	1,389,133	1,006,545	382,588	104,528	213,699	23,382	6,440	72.46
1934	59,067	1,459,598	1,086,856	372,742	101,229	206,649	24,711	6,310	74.46
Southern district:									
1926–1930	45,429	1,047,501	757,713	289,788	71,462	216,138	23,058	6,379	72.34
1931	46,116	739,244	564,660	174,584	56,931	109,941	16,030	3,786	76.38
1932	46,092	558,408	417,791	140,617	50,305	83,226	12,115	3,051	74.82
1933	45,743	583,066	399,751	183,315	47,207	127,811	12,747	4,007	68.56
1934	45,405	611,012	432,328	178,684	47,127	121,253	13,457	3,935	70.76
Western district:									
1926–1930	134,748	2,272,702	1,637,472	635,230	152,025	425,435	16,866	4,714	72.05
1931	136,331	1,580,638	1,192,073	388,565	121,266	209,695	11,594	2,850	75.42
1932	135,823	1,151,551	909,099	242,452	107,963	83,376	8,478	1,785	78.95
1933	135,478	1,123,205	842,936	280,269	97,888	132,786	8,291	2,069	75.05
1934	134,479	1,200,957	922,639	278,318	91,269	134,750	8,930	2,070	76.83

[1] Class I and class II roads.

Source: Interstate Commerce Commission.

No. 427.—INCOME ACCOUNT OF CLASS I CARRIERS: OPERATING ROADS

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

Item	1916–1920 (average)	1921–1925 (average)	1926–1930 (average)	1931	1932	1933	1934 [1]
Revenues	4,763,039	5,881,856	6,038,339	4,188,343	3,126,760	3,095,404	3,271,446
Freight	3,336,480	4,277,134	4,600,341	3,248,753	2,446,864	2,488,848	2,633,387
Passenger	1,005,690	1,100,603	903,748	550,250	376,539	328,957	346,220
Mail	76,508	94,900	111,887	105,423	97,162	91,871	91,140
Express	118,933	137,886	139,570	82,775	53,983	45,640	54,012
All other transportation	92,041	129,878	136,665	98,718	77,905	71,667	75,434
All other	133,387	141,455	146,128	102,424	74,307	68,421	71,253
Expenses	3,879,220	4,583,425	4,421,699	3,223,575	2,403,445	2,249,232	2,441,772
Maintenance, way, etc.	663,681	781,577	826,826	530,613	351,179	322,286	365,285
Maintenance, equipment	1,040,185	1,297,802	1,178,252	816,954	618,941	598,709	637,897
Traffic	59,749	93,919	123,608	117,218	96,223	85,817	89,249
Transportation	1,947,814	2,194,358	2,054,865	1,538,469	1,154,318	1,074,932	1,164,037
All other	167,791	215,769	238,148	220,321	182,784	167,488	185,304
Net revenue from railway operations	883,819	1,298,431	1,616,640	964,768	723,315	846,172	829,674
Deduct—							
Tax accruals	219,774	321,536	379,941	303,528	275,135	249,623	239,498
Uncollectible revenues	868	1,895	1,427	891	1,027	1,208	1,166
Equipment rents	25,647	67,659	91,786	99,193	85,102	85,008	89,842
Joint facility rents	20,543	23,742	28,583	35,528	35,753	36,037	36,461
Net railway operating income	616,987	883,599	1,114,903	525,628	326,298	474,296	462,707

Item	Eastern district			Southern district			Western district		
	1932	1933	1934 [1]	1932	1933	1934 [1]	1932	1933	1934 [1]
Revenues	1,416,801	1,389,133	1,459,475	558,408	583,066	611,011	1,151,551	1,123,205	1,200,960
Freight	1,046,141	1,062,290	1,120,229	473,963	503,276	521,052	926,760	923,282	992,106
Passenger	224,843	197,166	206,336	42,840	38,851	44,750	108,856	92,940	95,134
Mail	38,453	35,930	35,157	16,358	15,787	15,995	42,351	40,154	39,988
Express	23,522	19,867	22,290	9,031	8,691	10,742	21,430	17,082	20,980
All other transportation	44,737	39,572	38,781	6,367	6,458	7,197	26,801	25,637	29,456
All other	39,105	34,308	36,682	9,849	10,003	11,275	25,353	24,110	23,296
Expenses	1,076,555	1,006,545	1,086,800	417,791	399,751	432,328	909,099	842,936	922,644
Maintenance, way, etc.	139,710	129,428	144,715	68,939	63,062	70,506	142,530	129,796	150,064
Maintenance, equipment	280,875	270,474	284,692	112,776	113,061	121,358	225,290	215,174	231,847
Traffic	36,635	32,033	33,777	17,749	16,241	17,148	41,839	37,543	38,324
Transportation	539,537	501,317	541,424	188,734	180,571	194,201	426,047	393,044	428,412
All other	79,798	73,293	82,192	29,593	26,816	29,115	73,393	67,379	73,097
Net revenue from railway operations	340,246	382,588	372,675	140,617	183,315	178,683	242,452	280,269	278,316
Deduct—									
Tax accruals	116,867	104,528	101,235	50,305	47,207	47,124	107,963	97,888	91,139
Uncollectible revenues	438	520	605	181	163	195	408	525	366
Equipment rents	43,432	44,033	43,822	3,225	4,214	5,687	38,445	36,761	40,333
Joint facility rents	19,813	19,808	20,430	3,680	3,920	4,421	12,260	12,309	11,610
Net railway operating income	159,696	213,699	206,583	83,226	127,811	121,256	83,376	132,786	134,868

[1] Rail line and water line transportation combined in the several accounts; water line transportation included in "All other" in prior years.

Source: Interstate Commerce Commission.

No. 428.—TAXES AND SPECIAL ASSESSMENTS OF CLASS I CARRIERS, BY STATES

NOTE.—Data for all years exclude switching and terminal companies and include nonoperating subsidiaries. Data for 1916 include also class II carriers. Total railroad taxes, Federal and State, in 1933, by classes, were as follows: Class I and subsidiaries, $251,756, 698 (including $541,125 Canadian, $124 Mexican and $1,576 not localized by States); class II and subsidiaries, $3,351,222; class III and subsidiaries, $552,826; switching and terminal companies, $12,443,808; grand total $268,104,554

State	Amount (thousands of dollars)						Per mile of line (dollars)			
	1916	1920	1925	1930	1932	1933	1920	1930	1932	1933
Total	162,475	282,751	359,370	349,207	275,557	251,214	1,262	1,519	1,205	1,106
United States Government taxes	12,531	50,543	87,680	40,986	12,448	21,070	226	178	54	93
New England:										
Maine	1,026	1,725	1,977	1,908	1,402	1,188	831	963	708	604
New Hampshire	746	1,005	1,042	1,125	1,005	844	827	990	910	765
Vermont	491	451	453	407	502	456	608	540	672	610
Massachusetts	2,575	3,339	3,920	4,709	4,114	3,760	1,616	2,369	2,076	1,913
Rhode Island	397	585	604	687	708	682	2,996	3,933	3,741	3,627
Connecticut	1,114	1,975	2,058	1,672	1,024	921	1,977	1,737	1,057	949
Middle Atlantic:										
New York	11,724	17,861	22,613	27,378	27,616	24,292	2,271	3,491	3,522	3,100
New Jersey	7,656	11,189	17,355	20,442	21,134	17,915	5,292	9,951	10,321	9,136
Pennsylvania	9,957	9,342	11,134	12,440	9,540	7,592	945	1,235	941	751
South Atlantic:										
Delaware	153	165	182	166	162	163	493	567	554	556
Dist. of Columbia	64	79	126	144	156	158	2,291	4,178	4,515	4,378
Maryland	1,211	2,004	1,352	2,076	1,900	1,738	1,591	1,829	1,680	1,538
Virginia	3,012	4,695	5,614	7,318	5,896	5,239	1,129	1,759	1,414	1,263
West Virginia	2,355	3,879	6,046	8,109	7,920	7,369	1,195	2,193	2,185	2,068
North Carolina	1,706	2,129	4,748	5,392	4,361	3,885	552	1,399	1,166	1,018
South Carolina	1,091	1,951	2,840	3,489	2,520	2,440	623	1,106	804	780
Georgia	1,957	2,481	3,310	3,966	3,099	2,540	455	719	563	463
Florida	1,572	2,167	3,888	4,964	3,018	2,991	542	965	596	600
East North Central:										
Ohio	10,618	16,841	18,518	19,928	16,889	14,742	2,048	2,334	1,997	1,746
Indiana	5,803	9,422	11,627	13,852	8,987	7,150	1,328	2,011	1,311	1,047
Illinois	9,049	16,422	21,576	22,084	20,367	18,552	1,421	1,827	1,697	1,548
Michigan	4,220	7,579	7,656	10,816	8,298	6,719	1,083	1,469	1,164	956
Wisconsin	4,968	6,876	7,295	7,201	6,393	5,497	995	1,034	927	803
West North Central:										
Minnesota	6,445	9,753	7,965	6,778	3,425	4,117	1,151	823	416	501
Iowa	3,871	7,855	6,842	8,026	5,973	4,835	808	831	623	508
Missouri	2,258	3,359	3,716	4,284	3,739	3,582	457	566	505	487
North Dakota	2,289	4,997	4,290	4,110	3,230	3,192	969	799	628	621
South Dakota	1,635	3,718	3,161	2,696	2,396	1,892	900	644	575	454
Nebraska	2,704	4,159	4,747	4,622	4,086	3,560	677	749	663	583
Kansas	4,108	6,188	6,670	8,871	7,253	6,848	688	968	793	758
East South Central:										
Kentucky	2,018	2,184	4,246	5,373	4,447	3,739	624	1,411	1,200	1,016
Tennessee	1,718	2,584	3,107	3,629	2,463	2,322	702	1,002	684	648
Alabama	1,751	2,548	2,687	3,681	3,044	2,351	560	797	662	514
Mississippi	1,916	3,612	5,064	5,047	3,586	3,017	942	1,322	944	802
West South Central:										
Louisiana	2,235	3,788	4,578	5,098	4,494	4,216	971	1,280	1,131	1,061
Texas	4,656	5,098	6,514	7,614	6,417	6,164	364	494	418	408
Oklahoma	3,653	5,463	5,682	6,468	5,720	4,583	864	994	875	702
Arkansas	2,248	3,912	2,663	3,025	2,807	2,378	948	690	644	548
Mountain:										
Montana	2,781	4,284	4,728	5,178	4,879	4,622	871	1,016	962	912
Wyoming	901	1,213	1,659	1,970	1,981	1,872	686	1,071	1,077	1,018
Colorado	2,451	3,344	3,719	4,271	3,495	3,324	729	972	798	759
New Mexico	1,179	2,467	2,212	2,785	2,570	2,410	915	993	906	861
Arizona	1,341	1,572	2,485	3,100	3,253	3,234	776	1,403	1,494	1,555
Utah	1,123	1,856	2,161	2,404	2,391	2,252	907	1,142	1,160	1,095
Nevada	1,028	1,543	1,762	1,970	2,182	1,984	942	1,163	1,275	1,158
Idaho	1,475	3,844	2,872	3,244	3,140	2,759	1,500	1,219	1,188	1,044
Pacific:										
Washington	4,064	8,795	6,647	7,430	6,336	5,041	1,698	1,480	1,264	1,009
Oregon	1,492	2,722	2,736	3,064	2,436	1,055	1,060	1,119	886	385
California	5,142	7,187	12,863	13,210	10,355	7,962	1,071	1,842	1,400	1,094

Source: Interstate Commerce Commission.

No. 429.—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 beginning with 1908. Figures for 1911 to 1915, inclusive, exclude class III roads but this affects the comparability very slightly; those after 1916 exclude both class II and class III, thereby reducing the grand total about 6 percent. Non-revenue 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:								
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
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	40,557
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
1930	1,153,197	110,729	23,129	407,937	234,600	69,370	277,765	29,667
1931	894,186	97,487	21,632	339,536	162,367	43,025	207,366	22,773
1932	646,223	80,917	18,055	281,224	81,002	26,109	143,682	15,234
1933	698,943	81,702	17,651	296,478	98,587	33,165	157,009	14,351
1934	765,296	79,305	20,363	323,500	112,880	35,650	179,253	14,345
Eastern district:								
1932	286,549	17,656	4,392	147,966	27,426	3,225	78,250	7,634
1933	305,305	16,518	4,400	158,446	27,319	3,234	88,245	7,143
1934	344,052	16,805	4,534	178,648	32,573	3,675	100,508	7,309
Southern district:								
1932	160,646	9,742	1,215	103,218	16,211	8,893	18,076	3,291
1933	171,791	9,926	1,274	110,674	16,296	10,899	20,156	3,166
1934	184,608	10,037	1,458	116,735	19,527	10,759	23,043	3,049
Western district:								
1932	199,028	53,519	12,448	30,040	37,365	13,991	47,356	4,309
1933	221,847	55,258	11,977	27,958	54,972	19,032	48,608	4,042
1934	236,636	52,463	14,371	28,117	60,780	21,216	55,702	3,987
II. TOTAL REVENUE FREIGHT [3]								
All roads:								
1906–1910	[1] 1,673,431	150,384	38,769	589,884	228,563	168,023	314,007	59,277
1911–1915 [2]	[1] 1,881,635	193,252	44,194	712,193	284,499	183,292	356,669	71,347
Class I:								
1916–1920	[1] 2,212,267	225,505	55,199	826,912	349,783	193,436	466,202	93,550
1921–1925	2,068,262	221,961	46,065	757,498	316,014	192,256	465,097	69,371
1926–1930	2,341,062	221,019	45,054	852,777	395,987	179,554	584,457	62,214
1928	2,361,623	225,550	45,724	838,085	396,400	187,347	605,256	63,261
1929	2,451,601	223,264	44,729	878,014	418,797	182,177	642,191	62,430
1930	2,063,078	210,971	41,097	749,218	349,424	130,684	530,368	51,316
1931	1,605,034	187,792	39,549	613,408	237,934	83,998	401,628	40,725
1932	1,168,289	152,784	34,514	504,111	118,226	51,813	278,384	28,457
1933	1,258,823	150,763	34,507	529,444	149,978	62,197	304,654	27,280
1934	1,369,733	150,761	39,240	575,991	168,158	64,199	344,135	27,249
Eastern district:								
1932	604,930	48,121	14,849	319,196	45,637	13,494	148,802	14,831
1933	650,091	44,959	15,112	337,042	59,124	14,480	165,314	14,060
1934	714,659	44,769	15,171	374,777	66,029	14,353	185,474	14,086
Southern district:								
1932	231,583	21,396	2,850	127,547	22,094	14,525	36,753	6,418
1933	253,681	22,920	3,013	138,670	23,186	17,428	42,056	6,408
1934	271,955	22,390	3,880	147,120	26,854	17,198	48,172	6,341
Western district:								
1932	331,776	83,267	16,815	57,368	50,495	23,794	92,829	7,208
1933	355,051	82,884	16,382	53,732	67,668	30,289	97,284	6,812
1934	383,119	83,602	20,189	54,094	75,275	32,648	110,489	6,822

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

No. 430.—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, 1934 (thousands of tons of 2,000 pounds)		
	All districts								1934					
	1920	1925	1929	1930	1931	1932	1933	1934	Eastern district	Southern district	Western district	Eastern district	Southern district	Western district
Grand total, carload and l. c. l.	**1,255,421**	**1,247,242**	**1,339,091**	**1,153,197**	**894,186**	**646,223**	**698,943**	**765,296**	**344,052**	**184,608**	**236,636**	**714,659**	**271,955**	**383,119**
Grand total, carload traffic	**1,202,219**	**1,206,655**	**1,303,048**	**1,123,530**	**871,412**	**630,989**	**684,592**	**750,951**	**336,743**	**181,559**	**232,649**	**700,573**	**265,614**	**376,297**
Products of agriculture, total	**110,840**	**109,313**	**111,343**	**110,728**	**97,487**	**80,917**	**81,702**	**79,305**	**16,805**	**10,037**	**52,463**	**44,769**	**22,390**	**83,602**
Wheat	23,131	21,548	27,019	25,466	26,228	19,120	16,501	16,018	2,777	661	12,580	3,919	1,562	15,758
Corn	12,689	12,680	15,258	13,986	10,728	9,544	12,310	11,427	2,540	1,584	7,303	4,488	2,245	10,264
Oats	8,615	8,450	5,713	5,184	3,969	3,400	3,353	2,501	687	294	1,520	1,431	570	2,089
Other grain	5,669	4,564	4,477	4,045	2,924	2,229	2,995	3,213	368	82	2,763	731	251	3,896
Flour and meal	10,952	9,901	10,627	10,546	10,067	9,319	8,997	8,932	2,419	790	5,723	7,508	2,540	8,281
Cereal foods and other mill products	8,891	9,578	10,820	10,610	8,783	6,629	6,779	7,095	2,525	704	3,866	5,855	1,631	5,753
Hay, straw, and alfalfa	7,957	5,506	3,697	3,494	2,174	1,569	1,476	2,562	577	125	1,860	1,141	507	3,173
Leaf tobacco [1]	1,081	1,138	989	1,008	816	642	680	679	68	588	23	182	944	26
Cotton	3,379	4,127	3,940	3,032	2,432	2,777	3,374	2,503	72	985	1,446	697	2,134	2,145
Cottonseed and products, except oil	4,573	5,849	5,076	5,065	3,608	3,146	2,483	2,402	18	1,259	1,125	317	1,751	1,948
Citrus fruits	1,404	1,363	2,355	1,734	2,378	1,965	1,823	1,818	165	514	1,139	1,678	1,713	3,916
Other fresh fruits	5,271	5,910	5,690	5,919	5,175	4,068	3,416	3,648	631	756	2,261	3,172	1,870	5,984
Potatoes, except sweet [2]	4,118	4,614	4,425	4,332	4,114	3,418	3,466	3,804	1,471	461	1,872	5,877	1,397	4,758
Other fresh vegetables	2,205	2,828	3,222	3,262	2,927	2,575	2,449	2,687	447	585	1,655	3,006	1,730	5,643
Dried fruits and vegetables	1,165	1,533	1,609	1,674	1,426	1,258	1,239	1,260	355	51	854	956	252	1,922
Sugar beets	9,741	9,824	5,348	6,246	5,573	5,503	6,641	4,338	213	----------	4,125	272	----------	4,575
Other products of agriculture			5,077	5,125	4,165	3,755	3,720	4,418	1,472	598	2,348	3,539	1,293	3,471
Animals and products, total	**26,595**	**26,324**	**24,907**	**23,129**	**21,632**	**18,055**	**17,651**	**20,363**	**4,534**	**1,458**	**14,371**	**15,171**	**3,880**	**20,189**
Horses and mules	936	544	553	440	315	230	231	355	26	50	279	99	178	440
Cattle and calves	9,809	9,330	7,310	6,785	6,097	4,896	4,497	7,279	746	429	6,104	2,084	994	8,761
Sheep and goats	1,344	1,224	1,387	1,385	1,343	1,085	1,008	1,059	124	46	889	364	74	1,558
Hogs	5,421	5,502	5,534	4,902	4,501	3,884	3,608	3,004	726	181	2,097	1,582	262	2,572

[1] Includes refuse, stems, etc., prior to 1929.

[2] "Potatoes" prior to 1929.

No. 430.—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, 1934 (thousands of tons of 2,000 pounds)		
	All districts								1934					
	1920	1925	1929	1930	1931	1932	1933	1934	Eastern district	Southern district	Western district	Eastern district	Southern district	Western district
Animals and products—Continued														
Fresh meats	2,770	2,904	3,007	2,928	2,933	2,724	2,951	3,229	908	294	2,027	3,973	858	2,333
Other packing-house products	2,206	2,139	2,274	1,970	1,833	1,632	1,585	1,584	635	207	742	1,623	824	1,218
Poultry	264	357	417	419	416	382	402	377	60	34	283	661	51	388
Eggs	536	591	588	612	582	424	422	403	73	24	306	662	67	469
Butter and cheese	425	686	793	807	768	735	756	771	140	37	594	1,213	163	769
Wool	293	263	414	354	388	271	336	237	100	8	129	354	35	229
Hides and leather	1,051	1,026	913	847	782	655	734	789	388	76	325	1,187	178	506
Other animals and products	1,540	1,758	1,717	1,680	1,674	1,137	1,071	1,276	608	72	596	1,369	196	946
Products of mines, total	712,154	678,336	737,879	642,537	501,903	362,226	395,065	436,380	211,221	136,262	88,897	440,806	173,974	129,369
Anthracite	78,100	58,260	71,931	71,252	65,673	55,681	56,467	68,630	68,361	77	192	101,812	159	488
Bituminous coal	389,349	346,346	368,339	322,150	263,991	218,197	230,837	244,735	103,012	115,283	26,440	261,817	144,870	51,308
Coke	26,895	19,798	19,127	14,536	9,872	7,346	9,173	10,136	7,276	1,375	1,485	11,147	2,092	2,297
Iron ore	84,433	72,134	82,123	59,980	31,073	5,440	26,526	27,942	1,789	1,167	24,986	17,547	1,676	25,450
Copper ore and concentrates	21,550	12,289	7,057	4,525	3,903	1,658	1,545	1,680	1	5	1,674	55	62	1,735
Other ores and concentrates			7,714	6,957	4,664	2,599	2,803	3,634	1,105	423	2,106	2,767	1,002	3,696
Gravel, sand, and stone [3]	98,720	145,405	121,559	112,196	84,058	47,138	36,706	46,015	13,834	10,508	21,673	17,653	12,935	27,125
Crude petroleum	6,435	11,245	6,630	6,598	7,448	2,803	4,702	3,381	705	58	2,618	934	170	4,826
Asphaltum	1,424	2,531	3,196	2,925	2,746	2,583	2,407	2,729	1,708	420	601	2,889	759	1,319
Salt	3,250	3,403	3,183	2,952	2,834	2,576	2,728	2,822	1,289	25	1,508	3,343	926	3,177
Phosphate rock, crude	6,997	6,925	5,165	5,712	3,930	2,891	3,817	4,403	33	4,325	45	137	4,710	69
Sulphur			2,253	1,934	1,259	961	1.590	1,469	173	43	1,253	335	177	1,780
Other products of mines [3]			39,602	30,820	20,452	12,353	15,764	18,804	11,935	2,553	4,316	20,370	4,436	6,099
Products of forests, total	100,766	107,391	94,855	69,371	43,024	26,109	33,165	35,650	3,675	10,759	21,216	14,353	17,198	32,648
Logs, posts, poles, piling, and cordwood	38,571	45,428	39,611	28,451	14,792	7,781	11,245	12,820	418	2,314	10,088	1,130	2,780	11,404
Ties	5,472	4,292	4,024	3,522	1,527	958	1,174	1,711	287	724	700	653	934	930
Pulp wood	4,992	5,826	6,781	6,524	4,797	3,309	4,142	4,719	978	1,204	2,537	1,820	1,817	3,361
Lumber, shingles, lath, cooperage materials, veneer, etc	48,618	49,019	40,937	27,800	19,497	12,418	14,491	14,178	1,195	5,564	7,419	8,534	10,217	16,199
Other forest products	3,112	2,826	3,502	3,074	2,411	1,643	2,113	2,222	797	953	472	2,216	1,450	754

Manufactures and miscellaneous, total	251, 864	285, 291	330, 064	277, 765	207, 366	143, 682	157, 009	179, 253	100, 508	23, 043	55, 702	185, 474	43, 172	110, 489
Refined petroleum and its products	29, 616	46, 273	64, 240	62, 901	55, 615	46, 707	45, 464	49, 666	19, 687	5, 668	24, 311	32, 338	11, 465	46, 373
Vegetable oils	938	1, 446	1, 733	1, 602	1, 428	1, 333	1, 314	1, 405	341	465	599	1, 117	912	1, 082
Sugar, sirup, glucose, and molasses	5, 664	5, 700	5, 858	5, 659	5, 142	4, 286	4, 779	5, 059	1, 406	736	2, 917	2, 631	1, 930	5, 415
Iron, pig [4]	16, 451	14, 577	8, 000	5, 140	3, 139	1, 424	2, 689	2, 548	1, 739	561	248	2, 712	773	546
Scrap iron and steel	(5)	(5)	13, 527	9, 901	6, 032	3, 444	5, 993	7, 173	5, 244	738	1, 191	7, 983	1, 204	1, 670
Iron and steel (6th class, n. o. s.)	(5)	(5)	5, 746	3, 680	2, 081	1, 298	2, 313	2, 597	2, 544	27	26	3, 228	68	59
Rails, fastenings, frogs, and switches [6]	3, 047	2, 646	2, 658	1, 778	1, 063	419	521	1, 032	806	79	147	1, 225	211	449
Iron and steel pipes and fittings [7]	27, 443	29, 144	7, 670	6, 442	4, 101	1, 789	1, 955	2, 708	1, 861	382	465	3, 569	835	1, 995
Iron and steel (5th class, n. o. s.) [7]			37, 427	26, 745	16, 877	9, 386	13, 475	15, 526	13, 780	655	1, 091	22, 293	1, 908	4, 166
Iron and steel nails and wire	(5)	(5)	1, 873	1, 372	1, 015	669	1, 040	1, 024	745	68	211	1, 341	214	457
Copper: Ingot, matte, and pig	5, 170	5, 419	1, 108	665	352	162	215	229	138	9	82	476	11	379
Lead and zinc: Ingot, pig, or bar			1, 338	1, 124	908	592	723	833	330	6	497	964	116	1, 083
Other metals: pig, bar, sheet, etc			525	379	306	118	181	261	97	2	162	248	15	221
Machinery and boilers [8]	9, 391	5, 359	3, 931	3, 072	1, 943	1, 072	1, 122	1, 310	926	93	291	1, 918	373	734
Cement	15, 400	24, 516	25, 008	23, 180	18, 392	11, 201	9, 509	11, 670	5, 257	1, 579	4, 834	10, 519	3, 152	7, 361
Brick and artificial stone	15, 251	19, 668	17, 216	12, 595	7, 723	3, 574	3, 516	3, 970	2, 228	833	909	3, 948	1, 339	1, 628
Lime and plaster	4, 410	6, 830	4, 803	3, 452	2, 600	1, 690	1, 681	1, 844	1, 057	235	502	1, 986	753	1, 129
Sewer pipe and drain tile	2, 165	2, 426	2, 708	1, 946	1, 197	624	537	716	406	141	169	861	280	294
Agricultural implements and vehicles other than automobiles [9]	3, 324	2, 281	2, 136	1, 657	766	304	353	634	177	73	384	399	223	768
Automobiles, autotrucks, parts, tires, etc	3, 427	6, 980	10, 423	6, 624	4, 286	2, 317	3, 144	5, 087	4, 135	230	722	7, 958	1, 249	3, 080
Furniture	743	970	1, 102	733	564	353	393	375	126	124	125	469	312	321
Beverages	1, 240	841	774	893	654	351	1, 170	1, 957	624	154	1, 179	1, 453	454	2, 093
Ice	5, 795	4, 928	3, 310	2, 578	2, 262	1, 464	1, 054	1, 054	305	123	626	338	133	663
Fertilizers	9, 204	8, 463	13, 276	12, 302	8, 524	5, 025	5, 137	6, 283	2, 058	3, 160	1, 065	3, 642	4, 783	2, 022
Printing paper [10]	3, 144	3, 328	3, 480	3, 399	2, 983	2, 397	2, 380	2, 408	1, 698	151	559	6, 595	460	1, 846
Chemicals and explosives [11]	8, 348	9, 579	3, 213	2, 672	2, 152	1, 579	1, 868	2, 101	1, 049	558	494	1, 737	1, 061	728
Textiles	805	966	941	710	613	493	581	512	124	298	90	464	643	242
Canned food products	3, 074	4, 144	5, 029	4, 751	3, 954	3, 167	3, 308	3, 816	1, 616	253	1, 947	4, 360	786	4, 062
Furnace slag	77, 814	78, 807	9, 835	11, 000	4, 401	2, 105	2, 016	2, 495	1, 891	559	45	2, 165	939	63
Paper board, pulpboard, and wall board (paper)			2, 511	2, 241	2, 037	1, 581	1, 874	1, 812	911	529	372	2, 268	985	826
Building paper and prepared roofing materials			2, 325	1, 687	1, 234	1, 102	1, 119	1, 184	723	121	340	1, 373	456	648
Other manufactures and miscellaneous			66, 338	54, 885	43, 022	31, 656	35, 535	39, 964	26, 479	4, 383	9, 102	52, 896	10, 129	18, 086
Merchandise—all l. c. l. freight	53, 202	40, 587	36, 043	29, 667	22, 774	15, 234	14, 351	14, 345	7, 309	3, 049	3, 987	14, 086	6, 341	6, 822

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

Source: Interstate Commerce Commission.

No. 431.—CAR LOADINGS: Average Weekly Loadings of Revenue Freight, Class I Railways, by Principal Commodity Groups

Note.—Averages for earlier years for all commodities are: 1918, 857,540; 1919, 804,472; 1920, 867,663; 1921, 756,215; 1922, 830,915; 1923, 957,925; 1924, 933,354; 1925, 985,080; 1926, 1,021,131; 1927, 992,996; 1928, 992,113; 1929, 1,015,922

Month	1930	1931	1932	1933	1934	1930	1931	1932	1933	1934
	Total, all commodities					Grain and grain products				
Year	882, 269	714, 447	541, 922	561, 924	592, 031	43, 565	38, 931	31, 796	31, 931	31, 572
January	849, 310	718, 303	566, 693	481, 052	544, 390	40, 282	40, 682	31, 010	26, 743	29, 202
February	876, 725	708, 530	560, 805	492, 642	577, 217	43, 889	41, 162	34, 250	25, 377	30, 089
March	878, 933	734, 232	570, 209	470, 904	611, 843	38, 982	38, 333	28, 891	27, 724	29, 639
April	904, 740	751, 573	554, 827	506, 391	583, 708	39, 126	37, 519	30, 827	35, 914	26, 482
May	918, 690	739, 696	522, 022	535, 798	610, 413	37, 646	35, 834	29, 220	37, 126	28, 102
June	929, 746	747, 988	491, 622	585, 249	615, 640	41, 519	35, 007	25, 334	38, 685	34, 859
July	888, 902	738, 472	484, 197	624, 598	586, 574	58, 326	54, 647	36, 963	44, 828	42, 737
August	934, 366	747, 627	516, 200	632, 785	604, 977	60, 788	44, 348	38, 543	29, 706	40, 058
September	931, 422	727, 068	573, 474	648, 170	628, 453	47, 203	37, 247	37, 561	31, 264	34, 765
October	950, 270	762, 632	633, 512	658, 120	632, 872	41, 597	38, 515	33, 527	29, 872	30, 576
November	797, 836	654, 827	547, 482	596, 414	588, 307	36, 487	36, 202	27, 809	30, 949	27, 773
December	695, 396	554, 957	496, 656	517, 447	518, 416	35, 587	27, 145	26, 458	25, 997	25, 068
	Livestock					Coal				
Year	24, 714	22, 347	18, 256	17, 054	20, 654	152, 443	124, 869	102, 672	109, 512	117, 008
January	27, 229	25, 613	22, 070	17, 248	17, 497	196, 455	157, 380	115, 176	108, 568	129, 993
February	25, 183	22, 011	19, 034	15, 427	15, 278	166, 026	137, 136	114, 953	124, 641	143, 839
March	23, 056	19, 827	16, 532	13, 411	13, 446	137, 296	130, 954	121, 254	92, 322	145, 908
April	24, 102	21, 779	18, 699	16, 880	16, 269	132, 818	116, 075	92, 291	78, 865	100, 283
May	23, 444	20, 407	17, 146	16, 541	16, 241	138, 261	113, 882	74, 626	80, 844	106, 804
June	21, 598	18, 621	14, 912	15, 476	15, 439	135, 256	110, 620	66, 698	96, 320	100, 330
July	20, 074	18, 098	14, 381	14, 955	22, 194	130, 606	110, 307	72, 259	112, 848	93, 195
August	21, 108	21, 731	16, 871	16, 653	30, 912	145, 740	118, 660	84, 616	125, 051	95, 874
September	26, 959	24, 091	20, 750	20, 289	34, 108	151, 277	124, 251	108, 834	126, 614	116, 118
October	32, 277	29, 014	23, 699	23, 221	28, 465	174, 528	145, 437	136, 577	126, 754	120, 976
November	26, 860	25, 902	19, 012	20, 451	22, 504	158, 748	121, 376	122, 823	127, 068	123, 563
December	23, 389	20, 958	16, 608	15, 087	16, 320	151, 001	115, 413	125, 027	115, 962	122, 903
	Coke					Ore				
Year	9, 382	6, 245	4, 303	5, 736	6, 438	31, 955	16, 821	4, 046	14, 292	15, 282
January	11, 346	8, 998	5, 656	5, 208	7, 741	8, 268	5, 206	2, 949	1, 872	3, 110
February	11, 399	8, 744	6, 234	6, 285	10, 064	8, 641	5, 567	2, 699	1, 864	3, 114
March	9, 982	7, 889	6, 090	4, 381	8, 933	9, 103	5, 830	2, 647	2, 113	3, 725
April	10, 020	7, 007	3, 830	3, 352	5, 779	12, 701	7, 993	3, 424	3, 369	7, 367
May	9, 674	6, 486	3, 136	3, 834	6, 836	50, 951	17, 320	2, 583	7, 864	20, 712
June	9, 463	5, 488	2, 887	5, 389	6, 796	62, 528	29, 789	3, 547	13, 132	33, 106
July	8, 438	4, 813	2, 573	6, 498	4, 396	61, 250	34, 859	6, 030	24, 962	31, 346
August	8, 312	4, 555	2, 712	6, 712	4, 128	56, 956	35, 000	7, 111	36, 180	28, 960
September	8, 203	4, 783	3, 669	7, 030	5, 232	48, 780	30, 270	6, 065	39, 011	24, 379
October	8, 876	5, 562	4, 890	6, 762	5, 622	37, 824	20, 372	6, 521	29, 882	17, 135
November	8, 047	5, 318	4, 751	6, 478	5, 443	14, 295	6, 273	2, 951	8, 316	6, 474
December	8, 549	5, 758	5, 597	6, 748	5, 982	5, 620	3, 505	1, 748	2, 938	3, 149
	Forest products					Miscellaneous and L. C. L.				
Year	45, 564	28, 296	17, 292	21, 170	22, 060	574, 646	476, 938	363, 558	362, 229	379, 018
January	46, 173	33, 115	18, 358	13, 946	18, 322	519, 557	447, 308	371, 474	307, 467	338, 526
February	57, 704	34, 586	19, 266	13, 800	21, 756	563, 884	459, 322	364, 370	305, 247	353, 078
March	58, 076	34, 390	20, 018	15, 313	23, 664	602, 438	497, 010	374, 778	315, 641	386, 528
April	57, 436	32, 836	19, 707	17, 456	24, 190	628, 528	528, 363	386, 048	350, 555	403, 338
May	52, 941	32, 912	18, 695	21, 019	25, 145	605, 772	512, 854	376, 617	368, 570	406, 572
June	49, 657	31, 203	16, 810	26, 004	24, 616	609, 725	517, 260	361, 434	390, 242	400, 494
July	39, 956	26, 641	14, 555	26, 916	20, 782	570, 154	489, 107	337, 436	393, 591	371, 924
August	41, 421	27, 588	15, 490	27, 671	22, 336	600, 041	495, 746	350, 856	390, 812	382, 710
September	40, 391	26, 053	17, 552	25, 070	21, 956	608, 519	480, 373	379, 044	398, 891	391, 894
October	39, 367	24, 482	18, 849	24, 794	22, 376	616, 007	499, 251	409, 450	416, 835	407, 723
November	33, 970	21, 822	16, 051	23, 637	21, 185	519, 428	437, 936	354, 087	379, 516	381, 365
December	30, 263	16, 986	13, 196	18, 385	18, 312	440, 988	365, 190	308, 023	332, 331	326, 683

Source: Association of American Railroads.

No. 432.—STEAM RAILWAY ACCIDENTS, BY CAUSES

NOTE.—See headnote to table 433

Cause of accident	Killed					Injured				
	1926–1930, average	1931	1932	1933	1934	1926–1930, average	1931	1932	1933	1934
All accidents	6,480	5,099	4,747	5,019	4,879	89,404	35,656	29,219	27,494	28,631
Train accidents	308	229	183	218	256	2,985	1,208	997	1,365	1,000
Passengers on trains	30	4	1	23	12	1,455	493	410	657	394
Travelers not on trains				------	------				------	2
Employees	164	95	63	66	97	1,132	434	335	362	361
Other persons	114	130	119	129	147	398	281	252	346	243
Causes:										
Collisions	89	39	34	33	33	1,391	485	358	635	263
Passengers on trains	11	1	1	14	------	710	244	192	415	98
Travelers not on trains				------	------				------	1
Employees	70	33	30	16	30	526	188	125	137	126
Other persons	8	5	3	3	3	155	53	41	83	38
Derailments	139	108	77	127	142	1,379	583	526	610	601
Passengers on trains	18	3	------	9	12	718	232	203	236	276
Travelers not on trains				------	------				------	1
Employees	66	43	26	45	59	487	190	171	190	176
Other persons	55	62	51	73	71	173	161	152	184	148
Other causes	81	82	72	58	81	215	140	113	120	136
Passengers on trains	1	------	------	------	------	27	17	15	6	20
Travelers not on trains									------	------
Employees	28	19	7	5	8	119	56	39	35	59
Other persons	52	63	65	53	73	69	67	59	79	57
Train-service accidents	5,796	4,624	4,341	4,598	4,396	35,395	18,849	16,160	15,107	15,446
Passengers on trains	63	36	22	15	15	2,208	1,609	1,501	1,315	1,476
Travelers not on trains				10	8				84	68
Employees	940	419	383	354	338	23,275	9,142	6,948	6,104	6,442
Other persons	4,793	4,169	3,936	4,219	4,035	9,912	8,098	7,711	7,604	7,460
Causes:										
Coupling or uncoupling locomotives or cars	48	12	20	12	17	1,124	394	307	246	254
Coupling or uncoupling air hose	19	13	9	11	7	353	175	123	131	132
Operating locomotives	16	7	6	5	6	3,731	1,406	1,042	834	909
Operating hand brakes	30	18	12	15	14	1,875	824	593	514	514
Operating switches	1	------	2	------	1	747	245	210	176	192
Contact with fixed structures	57	60	71	64	54	534	335	284	284	201
Getting on or off cars or locomotives	419	447	520	516	417	7,084	4,096	3,946	3,785	3,358
Highway grade-crossing accidents [1]	2,315	1,720	1,445	1,446	1,442	6,400	4,533	3,911	3,607	4,182
Struck or run over, not at public crossings	2,267	1,730	1,590	1,792	1,725	1,721	1,022	911	958	994
Miscellaneous	625	617	666	737	713	11,824	5,819	4,833	4,572	4,710
Nontrain accidents	376	246	223	203	227	51,024	15,599	21,062	11,022	12,185
Passengers on trains	2	1	5	------	------	595	587	455	------	------
Travelers not on trains				2	4				466	614
Employees	288	162	133	112	121	48,990	13,782	10,459	9,466	10,535
Other persons	85	83	85	89	102	1,440	1,230	1,148	1,090	1,036

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

Source: Interstate Commerce Commission.

No. 433.—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[1]		Employees		Other persons		Trespassers[2]	
	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	--------	--------
1906–1910	10,210	105,617	385	11,625	3,572	83,502	6,252	10,491	--------	--------
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	3,121
1923	7,385	171,712	143	6,463	2,026	152,678	2,397	9,279	2,819	3,297
1924	6,617	143,739	153	6,023	1,543	125,319	2,300	9,268	2,621	3,121
1925	6,766	137,435	176	5,643	1,599	119,224	2,347	9,640	2,644	2,926
1926	7,090	130,235	155	5,149	1,672	111,903	2,640	10,387	2,623	2,798
1927	6,821	104,799	82	4,560	1,566	88,223	2,519	9,020	2,654	2,992
1928	6,509	85,561	85	4,027	1,327	70,246	2,718	8,652	2,379	2,639
1929	6,496	76,995	100	4,371	1,424	60,739	2,665	9,308	2,307	2,578
1930	5,481	49,430	50	3,180	974	35,872	2,153	7,430	2,304	2,946
1931	5,099	35,656	41	2,689	676	23,358	1,981	6,288	2,401	3,326
1932	4,747	29,219	28	2,366	579	17,742	1,635	5,330	2,505	3,786
1933	5,019	27,494	50	2,522	532	15,932	1,611	5,043	2,826	3,997
1934	4,879	28,631	39	2,554	556	17,338	1,630	5,583	2,654	3,158

[1] Data cover passengers on trains and travelers not on trains.
[2] Trespassers included with "other persons" prior to 1922.

No. 434.—CONSUMPTION OF FUEL AND REPLACEMENTS OF RAILS AND TIES: CLASS I CARRIERS

NOTE.—Rails and ties laid in new construction are not included. A short ton is 2,000 pounds; a long ton, 2,240 pounds

	All districts			1933		
	1931	1932	1933	Eastern district	Southern district	Western district
Consumption of fuel by locomotives:						
Anthracite ... 1,000 short tons	543	327	478	478	--------	--------
Bituminou coal ... do	81,725	66,498	66,198	32,010	14,956	19,232
Fuel oil[1] ... 1,000 gallons	2,015,694	1,759,124	1,709,032	6,645	23,862	1,678,525
Hardwood[1] ... cords	5,072	3,028	1,865	768	1,096	1
Softwood[1] ... do	34,802	23,475	19,823	7,451	722	11,650
Total, coal equivalent[2] ... 1,000 short tons	94,924	77,859	77,384	32,533	15,099	29,752
Rails laid in replacement and betterment:						
Total tonnage ... 1,000 long tons	1,715	797	862	350	215	297
Total charges[3] ... 1,000 dollars	63,726	28,265	28,669	11,610	7,100	9,959
Ties laid in previously constructed tracks:						
Crossties ... thousands	51,501	39,190	37,296	8,353	10,367	18,576
Switch and bridge ties ... 1,000 board feet	188,595	140,566	134,149	39,320	40,858	53,971
Total charges[3] ... 1,000 dollars	73,415	50,940	44,195	14,383	9,833	19,979

[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.

Source of tables 433 and 434: Interstate Commerce Commission.

No. 435.—EXPRESS COMPANIES: INCOME ACCOUNT

NOTE.—In thousands of dollars. Mileage operated by express companies, 1934: Total, 267,545; steam road, 218,785; electric line, 2,481; steamboat line, 22,757; airplane, 15,507; stage line, 8,085. The Railway Express Agency, Inc., operates 257,466 miles, and the Southeastern Express Co., 10,079 miles

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.:									
1921	294,664	113,491	184,897	182,265	2,631	2,095	508	2,074	2,309
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 [4]	41,104	18,554	23,083	22,560	523	327	193	193	381
Railway Express Agency, Inc.:									
1929 [5]	242,216	127,591	117,628	115,535	2,093	1,343	734	687	20
1930	237,488	112,366	128,470	125,821	2,649	1,375	1,259	509	36
1931	192,044	81,221	113,997	111,181	2,816	1,343	1,457	302	4
1932	137,703	53,085	87,436	84,513	2,923	1,380	1,513	234	[6] *5*
1933	118,673	44,468	76,503	73,416	3,087	1,524	1,535	186	[6] *6*
1934	130,953	50,530	82,907	79,756	3,151	1,518	1,612	156	4
Southeastern Express Co.:									
1921 [7]	4,374	1,649	2,781	2,719	61	25	37	10	47
1925	8,041	3,912	4,241	4,086	155	86	67	20	87
1926	8,257	4,021	4,357	4,196	161	83	76	24	100
1927	8,176	3,971	4,342	4,188	154	88	62	28	90
1928	7,870	3,738	4,268	4,126	142	100	40	30	70
1929	8,007	3,900	4,244	4,098	146	110	35	38	73
1930	6,764	2,940	3,936	3,803	133	97	35	35	70
1931	5,603	2,117	3,585	3,443	142	89	51	17	68
1932	4,174	1,420	2,848	2,726	122	78	43	21	64
1933	4,326	1,537	2,905	2,769	136	94	38	15	53
1934	5,060	2,049	3,135	3,003	132	96	35	11	46

[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 deductions.
[4] Result of operations for 2 months ended Feb. 28, 1929.
[5] Result of operations for 10 months ended Dec. 31, 1929.
[6] Deficit.
[7] Result of operations for 8 months ended Dec. 31, 1921.

No. 436.—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
1915	38,723	467	1,954	26,633	11,716	12,090	10,816	24,252	12
Dec. 31:									
1918	49,967	--------	3,918	40,593	20,202	9,374	7,763	28,751	13
1919	69,071	--------	31	48,618	26,392	20,453	19,194	37,346	15
1920	72,124	--------	13,155	61,031	30,805	11,093	9,304	39,255	16
1921	64,439	--------	7,079	64,744	28,136	[3] *305*	[3] *3,277*	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
1930	76,234	--------	5,534	68,960	35,379	7,274	4,937	29,360	9
1931	62,558	--------	2,573	57,243	27,386	5,315	3,009	22,985	9
1932	43,366	--------	1,550	42,465	19,276	901	[3] *1,220*	15,750	8
1933	38,436	--------	1,325	37,888	16,358	548	[3] *564*	13,717	8
1934	44,070	--------	2,361	41,976	17,527	2,094	400	15,105	8

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

Source of tables 435 and 436: Interstate Commerce Commission.

No. 437.—THE ALASKA RAILROAD TRAFFIC: Analysis of Statistics of Passenger and Freight Services, Years Ended June 30

	1933	1934		1933	1934
Road mileage operated—monthly average	519.9	502	FREIGHT TRAFFIC		
PASSENGER TRAFFIC			Freight train-miles	60,334	67,148
Passenger train-miles [1]	63,864	66,304	Mixed train-miles	7,918	6,010
Mixed train-miles	7,918	6,010	Loaded cars, 1 mile, freight and mixed trains	1,019,786	1,124,200
Passenger car-miles, passenger trains [1]	165,133	172,399	Empty cars, 1 mile, freight and mixed trains	701,915	778,817
Passenger car-miles, mixed trains	7,918	5,816	All cars, 1 mile	1,721,701	1,903,017
Total revenue passengers carried	13,117	15,824	Tons of revenue freight carried:		
Revenue passengers carried 1 mile	1,683,818	2,004,534	Coal	72,007	65,009
Total passenger revenue	$121,120	$113,524	Miscellaneous	25,472	28,503
Average revenue per passenger per mile	$0.07193	$0.05663	Tons of revenue freight carried 1 mile	15,809,158	16,128,792
			Total freight revenue	$890,249	$964,918
			Average revenue per ton per mile	$0.05631	$0.05983

[1] Including motor miles.

Source: Department of the Interior.

No. 438.—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	1912	1917	1922	1927	1932
Number of companies	789	987	1,260	[1] 1,307	[1] 1,200	[1] 963	[1] 706
Miles of all track operated	8,123	22,577	41,065	44,835	43,932	40,722	31,548
Operated by:							
Electricity	1,262	21,902	40,808	44,677	43,789	40,585	31,432
Cable	488	241	56	45	46	43	39
Animal traction	5,661	259	58	11	4	----------	----------
Steam	711	170	76	41	1	17	72
Gasoline-engine cars	----------	[2] 6	66	56	[3] 86	[3] 77	4
Gravity	----------	----------	----------	6	6	----------	----------
Value of road and equipment (thousand dollars)	389,357	2,167,634	4,596,563	5,136,442	5,058,762	([4])	4,143,381
Number of employees	70,764	140,769	282,461	294,826	[5] 300,523	[5] 267,115	182,165
Number of passenger cars	32,505	60,290	76,162	79,914	77,301	70,309	59,692
Revenue passengers, including pay transfer [6] (thousands)	2,023,010	4,774,212	9,545,555	11,304,660	12,666,558	12,174,592	7,955,981
Operating revenues (thousand dollars)	90,617	247,554	567,512	709,825	1,016,719	927,774	566,290
Operating expenses (thousand dollars)	62,011	142,313	332,896	452,595	727,795	694,460	442,607
Operating ratio (per cent)	68.4	57.5	58.7	63.8	71.6	74.9	78.2

[1] Includes companies maintaining separate organizations, though leased to and controlled through stock ownership by other companies, largely in Pennsylvania. In 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] Includes 404 motor-bus employees for 1922 and 2,540 for 1927.

[6] Not including motor-bus passengers.

Source: Bureau of the Census, Department of Commerce

No. 439.—ELECTRIC RAILWAYS: Mileage, Equipment, Output of Electricity, Traffic, Employees, and Salaries and Wages

Note.—See headnote to table 438

	All companies					Surface lines	
	1912	1917	1922	1927	1932	1927	1932
Number of operating companies	975	943	858	682	485	678	478
Miles of all track [1]	41,065	44,835	43,932	40,722	31,548	39,851	30,519
First track (length of line)	30,438	32,548	31,264	27,948	20,110	27,667	19,783
Second and other tracks	10,627	12,288	12,668	12,775	11,437	12,184	10,736
Electric track with:							
Overhead trolley	38,958	42,491	41,418	[2] 38,246	[2] 29,448	[2] 38,225	[2] 29,379
Third rail and conduit trolley	1,747	2,051	2,314	2,270	[2] 1,886	1,419	[2] 927
Other (electric)	103	137	78	[2] 95	[2] 102	[2] 95	[2] 102
Number of cars	94,016	102,603	99,255	93,246	79,984	84,592	67,339
Passenger	76,162	79,914	77,301	70,309	59,692	61,881	50,593
Express, freight, and mail	7,794	11,534	11,406	13,337	12,509	13,337	9,266
Service cars	10,060	11,155	10,548	9,600	7,783	9,374	7,480
Number of electric locomotives	277	357	404	462	609	456	464
Horsepower of power-plant equipment [3] [4]	3,661,385	4,200,192	4,119,306	2,025,821	1,530,395	(5)	1,030,395
Steam turbines	1,462,800	2,322,692	2,856,006	1,561,457	1,244,423	(5)	864,423
Other steam engines [4]	1,703,088	1,221,223	827,027	420,889	252,422	(5)	132,422
Internal-combustion engines	24,190	28,294	32,495	7,700	3,500	(5)	3,500
Water wheels and turbines	471,307	627,983	403,778	35,775	30,050	(5)	30,050
Kilowatt capacity of generators [3]	2,505,316	2,924,779	2,972,834	1,470,904	1,126,714	(5)	751,714
Electric energy (1,000 kilowatt-hours) [3]	9,020,018	12,187,851	12,405,053	9,389,597	7,343,517	(5)	5,935,176
Generated [3]	6,002,659	7,240,503	6,473,451	2,975,863	2,433,176	(5)	1,265,000
Purchased	3,017,359	4,947,348	5,931,602	6,413,734	4,910,341	(5)	4,670,175
Passengers carried (thousands) [6]	12,135,342	14,506,915	15,331,400	14,901,435	9,888,535	12,678,849	7,849,091
Revenue passengers, including pay transfer	9,545,555	11,304,661	12,666,558	12,174,592	7,955,981	9,953,798	5,922,363
Free-transfer passengers	2,423,918	3,021,138	2,496,570	2,571,249	1,827,533	2,570,937	1,827,308
Free passengers	165,869	181,116	168,272	155,594	105,022	154,114	99,420
Revenue car mileage (thousands)	1,921,620	2,139,802	2,124,523	2,163,773	1,690,194	1,786,560	1,293,314
Passenger	1,885,870	2,087,819	2,068,294	2,084,566	1,650,726	1,707,353	1,253,846
Express, freight, and mail	35,750	51,983	56,229	79,207	39,468	79,207	39,468
Average number of revenue passengers:							
Per mile of all track [7]	232,556	252,323	288,600	299,733	271,258	259,826	208,433
Per passenger-car hour	48.38	53.69	61.14	59.68	54.33	57.66	48.70
Revenue car-hours (thousands)	190,478	203,057	201,838	202,513	148,649	178,837	123,806
Passenger	187,590	199,053	197,146	196,464	146,443	172,788	121,600
Express, freight, and mail	2,888	4,004	4,692	6,049	2,206	6,049	2,206
Salaried employees:							
Number	23,271	27,151	30,239	27,845	20,260	26,374	18,448
Salaries (thousand dollars)	26,129	33,910	57,489	56,647	40,147	52,770	35,621
Wage earners:							
Number	259,190	267,675	270,284	239,270	161,905	211,315	131,923
Wages (thousand dollars)	174,762	233,331	388,191	385,305	241,686	338,022	191,224
Conductors, motormen, and bus operators:							
Number	131,321	136,184	130,628	115,720	78,928	111,220	74,173
Wages (thousand dollars)	95,452	127,222	205,238	200,963	121,752	191,476	112,475
Other wage earners:							
Number	127,869	131,491	139,656	123,550	82,977	100,095	57,750
Wages (thousand dollars)	79,311	106,109	182,953	184,341	119,934	146,546	78,749

[1] Mileage expressed in nearest mile. Figures include track lying outside the United States (1912, 32 miles; 1917, 1922, and 1927, 27 miles; 1932, 24 miles).

[2] In 1927 overhead trolley includes 25 miles of surface lines operated by both overhead trolley and gas-electric motor cars; in 1932, includes 2 miles operated by both overhead trolley and conduit and 2 miles operated by both overhead trolley and oil-electric motor cars.

[3] Figures for power-plant equipment, capacity of generators, and output of stations in 1927 and 1932 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 and 1932. These are included in the statistics for "Central Electric Light and Power Stations". The number of companies that reported power-plant equipment in 1912 was 494; in 1917, 355; in 1922, 232; in 1927, 70; in 1932, 39.

[4] Includes 33 units with 41,100 horsepower of idle equipment in 1927 and 18 units with 63,167 horsepower of idle equipment in 1932.

[5] Not shown separately.

[6] Not including passengers carried by motor busses operated by electric railway companies (16,120,000 in 1922; 214,694,000 in 1927; 880,543,000 in 1932).

[7] Exclusive of idle track and freight and switching roads for all years except 1932.

Source: Bureau of the Census, Department of Commerce.

No. 440.—ELECTRIC RAILWAYS:

NOTE.—See headnote to table 438. 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 Revenue car 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)					
							1927		1932 [3]	
	1912	1922	1927	1932	1912	1922 [2]	Car lines	Motor-bus lines	Car lines	Motor-bus lines
United States	**41,033**	**43,905**	**40,696**	**31,524**	**9,545,555**	**12,679,349**	**12,174,592**	**167,781**	**7,955,981**	**753,784**
New England	**5,299**	**5,049**	**3,931**	**2,443**	**1,051,162**	**1,137,106**	**910,455**	**54,621**	**530,912**	**132,201**
Maine	530	566	501	276	47,049	50,010	32,499	75	14,403	(4)
N. Hampshire	268	263	156	90	23,673	19,650	10,807	113	4,839	--------
Vermont	121	117	63	17	8,136	6,950	3,691	70	(5)	--------
Massachusetts	2,951	2,688	2,071	1,305	705,918	732,447	604,951	45,916	368,294	88,053
Rhode Island	435	403	304	183	94,086	143,009	105,210	8,447	[5] 143,376	[4] 44,148
Connecticut	993	1,011	836	572	172,300	185,040	153,297	--------		
Middle Atlantic	**10,064**	**10,519**	**9,473**	**6,922**	**3,513,721**	**4,978,230**	**5,172,379**	**174**	**3,840,352**	**305,069**
New York	4,486	4,737	4,348	3,243	2,126,964	3,090,878	3,407,410	162	2,900,373	49,826
New Jersey	1,309	1,342	1,093	716	356,858	466,819	406,444	12	175,170	255,243
Pennsylvania	4,270	4,440	4,032	2,963	1,029,899	1,420,533	1,358,525	--------	764,809	--------
E. N. Central	**11,884**	**12,431**	**11,802**	**8,183**	**2,159,621**	**2,981,417**	**2,886,084**	**55,906**	**1,726,160**	**148,358**
Ohio	3,999	3,974	3,486	2,513	632,332	872,164	726,069	24,552	420,642	59,764
Indiana	2,323	2,305	2,330	1,583	173,019	241,873	201,070	7,580	97,838	10,302
Illinois	3,186	3,416	3,298	2,456	932,668	1,128,105	1,257,594	10,282	821,250	16,665
Michigan	1,526	1,817	1,779	879	286,956	557,900	521,774	1,920	269,864	36,560
Wisconsin	849	919	909	751	134,646	181,375	179,577	11,572	116,566	25,067
W. N. Central	**3,031**	**3,604**	**3,556**	**3,149**	**787,301**	**942,867**	**758,333**	**3,399**	**402,737**	**30,176**
Minnesota	538	681	723	616	186,918	262,781	207,476	--------	121,286	(7)
Iowa	784	999	982	891	93,418	95,494	66,883	1,675	32,169	4,948
Missouri	959	1,098	1,054	956	402,210	464,603	407,210	407	208,325	15,192
North Dakota	19	21	19	13	2,862	3,378	2,893	--------	1,331	(7)
South Dakota	22	17	16	--------	1,657	2,023	736	510	--------	--------
Nebraska	214	206	192	157	64,709	76,846	51,890	132	30,119	[7] 4,175
Kansas	494	581	570	516	35,527	37,742	21,245	675	9,507	5,861
South Atlantic	**2,900**	**3,191**	**3,063**	**2,734**	**616,725**	**830,514**	**743,305**	**9,401**	**416,799**	**46,573**
Delaware	99	96	83	59	18,024	20,860	18,961	--------	221,417	10,614
Maryland	720	758	731	667	186,828	248,594	227,918	--------		
Dist. of Col	188	199	185	187	114,100	156,242	136,888	7,459		
Virginia	561	554	541	486	91,980	116,289	100,751	--------	62,607	26,275
West Virginia	330	422	381	340	52,842	91,079	71,163	--------	32,545	(11)
N. Carolina	190	216	205	190	21,241	29,964	25,443	--------	13,946	2,881
S. Carolina	228	301	286	246	17,873	20,211	10,255	--------	5,954	2,071
Georgia	417	449	425	360	86,601	105,958	98,564	265	52,279	[11] 2,628
Florida	165	197	226	199	27,236	41,317	53,362	1,677	28,051	2,104
E. S. Central	**1,291**	**1,477**	**1,378**	**1,196**	**268,785**	**308,021**	**311,351**	--------	**174,892**	**7,204**
Kentucky	502	517	489	462	103,512	115,594	117,894	--------	68,547	5,587
Tennessee	361	495	507	403	91,896	110,369	103,984	--------	64,629	
Alabama	309	368	335	304	62,494	73,646	85,463	--------	40,101	1,617
Mississippi	119	98	47	27	10,883	8,412	4,010	--------	1,615	
W. S. Central	**1,372**	**1,724**	**1,773**	**1,559**	**270,746**	**382,087**	**352,541**	**14,305**	**182,589**	**31,928**
Arkansas	114	120	122	106	24,304	29,954	25,887	28	13,725	5,700
Louisiana	285	305	284	201	94,053	128,337	123,491	3,683	70,104	
Oklahoma	252	324	334	368	22,121	36,260	23,808	4,178	10,995	3,131
Texas	721	975	1,033	884	130,268	187,536	179,355	6,416	87,765	23,097
Mountain	**1,048**	**1,291**	**1,137**	**1,043**	**154,224**	**148,748**	**118,004**	**1,283**	**58,625**	**2,579**
Montana	99	111	109	190	15,351	15,255	14,108	--------	3,757	1,794
Colorado	468	431	356	308	86,597	81,613	64,865	591	34,063	
New Mexico	11	11	11	--------	951	1,425	516	--------	--------	
Arizona	46	44	37	22	4,554	5,474	5,432	--------	(13)	
Idaho	129	149	121	46	4,170	3,256	837	--------	--------	--------
Wyoming	23	23	--------	--------	1,399	684	--------	--------	--------	--------
Nevada	11	5	5	--------	750	480	351	--------	--------	--------
Utah	260	517	498	476	40,452	40,561	31,895	692	[13] 20,805	785
Pacific	**4,146**	**4,619**	**4,583**	**4,295**	**723,270**	**970,359**	**922,140**	**28,692**	**622,915**	**49,696**
Washington	991	954	904	727	126,687	143,429	118,303	5,570	71,429	14,531
Oregon	549	612	548	560	75,842	71,804	60,471	2,652	45,334	
California	2,605	3,053	3,131	3,008	520,741	755,126	743,366	20,470	506,152	35,165

[1] Mileage figures expressed to nearest mile, original figures to nearest hundredth.
[2] Includes motor-bus operations.
[3] Includes trolley-bus operations.
[4] Data for Maine, Rhode Island, and Connecticut combined.
[5] Data for Vermont, Rhode Island, and Connecticut combined.
[6] Data for Rhode Island included with Massachusetts.
[7] Data for Minnesota, North Dakota, and Nebraska combined.

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 and successor companies are not included.

Passenger revenue of companies domiciled in State (thousands of dollars)					Revenue car-miles operated by companies domiciled in State (thousands)					Division and State
	1927		1932 [2]			1927		1932 [2]		
1922 [2]	Car lines	Motor-bus lines	Car lines	Motor-bus lines	1922 [2]	Car lines	Motor-bus lines	Car lines	Motor-bus lines	
854,663	834,601	14,578	518,060	55,428	2,124,523	2,163,773	65,068	1,681,491	273,618	U.S.
87,704	79,752	4,607	43,262	10,400	173,083	154,549	15,971	106,242	40,904	N.E.
4,243	3,060		1,437	(4)	11,027	9,485	174	6,814	(4)	Maine.
1,585	924	44	410	--------	4,006	2,767	71	1,838	--------	N.H.
451	258		(5)	--------	1,406	980	30	(5)	--------	Vt.
58,521	55,198	[6] 4,563	31,692	7,142	105,162	96,723	13,166	68,819	26,444	Mass.
22,904	20,312	(6)	[5] 9,723	[4] 3,258	16,244	13,932	2,530	[5] 28,771	[4] 14,460	R.I.
		--------			35,238	30,662	--------			Conn.
297,560	308,687	17	219,363	19,288	710,550	755,120	55	664,046	75,473	M. A.
168,451	186,692	16	152,936	3,284	442,114	496,910	51	492,408	9,757	N.Y.
30,863	21,743	1	9,184	16,004	69,214	52,179	4	23,459	65,716	N.J.
98,246	100,252	--------	57,243	--------	199,222	206,031	--------	148,179	--------	Pa.
213,365	211,622	5,061	117,259	11,823	546,337	571,510	22,683	385,595	65,214	E. N. C.
55,359	50,309	1,989	25,743	3,980	141,247	136,400	7,081	83,663	20,851	Ohio.
20,286	18,579	513	7,399	1,023	58,552	63,782	4,043	41,971	7,566	Ind.
93,817	100,278	1,007	63,817	1,354	230,127	256,985	4,310	194,267	9,811	Ill.
31,473	29,186	196	12,896	3,353	83,571	78,929	1,316	37,936	16,383	Mich.
12,430	13,270	1,356	7,404	2,113	32,840	35,414	5,933	27,758	10,603	Wis.
66,880	56,599	394	34,188	2,497	174,012	159,097	2,303	122,072	16,985	W. N. C.
15,850	14,379	--------	9,387	(7)	36,066	35,546	--------	29,403	(7)	Minn.
7,850	5,968	175	2,652	366	29,152	23,892	783	15,881	3,109	Iowa.
34,137	30,106		18,660	1,344	80,738	76,702	180	61,094	7,192	Mo.
342	382	[8] 167	(9)	(7)	926	951	--------	737	(7)	N.Dak.
			--------	--------	579	368	879	--------	--------	S.Dak.
4,930	3,695	12	[9] 2,646	[7] 375	13,980	11,291	65	7,911	[7] 2,886	Nebr.
3,771	2,069	40	843	412	12,571	10,347	396	7,046	3,798	Kans.
58,863	54,733	[10] 749	32,931	3,259	153,154	151,263	3,812	119,933	20,994	S. A.
		--------			3,883	3,649	--------			Del.
30,995	29,164	--------	19,510	860	42,401	40,387	--------	53,919	5,617	Md.
		(10)			21,037	20,082	2,775			D.C.
7,540	6,979	--------	3,871	1,691	24,312	24,632	--------	17,781	8,975	Va.
6,570	5,761	--------	2,527	(11)	15,238	15,504	--------	11,934	(11)	W.Va.
2,068	1,708	--------	913	176	6,887	6,595	--------	5,641	1,418	N.C.
1,755	751	--------	395	143	7,719	7,399	--------	6,283	1,367	S.C.
7,521	6,991	(10)	4,057	[11] 207	22,619	21,429	150	15,888	[11] 2,007	Ga.
2,414	3,379	(10)	1,658	182	9,058	11,586	887	8,487	1,610	Fla.
20,840	20,541	--------	11,880	562	58,389	59,504	--------	47,455	4,303	E. S. C.
7,643	7,764	--------	4,879	450	20,372	21,480	--------	17,496	2,755	Ky.
7,735	7,252	--------	4,450		19,122	20,635	--------	16,248		Tenn.
4,812	5,270	--------	2,450	112	15,820	15,910	--------	12,539	1,548	Ala.
650	255	--------	101		3,075	1,479	--------	1,172		Miss.
29,529	27,562	1,094	13,301	2,645	80,091	82,050	5,215	59,200	18,914	W. S. C.
1,781	1,530	3	794	382	5,735	6,371	26	5,138	2,380	Ark.
9,388	8,554	265	4,819		20,429	18,239	1,123	13,509		La.
3,127	2,443	301	1,040	269	9,356	9,017	1,416	7,548	2,374	Okla.
15,233	15,035	525	6,648	1,994	44,571	48,423	2,650	33,005	14,160	Tex.
11,459	9,072	136	4,613	211	32,739	32,187	723	21,404	2,029	Mt.
951	859	--------	237		2,979	3,090	--------	2,344		Mont.
6,222	4,898	(12)	2,834	144	15,746	15,152	259	10,639	1,368	Colo.
382	447	--------	--------		410	334	--------	--------		N.Mex.
		--------	(13)		981	1,096	--------	(13)		Ariz.
388		--------	--------	--------	1,323	770	--------	--------	--------	Idaho.
		--------	--------	--------	253	--------	--------	--------	--------	Wyo.
		--------	--------	--------	108	80	--------	--------	--------	Nev.
3,516	2,868	[12] 136	[13] 1,542	67	10,939	11,665	464	[13] 8,421	661	Utah.
68,463	66,033	2,520	41,263	4,743	196,168	198,493	14,306	155,544	23,302	Pac.
12,273	10,587	972	5,385	1,949	36,299	32,273	3,953	23,558	11,527	Wash.
6,285	5,147		3,189		21,341	20,192	1,313	15,165		Oreg.
49,905	50,299	1,548	32,689	2,794	138,528	146,028	9,040	116,821	17,275	Calif.

[8] Data for Missouri and South Dakota.
[9] Data for North Dakota included with Nebraska.
[10] Figures for South Atlantic division represent District of Columbia, Georgia, and Florida.
[11] Data for West Virginia and Georgia combined.
[12] Data for Colorado included with Utah.
[13] Data for Arizona included with Utah.

Source: Bureau of the Census, Department of Commerce.

No. 441.—ELECTRIC RAILWAYS: INCOME ACCOUNT OF OPERATING COMPANIES

NOTE.—See headnote to Table 438

[All figures except percentages in thousands of dollars]

	All companies				Surface lines		Motor-bus lines	
	1913	1922	1927	1932	1927	1932	1927	1932
Gross operating revenue	567, 511	1,016,719	[1] 927, 774	[1] 566, 749	798, 754	447, 628	68, 121	99, 867
Railway operations	535, 996	925, 477	918, 869	566, 290	789, 849	447, 169	68, 121	99, 884
Passenger	502, 652	854, 663	834, 601	518, 060	713, 288	408, 431	65, 490	95, 851
Baggage, express, and milk	3, 688	5, 285	4, 271	1, 328	4, 271	1, 328	} 1, 763	2, 478
Freight	10, 165	31, 560	39, 125	17, 647	39, 125	16, 657		
Other railway operations	19, 491	33, 969	40, 873	29, 255	33, 165	20, 753	868	1, 555
Auxiliary operations	31, 515	91, 242	[1] 8, 905	[1] 459	8, 905	459	--------	[2] 3
Operating expenses (total)	332, 896	727, 795	[1] 694, 460	[1] 442, 993	616, 258	364, 269	66, 002	94, 618
Railway operating expenses	318, 700	678, 563	686, 638	442, 607	608, 436	363, 883	65, 771	94, 618
Way and structures	44, 270	102, 003	96, 285	61, 000	85, 807	48, 674	} 23, 717	30, 134
Equipment	38, 717	87, 237	92, 865	55, 921	79, 249	43, 993		
Power	53, 599	107, 246	98, 602	70, 647	84, 508	56, 420	} 42, 054	64, 484
Conducting transportation	[3] 129, 205	286, 690	294, 322	186, 515	262, 415	154, 633		
All other	52, 909	95, 388	104, 564	68, 524	96, 457	60, 163		
Auxiliary operations	14, 196	49, 232	[1] 7, 822	[1] 386	7, 822	386	[4] 231	--------
Ratio of expenses to revenue (per cent)	58. 7	71. 6	74. 9	78. 2	77. 2	81. 4	96. 6	94. 7
Net operating revenue	234, 615	288, 924	[1] 233, 314	[1] 123, 756	182, 496	83, 359	2, 119	5, 269
Taxes	35, 028	64, 788	57, 809	40, 670	49, 594	33, 416	2, 880	6, 024
Operating income	199, 587	224, 136	[1] 175, 505	[1] 83, 086	132, 902	49, 943	[5] *761*	[5] *755*

[1] Figures beginning with 1927 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 and 1932 which are included in statistics for "Central Electric Light and Power Stations."

[2] Net surplus. [3] Includes superintendence of power.

[4] Net deficit. [5] Deficit.

Source: Bureau of the Census, Department of Commerce.

No. 442.—RECEIVERSHIPS OF ELECTRIC RAILWAYS

Year	Placed under receivership				Sold under foreclosure				
	Number of companies	Miles of track	Outstanding securities		Number of companies	Miles of track	Outstanding securities		Receivers' certificates
			Stock	Bonds			Stock	Bonds	
			Dollars	*Dollars*			*Dollars*	*Dollars*	*Dollars*
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, 163	40, 557, 950	39, 036, 100	19	308	30, 508, 817	16, 759, 997	(1)
1916	15	350	14, 119, 168	11, 434, 708	19	430	13, 895, 400	22, 702, 300	(1)
1917	21	1, 288	33, 597, 305	33, 344, 800	26	745	27, 281, 900	27, 313, 045	(1)
1918	29	2, 106	92, 270, 779	172, 015, 103	23	524	37, 740, 325	20, 149, 384	(1)
1919	51	3, 856	209, 424, 110	305, 760, 151	29	2, 675	89, 893, 400	79, 836, 738	42, 300
1920	19	1, 055	36, 467, 105	67, 755, 850	13	260	7, 782, 400	11, 227, 328	52, 000
1921	18	954	31, 714, 450	34, 252, 550	13	778	33, 642, 255	30, 863, 526	5, 000
1922	14	702	17, 596, 050	25, 160, 800	13	323	7, 491, 500	12, 640, 600	14, 683
1923	12	333	6, 760, 100	13, 255, 300	15	927	118, 077, 959	110, 638, 250	12, 265, 000
1924	13	1, 164	30, 355, 585	40, 290, 355	14	869	21, 022, 800	34, 845, 535	3, 440, 383
1925	13	1, 129	36, 291, 045	48, 632, 084	13	569	18, 074, 300	18, 329, 555	53, 000
1926	16	1, 281	16, 871, 390	117, 743, 311	28	1, 291	20, 054, 700	57, 340, 363	214, 000
1927	12	567	16, 895, 523	20, 292, 816	16	941	53, 345, 000	78, 445, 100	3, 140, 000
1928	8	396	8, 467, 200	15, 014, 400	8	1, 004	26, 084, 325	40, 683, 400	168, 150
1929	5	500	39, 035, 000	36, 373, 900	10	510	18, 472, 995	21, 173, 700	285, 359
1930	15	1, 765	79, 647, 700	97, 442, 081	8	1, 055	36, 254, 965	44, 564, 000	----------
1931	16	1, 526	40, 782, 922	45, 155, 383	12	845	38, 206, 600	19, 769, 600	50, 000
1932	20	1, 932	176, 333, 850	392, 719, 308	6	347	10, 685, 000	12, 609, 800	----------
1933	10	1, 736	39, 773, 300	119, 298, 196	8	405	9, 575, 405	16, 346, 700	7, 500
1934	5	246	3, 887, 600	7, 217, 100	6	329	13, 685, 100	19, 563, 000	----------

[1] Data not available.

Source: Annual Statistical Number, Transit Journal.

No. 443.—ELECTRIC RAILWAYS: Summary of Statistics of Subway and Elevated Lines [1]

	1907	1912	1917	1922	1927	1932
Number of companies	6	7	7	7	[2] 4	[2] 7
Miles of track [3]	420.4	517.8	666.1	857.9	870.9	1,028.4
Number of cars	4,453	5,706	6,801	8,096	8,654	12,645
Passengers carried (thousands)	640,705	1,004,823	1,274,652	1,745,167	2,222,586	2,039,445
Revenue passengers, including pay transfer	635,653	991,062	1,262,509	1,743,284	2,220,794	2,033,618
Revenue car mileage (thousands)	143,268	219,375	247,199	303,346	377,213	396,880
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	2,092,587
Per passenger-car hour	(5)	(5)	(5)	90.86	93.80	(5)
Salaried employees:						
Number	362	907	1,937	1,372	1,471	1,812
Salaries (thousands of dollars)	569	1,398	2,648	3,008	3,877	4,525
Wage earners:						
Number	12,501	19,098	26,835	26,007	27,955	29,982
Wages (thousands of dollars)	8,588	13,867	22,093	40,988	47,283	50,462

[1] Exclusive of the mixed elevated, subway, and surface systems of Boston and Philadelphia which are included in the surface group.
[2] Four companies were consolidated and treated as one company in 1927, but as separate companies in 1932.
[3] Includes a minor amount of surface trackage.
[4] Average for 1907 and 1912 based on all track exclusive of idle track and freight and switching roads; for 1917, 1922, and 1927, on running track exclusive of idle track and freight and switching roads; for 1932, on total main track.
[5] No data.

No. 444.—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	1912	1917	1922	1927	1932	Class of trackage and State	1912	1917	1922	1927	1932
Elevated, total	417.8	497.3	601.7	634.2	638.3	Subways and tunnels, total	112.7	218.8	325.6	342.4	510.3
New York	230.8	297.0	362.8	373.0	379.8	New York [1]	70.5	162.4	269.1	281.7	356.9
Illinois	141.9	146.9	163.9	178.7	178.7	Massachusetts	18.5	25.2	27.0	29.4	30.6
Pennsylvania	9.9	16.7	32.4	32.2	32.2	New Jersey [1]	11.7	12.6	12.6	12.6	12.6
Massachusetts	26.6	26.2	30.1	35.6	40.1	Pennsylvania	8.4	9.0	8.0	9.2	38.4
New Jersey	4.3	4.4	4.3	4.3	4.4	California	.3	5.4	5.4	5.9	8.5
Missouri	2.9	3.0	2.9	------	------	Illinois	1.9	1.9	1.8	1.8	61.2
Washington	------	------	2.7	7.8	------	All other States [2]	1.4	2.3	1.7	1.8	2.1
Maryland	1.4	1.4	1.4	1.4	1.4						
California	------	1.2	1.2	1.2	.6						
Kansas	------	.5	------	------	------						
Minnesota	------	------	------	------	1.1						

[1] Figures for New Jersey include 11.68 miles owned and operated by a New York company.
[2] Kansas, Missouri, Oregon, and Tennessee, 1912; Connecticut, Minnesota, Missouri, Rhode Island, West Virginia, and Wisconsin, 1917; Rhode Island, Minnesota, and Missouri, 1922; Minnesota, Missouri, Rhode Island, and Washington, 1927; Minnesota, Missouri, Montana, Rhode Island, and Washington, 1932.

No. 445.—ELECTRIC RAILWAYS: Finances of Elevated and Subway Lines

Note.—**All figures in thousands 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	1932
Income from all sources	34,258	55,246	70,213	108,483	132,135	121,612
Operating revenues	33,874	52,239	68,537	105,862	129,020	119,120
Operating expenses	15,129	23,613	31,669	67,660	78,202	78,723
Net operating revenue	18,745	28,626	36,868	38,202	50,818	40,397
Taxes of operating companies	1,986	3,501	5,136	6,441	8,215	7,253
Operating income	16,759	25,125	31,732	31,761	42,603	33,143
Miscellaneous income	384	3,008	1,676	2,621	3,115	2,492
Gross income	17,143	28,133	33,408	34,382	45,718	35,635
Deductions from gross income	11,473	18,902	21,347	34,856	33,907	34,036
Interest	3,701	9,654	10,442	19,225	23,270	26,451
Miscellaneous	7,772	9,248	10,905	15,631	10,637	7,585
Net income	5,670	9,231	12,061	[1] 474	11,811	1,599
Dividends	4,009	8,530	10,087	----------	6,250	(2)
Surplus	1,661	701	1,974	[1] 474	5,561	(2)

[1] Deficit. [2] Not shown separately.

Source of tables 443, 444, and 445: Bureau of the Census, Department of Commerce.

No. 446.—MOTOR-BUS OPERATIONS: Summary of Statistics for Lines Operated by Electric Railways, Subsidiary, and Successor Companies

Note.—Data for successor companies not available in 1927

	1927			1932			
	Total	Operated by—		Total	Operated by—		
		Electric railway companies	Subsidiary companies		Electric railway companies	Subsidiary companies	Successor companies
Number of companies	301	98	203	498	173	95	230
Number of routes operated	1,583	482	1,101	3,613	2,119	533	961
Miles of route (round trip)	29,267	7,073	22,194	77,897	21,556	20,577	35,764
Miles of street or highway served (one way)	14,299	3,313	10,986	36,652	9,708	9,363	17,581
Number of busses, total	8,277	2,064	6,213	15,064	8,559	3,070	3,435
Owned	7,818	1,885	5,933	14,076	8,083	2,961	3,032
Rented	459	179	280	988	476	109	403
Single-deck	7,745	1,976	5,769	14,486	8,256	2,828	3,402
Owned	7,303	1,797	5,506	13,554	7,831	2,719	3,004
Rented	442	179	263	932	425	109	398
Double-deck	532	88	444	578	303	242	33
Owned	515	88	427	522	252	242	28
Rented	17	--------	17	56	51	--------	5
Number of busses in operation	7,681	1,901	5,780	13,297	7,596	2,709	2,992
Average number of busses operated in scheduled service during year	6,238	1,585	4,653	10,703	6,205	1,979	2,519
Number of passengers carried (thousands)	875,402	214,694	660,708	1,302,318	880,543	225,984	195,791
Revenue passengers	771,806	163,199	608,608	1,135,500	749,423	202,531	183,546
Pay-transfer passengers	12,453	4,583	7,871	12,162	4,361	6,528	1,273
Free-transfer passengers	85,235	45,667	39,568	143,729	118,704	15,658	9,367
Free passengers	5,907	1,246	4,661	10,928	8,055	1,268	1,605
Number of bus-miles (thousands)	272,518	65,905	206,613	499,025	275,633	102,770	120,622
Revenue miles	270,483	65,068	205,415	494,922	273,618	101,345	119,959
Nonrevenue miles	2,035	837	1,198	4,103	2,015	1,425	663
Number of bus-hours (thousands)	24,927	5,716	19,210	43,308	24,521	8,955	9,832
Revenue hours	24,571	5,632	18,939	42,760	24,265	8,722	9,773
Nonrevenue hours	356	84	271	548	256	233	59
Number killed or died from injuries	108	15	93	95	60	15	20
Number injured but not killed	10,082	3,151	6,931	11,820	8,226	2,643	951
INCOME STATISTICS (thousands of dollars)							
Operating revenues	68,121	15,135	52,986	99,884	57,178	22,232	20,474
Transportation revenues	67,253	15,004	52,248	98,329	56,444	21,747	20,138
Miscellaneous	868	131	738	1,555	734	485	336
Operating expenses	65,771	15,272	50,500	94,618	52,247	22,054	20,317
Maintenance of plant and equipment	23,717	5,398	18,319	30,134	16,850	7,280	6,004
Operation	36,056	8,554	27,502	54,637	30,270	12,645	11,722
General expense including traffic promotion	5,998	1,320	4,678	9,847	5,127	2,129	2,591
Net operating revenue, motor-bus lines	2,349	[1] *137*	2,486	5,266	4,931	178	157
Net revenue from auxiliary operations	[1] *231*	--------	[1] *231*	4	--------	--------	4
Total net revenues, motor-bus and auxiliary	2,119	[1] *137*	2,255	5,270	4,931	178	161
Taxes	2,880	584	2,295	6,024	3,388	1,431	1,205
Operating income, motor-bus and auxiliary	[1] *761*	[1] *721*	[1] *40*	[1] *758*	1,542	[1] *1,252*	[1] *1,048*
Nonoperating income	295	32	264	545	62	159	324
Gross income	[1] *466*	[1] *690*	224	[1] *209*	1,605	[1] *1,094*	[1] *720*
Deductions from gross income	1,707	198	1,509	2,676	906	901	869
Net income	[1] *2,173*	[1] *888*	[1] *1,285*	[1] *2,885*	699	[1] *1,995*	[1] *1,589*
Number of employees	16,633	3,619	13,014	30,514	17,940	6,330	6,244
Salaried employees	2,333	265	2,068	3,896	2,105	827	964
Wage earners	14,300	3,354	10,946	26,618	15,835	5,503	5,280
Salaries and wages (thousands of dollars)	27,564	6,119	21,445	43,512	25,690	9,209	8,613
Salaries	3,340	657	2,683	6,439	3,351	1,337	1,751
Wages	24,224	5,462	18,762	37,073	22,339	7,872	6,862

[1] Deficit.

Source: Bureau of the Census, Department of Commerce.

No. 447.—CIVIL AERONAUTICS: Summary of Statistics

Item	1928	1930	1932	1933	1934
SCHEDULED AIR TRANSPORT OPERATIONS					
Services in operation Dec. 31	63	122	136	112	98
Miles of all airways in operation Dec. 31	16,667	49,549	48,530	47,687	50,801
Airplanes in service and reserve Dec. 31	325	600	564	504	518
Value	$7,000,000	$11,489,540	$8,763,432	$9,500,000	$10,500,000
Total personnel employed Dec. 31	1,496	3,475	[1] 5,588	[1] 6,273	[1] 6,455
Pilots employed	308	675	709	749	751
Airplane miles flown, all operators	10,673,450	36,945,203	50,932,967	54,642,545	48,786,551
Airplane miles flown daily, average for the year	29,242	101,220	139,542	149,706	133,662
Passengers carried	49,713	417,505	540,681	568,940	561,370
Average passenger-mile rate (domestic)	$0.11	$0.083	$0.061	$0.061	$0.059
Express and freight carried, pounds	216,644	468,571	1,600,821	2,452,812	3,449,675
Miles of mail airways Dec. 31 [2]	14,561	41,501	45,436	44,665	46,003
Airplane miles flown with mail [2]	7,846,296	19,904,185	36,053,067	41,671,490	[3] 27,340,293
Mail carried by contractors, pounds [2]	4,063,173	8,513,675	7,908,723	7,816,532	(4)
Mail income to contractors [2]	$7,432,721	$20,015,969	$26,234,321	$23,413,691	[5] $15,722,229
Average mail income per contract mile flown [6]	$0.94	$0.88	$0.56	$0.43	$0.37
MISCELLANEOUS [7]					
Airplane miles flown (misc. flying operations)	60,000,000	108,269,760	78,178,700	71,222,845	75,602,152
Miles airways lighted by Dept. of Commerce	6,988	15,258	19,500	18,655	19,081
Under construction	2,314	3,221	----------	2,638	3,048
Beacons, revolving and flashing (Federally operated)	1,188	1,652	1,988	1,796	1,520
Beacons, privately owned and certified	54	140	228	269	310
Radio communication stations	29	45	61	68	71
Radio range beacon stations	2	33	68	94	112
Radio marker beacons	----------	6	74	77	84
Weather reporting airway and airport stations [8]	----------	143	234	205	206
Weather Bureau airway stations [9]	95	279	310	317	335
Weather Bureau first order stations	206	209	216	194	185
Commercial and private airports	365	564	645	713	618
Municipal airports	368	550	549	563	702
Intermediate landing fields—Dept. of Commerce—					
Lighted	210	347	337	246	250
Unlighted	----------	7	15	19	9
Auxiliary airports—marked	340	240	476	550	580
Army, Navy, Marine Corps, National Guard, reserve and miscellaneous airports	81	74	95	97	138
Pilots licensed (active), airplane	4,887	15,280	18,594	13,690	13,949
Airplanes licensed (active)	3,165	7,354	7,330	6,896	6,339

[1] Includes operation and office personnel.
[2] All air mail routes, whether domestic or foreign.
[3] Includes 1,719,919 airplane miles flown by Army Air Corps.
[4] No comparable data; domestic mail carried, including Army operations, amounted to 4,922,279,969 pound-miles.
[5] Includes $2,249,004 paid to Army Air Corps.
[6] Domestic only, as foreign mail is carried on a mileage basis.
[7] All data, except airplane miles flown, are as of Dec. 31.
[8] Long line teletypewriter equipped.
[9] Radio and local teletypewriter equipped.

Source: Bureau of Air Commerce, Department of Commerce.