14. PRICES

GENERAL NOTE.—The wholesale price index of the Department of Labor is based on primary market quotations of 550 commodities. In weighting the prices included in the index, the biennial census reports of 1923 and 1925 have been used for most manufactured products and for other products the average for the years 1923 to 1925 where trustworthy information was available as in the case of agricultural products.

The retail food index is based on the weighted average quotations (weighted by average family consumption in 1918) as of the 15th of the month, secured from retail stores in 51 cities since 1920 (from a smaller number in earlier years) for 22 commodities from 1913 to 1920, for 43 commodities from 1921 to 1928, and 42 thereafter.

The farm price index is constructed by weighting prices paid to producers for 30 products. Average quotations for the period, August, 1909–July, 1914, are used as a base, and each price series is weighted by the average annual marketings of farmers in the years 1918 to 1923.

No. 336.—WHOLESALE, RETAIL, AND FARM PRICES: INDEX NUMBERS

Year	Yearly average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	1926 average=100												
Wholesale prices:													
1916	85.5	77.0	78.5	80.4	81.7	82.5	82.9	83.4	85.1	86.9	91.1	97.4	99.2
1917	117.5	102.1	104.5	107.7	114.1	120.7	122.0	123.0	124.8	123.5	122.2	122.8	122.9
1918	131.3	125.0	122.7	126.4	128.3	128.1	129.0	132.0	134.3	137.5	136.3	136.3	136.3
1919	138.6	134.4	129.8	131.3	133.0	135.3	135.6	141.1	144.3	141.1	141.6	144.5	150.5
1920	154.4	157.7	157.1	158.6	165.5	167.2	166.5	165.8	161.4	155.2	144.2	133.4	120.7
1921	97.6	114.0	104.9	102.4	98.9	96.2	93.4	93.4	93.5	93.4	94.1	94.2	92.9
1922	96.7	91.4	92.9	92.8	93.2	96.1	96.3	99.4	98.6	99.3	99.6	100.5	100.7
1923	100.6	102.0	103.3	104.5	103.9	101.9	100.3	98.4	97.8	99.7	99.4	98.4	98.1
1924	98.1	99.6	99.7	98.5	97.3	95.9	94.9	95.6	97.0	97.1	98.2	99.1	101.5
1925	103.5	102.9	104.0	104.2	101.9	101.6	103.0	104.3	103.9	103.4	103.6	104.5	103.4
1926	100.0	103.6	102.1	100.4	100.1	100.5	100.5	99.5	99.0	99.7	99.4	98.4	97.9
1927	95.4	96.6	95.9	94.5	93.7	93.7	93.8	94.1	95.2	96.5	97.0	96.7	96.8
1928	97.7	96.3	96.4	96.0	97.4	98.6	97.6	98.3	98.9	100.1	97.8	96.7	96.7
1929	96.5	97.2	96.7	97.5	96.8	95.8	96.4	98.0	97.7	97.5	96.3	94.4	94.2
1930	86.3	93.4	92.1	90.8	90.7	89.1	86.8	84.0	84.0	84.2	82.6	80.4	78.4
	1913 average=100												
Retail food prices:													
1916	113.7	107	106	107	109	109	112	111	113	118	121	126	126
1917	146.4	128	133	133	145	151	152	146	149	153	157	155	157
1918	168.3	160	161	154	154	158	162	168	171	178	181	183	187
1919	185.9	185	172	175	182	185	184	190	192	188	189	192	197
1920	203.4	201	200	200	211	215	219	219	207	204	198	193	178
1921	153.3	172	158	156	152	145	144	148	155	153	153	152	150
1922	141.6	142	142	139	139	139	141	142	139	140	143	145	147
1923	146.2	144.4	142.3	141.9	143.1	143.4	144.3	147.2	146.4	149.3	149.8	151.1	150.3
1924	145.9	149.1	147.3	143.7	141.3	141.0	142.4	143.3	144.2	146.8	148.7	150.1	151.5
1925	157.4	154.3	151.4	151.1	150.8	151.6	155.0	159.9	160.4	159.0	161.6	167.1	165.5
1926	160.6	164.3	161.5	159.9	162.4	161.1	159.7	157.0	155.7	158.5	160.0	161.6	161.8
1927	155.4	159.3	156.0	153.8	153.6	155.4	158.5	153.4	152.4	154.0	156.1	156.5	155.9
1928	154.3	155.1	151.6	151.4	152.1	153.8	152.6	152.8	154.2	157.8	156.8	157.3	155.8
1929	156.7	154.6	154.4	153.0	151.6	153.3	154.8	158.5	160.2	160.8	160.5	159.7	158.0
1930	147.1	155.4	153.0	150.1	151.2	150.1	147.9	144.0	143.7	145.6	144.4	141.4	137.2
	August, 1909–July, 1914=100												
Farm prices:													
1916	117	104	106	108	110	111	112	113	117	123	128	137	139
1917	176	140	148	159	176	188	188	185	183	184	187	187	191
1918	200	194	197	199	200	198	196	197	203	207	204	200	201
1919	209	200	194	197	207	215	216	222	222	208	206	209	212
1920	205	219	221	222	230	235	234	224	209	194	178	158	140
1921	116	135	128	123	115	112	110	111	116	118	120	116	115
1922	124	114	118	123	123	127	128	126	120	119	123	126	131
1923	135	134	136	136	137	135	133	130	128	132	134	136	137
1924	134	137	136	131	130	129	130	132	139	132	138	137	139
1925	147	146	146	151	147	146	148	149	152	144	143	144	143
1926	136	143	143	140	140	139	139	136	133	134	130	130	127
1927	131	126	127	126	125	126	130	130	132	140	139	137	137
1928	139	137	135	137	140	148	145	145	139	141	137	134	134
1929	138	133	136	140	138	136	135	140	143	141	140	136	135
1930	117	134	131	126	127	124	123	111	108	111	106	103	97

Sources: Wholesale and retail prices, Department of Labor; farm prices, Department of Agriculture.

No. 337.—WHOLESALE PRICES BY MAJOR COMMODITY GROUPS: INDEX NUMBERS

NOTE.—See general note, page 333. For indexes for all commodities for prior years see Table 338. For index numbers (based on 1923–1925 as 100) showing price changes in farm products and foods compared with all other commodities combined, see Table 617, p. 674

[1926=100, except as noted]

Period	All commodities	Farm products	Foods	Hides and leather products	Textile products	Fuel and lighting	Metals and metal products	Building materials	Chemicals and drugs	House furnishing goods	Miscellaneous
1890	56.2	50.4	55.5	47.5	57.8	38.1	105.3	46.5	73.2	49.9	97.9
1891	55.8	54.2	54.8	47.9	54.6	37.0	92.2	44.2	74.0	50.4	94.3
1892	52.2	49.5	51.0	47.2	55.2	34.8	84.0	41.7	74.6	48.1	86.6
1893	53.4	51.3	54.7	45.1	54.1	35.3	76.8	41.6	72.7	48.1	89.0
1894	47.9	44.6	48.2	43.0	46.1	34.3	65.7	39.8	65.5	45.3	86.4
1895	48.8	43.9	47.3	49.4	44.3	40.3	70.4	38.8	64.7	43.5	88.9
1896	46.5	39.6	44.1	45.2	43.1	39.5	71.2	38.9	65.0	43.4	90.2
1897	46.6	42.5	45.5	45.9	42.9	33.9	65.0	37.4	70.9	42.5	92.5
1898	48.5	44.9	47.8	48.3	44.9	34.5	65.3	39.6	77.4	44.0	93.4
1899	52.2	45.8	47.7	49.4	47.7	41.2	100.0	43.6	81.1	45.0	97.4
1900	56.1	50.5	50.8	49.4	53.3	46.3	98.0	46.2	82.1	48.9	102.0
1901	55.3	52.8	50.5	48.9	48.1	44.6	93.1	44.3	84.2	48.9	93.4
1902	58.9	58.4	53.3	50.8	49.4	51.8	91.0	45.3	86.5	49.2	88.1
1903	59.6	55.6	52.0	49.9	52.8	60.3	90.2	46.7	84.1	50.9	98.9
1904	59.7	58.5	54.0	49.7	52.9	53.3	79.9	45.0	84.1	50.3	109.5
1905	60.1	56.4	55.1	53.9	54.1	49.6	89.1	48.1	82.3	49.7	117.4
1906	61.8	57.3	53.4	57.7	58.7	52.0	102.4	54.0	76.8	51.3	115.3
1907	65.2	62.2	57.0	58.0	63.5	54.4	109.8	56.8	78.5	55.0	108.2
1908	62.9	62.2	58.7	55.6	54.8	53.7	86.3	52.0	79.6	51.6	97.8
1909	67.6	69.6	62.6	61.5	56.5	51.6	84.5	53.7	79.9	51.7	129.6
1910	70.4	74.3	64.9	60.2	58.4	47.6	85.2	55.3	82.0	54.0	152.7
1911	64.9	66.8	62.0	58.8	55.5	46.7	80.8	55.3	81.6	52.7	108.6
1912	69.1	72.6	66.8	64.5	55.7	51.4	89.5	55.9	80.7	53.0	106.4
1913	69.8	71.5	64.2	68.1	57.3	61.3	90.8	56.7	80.2	56.3	93.1
1914	68.1	71.2	64.7	70.9	54.6	56.6	80.2	52.7	81.4	56.8	89.9
1915	69.5	71.5	65.4	75.5	54.1	51.8	86.3	53.5	112.0	56.0	86.9
1916	85.5	84.4	75.7	93.4	70.4	74.3	116.5	67.6	160.7	61.4	100.6
1917	117.5	129.0	104.5	123.8	98.7	105.4	150.6	88.2	165.0	74.2	122.1
1918	131.3	148.0	119.1	125.7	137.2	109.2	136.5	98.6	182.3	93.3	134.4
1919	138.6	157.6	129.5	174.1	135.3	104.3	130.9	115.6	157.0	105.9	139.1
1920	154.4	150.7	137.4	171.3	164.8	163.7	149.4	150.1	164.7	141.8	167.5
1921	97.6	88.4	90.6	109.2	94.5	96.8	117.5	97.4	115.0	113.0	109.2
1922	96.7	93.8	87.6	104.6	100.2	107.3	102.9	97.3	100.3	103.5	92.8
1923	100.6	98.6	92.7	104.2	111.3	97.3	109.3	108.7	101.1	108.9	99.7
1924	98.1	100.0	91.0	101.5	106.7	92.0	106.3	102.3	98.9	104.9	93.6
1925	103.5	109.8	100.2	105.3	108.3	96.5	103.2	101.7	101.8	103.1	109.0
1926	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1927	95.4	99.4	96.5	107.9	95.7	86.5	98.2	98.3	96.6	98.2	89.9
1928	97.7	105.9	101.0	121.7	96.3	82.8	99.8	98.7	95.5	97.4	83.0
1929	96.5	104.9	99.7	109.2	93.7	81.6	104.4	97.1	94.4	96.9	80.5
1930	86.3	88.3	90.1	99.9	80.7	76.1	95.3	90.3	88.7	95.7	73.4
1930 (1913=100)	*123.6*	*123.5*	*140.3*	*146.7*	*140.8*	*124.1*	*105.0*	*159.3*	*110.6*	*170.0*	*73.3*
1930 (1923–1925=100)	*85.7*	*85.9*	*95.2*	*96.3*	*74.2*	*79.9*	*89.7*	*86.7*	*88.2*	*90.6*	*72.3*
1928											
January–March	96.2	104.7	98.4	123.0	96.6	80.9	98.3	90.9	95.9	98.4	87.7
April–June	97.9	108.0	100.3	125.6	96.5	81.6	98.6	93.3	95.3	97.6	84.1
July–September	99.1	107.6	104.4	122.0	96.2	84.2	99.8	94.6	94.8	97.1	79.9
October–December	97.1	102.9	100.1	116.2	96.1	84.3	101.9	95.9	95.9	96.4	80.1
1929											
January–March	97.1	106.1	98.3	110.3	96.2	81.5	104.8	97.6	95.9	96.6	80.3
April–June	96.3	103.5	98.1	107.6	94.3	81.7	105.6	97.0	94.2	96.7	79.7
July–September	97.7	107.1	103.0	109.9	93.0	81.3	104.5	97.0	93.7	97.1	81.4
October–December	95.0	102.3	99.5	108.8	91.5	81.6	102.7	96.7	93.9	97.2	80.4
1930											
January	93.4	101.0	97.2	105.1	89.4	79.9	101.2	96.2	93.0	97.3	78.7
February	92.1	98.0	95.5	103.9	88.3	78.8	100.9	95.7	92.3	97.0	78.5
March	90.8	94.7	93.9	103.2	86.5	77.4	100.6	95.4	91.2	96.5	78.2
April	90.7	95.8	94.6	102.7	85.5	77.9	98.8	94.7	91.0	96.2	78.5
May	89.1	93.0	92.0	102.6	84.6	78.0	96.8	92.9	89.9	96.2	77.5
June	86.8	88.9	90.5	102.4	82.2	76.4	95.4	90.0	88.9	96.2	74.5
July	84.0	83.1	86.3	100.7	80.0	75.4	94.3	88.9	87.8	96.2	71.7
August	84.0	84.9	87.1	95.9	77.7	75.4	92.7	87.4	87.3	95.9	71.2
September	84.2	85.3	89.2	99.1	75.5	76.3	91.8	86.4	86.6	95.4	69.7
October	82.6	82.6	88.6	96.5	73.8	75.1	90.4	85.8	86.0	95.3	68.8
November	80.4	79.3	85.7	94.0	73.3	71.8	90.2	85.6	85.2	95.2	67.8
December	78.4	75.2	81.8	91.2	72.4	70.5	90.0	84.4	84.8	91.3	66.9

Source: Bureau of Labor Statistics, Department of Labor.

No. 338.—WHOLESALE PRICES: INDEX NUMBERS, 1860 TO 1889

NOTE.—Indexes are arithmetic averages of unweighted relative prices, published in 1893 by the Committee on Finance, United States Senate, on an 1860 base, recomputed to the 1926 base by the Bureau of Labor Statistics, Department of Labor

[1926=100]

Year	General index	Year	General index	Year	General index
1860	61	1870	87	1880	65
1861	61	1871	83	1881	64
1862	72	1872	84	1882	66
1863	90	1873	84	1883	65
1864	116	1874	81	1884	60
1865	132	1875	78	1885	57
1866	116	1876	72	1886	56
1867	105	1877	68	1887	56
1868	98	1878	62	1888	57
1869	94	1879	59	1889	57

No. 339.—WHOLESALE PRICES OF COMMODITY SUBGROUPS: INDEX NUMBERS

[1926=100]

Subgroup	Year								December, 1929	June, 1930	December, 1930
	1913	1923–1925	1925	1926	1927	1928	1929	1930			
Grains	71.1	102.3	118.3	100.0	100.9	107.3	97.4	78.3	97.5	78.7	64.0
Livestock and poultry	73.2	85.3	98.9	100.0	98.9	105.4	106.1	89.2	94.6	88.5	76.3
Other farm products	70.8	115.1	114.5	100.0	99.2	105.8	106.6	91.1	108.2	92.7	78.1
Meats	59.8	81.7	93.3	100.0	92.7	107.0	109.1	98.4	103.2	99.9	89.2
Butter, cheese, milk	65.9	99.7	101.1	100.0	104.0	105.6	105.8	95.7	101.9	90.4	89.4
Other foods	65.9	101.4	104.5	100.0	96.2	95.5	91.6	83.0	94.4	85.1	74.5
Hides and skins	106.8	115.5	118.7	100.0	120.4	148.6	112.7	91.0	107.4	99.0	69.4
Leather	69.1	102.9	104.8	100.0	109.2	126.3	113.2	101.3	110.6	102.9	91.5
Boots and shoes	54.5	99.3	100.5	100.0	102.5	109.9	106.3	102.0	106.1	103.0	97.7
Other leather products	50.8	103.4	102.8	100.0	104.1	108.5	106.2	105.1	106.1	105.1	104.2
Cotton goods	58.0	113.9	110.0	100.0	97.9	101.2	99.4	87.4	97.2	89.3	79.7
Silk and rayon	71.8	112.4	104.5	100.0	88.1	83.6	80.1	63.2	75.4	64.3	51.7
Woolen and worsted goods	53.7	108.2	110.2	100.0	97.6	100.4	97.8	87.8	94.6	88.6	82.3
Other textile products	62.7	89.5	104.1	100.0	95.4	86.9	81.3	66.0	75.1	69.0	57.8
Anthracite	58.9	99.7	99.7	100.0	96.3	91.7	90.1	89.1	91.2	85.8	89.6
Bituminous coal	38.1	103.2	96.5	100.0	100.4	93.6	91.3	89.4	92.4	88.2	89.1
Coke	46.3	104.6	97.7	100.0	94.4	84.6	84.6	84.0	84.2	84.0	83.8
Manufactured gas	78.1	103.2	101.9	100.0	97.9	94.9	93.2	97.3	91.7	99.7	95.4
Petroleum and products	73.3	87.0	95.0	100.0	72.7	72.0	71.3	61.5	69.9	63.6	51.1
Iron and steel	70.9	109.6	102.2	100.0	95.9	94.9	97.3	91.5	96.3	91.7	88.0
Nonferrous metals	88.9	96.6	101.4	100.0	91.8	93.3	105.7	80.7	101.5	78.1	69.7
Agricultural implements	72.9	101.6	100.4	100.0	99.2	98.8	97.9	95.1	96.1	95.0	94.9
Automobiles	147.5	107.2	105.3	100.0	102.5	106.9	110.9	104.5	108.0	105.5	99.5
Other metal products	53.7	101.8	100.5	100.0	100.2	97.2	98.5	97.9	98.6	98.4	95.2
Lumber	54.0	103.9	100.6	100.0	92.5	90.1	94.5	85.7	92.4	85.3	78.1
Brick	38.9	102.4	100.1	100.0	93.2	92.7	91.1	84.7	90.5	83.0	81.6
Portland cement	59.6	105.4	102.6	100.0	96.7	95.9	91.8	91.8	89.2	91.7	90.6
Structural steel	77.1	113.4	102.2	100.0	94.7	95.2	98.1	87.3	97.0	86.8	81.7
Paint materials	50.8	103.4	109.3	100.0	91.0	86.6	91.3	84.9	95.7	88.7	72.4
Other building materials	63.1	103.3	100.4	100.0	94.1	101.3	106.9	101.1	106.5	99.6	97.1
Chemicals	89.4	102.3	104.1	100.0	100.0	101.3	100.2	93.5	99.6	93.8	89.1
Drugs and pharmaceuticals	56.6	96.4	97.7	100.0	87.3	70.8	70.5	67.4	70.6	67.9	65.5
Fertilizer materials	85.5	98.0	98.8	100.0	96.2	94.6	92.1	85.6	89.5	85.3	81.4
Mixed fertilizers	84.3	101.2	100.4	100.0	93.0	97.3	97.2	93.6	97.1	94.1	90.6
Furniture	70.7	109.7	104.6	100.0	97.6	97.2	96.0	96.5	96.7	96.5	95.5
Furnishings	47.9	103.5	102.2	100.0	98.6	97.5	97.5	94.9	97.7	95.9	87.6
Cattle feed	82.2	113.8	112.7	100.0	117.8	138.1	121.6	99.7	122.4	102.0	78.2
Paper and pulp	59.4	102.9	105.2	100.0	92.2	89.4	87.9	85.0	87.3	85.2	83.6
Rubber, crude	170.2	88.5	149.9	100.0	77.9	46.4	42.0	24.5	33.2	25.9	18.6
Automobile tires	207.2	100.2	98.6	100.0	76.3	64.4	55.6	53.1	55.2	52.2	51.3
Other miscellaneous	64.4	100.8	99.6	100.0	99.9	98.6	106.3	99.7	108.9	103.3	86.9

Source of Tables 338 and 339: Bureau of Labor Statistics, Department of Labor.

No. 340.—WHOLESALE PRICES OF LEADING COMMODITIES

NOTE.—This list is a selection from among the 550 commodities entering into the general index of wholesale prices of the Department of Labor, shown in Table 337

Commodity	Unit	Average price						
		1923-1925	1925	1926	1927	1928	1929	1930
I.—FARM PRODUCTS		*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Barley, feeding, Chicago	Bushel	0.774	0.844	0.694	0.825	0.826	0.615	0.602
Corn, contract grades, Chicago	do	.944	1.038	.759	.882	.977	.941	.827
Corn, No. 3, mixed, Chicago	do	.927	1.014	.736	.851	.953	.929	.810
Oats, No. 2, white, Chicago	do	.473	.467	.430	.497	.555	.486	.397
Rye, No. 2, Chicago	do	.932	1.128	.954	1.046	1.133	1.016	.624
Wheat, No. 2, red winter, Chicago	do	1.407	1.770	1.542	1.378	1.540	1.304	.983
Wheat, No. 2, hard, Kansas City	do	1,338	1.670	1.496	1.372	1.325	1.180	.900
Wheat, No. 1, northern spring, Minneapolis.	do	1,359	1.607	1.549	1.369	1.285	1.276	.984
Cattle, steers, good to choice, Chicago.	100 lbs	10.093	10.659	9.529	12.688	14.489	13.493	11.027
Hogs, fair to choice, light, Chicago	do	9.534	12.347	13.115	10.602	9.862	10.666	9.938
Lambs, western, fair to good, Chicago.	do	14.335	15.219	13.701	13.860	14.203	13.719	8.758
Poultry, live fowls, Chicago	Pound	.218	.229	.252	.225	.246	.273	.219
Cotton, middling, New Orleans	do	.265	.230	.168	.172	.194	.186	.131
Eggs, firsts, Chicago	Dozen	.339	.369	.335	.300	.324	.354	.270
Eggs, firsts, New York	do	.370	.398	.356	.320	.329	.368	.278
Apples, fresh, Baldwins, Chicago	Barrel	5.203	5.938	4.102	4.522	6.979	6.029	5.859
Oranges, choice, California	Box	6.209	7.602	5.957	7.094	7.370	6.540	7.248
Hay, alfalfa, Kansas City	Ton	22.199	20.159	21.034	18.594	22.808	24.566	21.596
Hay, timothy, No. 1, Chicago	do	24.055	23.490	23.481	19.447	20.588	20.394	19.779
Milk, fluid, Chicago	100 lbs	3.001	2.930	2.940	2.975	2.735	2.955	2.920
Milk, fluid, New York	do	3.419	3.554	3.623	3.732	3.827	3.997	3.848
Peanuts, Norfolk	Pound	.063	.062	.050	.055	.056	.049	.040
Flaxseed, Minneapolis	Bushel	2.653	2.721	2.328	2.202	2.245	2.766	2.353
Tobacco, leaf, Kentucky	100 lbs	14.572	13.928	8.472	11.276	13.503	[1] 16.721	[1] 16.710
Potatoes, white, Chicago	do	1.645	2.105	3.013	2.309	1.354	1.606	2.136
Wool, Ohio, medium grades	Pound	.548	.558	.457	.447	.543	.467	.310
II.—FOODS								
Butter, creamery, extra:								
Chicago	Pound	.437	.442	.429	.458	.461	.437	.353
New York	do	.450	.454	.443	.473	.474	.449	.364
San Francisco	do	.476	.503	.436	.454	.460	.458	.364
Cheese, whole milk, Chicago	do	.219	.230	.217	.241	.240	.221	.182
Milk, evaporated, New York	Case	4.396	4.336	4.393	4.564	4.429	4.267	3.846
Beef, fresh, carcass, steers, Chicago	Pound	.170	.180	.164	.186	.228	.231	.207
Lamb, fresh, Chicago	do	.258	.269	.262	.262	.267	.256	.191
Hams, Chicago	do	.228	.271	.308	.246	.228	.244	.230
Pork, mess, New York	Barrel (200 lbs.)	31.055	38.928	37.447	34.500	32.120	30.370	31.125
Pork, sides, clear, Chicago	Pound	.162	.223	.201	.187	.163	.171	.166
Pork, fresh (composite price), Chicago.	do	.161	.205	.224	.183	.170	.183	.175
Poultry, Chicago	do	.246	.245	.271	.232	.226	.242	.242
Bread, Chicago	do	.075	.075	.075	.075	.075	.075	.075
Bread, New York	do	.070	.070	.070	.070	.070	.066	.066
Coffee, Rio No. 7, New York	do	.162	.203	.182	.148	.165	.157	.087
Salmon, canned, Alaska, red	Dozen	2.645	3.069	3.326	2.868	2.900	2.709	3.009
Flour, short patents, winter, Kansas City.	Barrel	7.160	8.525	8.035	7.388	7.073	6.535	5.535
Flour, standard patents, Minneapolis.	do	7.468	8.828	8.426	7.433	7.205	6.786	5.626
Flour, patents, Portland, Oreg	do	7.992	9.190	7.984	7.475	7.545	7.176	6.003
Raisins, coast, seeded, New York	Pound	.080	.075	.092	.074	.061	.060	.056
Bananas, Jamaicas, New York	Bunch	2.395	2.447	2.451	2.202	2.101	1.766	1.898
Lard, prime, contract, New York	Pound	.141	.168	.150	.129	.123	.120	.109
Oleomargarine, standard, uncolored, Chicago.	do	.225	.243	.228	.223	.225	.235	.218
Rice, Blue Rose, New Orleans	do	.054	.065	.062	.041	.038	.038	.040
Salt, American, medium, Chicago	Barrel	2.389	2.204	2.195	2.195	2.272	2.214	2.112
Sugar, granulated, New York	Pound	.071	.055	.055	.058	.056	.051	.047
Sugar, raw, 96°, New York	do	.058	.043	.043	.047	.042	.038	.034
Cottonseed oil, New York	do	.110	.108	.118	.097	.099	.097	.081

[1] Average for months of the tobacco season only.

No. 340.—Wholesale Prices of Leading Commodities—Continued

Commodity	Unit	Average price						
		1923–1925	1925	1926	1927	1928	1929	1930
III.—HIDES AND LEATHER PRODUCTS		*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Hides, packers, heavy, native steers	Pound	0.158	0.160	0.140	0.195	0.238	0.171	0.139
Calfskins, No. 1, country, Chicago	do	.180	.201	.173	.197	.274	.190	.163
Goatskins, Brazil, New York	do	.818	.785	.733	.751	.787	.741	.771
Leather, Boston:								
Calf, chrome, B grade	Sq. ft	.457	.472	.453	.489	.558	.496	.430
Glazed kid, top grade	do	.681	.683	.675	.677	.715	.725	.692
Side, black, chrome, tanned, B grade.	do	.266	.274	.253	.320	.369	.288	.238
Sole, oak, scoured backs	Pound	.480	.482	.438	.493	.641	.529	.452
Shoes:								
Child's gun metal	Pair			1.330	1.425	1.793	1.853	1.631
Men's, dress, medium grade [2]	do	3.162	3.237	3.199	3.268	3.575	3.750	3.350
Women's, black kid, oxford [2]	do		4.000	4.074	4.000	4.250	4.250	4.201
IV.—TEXTILE PRODUCTS								
Cotton goods, mill:								
Denims, Mass., 28-inch	Yard	.233	.207	.169	.170	.191	.181	.147
Drillings, Pepperell, 29-inch	do	.174	.164	.127	.120	.126	.125	.105
Gingham, Amoskeag, 27-inch	do	.126	.113	.090	.095	.106	.105	.093
Muslin, bleached, Fruit of the Loom.	do	.183	.180	.167	.161	.166	.174	.157
Print cloth, 27-inch	do	.070	.066	.052	.055	.058	.052	.042
Sheeting, bleached, Pepperell, 10/4.	do	.486	.454	.416	.385	.410	.419	.362
Sheeting, brown, Pepperell, 4/4	do	.149	.139	.123	.121	.122	.117	.103
Thread, 6-cord	Spool	.033	.036	.036	.036	.036	.036	.036
Women's union suits	Dozen	12.149	10.458	9.875	8.864	9.500	9.500	9.500
Yarn, carded, white, northern, 22/1's cones.	Pound	.459	.418	.358	.351	.371	.358	.274
Silk and rayon:								
Rayon, 150 B denier, New York	do	2.136	1.896	1.692	1.439	1.450	1.180	1.009
Silk, raw, steam filature, New York.	do	7.509	6.679	6.348	5.559	5.128	4.886	3.629
Hosiery, women's, pure silk, mill.	Doz. prs	12.337	11.842	12.168	11.003	[3] 9.792	9.313	7.896
Hosiery, men's, silk, mill	do	5.750	5.247	4.795	4.250	3.950	3.850	3.567
Woolen and worsted goods, mill:								
Suiting serge, 11-ounce	Yard	2.478	2.403	2.168	2.051	2.052	1.961	1.818
French serge, 39-inch [4]	do	.776	.799	.728	.987	1.006	.975	.915
Yarn, fine weaving, 2/50's	Pound	2.469	2.426	2.106	2.089	2.088	1.967	1.668
V.—FUEL AND LIGHTING								
Coal, anthracite, chestnut	Ton	13.861	13.788	13.767	13.298	13.001	12.886	12.715
Coal, bituminous, mine run	do	4.976	4.642	5.381	4.264	4.033	3.953	3.909
Coke, Connellsville, furnace	do	4.378	4.054	4.106	3.199	2.793	2.780	2.567
Manufactured gas	1,000 cu. ft.	1.062	1.053	1.034	1.013	.982	.985	.986
Petroleum, crude, Kans.-Okla	Barrel	1.519	1.670	1.884	1.285	1.203	1.233	1.111
Fuel oil, refinery, Pennsylvania	Gallon	.056	.059	.064	.051	.048	.048	.039
Gasoline, refinery, Pennsylvania	do	.130	.133	.128	.092	.099	.091	.073
VI.—METALS AND PRODUCTS								
Iron ore, non-Bessemer	Ton	4.924	4.375	4.250	4.250	4.250	4.443	4.500
Pig iron, basic, furnace	do	21.873	19.567	18.548	17.697	16.664	18.189	17.962
Pig iron, Bessemer, Pittsburgh	do	24.860	22.318	21.318	20.437	19.207	20.538	20.260
Nails, wire, Pittsburgh	100 lbs	2.948	2.820	2.750	2.638	2.676	2.667	2.191
Pipe, cast-iron, 6-inch, New York	Ton	57.549	52.196	51.340	43.315	37.659	36.666	39.315
Skelp, grooved, Pittsburgh	100 lbs	2.149	1.960	1.900	1.830	1.865	1.859	1.730
Steel billets, open-hearth, Pittsburgh.	Ton	38.465	35.644	35.000	33.269	32.673	34.642	31.808
Steel plates, tank, Pittsburgh	Pound	.021	.019	.019	.018	.019	.019	.017
Steel rails, open-hearth, mill	Ton	43.000	43.000	43.000	43.000	43.000	43.000	43.000
Steel sheets, No. 27, mill	Pound	.035	.033	.032	.031	.029	.030	.027
Steel, structural, mill	100 lbs	2.220	2.002	1.958	1.854	1.865	1.921	1.708
Tin plate, domestic, standard, Pittsburgh.	do	5.470	5.500	5.500	5.481	5.262	5.350	5.188
Aluminum, New York	Pound	.265	.272	.270	.254	.239	.239	.234
Copper, ingot, electrolytic	do	.139	.141	.138	.130	.146	.181	.129
Lead, pig, desilverized, New York	do	.083	.091	.084	.068	.063	.068	.055
Silver, bar, fine, New York	Ounce	.672	.694	.624	.567	.585	.533	.385
Tin, pig, New York	Pound	.502	.578	.653	.644	.504	.452	.315
Zinc, pig, slab, New York	do	.072	.080	.077	.066	.064	.068	.049

[2] Prior to 1928, men's black dress welt and women's black kid dress; change in grade does not materially affect comparability of figures.
[3] Grade changed; figures not strictly comparable with those for earlier year.
[4] Prior to 1927, 35-inch.

No. 340.—Wholesale Prices of Leading Commodities—Continued

Commodity	Unit	Average price						
		1923–1925	1925	1926	1927	1928	1929	1930
VI.—METALS, ETC.—continued								
Agricultural implements, factory:		*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Dollars*
Cultivator	Each	45.313	45.120	44.170	42.030	41.320	40.845	39.420
Harrow, spike, peg tooth	do	16.973	17.190	16.720	15.670	15.670	14.824	13.870
Plow, 2-horse	do	16.599	16.458	16.095	15.862	15.270	15.258	14.961
Separator, cream	do	59.053	59.370	59.370	61.250	61.040	60.338	58.230
Tractor, 10–20 horsepower	do	663.0	680.0	680.0	680.0	680.0	680.0	653.0
Automobiles, f. o. b. factory:								
Buick	do	1,654.0	1,625.0	1,468.0	1,492.0			
Cadillac	do	3,853.0	3,876.0	3,731.0	3,671.0			
Chevrolet	do	661.0	671.0	614.0	613.0			
Dodge	do	1,125.0	1,114.0	884.0	884.0	745.0	773.0	724.0
Ford	do	412.0	391.0	413.0	456.0			
Packard	do	3,617.0	3,556.0	3,589.0	3,403.0			
Sewing machines, electric	do	73.620	75.370	77.550	80.248	82.250	84.600	84.667
Stoves, gas	do	64.053	62.773	62.924	63.409	60.657	66.900	67.155
VII.—BUILDING MATERIALS								
Douglas fir, No. 1, common sheathing:	1,000 ft.	17.972	17.250	16.483	16.285	16.758	18.293	14.702
Oak, plain, white, No. 1, Cincinnati	do	66.200	63.135	66.019	63.635	59.173	57.623	52.115
Pine, white, No. 2, Buffalo	do	59.957	53.231	50.039	46.231	44.269	48.453	43.827
Pine, yellow, flooring, mill	do	45.355	46.493	45.109	38.481	36.485	37.278	34.737
Pine, yellow, timbers, mill	do	27.414	26.519	27.835	25.438	24.399	27.354	27.690
Shingles, cedar, red, mill	1,000	2.816	2.819	2.734	2.541	2.786	3.002	2.191
Brick, common, building, plant	do	14.323	14.005	13.913	14.021	13.717	13.616	13.052
Cement, Portland	Barrel	1.838	1.789	1.744	1.686	1.672	1.601	1.600
Linseed oil, raw, New York	Pound	.134	.139	.112	.105	.100	.123	.125
White lead, in oil, New York	do	.141	.156	.152	.140	.133	.138	.139
Glass, plate, 5 to 10 sq. ft., N. Y.	Sq. ft.	.638	.553	.478	.395	.385	.385	.375
Glass, window, single B, works	50 sq. ft.	3.389	3.095	3.110	2.980	3.080	3.420	3.420
Lime, building, plant	Ton	9.586	9.388	8.984	8.825	8.574	7.987	7.941
VIII.—CHEMICALS AND DRUGS								
Acid, sulphuric, 66°, New York	Ton	14.267	14.000	14.600	15.104	15.500	15.500	15.500
Alcohol, denatured, New York	Gallon	.511	.578	.367	.478	.530	.570	.498
Ammonia, anhydrous, New York	Pound	.289	.266	.131	.114	.135	.140	.154
Soda ash, light, 58 per cent, works	100 lbs.	--------	1.430	1.430	1.375	1.366	1.345	1.345
Soda, caustic, New York	do	3.280	3.200	3.200	3.078	2.950	2.950	2.950
Tallow, packer's prime, Chicago	Pound	.088	.097	.087	.081	.088	.085	.062
Alcohol, grain, New York	Gallon	4.802	4.859	4.855	3.741	2.701	2.745	2.645
Phenol, U. S. P., New York	Pound	.291	.224	.197	.169	.150	.138	.147
Acid phosphate, Baltimore	Ton	8.732	9.346	9.592	8.547	9.292	9.731	8.635
Nitrate of soda, 95 per cent, N. Y.	100 lbs.	2.526	2.579	2.550	2.495	2.232	2.157	2.076
Sulphate of ammonia, New York	do	3.047	2.861	2.628	2.427	2.484	2.213	1.791
Fertilizers, mixed, South Atlantic, 8-3-3, Series II.	Ton	--------	--------	23.200	21.792	22.900	22.400	21.588
IX.—HOUSEFURNISHING GOODS [5]								
Carpets, Brussels, factory	Yard	3.036	3.152	3.064	2.976	2.976	2.976	2.936
X.—MISCELLANEOUS								
Bran, Minneapolis	Ton	24.546	24.841	23.084	26.861	30.159	26.594	22.063
Cottonseed meal, prime, Memphis	do	41.020	36.313	28.542	35.604	47.042	38.542	31.833
Middlings, standard, Minneapolis	do	25.850	26.570	23.430	29.127	31.582	27.741	22.284
Paper, f. o. b. cars, destination, New York basis.	do	--------	--------	71.80	71.80	67.50	62.00	62.00
Paper, wrapping, manila, No. 1, jute, New York.	100 lbs.	10.490	11.660	11.030	9.230	9.125	9.125	9.125
Wood pulp, sulphite, domestic, unbleached, New York.	do	2.745	2.682	2.865	2.633	2.522	2.535	2.511
Rubber, plantation, ribbed, New York.	Pound	.434	.730	.487	.381	.226	.206	.119
Automobile tires, balloon, factory	Each	--------	--------	18.289	13.777	11.784	[6] 10.252	8.886
Cylinder oil, Pennsylvania	Gallon	.266	.284	.264	.251	.236	.357	.261
Neutral oil, Pennsylvania	do	.264	.241	.280	.332	.314	.269	.210
Soap, laundry, Philadelphia	100 cakes	4.867	4.921	4.851	4.851	4.851	4.851	4.851
Starch, laundry, New York	Pound	.056	.060	.058	.058	.058	.058	.057
Tobacco, plug, New York	do	.698	.696	.696	.696	.696	.696	.696
Tobacco, smoking, 1-ounce bag, New York.	Gross	8.898	8.320	8.320	8.320	8.320	8.320	8.320

[5] Owing to frequent changes in patterns announced by manufacturers, prices of individual articles of furniture are only roughly comparable from year to year and are not shown.
[6] Grade changed; figures not comparable with those for preceding years.

Source: Bureau of Labor Statistics, Department of Labor.

No. 341.—WHOLESALE PRICES: INDEX NUMBERS

NOTE.—Figures in boxes indicate number of quotations. Bradstreet's index is the sum of the prices per pound of the 96 commodities. Dun's is weighted by the amount "annually consumed by each inhabitant." For method of computing the Department of Labor index see general note, p. 333

[1926=100]

Year	Bradstreet's index	Dun's index	Department of Labor			
			All commodities	Raw materials	Semi-manufactured articles	Finished products
	96	300	550	108	62	380
1913	70.9	64.3	69.8	68.8	74.9	69.4
1914	68.9	64.8	68.1	67.6	70.0	67.8
1915	77.4	67.6	69.5	67.2	81.2	68.9
1916	93.3	80.3	85.5	82.6	118.3	82.3
1917	123.8	110.5	117.5	122.6	150.4	109.2
1918	145.2	121.9	131.3	135.8	153.8	124.7
1919	145.6	123.2	138.6	145.9	157.9	130.6
1920	140.6	129.3	154.4	151.8	198.2	149.8
1921	87.2	89.1	97.6	88.3	96.1	103.3
1922	95.3	92.3	96.7	96.0	98.9	96.5
1923	103.5	100.8	100.6	98.5	118.6	99.2
1924	100.0	100.9	98.1	97.6	108.7	96.3
1925	108.0	104.6	103.5	106.7	105.3	100.6
1926	100.0	100.0	100.0	100.0	100.0	100.0
1927	99.4	99.4	95.4	96.5	96.9	94.5
1928	102.4	103.1	97.7	99.1	97.4	97.0
1929	97.3	101.0	96.5	97.5	96.5	96.2
1930	81.8	91.3	86.3	84.3	82.2	88.4

No. 342.—COST OF LIVING IN THE UNITED STATES: INDEX NUMBERS

NOTE.—1913 average=100. Figures for food represent 51 cities since 1920 and a smaller number in earlier years; other figures, 19 cities from 1913 to December, 1917, inclusive, and 32 cities thereafter. Totals weighted by relative importance of items as ascertained by country-wide study of cost of living

Date	All items	Food	Clothing	Housing	Fuel and light	Furniture and furnishings	Miscellaneous
December, 1914	103.0	105.0	101.0	100.0	101.0	104.0	103.0
December, 1915	105.1	105.0	104.7	101.5	101.0	110.6	107.4
December, 1916	118.3	126.0	120.0	102.3	108.4	127.8	113.3
December, 1917	142.4	157.0	149.1	100.1	124.1	150.6	140.5
December, 1918	174.4	187.0	205.3	109.2	147.9	213.6	165.8
June, 1919	177.3	184.0	214.5	114.2	145.6	225.1	173.2
December, 1919	199.3	197.0	268.7	125.3	156.8	263.5	190.2
June, 1920	216.5	219.0	287.5	134.9	171.9	292.7	201.4
December, 1920	200.4	178.0	258.5	151.1	194.9	285.4	208.2
May, 1921	180.4	144.7	222.6	159.0	181.6	247.7	208.8
December, 1921	174.3	149.9	184.4	161.4	181.1	218.0	206.8
June, 1922	166.6	140.7	172.3	160.9	174.2	202.9	201.5
December, 1922	169.5	146.6	171.5	161.9	186.4	208.2	200.5
March, 1923	168.8	141.9	174.4	162.4	186.2	217.6	200.3
June, 1923	169.7	144.3	174.9	163.4	180.6	222.2	200.3
September, 1923	172.1	149.3	176.5	164.4	181.3	222.4	201.1
December, 1923	173.2	150.3	176.3	166.5	184.0	222.4	201.7
March, 1924	170.4	143.7	175.8	167.0	182.2	221.3	201.1
June, 1924	169.1	142.4	174.2	168.0	177.3	216.0	201.1
September, 1924	170.6	146.8	172.3	168.0	179.1	214.9	201.1
December, 1924	172.5	151.5	171.3	168.2	180.5	216.0	201.7
June, 1925	173.5	155.0	170.6	167.4	176.5	214.3	202.7
December, 1925	177.9	165.5	169.4	167.1	186.9	214.3	203.5
June, 1926	174.8	159.7	168.2	165.4	180.7	210.4	203.3
December, 1926	175.6	161.8	166.7	164.2	188.3	207.7	203.9
June, 1927	173.4	158.5	164.9	162.1	180.8	205.2	204.5
December, 1927	172.0	155.9	162.9	160.2	183.2	204.6	205.1
June, 1928	170.0	152.6	162.6	157.6	177.2	201.1	205.5
December, 1928	171.3	155.8	161.9	155.9	181.3	199.7	207.1
June, 1929	170.2	154.8	161.3	153.7	175.2	198.5	207.3
December, 1929	171.4	158.0	160.5	151.9	178.7	197.7	207.9
June, 1930	166.6	147.9	158.9	149.6	172.8	195.7	208.5
December, 1930	160.7	137.2	153.0	146.5	175.0	188.3	208.1

Source: Bureau of Labor Statistics, Department of Labor.

No. 343.—COST OF LIVING IN PRINCIPAL CITIES: INDEX NUMBERS

City	Index of total cost of living for December—							Index December, 1930, for—					
	1920	1925	1926	1927	1928	1929	1930	Food	Clothing	Housing	Fuel and light	House furnishing goods	Miscellaneous
Dec., 1914=100													
Baltimore, Md	196.8	181.2	178.6	174.5	173.9	175.1	165.8	136.9	158.1	161.3	185.6	186.0	226.5
Boston, Mass	197.4	174.7	171.9	169.5	168.2	168.4	159.2	136.7	172.6	144.7	195.7	207.6	192.3
Buffalo, N. Y	201.7	184.8	183.6	180.2	179.6	180.0	169.4	135.8	162.0	162.5	226.7	196.4	218.4
Chicago, Ill	193.3	180.6	179.0	174.3	173.1	173.7	162.2	145.6	137.2	171.1	154.8	182.7	204.5
Cleveland, Ohio	207.3	182.7	181.5	179.0	175.4	174.3	166.2	129.5	152.1	155.3	262.5	175.5	224.2
Detroit, Mich	218.6	187.8	184.1	179.0	177.4	177.8	161.6	132.6	150.2	160.0	171.0	166.5	225.1
Houston, Tex	204.0	174.3	170.6	167.9	166.4	168.0	154.7	132.8	165.6	123.8	124.0	213.8	192.3
Jacksonville, Fla	206.2	181.7	181.3	173.0	169.1	165.8	156.9	128.4	171.9	98.5	166.3	203.3	201.0
Los Angeles, Calif	196.7	177.4	172.2	170.6	171.0	168.7	158.2	121.0	160.2	136.9	147.6	193.0	210.4
Mobile, Ala	193.3	168.5	168.1	165.5	165.7	164.8	154.4	133.0	140.0	136.3	158.6	173.5	207.5
New York, N. Y	201.4	183.2	180.0	179.1	176.3	177.1	167.5	135.9	182.2	163.1	190.9	185.5	223.7
Norfolk, Va	209.0	176.4	174.6	173.4	174.1	173.5	164.8	136.7	166.2	133.3	197.0	173.5	219.0
Philadelphia, Pa	200.7	182.6	182.3	178.3	174.5	175.0	164.5	134.3	164.9	151.2	195.8	175.3	220.7
Portland, Me	193.1	170.3	169.2	167.0	166.6	165.8	157.2	138.5	160.4	119.3	199.9	205.8	195.9
Portland, Oreg	180.3	156.9	155.1	152.8	152.4	151.6	141.5	117.8	138.4	102.4	155.5	169.7	185.1
San Francisco and Oakland, Calif	185.1	164.7	161.7	160.7	161.7	160.8	151.5	132.0	172.0	126.1	132.0	191.6	182.0
Savannah, Ga	198.7	162.9	160.5	158.1	159.1	157.2	148.3	117.7	161.4	119.6	156.2	210.1	183.8
Seattle, Wash	194.1	171.7	169.1	166.9	167.1	168.7	158.4	122.5	159.7	147.8	164.0	228.0	197.6
Washington, D. C	187.8	167.3	166.0	160.8	160.2	159.2	151.8	141.3	155.4	128.7	136.6	193.0	176.8
Dec., 1917=100													
Atlanta, Ga	138.5	119.0	117.4	114.3	115.6	113.5	104.5	86.9	93.6	130.8	111.6	108.0	130.5
Birmingham, Ala	133.3	119.2	117.8	115.7	114.2	111.8	103.8	86.0	90.9	123.5	138.5	102.7	125.1
Cincinnati, Ohio	134.7	123.0	123.8	121.3	121.2	123.1	116.6	92.0	91.3	152.8	169.7	108.7	149.4
Denver, Colo	138.7	122.5	120.4	116.6	116.3	116.1	109.7	80.1	105.5	147.8	127.4	112.4	137.6
Indianapolis, Ind	137.6	124.3	122.3	119.2	118.5	118.8	110.8	85.8	98.4	123.9	130.2	105.6	150.4
Kansas City, Mo	139.5	118.1	115.2	111.9	111.3	111.7	107.7	84.2	101.0	119.8	122.0	98.9	144.3
Memphis, Tenn	139.3	122.1	119.9	117.3	117.5	116.5	110.4	80.8	97.6	135.8	157.9	110.7	138.8
Minneapolis, Minn	135.7	120.3	118.2	115.4	115.2	116.2	110.6	90.6	95.6	123.5	139.9	107.8	137.0
New Orleans, La	136.7	122.7	121.7	119.9	119.5	118.8	110.2	85.0	100.1	145.3	114.4	110.2	146.5
Pittsburgh, Pa	139.3	128.5	127.2	124.8	124.4	123.2	115.2	86.6	96.1	163.7	184.4	106.6	147.5
Richmond, Va	133.3	120.8	119.3	116.4	115.7	114.9	109.3	85.1	102.0	125.5	142.0	126.6	141.0
St. Louis, Mo	135.4	125.0	124.5	121.4	120.4	121.7	113.9	85.1	98.6	159.5	129.1	115.4	142.1
Scranton, Pa	139.1	132.0	129.8	128.5	127.8	127.3	119.5	91.9	110.7	159.1	166.1	122.9	156.8

Source: Bureau of Labor Statistics, Department of Labor.

No. 344.—RETAIL FOOD PRICES IN THE UNITED STATES: INDEX NUMBERS

NOTE.—1913 average=100. The principal commodities used in this index number are listed in Table 346. For index numbers for individual cities see Table 345

Year	Index numbers of— Retail price of food	Index numbers of— Purchasing power of the dollar measured in food	Year	Index numbers of— Retail price of food	Index numbers of— Purchasing power of the dollar measured in food	Year	Index numbers of— Retail price of food	Index numbers of— Purchasing power of the dollar measured in food
1890	70	143	1904	76	132	1918	168	60
1891	71	141	1905	76	132	1919	186	54
1892	69	145	1906	79	127	1920	203	49
1893	71	141	1907	82	122	1921	153	65
1894	68	147	1908	84	119	1922	142	70
1895	67	149	1909	89	112	1923	146	68
1896	65	154	1910	93	108	1924	146	68
1897	65	154	1911	92	109	1925	157	64
1898	67	149	1912	98	102	1926	161	62
1899	68	147	1913	100	100	1927	155	64
1900	69	145	1914	102	98	1928	154	65
1901	72	139	1915	101	99	1929	157	64
1902	75	133	1916	114	88	1930	147	68
1903	75	133	1917	146	68			

No. 345.—RETAIL FOOD PRICES IN PRINCIPAL CITIES: INDEX NUMBERS

NOTE.—1913 average=100. For average for all cities see Table 344

City	1916	1920	1924	1925	1926	1927	1928	1929	1930	1930 Mar.	1930 June	1930 Sept.	1930 Dec.
Atlanta, Ga	108	202	144	158	165	160	158	160	147	149	146	146	137
Baltimore, Md	113	207	152	164	168	161	159	161	151	153	152	150	142
Birmingham, Ala	116	209	150	165	168	161	159	160	150	151	150	150	142
Boston, Mass	112	203	149	158	162	157	156	158	151	152	150	149	143
Buffalo, N. Y	115	210	149	162	166	160	159	161	151	154	152	150	140
Charleston, S. C	108	207	149	159	164	157	156	158	151	154	151	150	142
Chicago, Ill	114	207	155	166	171	166	165	168	159	163	161	158	149
Cincinnati, Ohio	112	203	142	157	163	157	157	163	156	159	156	155	145
Cleveland, Ohio	114	208	145	156	162	155	153	154	144	146	145	143	133
Dallas, Tex	111	197	146	156	156	154	155	157	146	151	145	143	139
Denver, Colo	112	195	134	143	144	140	139	141	132	134	134	131	122
Detroit, Mich	114	215	151	165	169	163	160	164	150	154	152	149	137
Fall River, Mass	112	204	145	153	158	155	154	155	145	147	146	142	134
Indianapolis, Ind	114	202	141	151	157	151	151	155	146	149	149	145	132
Jacksonville, Fla	108	192	140	153	161	150	145	144	138	139	137	139	133
Kansas City, Mo	114	206	141	155	158	150	150	154	144	151	146	141	134
Little Rock, Ark	110	195	138	149	153	148	147	152	143	145	141	141	132
Los Angeles, Calif	102	184	141	149	146	143	143	146	134	138	134	133	124
Louisville, Ky	110	197	138	154	157	152	153	156	143	147	145	143	131
Manchester, N. H	113	206	145	152	157	153	154	154	145	147	146	144	134
Memphis, Tenn	111	204	137	150	152	146	148	151	141	144	142	139	129
Milwaukee, Wis	115	209	149	157	163	157	156	159	150	155	151	148	138
Minneapolis, Minn	114	208	143	154	159	152	153	157	148	152	152	146	139
Newark, N. J	111	195	143	151	154	150	150	151	143	145	143	141	135
New Haven, Conn	115	201	146	155	161	157	157	158	149	150	148	148	145
New Orleans, La	112	200	144	156	156	154	153	156	146	151	145	145	137
New York, N. Y	112	204	150	160	164	160	158	160	150	153	150	150	142
Omaha, Nebr	115	210	142	155	159	151	147	150	141	145	145	140	132
Philadelphia, Pa	113	201	147	159	164	160	158	159	149	151	149	147	140
Pittsburgh, Pa	112	202	148	158	162	158	156	160	147	149	149	149	137
Portland, Oreg	104	187	134	142	140	139	140	144	133	140	136	129	119
Providence, R. I	114	209	149	158	162	156	156	158	149	151	148	148	139
Richmond, Va	114	214	153	166	170	162	161	162	153	155	154	151	143
St. Louis, Mo	114	213	147	160	164	159	156	161	151	156	151	149	138
Salt Lake City, Utah	111	185	127	140	135	134	132	136	127	130	132	125	117
San Francisco, Calif	105	189	144	155	153	151	151	154	147	150	147	145	138
Scranton, Pa	112	208	148	161	165	162	163	164	154	157	156	152	145
Seattle, Wash	105	190	139	150	147	145	145	149	140	146	144	136	127
Washington, D. C	112	208	152	165	169	163	164	164	154	156	155	155	147

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

No. 346.—RETAIL PRICES OF PRINCIPAL ARTICLES OF FOOD IN THE UNITED STATES: ACTUAL AND RELATIVE

NOTE.—For index numbers 1913 average = 100. Data are averages of prices as reported by retail dealers as of the 15th of each month in 51 of the larger cities since the year 1920 and in a smaller number of cities for earlier years (39 in 1913)

Year or month	Sirloin steak		Round steak		Rib roast		Pork chops		Bacon		Lard	
	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index	Price	Index
	Per lb.		*Per lb.*		*Per lb.*		*Per lb.*		*Per lb.*		*Per lb.*	
1891–1895	-------	------	$0.123	55	-------	------	$0.112	53	$0.132	49	$0.100	63
1896–1900	-------	------	.127	57	-------	------	.111	53	.132	49	.091	58
1901–1905	-------	------	.141	63	-------	------	.137	65	.176	65	.116	73
1906–1910	[1]$0.192	76	.159	71	[1]$0.159	80	.167	80	.217	80	.136	86
1911–1915	.241	95	.213	96	.191	96	.201	96	.261	97	.150	95
1916–1920	.366	144	.338	152	.285	144	.356	170	.461	171	.290	184
1921–1925	.391	154	.337	151	.287	145	.331	158	.412	153	.190	120
1926–1930	.456	180	.401	180	.335	169	.368	175	.455	168	.190	121
1923	.391	154	.335	150	.284	143	.304	145	.391	145	.177	112
1924	.396	156	.338	152	.288	146	.308	147	.377	140	.190	120
1925	.406	160	.347	156	.296	150	.366	174	.467	173	.233	148
1926	.413	163	.356	160	.303	153	.395	188	.503	186	.219	139
1927	.426	168	.371	166	.313	158	.368	175	.472	175	.193	122
1928	.478	188	.420	188	.350	177	.348	166	.440	163	.186	118
1929	.500	197	.444	199	.367	185	.369	176	.435	161	.183	116
1930	.464	183	.412	185	.342	173	.359	171	.423	157	.170	108
March	.484	191	.430	193	.359	181	.361	172	.426	158	.169	107
June	.479	187	.427	192	.351	177	.366	174	.423	157	.166	105
September	.450	177	.397	178	.330	167	.391	186	.427	158	.175	111
December	.429	169	.377	169	.316	160	.314	150	.413	153	.167	106

Year or month	Hens		Eggs		Butter		Cheese		Milk		Bread	
	Per lb.		*Per doz.*		*Per lb.*		*Per lb.*		*Per qt.*		*Per lb.*	
1891–1895	$0.136	64	$0.214	62	$0.268	70	-------	------	$0.068	76	-------	------
1896–1900	.131	62	.199	58	.247	64	-------	------	.067	75	-------	------
1901–1905	.154	72	.254	74	.281	73	-------	------	.071	80	-------	------
1906–1910	.182	85	.304	88	.333	87	-------	------	.079	89	-------	------
1911–1915	.206	97	.341	99	.363	95	[2]$0.227	103	.088	99	[2]$0.063	113
1916–1920	.351	165	.527	153	.567	148	.358	162	.133	149	.096	171
1921–1925	.365	171	.483	140	.523	137	.352	159	.139	156	.091	163
1926–1930	.377	177	.460	133	.533	139	.372	168	.141	159	.091	162
1923	.350	164	.465	135	.554	145	.369	167	.138	155	.087	155
1924	.353	166	.478	139	.517	135	.353	160	.138	155	.088	157
1925	.366	172	.521	151	.548	143	.367	166	.140	157	.094	168
1926	.388	182	.485	141	.531	139	.366	166	.140	157	.094	168
1927	.369	173	.452	131	.556	145	.376	170	.141	158	.093	166
1928	.374	176	.464	134	.565	148	.385	174	.142	160	.091	162
1929	.397	186	.490	142	.551	144	.380	172	.143	161	.090	161
1930	.355	167	.410	119	.461	120	.351	159	.140	157	.087	155
March	.383	180	.353	102	.467	122	.364	165	.140	157	.088	157
June	.357	168	.336	97	.433	113	.349	158	.140	157	.088	157
September	.340	160	.431	125	.487	127	.342	155	.140	157	.087	155
December	.320	150	.416	121	.425	111	.332	150	.135	152	.085	152

Year or month	Flour		Corn meal		Rice		Potatoes		Sugar		Coffee	
	Per 1/8 bbl. bag		*Per lb.*		*Per lb.*		*Per pk.*		*Per lb.*		*Per lb.*	
1891–1895	$0.637	79	$0.020	67	-------	------	$0.235	92	$0.057	104	-------	------
1896–1900	.639	79	.018	60	-------	------	.211	83	.058	105	-------	------
1901–1905	.687	85	.022	73	-------	------	.263	103	.058	105	-------	------
1906–1910	.807	100	.027	90	-------	------	.271	106	.059	107	-------	------
1911–1915	.872	108	.031	103	[2]$0.089	102	.282	111	.061	111	[2]$0.298	100
1916–1920	1.637	202	.058	193	.130	149	.609	239	.115	209	.362	121
1921–1925	1.303	161	.045	151	.099	114	.453	178	.084	152	.410	138
1926–1930	1.309	162	.052	175	.103	118	.546	214	.068	124	.476	160
1923	1.152	142	.041	137	.095	109	.435	171	.101	184	.377	127
1924	1.201	149	.047	157	.101	116	.405	159	.092	167	.433	145
1925	1.495	185	.054	180	.111	128	.540	212	.072	131	.515	173
1926	1.470	182	.051	170	.116	133	.735	288	.069	126	.510	171
1927	1.348	167	.052	173	.107	123	.570	224	.073	133	.483	162
1928	1.323	164	.053	177	.100	115	.405	159	.071	129	.492	165
1929	1.250	154	.053	177	.097	112	.480	188	.066	120	.491	165
1930	1.152	142	.053	177	.095	109	.540	212	.062	113	.406	136
March	1.225	152	.053	177	.095	109	.585	229	.064	116	.419	141
June	1.176	146	.053	177	.095	109	.630	247	.061	111	.406	136
September	1.078	133	.053	177	.096	110	.480	188	.059	107	.395	133
December	1.004	124	.052	173	.092	106	.435	171	.059	107	.385	129

[1] 1907–1910 [2] 1913–1915

Source: Bureau of Labor Statistics, Department of Labor.

No. 347.—ANNUAL AVERAGE UNIT VALUES OF IMPORTANT DOMESTIC ARTICLES EXPORTED FROM THE UNITED STATES

NOTE.—The values of the goods are required by law to represent their market value at the port of exportation. The headnote to Table 348 also applies to this table

Year ended—	Bacon, hams, and shoulders, per pound	Pork, pickled, per pound	Eggs, per dozen	Milk: Condensed and evaporated, per pound	Butter, per pound	Cheese, per pound	Lard, per pound	Sole leather, per pound	Corn, per bushel	Rye, per bushel	Wheat, per bushel	Wheat flour, per barrel	Oil cake, and oil cake meal, per pound	Cottonseed oil, per pound [1]	Sugar, per pound	Rosin, per barrel [2]	Spirits of turpentine, per gallon	Tobacco, leaf, per pound	Cotton, per pound	Boards, planks, per M feet	Coal: Anthracite, per ton	Coal: Bituminous, per ton	Petroleum, crude, per gallon	Gasoline, naphtha, etc., per gallon	Kerosene, per gallon	Wire, per pound	Wire nails, per pound
June 30—	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Dols.	Dols.	Dols.	Dols.	Cts.	Cts.	Cts.	Dols.	Dols.	Cts.	Cts.	Dols.	Dols.	Dols.	Cts.	Cts.	Cts.	Cts.	Cts.
1904	11.4	8.5	22.3	-----	16.5	10.5	8.3	18.9	.54	.58	.81	4.05	1.1	36.9	3.5	2.56	.55	9.6	12.0	20.05	4.93	2.75	5.7	10.7	7.8	2.3	2.1
1905	10.5	7.9	21.9	-----	16.4	10.7	7.7	21.4	.53	.84	.89	4.55	1.1	29.4	4.1	3.06	.56	9.0	8.8	19.08	4.99	2.63	5.2	8.4	6.8	2.2	2.2
1906	10.1	8.2	21.0	-----	18.0	11.7	8.1	20.2	.53	.67	.82	4.25	1.3	31.2	3.8	4.06	.63	9.5	11.0	21.34	4.93	2.58	5.0	8.0	6.3	2.2	2.1
1907	10.1	9.1	22.1	-----	19.4	11.6	9.2	22.0	.53	.75	.79	3.99	1.3	40.8	3.9	4.42	.65	10.0	10.6	24.55	4.90	2.56	5.2	10.4	6.3	2.3	2.3
1908	10.9	8.9	20.3	-----	21.8	12.9	9.1	21.1	.65	.90	.99	4.61	1.3	42.0	3.8	4.20	.52	10.6	11.4	23.00	4.88	2.58	4.8	11.0	6.8	2.5	2.5
1909	10.9	8.8	23.0	-----	21.2	12.6	10.0	20.9	.70	.82	1.02	4.86	1.3	40.8	3.5	3.69	.49	10.9	9.4	21.40	4.97	2.55	4.1	9.1	6.6	2.3	2.2
1910	10.8	11.1	23.7	7.7	25.0	15.5	11.9	21.7	.69	.77	1.02	5.27	1.4	6.6	4.3	4.55	.56	10.8	14.0	21.83	4.94	2.49	3.1	8.1	6.2	2.4	2.1
1911	12.1	10.8	20.9	7.7	21.7	12.4	11.0	21.5	.56	.95	.93	4.88	1.4	7.6	4.1	6.42	.73	11.1	14.5	21.54	4.99	2.48	2.9	8.5	5.6	2.3	2.1
1912	13.3	9.5	22.0	8.8	24.1	14.2	9.8	22.0	.72	.81	.94	4.63	1.4	6.0	4.6	6.65	.51	11.5	10.2	22.14	5.11	2.54	3.3	9.0	5.7	2.2	2.0
1913	12.1	10.6	21.5	8.7	24.3	17.0	11.2	24.0	.59	.69	.97	4.67	1.4	6.6	3.8	6.19	.42	11.9	11.9	24.30	5.30	2.52	3.9	13.3	6.3	2.1	2.1
1914	13.1	10.8	23.1	8.3	23.8	17.1	11.3	25.6	.75	.70	.95	4.61	1.4	7.2	3.6	4.64	.43	12.1	12.8	23.94	5.27	2.49	4.7	14.3	6.4	2.1	2.1
1915	13.8	10.8	24.1	8.2	24.3	15.3	11.0	29.7	.81	1.17	1.28	5.86	1.4	6.9	4.7	4.53	.47	12.8	8.5	22.25	5.27	2.53	3.2	11.2	6.0	2.2	2.0
1916	13.9	10.6	23.2	8.0	26.6	16.7	11.2	34.8	.81	1.06	1.24	5.63	1.6	8.5	4.9	5.65	.47	12.1	12.3	23.76	5.25	2.43	3.5	16.3	6.4	2.9	2.6
1917	17.6	14.8	30.4	9.7	32.6	23.1	17.3	43.6	1.12	1.63	1.99	7.80	1.8	12.5	6.2	6.53	.49	14.7	18.1	26.00	5.56	2.94	4.1	20.8	5.4	3.9	3.8
1918	26.7	22.7	37.8	12.9	38.6	24.3	25.0	53.8	1.84	1.99	2.37	11.19	2.5	18.2	6.9	7.36	.53	24.1	28.7	41.50	6.16	3.89	5.0	23.6	8.9	5.1	5.2
Dec. 31—																											
1919	31.5	25.3	48.5	14.3	50.7	37.8	31.3	44.7	1.66	1.88	2.41	11.09	3.3	21.2	7.8	16.89	.98	33.9	33.9	49.45	8.25	4.66	6.0	23.8	12.2	5.5	5.3
1920	25.2	19.8	50.6	15.7	58.0	31.0	23.4	53.4	1.49	2.14	2.73	11.30	3.1	18.9	10.3	16.72	1.54	52.4	35.9	62.13	9.44	8.85	8.6	26.6	15.3	5.8	5.7
1921	17.9	12.8	32.5	9.3	40.8	23.1	13.0	34.6	.72	1.48	1.55	7.01	2.0	9.6	5.2	5.19	.65	39.7	16.2	37.93	10.92	5.94	5.4	23.1	12.5	5.5	5.0
1922	17.3	12.0	26.3	10.0	37.2	24.9	11.9	24.6	.70	.97	1.25	5.69	2.1	9.7	3.8	5.25	1.08	33.9	21.6	37.45	10.72	5.95	4.4	21.9	9.3	3.4	3.3
1923	14.4	11.7	27.5	11.4	43.9	26.2	12.6	26.5	.87	.91	1.18	5.40	2.2	10.6	6.5	5.14	1.07	32.1	29.6	46.24	10.91	5.46	3.2	16.3	9.0	3.9	4.0
1924	14.2	11.9	25.5	10.8	41.5	26.0	13.3	22.6	.97	1.10	1.43	5.70	2.1	10.6	5.5	5.30	.88	29.8	27.7	41.25	11.17	4.65	3.6	14.1	9.7	3.6	4.0
1925	20.1	16.0	30.1	11.8	45.1	26.3	17.1	25.9	1.12	1.30	1.72	7.65	2.1	10.4	3.7	9.02	.98	32.7	24.2	42.62	11.19	4.39	4.4	15.3	9.5	3.4	3.8
1926	21.6	16.5	28.8	12.5	46.1	28.6	15.5	28.6	.86	1.03	1.46	7.02	1.8	10.0	3.5	12.61	.92	28.5	17.4	39.97	11.42	4.95	4.4	14.8	10.9	3.4	3.4
1927	18.4	14.3	27.0	12.8	46.3	30.1	13.5	32.0	.85	1.10	1.42	6.65	1.9	8.7	4.1	9.36	.60	27.5	16.9	39.51	11.09	4.44	3.9	11.5	9.8	3.2	3.4
1928	16.5	14.2	30.4	12.7	47.7	30.7	13.0	36.3	1.02	1.20	1.25	6.23	2.3	9.0	3.5	8.40	.53	26.8	20.1	37.56	10.96	4.12	3.4	10.7	10.2	3.0	2.9
1929	17.9	14.3	33.8	12.7	47.0	27.8	12.7	27.5	1.01	1.05	1.24	5.91	2.2	9.2	3.0	7.96	.52	26.2	19.4	38.81	10.71	4.22	3.4	10.6	10.1	3.2	3.0
1930	17.9	13.7	27.2	12.2	41.7	25.7	11.4	22.4	.94	.88	1.00	5.31	1.9	8.5	2.4	6.30	.44	25.8	14.2	36.95	10.76	4.17	3.2	9.4	9.0	3.0	2.8

[1] Per gallon prior to 1910. Approximately 7½ pounds=1 gallon.

[2] Barrels of 280 pounds.

Source: Bureau of Foreign and Domestic Commerce.

No. 348.—ANNUAL AVERAGE UNIT VALUES OF IMPORTANT ARTICLES IMPORTED INTO THE UNITED STATES

NOTE.—The values are required by law to represent the values of the goods *in the foreign markets* whence exported to the United States. "Ton" signifies long ton of 2,240 pounds. The averages are obtained by dividing the total value of imports of the specified article by the total quantity, and as in some commodities there may be considerable variations in price between different grades, methods of packing, etc., and as the proportions of the grades, etc., may vary from year to year, the averages in such cases may show the actual price movements only roughly

Year ended—	Cheese, per pound	Fish, cured, per barrel (200 pounds)		Hides and skins, per pound		Rice, per pound	Wheat, per bushel	Copra, per pound	Flaxseed, per bushel	Cocoa, per pound	Coffee, per pound	Tea, per pound	Cane sugar, per pound	Rubber, crude, per pound	Shellac, per pound	Tobacco, leaf, per pound		Cotton, unmanufactured, per pound	Jute and jute butts, per ton	Flax, per ton
		Herring	Mackerel	Goat	Cattle											Cigar wrappers	Other leaf			
June 30—	*Cents*	*Dollars*	*Dollars*	*Cents*	*Cents*	*Cents*	*Dollars*	*Cents*	*Dollars*	*Cents*	*Cents*	*Cents*	*Cents*	*Cents*	*Cents*	*Dollars*	*Cents*	*Cents*	*Dollars*	*Dollars*
1904	14.5	6.58	13.86	27.8	12.9	2.5	1.10	--------	.95	12.3	7.0	16.2	1.94	68.5	32.1	.76	47.52	17.5	42.43	251.10
1905	14.6	6.50	12.12	27.6	13.2	2.5	.89	--------	1.08	11.6	8.8	15.8	2.64	74.2	35.0	.74	48.77	15.6	45.82	279.44
1906	15.8	7.47	12.19	28.6	14.0	2.5	.92	--------	1.41	10.9	8.6	15.6	2.14	78.0	32.4	.96	52.16	15.3	62.05	266.62
1907	16.9	7.50	12.28	31.3	15.3	3.0	.63	4.3	1.38	14.5	7.9	16.1	2.11	76.6	32.7	1.14	54.55	19.0	85.66	260.41
1908	17.2	6.78	13.74	27.2	12.2	2.9	.97	3.4	1.25	17.2	7.6	17.3	2.37	58.8	31.0	1.06	63.41	19.9	60.49	263.93
1909	16.5	6.80	10.47	25.0	12.4	2.7	.89	2.8	1.40	11.4	7.5	16.2	2.30	69.8	20.3	.95	65.58	15.7	46.06	257.57
1910	17.3	6.96	10.43	26.6	14.7	2.6	.92	3.6	1.71	10.5	7.9	16.0	2.59	100.0	13.2	.98	52.91	18.4	54.70	277.10
1911	17.4	7.24	9.50	25.0	14.4	2.8	.94	4.1	2.04	10.5	10.3	17.2	2.45	105.8	14.9	1.08	53.63	21.8	72.33	342.47
1912	18.9	7.79	12.19	24.4	15.3	2.4	.82	4.4	1.90	10.9	13.3	18.0	2.81	84.4	12.2	1.25	51.17	18.4	71.12	346.65
1913	18.6	8.24	10.35	25.7	17.3	3.7	.70	4.5	1.54	12.4	13.8	18.4	2.18	79.5	13.9	1.29	45.33	18.9	74.01	318.01
1914	17.3	7.21	10.98	26.2	18.6	3.2	.89	5.3	1.22	11.8	11.1	18.4	2.00	54.0	16.1	1.28	50.44	15.7	105.38	290.37
1915	18.7	6.57	12.27	24.3	18.3	2.4	1.10	3.8	1.25	11.9	9.5	18.1	3.21	48.3	12.5	1.28	46.44	12.5	56.26	399.60
1916	23.5	7.86	13.65	27.2	20.3	2.4	1.02	4.1	1.38	14.4	9.6	18.8	3.70	57.9	12.8	1.43	40.45	17.2	73.07	505.59
1917	30.8	9.44	16.14	52.5	25.9	2.8	1.74	5.1	2.03	11.8	10.1	18.6	4.33	56.8	23.4	1.34	47.83	27.5	87.50	535.00
1918	41.5	16.57	12.48	47.4	25.3	3.5	2.02	5.5	2.56	10.3	9.0	20.4	4.82	52.1	41.5	1.21	53.37	34.9	92.11	1,037.72
Dec. 31—																				
1919	35.9	13.65	25.00	71.5	30.8	7.0	1.88	6.4	3.16	14.8	19.6	24.9	5.60	40.2	48.6	1.40	83.10	41.0	134.51	904.21
1920	35.4	12.49	18.81	110.5	31.1	10.3	2.10	6.6	3.03	15.8	19.5	27.0	12.59	42.9	80.8	1.80	89.93	46.2	100.93	566.77
1921	32.3	11.05	15.32	37.8	12.9	3.4	1.54	3.9	1.66	7.6	10.7	18.6	3.94	17.8	48.9	2.00	92.84	23.7	93.08	566.91
1922	31.4	10.21	17.34	40.5	14.5	3.4	1.15	3.7	2.09	9.3	12.9	24.5	2.59	15.1	59.3	2.04	74.67	25.6	107.38	575.03
1923	32.4	9.95	15.91	43.9	16.0	3.3	.99	4.0	2.01	8.2	13.5	28.2	4.93	26.7	59.7	2.35	80.76	26.4	128.33	511.09
1924	29.2	12.09	17.37	39.3	13.1	4.0	1.00	4.4	1.81	7.8	17.6	29.3	4.39	23.7	53.5	2.56	97.77	30.3	114.02	515.19
1925	27.8	13.30	15.60	40.7	16.0	4.7	1.39	5.0	2.40	10.0	22.3	31.2	2.75	48.4	51.0	2.34	80.18	33.7	190.69	680.59
1926	26.9	12.09	12.05	44.6	14.7	4.5	1.39	5.1	1.84	10.0	21.6	32.7	2.47	54.6	33.6	2.25	75.48	25.5	215.06	478.07
1927	30.7	12.69	13.10	43.6	17.4	4.4	1.31	4.6	1.74	13.4	18.4	31.6	3.06	35.6	41.4	2.15	64.94	22.2	131.52	479.08
1928	30.3	12.98	13.96	46.0	23.1	4.2	1.17	4.5	1.78	12.4	21.3	30.3	2.68	25.0	42.4	2.06	63.64	24.9	129.45	698.47
1929	29.2	12.54	15.45	47.4	16.0	4.5	1.11	4.2	1.92	9.8	20.4	28.9	2.14	19.1	38.4	1.84	67.75	23.9	128.35	579.24
1930	26.7	14.13	12.40	40.7	13.0	3.8	.98	3.6	2.11	8.4	13.1	26.6	1.85	12.9	27.3	1.60	55.20	19.7	107.76	429.26

Year ended—	Hemp, per ton	Manila, per ton	Jute burlaps, per pound	Wool, per pound			Silk, raw, per pound	Pulpwood, per cord	Boards, planks, deals, per M feet	Wood pulp, per ton	Printing paper, per pound	Bituminous coal, per ton	Petroleum, crude, per gallon	Bar iron, per pound	Tin plates, terneplates, per pound	Copper, pigs, ingots, bars, per pound	Tin, bars, blocks, pigs, per pound	Sodium nitrate, per ton
				Carpet	Clothing	Combing												
June 30—	*Dollars*	*Dollars*	*Cents*	*Cents*	*Cents*	*Cents*	*Dollars*	*Dollars*	*Dollars*	*Dollars*	*Cents*	*Dollars*	*Cents*	*Cents*	*Cents*	*Cents*	*Cents*	*Dollars*
1904	148.06	173.96	--------	12	19	22	3.52	--------	15.07	24.88	--------	2.59	--------	2.0	2.7	12.8	26.60	31.54
1905	160.10	195.99	5.5	13	23	25	3.34	--------	15.35	26.87	--------	2.44	--------	1.9	2.8	13.6	27.55	34.31
1906	170.55	187.90	6.5	14	24	28	3.64	--------	15.60	29.16	--------	2.40	--------	1.9	2.8	15.1	33.32	35.08
1907	176.00	199.51	8.2	15	26	30	4.20	4.29	17.40	29.79	--------	2.48	--------	1.9	3.3	19.8	39.70	41.05
1908	174.92	171.05	7.4	15	22	27	4.13	5.40	19.23	30.79	--------	2.59	--------	2.0	3.0	16.8	32.72	38.03
1909	153.45	115.60	5.9	11	21	21	3.38	5.96	18.85	31.47	2.4	2.85	--------	1.8	2.7	13.3	28.54	35.61
1910	161.89	112.78	5.0	13	24	25	3.21	6.39	18.35	31.11	2.1	2.75	--------	1.8	2.8	12.5	30.52	30.60
1911	177.78	116.04	5.3	13	23	26	3.25	6.40	18.49	28.42	2.4	2.83	--------	2.0	3.2	11.9	36.67	31.25
1912	219.75	116.74	6.6	13	21	24	3.11	6.47	17.45	29.78	2.4	2.85	1.9	2.0	4.3	12.7	41.56	32.09
1913	193.67	171.08	8.9	14	23	25	3.15	6.71	17.34	32.14	2.4	2.77	1.5	2.0	3.4	15.3	46.30	35.17
1914	177.34	196.82	8.6	17	25	26	3.42	6.75	19.05	33.49	2.4	2.71	1.5	2.0	3.0	14.4	39.35	31.82
1915	217.73	180.12	7.0	17	23	25	3.09	6.67	18.96	33.82	2.4	2.90	1.4	1.9	3.3	13.4	32.44	28.34
1916	252.45	178.31	9.0	22	28	29	3.61	6.51	18.97	33.27	2.4	2.99	1.4	2.8	7.9	19.4	35.34	29.98
1917	258.02	225.00	10.8	29	36	39	4.61	6.78	20.86	60.71	3.1	3.23	1.4	4.1	10.8	26.1	39.97	35.06
1918	403.40	352.99	13.3	40	54	62	4.69	9.46	25.49	62.66	4.2	4.42	1.3	4.8	8.4	24.6	54.60	43.64
Dec. 31—																		
1919	561.59	280.95	14.9	38	51	59	7.35	9.99	32.38	65.24	3.5	5.48	1.2	5.1	12.4	20.7	56.73	48.00
1920	411.75	304.09	15.6	32	51	58	9.48	13.62	42.73	110.50	4.7	6.06	1.3	6.1	14.5	18.4	58.50	47.75
1921	255.56	184.71	8.7	12	22	20	5.71	14.23	35.06	63.30	5.0	6.56	1.3	4.7	12.1	12.7	30.71	48.71
1922	232.40	124.89	9.4	17	25	29	7.21	10.53	29.54	56.29	3.5	5.92	1.3	2.8	5.1	12.7	30.26	48.21
1923	288.61	130.32	11.2	21	37	38	7.92	9.95	31.75	60.52	3.7	6.03	1.6	2.6	5.2	14.5	39.56	47.05
1924	345.50	175.54	10.3	24	46	47	6.39	10.24	30.11	55.71	3.7	5.73	2.3	2.7	6.8	12.6	47.32	47.81
1925	458.87	290.51	13.6	30	46	53	6.21	10.20	30.33	55.09	3.6	4.90	2.9	2.0	12.6	12.9	55.40	47.23
1926	373.73	263.92	13.7	26	35	39	5.91	10.25	28.79	59.01	3.3	4.85	3.1	2.3	6.1	12.6	60.63	46.79
1927	309.08	255.49	11.8	26	34	37	5.27	10.32	27.82	57.37	3.3	4.98	3.2	2.0	8.0	11.8	63.30	40.24
1928	341.41	202.65	12.9	25	44	44	4.87	10.45	27.54	53.27	3.2	4.91	2.7	2.9	7.4	12.4	49.80	35.81
1929	290.74	186.95	12.0	27	38	38	4.90	10.81	28.07	52.75	3.0	4.88	2.4	3.0	11.2	16.1	47.06	37.52
1930	259.95	138.08	9.1	20	26	24	3.56	10.76	24.60	49.62	2.9	5.34	2.5	3.3	11.5	13.2	33.31	37.71

Source: Bureau of Foreign and Domestic Commerce.

15.—WAGES, HOURS OF LABOR, AND EMPLOYMENT

No. 349.—INDEX NUMBERS OF WAGES 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 603; 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.

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

Year	Index number	Year	Index number	Year	Index number	Year	Index number
1840	33	1863	44	1886	64	1909	90
1841	34	1864	50	1887	67	1910	93
1842	33	1865	58	1888	67	1911	95
1843	33	1866	61	1889	68	1912	97
1844	32	1867	63	1890	69	1913	100
1845	33	1868	65	1891	69	1914	102
1846	34	1869	66	1892	69	1915	103
1847	34	1870	67	1893	69	1916	111
1848	35	1871	68	1894	67	1917	128
1849	36	1872	69	1895	68	1918	162
1850	35	1873	69	1896	69	1919	184
1851	34	1874	67	1897	69	1920	234
1852	35	1875	67	1898	69	1921	218
1853	35	1876	64	1899	70	1922	208
1854	37	1877	61	1900	73	1923	217
1855	38	1878	60	1901	74	1924	223
1856	39	1879	59	1902	77	1925	226
1857	40	1880	60	1903	80	1926	229
1858	39	1881	62	1904	80	1927	231
1859	39	1882	63	1905	82	1928	232
1860	39	1883	64	1906	85	1929	[1] 233
1861	40	1884	64	1907	89		
1862	41	1885	64	1908	89		

[1] Subject to revision.

Source: Bureau of Labor Statistics, Department of Labor.

No. 350.—INDEX NUMBERS OF WAGES PER HOUR, COST OF LIVING, AND REAL WAGES

NOTE.—The general trend of wages per hour presented in Table 349 relate to the money received per hour by the wage earner as compensation for his work. The real measure of his wage, however, is not his money income, but what he is able to buy with it. In the following table, therefore, index numbers relating to wages 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 wage"

Year	Index numbers of—			Year	Index numbers of—		
	Wages per hour	Cost of living	Real wages		Wages per hour	Cost of living	Real wages
1913	100	100.0	100.0	1922	208	167.3	124.3
1914	102	103.0	99.0	1923	217	171.0	126.9
1915	103	105.1	98.0	1924	223	170.7	130.6
1916	111	118.3	93.8	1925	226	175.7	128.6
1917	128	142.4	89.9	1926	229	175.2	130.7
1918	162	174.4	92.9	1927	231	172.7	133.8
1919	184	188.3	97.7	1928	232	170.7	135.9
1920	234	208.5	112.2	1929	233	170.8	136.4
1921	218	177.3	123.0				

Source: Bureau of Labor Statistics, Department of Labor.

No. 351.—WAGES AND HOURS OF LABOR: Average Full-Time Hours per Week and Earnings per Hour in Specified Manufacturing Industries

NOTE.—General index based on 1913=100. Data are not collected annually, but at intervals; they are available, however, for some years not shown in this table unless otherwise indicated. For hours of labor in mines and quarries see Table 742; also consult index under "Wages" for data in other sections

TEXTILES

Year	Cotton goods													
	Weavers, male		Weavers, female		Spinners, frame, male		Spinners, frame, female		Speeder tenders, male		Speeder tenders, female		General index [1]	
	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	Hours per week	Wages per hour
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		
1910	58.8	0.151	57.8	0.147	57.2	0.120	59.0	0.108	61.4	0.131	57.8	0.133	102.1	87.5
1913	57.6	.170	56.7	.164	56.9	.143	57.8	.128	59.8	.145	56.5	.153	100.0	100.0
1916	56.7	.205	55.7	.201	56.6	.164	57.2	.149	58.5	.174	55.6	.188	98.6	120.6
1918	56.2	.301	55.4	.285	54.3	.248	56.1	.233	58.2	.265	55.0	.277	97.0	179.9
1920	51.8	.573	50.3	.528	50.7	.475	51.8	.427	54.2	.533	50.2	.486	89.7	323.5
1922	52.6	.389	51.6	.380	53.4	.292	52.6	.301	54.1	.358	51.0	.368	91.5	222.4
1924	52.8	.449	51.8	.429	53.2	.369	53.1	.319	54.3	.394	51.2	.411	91.8	250.7
1926	53.2	.396	51.9	.375	55.1	.289	53.5	.282	55.1	.343	51.0	.368	92.3	221.0
1928	53.4	.392	52.2	.371	57.8	.339	52.9	.276	55.1	.345	51.2	.359	92.5	218.3
1930	52.7	.400	52.0	.381	55.5	.322	53.5	.266	54.8	.343	51.3	.349	92.5	219.0

Year	Men's clothing													
	Cutters, cloth, male		Pressers, coat, male		Operators, coat, male		Operators, coat, female		Hand sewers, coat, female		Basters, coat, male		General index [1]	
1911	49.9	0.406	55.1	0.240	55.9	0.264	54.2	0.195	54.8	0.155	55.3	0.220	104.6	86.7
1913	49.0	.433	52.3	.291	52.5	.305	52.1	.199	52.1	.179	52.5	.267	100.0	100.0
1919	47.7	.628	47.8	.541	47.6	.591	48.1	.361	47.8	.334	47.5	.511	92.7	173.5
1922	44.0	1.033	44.1	.869	44.1	.962	43.9	.593	44.2	.526	44.3	.848	85.3	283.2
1924	44.2	1.111	44.2	.934	44.1	1.033	43.6	.614	44.1	.555	44.4	.889	85.3	295.7
1926	44.2	1.123	44.3	.933	44.1	1.034	44.4	.638	44.4	.545	44.3	.925	85.7	291.8
1928	43.8	1.129	44.0	.912	44.2	1.016	43.3	.632	43.9	.527	44.2	.905	85.1	284.4
1930	44.0	1.139	44.2	.867	44.3	.958	43.8	.570	44.2	.496	44.3	.834	85.7	272.7

Year	Woolen and worsted goods													
	Weavers, male		Weavers, female		Spinners, mule, male		Spinners, frame, female		Burlers, female		Laborers, dyehouse, male		General index [1]	
1910	57.1	0.207	56.3	0.180	57.0	0.224	56.0	0.122	56.5	0.130	56.3	0.143	101.3	90.4
1913	56.3	.232	56.0	.197	56.5	.239	55.5	.140	55.6	.146	55.6	.159	100.0	100.0
1916	54.9	.304	54.5	.271	55.3	.316	53.9	.180	54.6	.185	55.0	.197	97.8	126.7
1918	54.5	.470	54.1	.406	54.9	.499	52.4	.278	54.1	.276	54.7	.304	97.0	192.6
1920	48.3	.807	48.3	.747	48.2	.816	48.2	.481	48.4	.452	48.3	.564	86.2	353.7
1922	48.3	.616	48.4	.576	49.2	.670	48.4	.345	48.2	.371	48.9	.435	87.1	267.0
1924	48.8	.701	48.9	.654	48.9	.755	48.9	.417	49.2	.420	49.2	.490	87.7	300.2
1926	48.9	.652	49.2	.600	49.7	.695	49.8	.362	49.3	.381	49.4	.445	88.0	276.5
1928	48.9	.658	48.8	.605	49.5	.684	49.7	.383	49.3	.383	49.1	.463	88.0	289.5
1930	49.3	.636	49.2	.579	49.5	.659	49.1	.387	49.0	.354	49.4	.458	88.0	266.4

Year	Hosiery and underwear													
	Boarders, hosiery, male		Finishers, underwear, female		Knitters, web or tube underwear, male		Knitters, transfer, hosiery, female		Loopers, hosiery, female		Seamers, underwear, female		General index [1]	
1910	57.0	0.193	57.9	0.150	58.0	0.201	57.5	0.121	57.3	0.133	57.8	0.143	104.2	82.0
1913	55.8	.219	54.7	.184	55.4	.249	56.0	.149	56.0	.150	54.5	.176	100.0	100.0
1919	52.5	.450	51.9	.297	52.9	.407	53.0	.272	52.2	.296	51.3	.287	94.2	183.1
1922	51.3	.462	50.2	.327	51.8	.448	50.7	.293	50.8	.327	50.3	.325	91.9	213.0
1924	51.9	.531	49.8	.377	51.3	.528	50.8	.344	50.8	.384	50.3	.372	91.3	246.1
1926	53.4	.481	50.3	.358	52.0	.534	52.5	.298	52.4	.371	50.2	.374	92.4	266.6
1928	53.8	.521	50.2	.341	52.2	.490	53.1	.294	53.0	.385	50.2	.355	92.4	267.2
1930	53.7	.488	50.5	.341	52.5	.515	53.7	.273	53.1	.386	50.0	.354	92.9	273.3

[1] Covers all occupations of industry or branch of industry indicated, including those not shown.

No. 351.—Wages and Hours of Labor, Etc.—Continued

BOOTS AND SHOES

Year	Cutters, hand, male		Treers, male		Vampers, female		Bed-machine operators, male		Top stitchers, female		Lining makers, female		General index [1]	
	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	Hours per week	Wages per hour
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		
1910	56.3	0.319	55.9	0.259	56.9	0.238	56.4	0.311	56.3	0.188	56.5	0.164	102.7	92.0
1913	54.5	.351	55.3	.282	54.7	.246	55.2	.330	54.6	.210	54.6	.190	100.0	100.0
1916	53.9	.375	54.9	.291	53.9	.254	55.0	.349	54.0	.220	53.9	.198	99.1	107.5
1918	52.0	.484	52.3	.403	51.7	.312	52.1	.500	51.6	.285	51.5	.241	94.9	139.7
1920	47.8	.829	48.3	.677	48.8	.506	48.7	.789	48.5	.448	48.6	.378	88.2	232.0
1922	48.3	.787	48.6	.577	49.0	.480	48.9	.668	48.8	.433	48.8	.362	88.4	207.9
1924	48.4	.838	48.8	.624	49.4	.519	49.1	.692	49.3	.462	49.3	.369	88.9	214.1
1926	48.9	.808	49.2	.611	49.1	.531	49.1	.700	49.3	.486	49.3	.413	88.9	219.1
1928	48.6	.824	49.2	.624	49.3	.505	49.2	.682	49.4	.451	49.2	.398	89.2	220.3
1930	48.7	.796	49.1	.563	49.1	.465	49.0	.657	49.1	.419	48.8	.395	88.8	212.0

IRON AND STEEL

Year	Blast furnaces													
	Stockers		Larrymen		Blowers		Keepers		Keepers' helpers		Laborers		General index [1]	
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		
1913	78.0	0.192	82.3	0.217	82.2	0.332	82.0	0.235	82.2	0.186	72.5	0.171	100	100
1915	74.6	.188	78.6	.211	80.6	.336	79.4	.232	80.1	.182	71.3	.171	97	101
1917	77.4	.295	77.2	.327	77.8	.485	77.4	.344	77.6	.292	75.3	.281	(2)	(2)
1919	78.1	.465	80.4	.542	79.8	.755	80.6	.562	80.2	.480	77.9	.457	(2)	(2)
1920	75.5	.527	73.8	.586	73.2	.868	73.3	.635	74.5	.522	72.3	.474	94	279
1922	74.4	.352	75.1	.402	72.4	.678	75.3	.420	75.3	.349	67.7	.315	94	194
1924	60.5	.465	57.7	.548	58.3	.889	57.1	.579	58.6	.475	62.4	.401	78	254
1926	60.1	.465	57.9	.551	58.5	.902	57.4	.577	59.1	.471	62.4	.389	78	252
1929	62.6	.451	58.5	.552	58.7	.918	57.7	.579	59.5	.486	63.8	.373	79	258

Year	Open-hearth furnaces													
	Stockers		Charging-machine operators		Melters' helpers, first		Steel pourers		Ladle cranemen		Laborers		General index [1]	
1913	77.8	0.197	78.0	0.335	77.1	0.440	77.0	0.370	77.2	0.341	76.2	0.187	100	100
1915	77.3	.199	77.7	.330	75.5	.437	75.7	.356	76.0	.327	70.8	.186	97	104
1917	77.4	.296	77.1	.467	76.3	.586	76.0	.466	76.4	.466	74.4	.292	(2)	(2)
1919	75.7	.506	75.3	.753	74.9	.966	73.2	.796	75.6	.733	76.2	.468	(2)	(2)
1920	70.9	.573	67.2	.895	69.4	1.089	68.0	.929	68.3	.837	68.5	.525	90	283
1922	73.9	.379	72.2	.625	71.4	.775	70.4	.645	72.9	.588	67.9	.354	92	203
1924	58.2	.540	56.3	.863	55.5	1.064	56.5	.837	55.2	.832	59.0	.434	76	268
1926	57.8	.535	55.7	.951	55.3	1.170	55.6	.889	54.9	.900	59.2	.429	74	286
1929	57.9	.560	56.2	.958	55.9	1.247	56.3	.927	55.8	.941	60.5	.433	75	301

Year	Bar mills													
	Stockers		Rollers		Roughers		Finishers		Hotbed men		Laborers		General index [1]	
1913	60.2	0.216	59.3	0.985	59.8	0.436	59.6	0.350	60.3	0.217	62.5	0.169	100	100
1915	60.2	.198	59.4	.944	58.9	.438	59.8	.352	60.0	.216	62.9	.173	100	92
1919	63.7	.524	61.3	1.821	60.7	.933	61.6	.766	59.4	.545	66.1	.443	(2)	(2)
1920	61.5	.612	59.5	1.949	57.8	1.034	60.0	.866	58.8	.618	65.1	.506	100	248
1922	59.2	.420	58.4	1.416	57.3	.709	57.9	.638	58.3	.439	64.5	.316	100	169
1924	56.0	.502	53.9	1.577	54.7	.810	54.0	.749	53.8	.538	57.5	.392	90	203
1926	54.2	.519	53.2	1.699	53.2	.847	53.0	.848	53.0	.556	55.0	.411	89	205
1929	53.5	.530	55.0	1.822	55.8	.887	53.9	.952	54.5	.601	56.0	.399	90	217

[1] Covers all occupations of industry or branch of industry indicated, including those not shown.
[2] Not available. Data were collected for a group of selected occupations only in 1917 and 1919.

No. 351.—Wages and Hours of Labor, Etc.—Continued

IRON AND STEEL—Continued

Year	Tin-plate mills													
	Rollers		Roughers		Doublers, hand		Heaters, level-handed		Tinners, hand		Assorters, female		General index[1]	
	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	Hours per week	Wages per hour
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		
1913	42.7	1.139	42.7	0.533	42.7	0.740	42.7	0.595	43.6	0.433	53.7	0.163	100	100
1915	42.7	1.106	42.7	.562	42.7	.718	42.7	.611	43.3	.442	55.4	.162	109	103
1919	42.7	2.248	42.7	1.193	42.7	1.408	42.7	1.273	43.0	.977	48.5	.417	(2)	(2)
1920	42.7	2.542	42.7	1.363	42.7	1.655	42.7	1.465	42.9	1.114	46.9	.465	110	228
1922	42.7	1.701	42.7	.893	42.7	1.046	42.7	1.001	43.3	.795	43.3	.365	108	156
1924	42.7	2.099	42.7	1.150	42.7	1.243	42.7	1.229	43.4	.976	43.6	.422	106	191
1926	42.7	1.635	42.7	.902	42.7	.787	42.7	.917	43.5	.840	43.4	.384	104	169
1929	42.7	1.778	42.7	1.014	42.7	.912	42.7	.982	42.7	.907	46.1	.369	103	176

GENERAL INDEXES FOR OTHER BRANCHES—IRON AND STEEL

Year	Bessemer converters		Puddling mills		Blooming mills		Plate mills		Standard-rail mills		Sheet mills	
1913	100	100	(3)	(3)	100	100	100	100	100	100	100	100
1915	98	93	98	96	97	101	98	106	100	97	100	93
1920	100	238	101	270	92	249	98	263	86	249	96	215
1922	98	165	98	151	93	178	95	187	87	185	98	144
1924	75	220	105	220	75	231	82	220	81	226	96	167
1926	75	226	98	200	74	237	80	238	78	234	93	157
1929	77	226	95	209	75	251	83	251	79	247	93	164

FOUNDRIES[4]

Year	Core makers, males		Core makers, females		Laborers, males		Molders, hand, floor, males		Pattern makers, males		Employees in all occupations			
											Males		Females	
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.
1923	51.4	0.690	49.2	0.431	53.5	0.428	51.2	0.729	51.1	0.750	52.4	0.560	49.3	0.404
1925	50.3	.734	48.6	.444	52.5	.481	50.4	.802	50.4	.804	51.5	.612	49.0	.427
1927	50.4	.755	48.4	.491	52.1	.491	49.9	.820	50.3	.830	51.1	.626	49.0	.459
1929	49.9	.744	49.1	.469	52.1	.490	50.0	.828	50.1	.833	51.0	.625	49.7	.451

MACHINE SHOPS[4]

Year	Assemblers, males		Fitters and bench hands, males		Laborers, males		Lathe hands and operators, engine, males		Machinists, males		Employees in all occupations			
											Males		Females	
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.
1923	50.6	0.575	49.9	0.616	51.1	0.418	50.9	0.633	50.0	0.683	50.8	0.560	49.1	0.366
1925	49.6	.634	49.8	.643	50.6	.456	50.3	.663	49.9	.702	50.4	.604	49.3	.420
1927	50.1	.653	49.5	.662	50.4	.456	50.2	.695	49.5	.728	50.1	.629	48.9	.403
1929	50.1	.657	49.8	.677	50.5	.469	50.3	.717	49.8	.739	50.3	.641	49.3	.399

MOTOR VEHICLES[4]

Year	Assemblers, chassis and final, males		Assemblers, motor, males		Gear-cutter operators, males		Grinding-machine operators, males		Tool and die makers, males		Employees in all occupations			
											Males		Females	
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.
1922	50.3	0.644	50.0	0.661	50.2	0.678	50.0	0.710	50.0	0.769	50.1	0.662	50.3	0.438
1925	50.0	.721	49.8	.747	50.6	.746	50.1	.765	50.2	.875	50.3	.729	50.1	.467
1928	49.7	.768	50.1	.762	49.5	.760	48.8	.792	48.8	.919	49.4	.756	50.3	.487
1930	48.0	.681	48.8	.725	48.3	.740	47.6	.780	49.9	.887	48.7	.733	50.6	.437

[1] Covers all occupations of industry or branch of industry indicated, including those not shown.
[2] Not available. Data were collected for a group of selected occupations only in 1919.
[3] No data. [4] Data are available only for the years specified, see head note.

No. 351.—Wages and Hours of Labor, Etc.—Continued

LUMBER

Year	Doggers		Setters		Sawyers, head, band		Edgermen		Trimmer operators		Laborers		General index[1]	
	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	Hours per week	Wages per hour
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		
1910	(5)	(5)	(5)	(5)	61.2	0.543	61.2	0.255	61.0	0.209	61.3	0.166	100.3	97.3
1913	61.2	0.184	61.0	0.258	60.9	.557	61.0	.268	61.0	.217	61.1	.171	100.0	100.0
1915	61.3	.178	61.2	.239	61.0	.539	61.0	.252	61.1	.203	61.3	.157	100.0	91.4
1919	57.8	.358	57.0	.446	57.5	.768	57.5	.450	57.3	.405	57.1	.345	91.8	194.6
1921	58.1	.306	57.6	.412	57.8	.797	57.5	.437	57.0	.380	57.2	.285	93.6	166.5
1923	57.6	.343	57.0	.474	57.0	.883	57.1	.492	56.9	.430	57.5	.310	93.8	180.5
1925	58.2	.332	57.5	.458	57.7	.877	57.8	.468	57.7	.409	57.5	.309	93.8	178.0
1928	57.6	.335	56.5	.468	56.7	.887	56.7	.470	55.8	.429	56.9	.303	91.3	184.9
1930	57.9	.306	56.5	.451	55.9	.886	56.4	.461	55.8	.398	56.6	.291	91.2	179.0

FURNITURE[4]

Year	Assemblers and cabinet makers		Carvers, hand		Carvers, machine		Machine, hands		Upholsterers		Veneerers		General index[1]	
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		
1910	58.0	0.228	56.1	0.313	(3)	(3)	58.7	0.212	55.0	0.297	58.8	0.200	101.4	98.6
1911	58.3	.230	56.2	.312	(3)	(3)	58.8	.211	55.8	.300	58.7	.206	101.7	98.2
1912	58.1	.223	56.3	.313	(3)	(3)	58.5	.211	56.4	.291	58.3	.213	101.4	97.3
1913	57.2	.227	55.2	.317	(3)	(3)	57.8	.217	56.2	.295	57.3	.217	100.0	100.0
1915	57.1	.235	55.5	.322	56.6	0.286	57.5	.223	55.3	.312	57.0	.218	99.5	103.2
1920	52.1	.560	48.6	.956	51.1	.765	52.4	.512	50.1	.724	52.5	.454	89.9	236.3

SLAUGHTERING AND MEAT PACKING

Year	Cattle killing												Hog killing	
	Headers, male		Leg breakers, male		Floormen or siders, male		Gutters and bung droppers, male		Splitters, male		Laborers, male		Stickers, male	
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.
1917	(3)	0.384	(3)	0.318	(3)	0.563	(3)	0.319	(3)	0.591	(3)	0.238	(3)	0.357
1921	47.6	[6] .645	47.8	[6] .574	48.0	[6] .848	47.8	[6] .578	47.8	[6] .855	47.8	[6] .471	49.6	[6] .611
1923	52.1	.627	52.8	.529	52.6	.849	52.5	.554	52.5	.857	52.2	.436	53.0	.652
1926	50.0	.641	49.9	.558	49.9	.856	50.1	.575	50.0	.855	50.2	.442	51.8	.627
1927	49.0	.662	49.1	.556	49.2	.877	49.0	.587	49.1	.876	49.4	.451	50.3	.631
1929	48.6	.644	48.7	.580	48.7	.882	48.9	.598	48.7	.879	48.3	.466	50.0	.645

Year	Hog killing—Continued										All departments[7]			
	Scalders, male[8]		Shavers and scrapers, male		Gutters, bung droppers, and rippers-open, male		Splitters, male		Laborers, male[9]		All males		All females	
1917	(3)	0.295	(3)	0.290	(3)	0.337	(3)	0.364	(3)	0.237	(3)	0.271	(3)	0.178
1921	48.8	[6] .516	48.9	[6] .502	48.7	[6] .584	48.8	[6] .621	48.8	[6] .451	48.4	[6] .511	48.3	[6] .365
1923	52.1	.496	52.5	.497	52.4	.572	52.3	.627	52.2	.444	52.2	.499	52.8	.361
1925	51.9	.514	51.4	.523	51.9	.590	51.5	.635	51.7	.433	50.2	.507	49.4	.359
1927	50.5	.521	50.6	.535	50.4	.589	50.1	.639	51.0	.442	49.3	.520	49.1	.364
1929	50.2	.516	49.9	.528	50.0	.602	49.9	.654	49.8	.443	49.3	.525	49.5	.369

[1] Covers all occupations of industry or branch of industry indicated, including those not shown.
[3] No data.
[4] Data are available only for years specified, see head note.
[5] Data for doggers and setters not shown separately prior to 1911.
[6] Not including data for 1 establishment in which employees are paid biweekly.
[7] Includes cattle, hog, sheep, and calf killing, offal, hide, casing, cutting or fresh beef, cutting or fresh pork, lard and oleo oil, sausage, cured meat, canning, and maintenance and repair departments.
[8] Includes tubmen, droppers, gamb cutters, polemen, and duckers.
[9] Includes drivers, penners, steamers, singers, washers, aitchbone breakers, and toe pullers.

Source: Bureau of Labor Statistics, Department of Labor.

No. 352.—WAGES PER HOUR AND HOURS OF LABOR PER WEEK IN THE PETROLEUM INDUSTRY, 1929

NOTE.—The four States shown accounted for about 85 per cent of the total petroleum production in the United States in 1928. The "general average," which covers all occupations of the industry indicated, including those not shown separately, is weighted according to the relative importance of the occupations

District	Oil wells													
	Derrick men		Drillers		Drillers' helpers and clean-outs' helpers		Engineers and pumpers		Firemen		Laborers, roustabouts, and connection men		General average	
	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	Hours per week	Wages per hour
		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.		Dolls.
California	48.0	0.991	48.0	1.369	48.0	0.888	48.0	0.812	48.0	0.769	48.0	0.734	48.0	0.917
Louisiana, northern	70.5	.511	75.6	.819	76.5	.438	71.3	.494	79.8	.468	67.3	.472	69.9	.522
Louisiana, southern	65.9	.562	68.2	.954	66.9	.496	72.2	.516	70.3	.521	63.6	.488	66.7	.572
Oklahoma	84.0	.602	74.5	1.080	66.5	.616	73.8	.454	78.0	.486	56.5	.522	62.6	.553
Texas, Gulf	60.4	.582	61.1	.969	59.2	.533	76.2	.479	69.8	.512	58.8	.519	62.5	.585
Texas, other	76.2	.505	80.3	.881	77.4	.501	81.5	.435	82.1	.479	65.0	.491	67.4	.535

District	Pipe lines													
	Engineers and pumpers		Firemen		Gaugers		Laborers, roustabouts, and connection men		Line walkers		Telegraph operators		General average	
	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	Hours per week	Wages per hour
California	48.0	0.871	48.0	0.799	48.0	0.900	48.0	0.704	48.0	0.745	------	------	48.0	0.803
Louisiana [1]	57.4	.673	53.6	.630	59.5	.726	55.1	.437	57.4	.604	50.1	0.668	55.5	.612
Oklahoma	58.3	.694	51.1	.711	64.1	.698	55.4	.456	56.5	.613	48.4	.720	56.3	.590
Texas, Gulf	55.5	.666	55.4	.605	53.9	.694	55.5	.479	56.4	.632	50.1	.690	55.2	.577
Texas, other	57.1	.681	55.3	.629	61.5	.661	61.9	.493	69.8	.565	52.6	.666	60.4	.591

[1] Northern and southern Louisiana districts combined to avoid disclosing the identity of establishments

Source: Bureau of Labor Statistics, Department of Labor.

No. 353.—WAGES PER HOUR IN THE COAL-MINING INDUSTRY

NOTE.—Practically all 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 relative importance of the different occupations. Data are not collected annually, but at intervals, and are available only for the years specified

Industry and occupation	1922	1924	Industry and occupation	1922	1924	1926	1929
Anthracite: [1]			**Bituminous:**				
Average wages (cents per hour)—			Average wages (cents per hour)—				
General average	79.5	85.7	General average [2]	85.3	78.8	76.3	65.9
Contract miners	117.3	143.2	Brakemen [1]	77.9	71.0	68.7	59.6
Laborers	82.9	97.1	Drivers [1]	82.4	74.8	70.8	63.7
Drivers	58.0	63.2	Loaders, hand [3]	90.2	81.1	77.9	64.8
Company miners	69.7	79.5	Miners, hand or pick [3]	84.0	80.8	78.3	67.3
Laborers	62.9	69.6	Miners, machine [3]	127.4	116.3	119.5	101.8
Trackmen	67.5	74.1	Trackmen [1]	82.6	73.7	70.5	63.5

[1] Based on hours actually worked, excluding lunch time.
[2] 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.
[3] Based on hours actually worked, plus lunch time.

Source: Bureau of Labor Statistics, Department of Labor.

No. 354.—WAGES PER HOUR AND HOURS OF LABOR PER WEEK IN SUNDRY INDUSTRIES

NOTE.—The averages for wages are weighted according to the relative importance of the different occupations in the industry. Data are available only for the years specified

Year and industry	Hours, average		Wages, average	
	Males	Females	Males	Females
1923			*Cents*	*Cents*
Automobile tire	49.6	49.0	74.1	46.0
Paper and pulp mills:				
Pulp	52.8	49.7	46.9	33.4
Book paper	51.4	51.5	52.7	31.9
Newsprint	49.3	50.3	58.9	32.9
Wrapping paper	52.4	52.7	52.8	30.2
Writing paper	51.3	51.2	55.1	37.9
1924				
Metalliferous mines	53.0	-------	55.9	-------
1925				
Paper box board	54.3	53.9	51.8	28.3
Potteries:				
Semivitreous	(1)	(1)	70.5	38.5
Vitreous	(1)	(1)	63.8	32.9
1927				
Aluminum, brass, and copper wares	52.2	52.6	57.9	35.5
Brass and copper sheet, rod, tube, wire and shape mills	53.8	54.7	55.6	34.8
1927—Continued			*Cents*	*Cents*
Batteries and small motors:				
Dry cell	49.5	49.3	54.1	41.6
Storage	48.6	49.2	69.8	39.2
Motors (1 H. P. or less)	48.9	48.0	64.2	42.9
Radio manufacture:				
Receiving sets	48.5	48.3	59.0	38.4
Speakers	48.4	46.8	55.5	39.9
Tubes	48.9	48.5	60.2	40.7
Cotton compresses	56.2	[2] 55.9	31.6	[2] 13.2
Cottonseed-oil mills	70.9	(3)	24.0	(3)
Cotton gins	66.2	(3)	29.3	(3)
1929				
Aircraft engines	48.9	(3)	70.6	(3)
Airplanes	47.9	47.3	66.9	38.0
Portland cement	60.8	52.0	51.8	38.9
1930				
Cigarettes	49.9	49.9	37.8	26.8
Dyeing and finishing of textiles	51.0	50.5	47.3	33.5
Rayon and other synthetic textiles	51.1	49.0	50.4	34.4
Cane-sugar refining	59.3	51.5	47.2	28.9

[1] The normal or customary hours of operation of the great majority of the potteries included in the study are 9 hours per day and 54 hours per week. Working hours in a pottery, however, are more nominal than normal, as so many employees are pieceworkers and to quite an extent determine their own time.
[2] All female workers were "Colored." [3] No females employed in the plants covered.

No. 355.—WAGES OF COMMON LABOR IN ROAD BUILDING: CENTS PER HOUR

NOTE.—The current data beginning January, 1922, are compiled directly from Federal-aid project reports. 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
Monthly average:										
1915	20	20	20	14	12	16	21	25	26	26
1916	23	25	24	16	13	17	24	28	29	28
1917	28	31	30	21	17	21	29	34	36	36
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
1929										
March	37	51	44	23	27	33	42	37	43	52
June	40	51	42	29	26	32	38	37	47	52
September	41	51	43	29	25	31	39	37	48	54
December	40	51	45	27	25	31	39	38	50	53
1930										
March	39	52	44	25	27	28	38	37	46	53
June	40	49	43	26	25	28	38	37	48	54
September	40	50	42	23	24	27	38	37	48	53
December	37	51	41	22	22	28	37	37	45	51

Sources: Table 354, Bureau of Labor Statistics, Department of Labor; Table 355, Bureau of Public Roads, Department of Agriculture.

No. 356.—AVERAGE HOURLY ENTRANCE 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	1926			1927		1928		1929		1930
	Jan. 1	July 1	Oct. 1	Jan. 1	July 1	Jan. 1	July 1	Jan. 1	July 1	July 1
Industries reporting	[1] 40.2	42.8	43.4	43.2	42.6	43.0	44.9	45.0	43.7	43.1
Automobiles	46.6	46.1	44.3	45.6	46.3	50.5	57.2	55.9	49.9	48.2
Brick, tile, and terra cotta	41.7	40.7	38.1	40.2	42.2	38.0	39.4	37.8	37.8	38.0
Cement	40.4	40.1	40.1	39.6	39.2	38.3	37.2	37.9	37.8	37.9
Electrical machinery, apparatus and supplies	41.5	43.1	45.2	43.0	44.2	44.9	46.0	45.7	45.9	44.8
Foundry and machine-shop products	36.7	37.1	38.9	38.7	37.8	38.1	38.4	39.4	39.8	39.0
Iron and steel	41.4	42.7	42.3	42.7	43.2	42.6	42.5	42.5	42.5	42.1
Leather	40.7	40.9	38.8	43.1	41.4	42.1	42.3	42.1	42.2	41.9
Lumber (sawmills)	30.6	33.6	33.4	33.4	32.2	31.0	31.7	30.8	32.0	31.6
Paper and pulp	40.5	42.8	42.6	43.8	42.5	44.2	44.3	43.1	44.0	43.2
Petroleum refining	49.1	47.9	48.4	46.4	44.0	44.5	45.4	48.0	45.7	48.1
Slaughtering and meat packing	41.2	41.5	41.9	41.9	41.7	41.8	42.2	41.2	42.0	41.8
Public utilities [2]	40.6	42.0	41.7	39.4	39.8	41.2	42.9	41.9	42.8	44.6
General contracting [3]	(4)	47.1	49.5	49.8	48.2	48.2	47.4	48.6	48.3	47.0
United States	[1] 40.2	42.8	43.4	43.2	42.6	43.0	44.9	45.0	43.7	43.1
New England	41.7	47.1	47.8	47.4	46.7	47.3	48.2	46.4	48.0	49.5
Middle Atlantic	42.6	45.1	46.9	46.8	47.2	48.7	47.8	47.6	46.4	46.1
East North Central	45.0	48.0	47.5	47.6	46.7	47.4	51.6	52.2	48.4	47.0
West North Central	39.4	40.1	40.6	41.0	40.6	41.1	41.3	41.0	41.8	40.6
South Atlantic	33.8	32.8	33.2	33.0	31.5	29.4	29.4	29.2	30.2	32.1
East South Central	26.3	27.6	27.4	27.0	27.0	26.7	26.0	26.3	26.8	26.7
West South Central	29.6	32.5	30.7	32.4	31.8	30.9	33.8	32.9	35.6	33.0
Mountain	40.3	44.4	44.8	46.3	44.4	43.7	44.0	45.1	44.9	45.2
Pacific	45.6	45.9	46.5	46.2	46.5	46.6	46.9	48.4	47.9	47.6

[1] Excludes data for "General contracting."
[2] Includes street railways, gas works, waterworks, and electric power and light plants.
[3] Includes building, highway, public works, and railroad construction.
[4] Data not available.

Source: Bureau of Labor Statistics, Department of Labor.

No. 357.—FEDERAL RESERVE BOARD INDEXES OF EMPLOYMENT AND PAY ROLLS IN MANUFACTURING INDUSTRIES: REVISED SERIES

NOTE.—**Monthly average, 1923–1925=100.** Indexes are corrected for trend shown by biennial census data and are somewhat more comprehensive than those shown by the Department of Labor (Table 358). They are without seasonal adjustment. For details see Federal Reserve Board Bulletin for November, 1929, pages 706–716

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
EMPLOYMENT													
1921	81.3	82.7	83.1	82.1	82.2	81.3	79.9	81.4	83.3	84.0	84.2	83.3	82.4
1922	82.6	84.4	85.6	85.4	87.6	89.5	87.0	90.3	93.6	96.5	98.5	100.0	90.1
1923	100.6	102.4	104.9	105.2	105.3	105.9	104.8	105.5	105.9	104.8	103.4	101.3	104.2
1924	99.9	101.1	101.4	99.7	96.3	93.5	90.5	91.8	94.3	95.1	94.6	95.9	96.2
1925	96.4	98.2	99.5	99.3	98.4	98.2	98.1	99.8	102.0	102.4	101.9	101.6	99.7
1926	100.8	101.9	102.6	101.9	100.9	100.7	99.3	101.1	103.5	103.2	101.2	100.0	101.4
1927	98.1	99.7	100.4	99.8	99.1	99.0	98.0	99.2	100.6	99.3	96.9	95.5	98.8
1928	94.2	95.7	96.6	96.0	95.7	96.2	95.7	98.3	100.3	100.2	98.8	98.1	97.2
1929	97.5	99.8	101.4	102.1	101.9	102.0	102.1	104.0	105.4	103.3	98.9	95.2	101.1
1930	93.2	93.3	93.1	92.6	90.9	88.8	85.5	85.1	86.4	84.3	81.0	78.8	87.8
PAY ROLLS													
1921	84.0	82.3	82.4	79.6	78.0	76.1	72.2	74.4	73.9	73.1	72.0	73.6	76.8
1922	69.7	72.7	74.8	73.8	77.2	80.4	77.6	82.4	86.5	89.4	93.1	95.6	81.1
1923	94.1	97.8	102.8	103.9	107.3	107.5	103.2	104.2	104.8	107.2	104.9	103.1	103.4
1924	98.4	103.6	103.8	101.4	96.8	91.7	85.1	88.9	92.3	95.2	93.5	97.6	95.7
1925	95.4	100.9	103.0	100.4	100.7	98.7	97.1	99.5	99.4	105.2	105.1	105.5	100.9
1926	101.2	105.6	107.4	105.3	103.8	103.8	99.3	103.6	105.0	108.3	104.6	103.8	104.3
1927	98.6	104.8	106.3	105.0	104.3	102.5	98.6	102.2	101.9	102.5	98.5	99.4	102.0
1928	95.7	101.1	102.5	100.3	100.8	100.9	98.3	102.5	104.2	107.5	103.6	104.2	101.8
1929	100.8	108.1	110.8	111.4	111.4	109.7	105.7	110.6	111.9	110.9	102.5	99.1	107.7
1930	94.4	97.7	98.2	97.1	94.5	90.7	82.6	81.7	83.0	80.8	75.1	73.7	87.4

Source: Federal Reserve Board.

No. 358.—EMPLOYMENT AND PAY-ROLL INDEXES IN MANUFACTURING INDUSTRIES

NOTE.—**Monthly average 1926=100.** Indexes are based on returns from 12,500 establishments in 54 principal industries shown in Table 362, employing approximately 3,500,000 persons. Returns cover one week, ending on or about the 15th, in each month. Indexes are weighted according to the relative importance of the industries included. See also Table 357

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
EMPLOYMENT													
1924	103.8	105.1	104.9	102.8	98.8	95.6	92.3	92.5	94.3	95.6	95.5	97.3	98.2
1925	97.9	99.7	100.4	100.2	98.9	98.0	97.2	97.8	98.9	100.4	100.7	100.8	99.2
1926	100.4	101.5	102.0	101.0	99.8	99.3	97.7	98.7	100.3	100.7	99.5	98.9	100.0
1927	97.3	99.0	99.5	98.6	97.6	97.0	95.0	95.1	95.8	95.3	93.5	92.6	96.4
1928	91.6	93.0	93.7	93.3	93.0	93.1	92.2	93.6	95.0	95.9	95.4	95.5	93.8
1929	95.2	97.4	98.6	99.1	99.2	98.8	98.2	98.6	99.3	98.3	94.8	91.9	97.5
1930	90.2	90.3	89.8	89.1	87.7	85.5	81.6	79.9	79.7	78.6	76.5	75.1	83.7
PAY ROLLS													
1924	98.6	103.8	103.3	101.1	96.5	90.8	84.3	87.2	89.8	92.4	91.4	95.7	94.6
1925	93.9	99.3	100.8	98.3	98.5	95.7	93.5	95.4	94.4	100.4	100.4	101.6	97.7
1926	98.0	102.2	103.4	101.5	99.8	99.7	95.2	98.7	99.3	102.9	99.6	99.8	100.0
1927	94.9	100.6	102.0	100.8	99.8	97.4	93.0	95.0	94.1	95.2	91.6	93.2	96.5
1928	89.6	93.9	95.2	93.8	94.1	94.2	91.2	94.2	95.4	99.0	96.1	97.7	94.5
1929	94.5	101.8	103.9	104.6	104.8	102.8	98.2	102.1	102.6	102.3	95.1	92.0	100.4
1930	87.6	90.7	90.8	89.8	87.6	84.1	75.9	73.9	74.2	72.7	68.3	67.4	80.3

Source: Bureau of Labor Statistics, Department of Labor.

No. 359.—MANUFACTURING ESTABLISHMENTS: AVERAGE PERCENTAGE OF FULL FORCE EMPLOYED AND OF FULL TIME ACTIVE, OPERATING ESTABLISHMENTS ONLY

NOTE.—Statistics cover the same industries as Table 358, but the reports are somewhat less complete, covering usually about 10,000 establishments.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Average percentage of normal full force employed:												
1925	82	83	83	83	82	82	82	85	84	85	85	85
1926	85	87	87	87	86	85	86	87	88	88	87	87
1927	86	87	88	88	87	87	87	87	89	88	85	84
1928	84	85	86	86	87	87	87	87	90	90	89	89
1929	91	93	92	93	93	93	92	93	93	92	89	87
1930	87	87	87	87	85	84	80	78	78	77	76	(1)
Average percentage of full time operated:												
1925	92	93	93	92	92	92	92	94	93	94	94	94
1926	93	94	94	93	93	92	96	97	98	98	97	97
1927	96	97	97	97	97	96	97	97	97	97	96	96
1928	96	96	96	96	96	97	96	97	97	98	97	98
1929	97	98	98	98	98	98	97	98	98	98	97	96
1930	95	95	95	94	94	93	91	91	92	92	90	90

[1] Data discontinued beginning December, 1930.

Source: Bureau of Labor Statistics, Department of Labor.

No. 360.—EMPLOYMENT AND PAY-ROLL INDEXES IN MANUFACTURING ESTABLISHMENTS: BY GEOGRAPHIC DIVISIONS

NOTE.—**Monthly average 1926=100.** Figures are unweighted relative numbers. As to scope of reports on which indexes are based see head note Table 358

Year and month	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
	Employment								
1926									
March	104.4	102.1	103.6	99.0	102.1	102.8	98.8	95.6	96.5
June	98.4	99.2	99.9	100.1	98.1	98.6	100.5	103.1	102.5
September	99.1	99.7	100.9	102.0	100.6	98.7	101.2	103.4	101.8
December	99.5	98.9	94.1	98.2	101.4	97.2	99.8	100.4	97.8
1927									
March	99.4	97.8	99.0	96.6	102.9	95.4	97.4	93.0	97.0
June	95.3	94.0	97.7	99.5	100.9	93.0	94.9	99.0	101.7
September	95.5	93.6	94.5	98.9	101.8	92.6	95.3	98.2	100.7
December	92.0	90.6	91.5	93.3	99.9	92.0	90.8	93.4	94.6

No. 360.—Employment and Pay-Roll Indexes in Manufacturing Establishments: By Geographic Divisions—Continued

Year and month	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
	Employment—Continued								
1928									
March	90.9	89.4	100.1	96.0	100.0	91.8	89.6	90.0	93.8
June	85.8	88.3	102.7	98.7	96.5	90.0	89.0	97.2	99.3
September	88.0	89.4	107.5	97.1	98.2	90.8	92.1	97.6	101.5
December	91.6	91.1	104.2	96.1	99.0	91.3	90.2	95.3	95.5
1929									
January	91.1	90.9	107.0	95.9	98.0	92.1	88.4	92.6	92.7
February	92.2	93.1	111.8	97.9	100.1	92.3	89.6	89.0	92.0
March	92.8	94.0	113.4	97.3	101.6	93.1	93.0	92.2	94.3
April	92.6	94.2	114.2	97.9	101.5	93.5	94.1	94.3	98.2
May	92.2	94.7	114.9	98.9	100.2	90.7	93.3	97.7	100.9
June	91.3	95.3	112.3	100.6	100.3	91.8	93.2	101.7	101.2
July	91.0	95.4	111.2	100.6	98.8	92.0	95.7	100.5	101.8
August	90.8	96.0	110.9	101.4	99.9	93.3	97.3	103.1	102.2
September	92.5	96.5	110.7	101.9	100.2	93.9	99.8	100.3	100.8
October	92.8	96.3	107.0	100.7	100.2	94.0	99.6	98.5	99.9
November	89.8	94.2	98.0	98.0	99.4	91.9	97.8	98.6	96.9
December	87.2	91.3	93.8	94.8	97.2	88.1	93.4	94.4	92.8
1930									
January	85.9	89.6	94.1	93.2	95.7	85.7	90.3	88.3	87.3
February	85.6	89.0	95.8	94.9	95.8	86.8	89.7	86.0	85.4
March	84.4	89.0	95.1	93.9	96.4	84.5	88.4	85.5	86.6
April	82.7	87.7	95.2	93.1	96.5	84.5	87.2	85.4	87.5
May	80.7	86.0	94.7	92.2	94.0	81.9	84.6	88.8	87.3
June	78.8	84.0	91.5	90.9	91.9	78.9	83.4	89.2	86.4
July	74.9	81.3	86.2	88.1	88.6	75.0	79.9	86.3	82.5
August	74.1	80.4	82.9	86.4	86.7	74.7	77.9	83.1	81.3
September	75.0	81.7	81.2	86.1	87.3	73.3	77.0	79.7	81.0
October	75.3	81.7	79.1	85.0	86.2	72.7	74.1	77.9	79.9
November	73.8	79.7	77.0	83.4	85.1	70.0	71.2	76.6	76.8
December	71.6	77.0	76.8	81.9	83.5	68.6	70.2	74.7	72.5
	Pay-roll totals								
1926									
March	106.7	103.2	106.5	100.4	103.1	103.8	97.6	97.2	97.2
June	97.4	99.6	100.2	102.2	97.4	98.7	100.5	104.3	104.6
September	98.2	99.4	99.4	101.2	99.6	97.0	100.8	101.0	101.2
December	100.1	100.4	92.1	96.4	104.0	99.3	102.9	102.6	99.0
1927									
March	101.5	99.8	102.9	96.5	104.1	98.1	100.3	97.6	99.0
June	96.0	94.1	97.4	99.9	100.3	93.7	98.5	102.1	104.0
September	96.7	92.3	91.7	96.8	99.9	91.8	98.0	97.9	100.5
December	92.0	90.6	92.3	92.1	99.4	91.1	94.7	91.2	97.9
1928									
March	90.2	90.6	105.4	97.4	99.5	91.9	93.0	94.1	96.6
June	86.1	89.0	105.7	100.5	95.9	89.3	91.6	99.8	101.8
September	90.5	89.8	109.7	97.0	97.1	88.3	95.4	100.1	101.6
December	95.3	93.5	106.7	94.9	100.9	93.0	95.3	98.7	96.6
1929									
January	92.4	91.1	104.5	94.1	96.3	88.8	91.4	95.2	90.9
February	96.0	95.8	120.0	98.4	102.3	92.7	93.5	95.0	93.3
March	97.4	97.9	121.8	99.3	104.3	93.1	100.5	98.4	96.3
April	96.6	98.2	123.7	100.6	105.1	94.9	101.9	101.2	101.5
May	95.7	98.7	123.9	102.4	104.2	92.1	101.4	104.4	105.5
June	95.0	98.8	117.6	103.1	103.1	92.0	99.9	106.2	104.2
July	93.8	96.2	107.0	102.1	98.7	90.9	102.4	106.2	102.7
August	93.9	98.7	115.5	104.3	101.6	94.3	104.8	104.3	102.7
September	96.7	99.6	113.1	104.5	102.1	94.8	109.9	105.1	102.5
October	96.1	100.2	110.0	103.2	103.7	95.6	112.1	105.3	103.1
November	88.4	95.9	95.6	97.8	101.3	89.8	105.1	103.6	98.6
December	86.8	93.5	89.8	94.7	99.4	87.3	102.4	102.3	96.0
1930									
January	84.5	89.2	86.5	91.8	95.6	83.6	96.0	91.4	85.9
February	84.5	89.9	95.5	94.8	97.7	88.9	96.5	90.8	86.8
March	83.3	90.6	95.4	95.4	98.1	84.6	97.3	91.9	89.7
April	80.6	88.2	96.2	95.3	98.7	85.2	95.9	94.3	91.3
May	78.1	85.6	95.0	94.1	95.2	80.9	92.0	96.0	91.2
June	75.1	82.8	89.3	90.8	91.4	77.3	92.1	93.9	90.2
July	70.3	77.1	76.6	84.6	84.3	68.7	86.1	89.1	79.2
August	69.2	76.5	70.7	82.9	82.4	69.4	82.6	84.3	80.3
September	70.2	77.7	71.2	82.7	83.4	68.1	81.8	80.6	78.5
October	69.1	76.9	69.2	80.7	83.6	67.9	78.6	79.4	78.0
November	65.1	72.2	65.3	76.8	80.5	62.3	73.1	75.9	71.2
December	64.6	69.7	64.5	77.2	79.2	62.6	72.4	75.5	67.4

Source: Bureau of Labor Statistics, Department of Labor.

No. 361.—EMPLOYMENT AND PAY-ROLL INDEXES IN MAJOR GROUPS OF MANUFACTURING INDUSTRIES

NOTE.—Monthly average 1926=100. Combined index for each group is weighted according to relative importance of industries covered. See also headnote Table 358

Yearly average and month	Food products		Textile products		Iron and steel products		Other metal products		Lumber and products		Leather and products	
	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll
1925 average	101.2	99.9	103.7	104.2	95.0	93.3	99.2	99.4	102.5	100.4	101.9	101.8
March	100.3	98.7	107.3	112.9	96.5	96.7	99.8	101.4	101.9	100.2	105.6	109.3
June	99.4	99.5	102.0	98.7	94.1	91.3	98.4	98.5	103.2	102.6	95.1	93.7
September	102.8	99.1	100.9	96.9	93.9	87.9	98.8	94.0	103.7	102.0	105.0	103.2
December	103.0	103.1	104.1	104.8	97.9	99.7	104.1	107.3	100.9	102.1	98.8	96.0
1926 average	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
March	98.3	98.0	104.5	108.3	101.2	103.6	105.5	108.5	98.8	98.6	101.2	102.7
June	98.8	100.1	97.6	94.8	100.9	101.2	98.8	99.0	101.4	102.4	94.5	94.2
September	102.9	102.7	97.8	96.5	100.7	98.8	98.2	95.0	101.1	102.6	104.0	106.6
December	100.7	101.5	101.9	103.8	97.6	99.1	96.0	97.1	97.1	98.7	99.9	97.9
1927 average	99.4	100.0	101.3	103.0	93.2	91.9	92.9	91.6	91.9	93.1	97.9	97.4
March	97.1	97.0	104.2	109.4	98.2	100.6	97.0	99.4	91.3	92.7	101.4	102.5
June	101.0	102.8	99.9	100.3	94.5	94.4	93.0	92.9	92.5	94.9	94.4	94.0
September	102.6	102.2	100.9	103.1	91.3	87.1	91.2	87.3	93.7	95.9	101.1	103.6
December	100.1	100.9	100.6	102.3	86.6	85.2	88.2	88.4	87.9	90.1	91.8	87.1
1928 average	98.4	99.8	96.3	95.6	91.5	92.8	92.8	96.1	87.8	88.8	92.8	89.7
March	97.3	98.9	100.3	101.2	90.0	92.5	90.7	92.1	86.2	87.6	96.5	96.8
June	96.9	99.5	94.1	91.6	91.7	93.3	92.0	93.7	88.3	90.2	89.3	85.0
September	100.0	101.2	93.6	93.2	93.2	92.9	94.2	98.2	90.1	91.7	95.1	95.7
December	102.1	104.4	97.7	99.5	95.0	98.0	98.6	108.2	87.6	88.3	87.8	83.6
1929 average	99.4	101.7	97.0	97.2	98.9	102.6	97.6	102.8	87.9	88.9	92.8	89.9
March	97.4	98.6	99.9	104.3	99.2	105.2	101.9	112.3	86.2	86.8	91.8	88.2
June	98.9	102.7	97.3	97.3	101.7	106.8	98.9	104.6	89.8	90.7	88.5	86.8
September	102.1	105.3	97.1	97.8	100.7	104.2	96.2	100.6	91.4	94.9	98.4	100.7
December	100.3	102.8	93.5	90.7	93.2	92.7	88.7	87.4	81.2	81.2	89.1	81.4
1930 average	94.5	97.0	83.7	77.0	84.8	79.2	79.1	74.1	68.9	64.7	85.0	72.9
March	94.8	97.2	90.8	88.8	92.1	92.8	85.1	84.5	74.8	73.4	90.5	82.2
June	95.3	99.6	83.7	75.1	88.0	85.2	80.8	78.7	71.6	70.0	83.6	71.4
September	94.9	98.1	79.9	73.6	79.4	69.7	74.4	65.9	64.2	59.8	85.1	73.6
December	92.1	92.4	77.1	68.1	74.0	61.4	72.4	64.3	58.2	49.6	73.8	56.3

Yearly average and month	Paper and printing		Chemicals and allied products		Stone, clay, and glass		Tobacco products		Vehicles		Miscellaneous products	
	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll	Employed	Pay roll
1925 average	97.3	94.3	95.8	94.2	97.9	97.3	107.5	105.7	99.8	100.7	94.6	92.8
March	98.0	95.1	100.6	98.5	95.8	95.8	109.3	103.1	98.6	103.0	96.3	96.3
June	95.9	92.0	88.5	89.4	101.0	99.6	105.8	105.2	99.0	99.8	93.9	91.1
September	96.7	91.9	98.9	93.9	100.1	97.2	107.5	104.8	101.0	98.0	93.1	88.9
December	100.0	100.9	99.6	98.8	98.6	99.9	111.0	115.4	101.6	104.4	97.3	97.1
1926 average	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
March	99.5	100.2	106.9	103.9	96.6	97.6	103.0	102.7	105.4	108.0	101.5	101.0
June	98.9	99.4	95.2	98.2	104.3	105.6	101.3	101.0	101.0	102.0	97.9	98.4
September	100.4	99.4	101.9	100.7	103.9	101.6	99.4	101.6	100.1	98.4	99.6	97.4
December	102.4	104.3	98.6	101.7	96.7	98.5	100.8	102.4	90.6	88.7	104.3	107.7
1927 average	100.1	101.2	96.6	99.1	94.5	94.2	98.1	97.1	90.8	91.6	99.5	100.9
March	100.8	102.4	106.7	108.1	95.1	96.6	97.5	93.6	94.6	98.4	105.9	109.3
June	98.8	99.6	91.8	98.2	99.3	99.2	98.8	100.1	93.3	92.5	102.0	102.9
September	99.8	100.2	95.3	96.8	95.3	93.4	102.6	104.2	89.6	87.9	94.4	91.5
December	101.7	104.9	91.9	96.5	89.1	89.0	98.7	100.2	85.0	87.1	93.4	97.9
1928 average	99.2	101.5	93.4	95.9	89.7	89.6	96.0	93.5	95.8	98.3	91.6	91.9
March	98.8	101.4	101.7	100.7	87.3	87.1	96.0	91.4	93.2	99.1	89.7	90.4
June	98.0	100.8	87.5	91.7	93.4	92.8	95.3	94.9	97.7	99.8	90.0	92.0
September	98.6	100.9	94.7	96.6	93.4	91.8	98.9	98.2	101.5	101.4	91.7	91.8
December	101.2	105.1	95.1	97.2	87.3	88.4	98.0	99.5	94.6	96.4	97.9	100.1
1929 average	101.3	106.0	99.4	102.3	86.6	85.3	93.6	92.8	99.8	105.2	110.7	112.3
March	100.1	106.4	103.2	102.5	84.0	83.3	94.2	89.2	106.9	117.2	107.4	112.6
June	100.2	105.2	94.4	99.9	90.7	90.8	93.5	93.6	103.1	109.8	115.3	118.5
September	102.9	107.7	101.6	105.2	90.5	89.6	95.9	98.6	99.9	104.8	114.7	115.1
December	103.8	109.4	98.8	103.0	79.6	78.7	91.4	94.0	83.7	84.1	106.2	108.1
1930 average	98.3	101.9	92.9	94.5	73.1	67.3	89.5	84.1	78.3	75.1	94.1	92.7
March	100.8	106.5	102.2	102.1	75.9	72.2	91.8	85.8	86.0	89.9	102.9	105.5
June	98.6	103.6	89.8	95.5	77.9	74.7	91.2	89.3	82.7	83.1	95.9	97.2
September	95.9	98.5	91.0	92.2	72.1	65.0	89.8	84.7	71.9	64.2	88.0	83.8
December	95.7	97.9	85.9	85.2	64.3	55.3	86.9	82.2	66.8	58.8	83.0	76.0

Source: Bureau of Labor Statistics, Department of Labor.

No. 362.—EMPLOYMENT AND PAY-ROLL INDEXES IN MANUFACTURING ESTABLISHMENTS: ANNUAL AVERAGES BY INDUSTRIES

NOTE.—Monthly average 1926=100. For general index of all industries and for group totals see Tables 358 and 361, respectively

Industry group and industry	Employment						Pay-roll totals					
	1925	1926	1927	1928	1929	1930	1925	1926	1927	1928	1929	1930
Food and kindred products:												
Slaughtering and meat packing	104.4	100.0	99.5	99.5	101.0	97.1	102.6	100.0	99.9	101.0	103.2	100.2
Confectionery	98.1	100.0	96.5	93.0	92.3	85.9	96.4	100.0	97.9	93.3	94.1	86.2
Ice cream	101.3	100.0	94.0	92.4	91.9	87.6	98.3	100.0	93.4	93.1	93.0	87.5
Flour	103.1	100.0	99.3	100.0	102.1	97.0	102.5	100.0	99.4	102.1	105.3	99.9
Baking	98.7	100.0	101.4	100.9	102.1	96.8	97.1	100.0	102.2	101.6	103.5	98.5
Sugar refining, cane	104.5	100.0	98.8	91.1	94.0	91.6	104.6	100.0	98.8	94.9	98.5	94.4
Textiles and products:												
Cotton goods	101.1	100.0	105.0	95.2	95.5	80.6	101.1	100.0	108.5	91.7	94.3	73.3
Hosiery and knit goods	100.2	100.0	99.0	94.7	98.1	87.5	96.4	100.0	102.2	97.3	104.3	84.6
Silk goods	103.1	100.0	98.4	96.9	98.0	86.5	102.7	100.0	99.2	100.2	100.9	81.7
Woolen and worsted goods	110.7	100.0	99.7	95.0	96.0	77.7	110.6	100.0	100.6	94.4	96.3	72.7
Carpets and rugs	100.7	100.0	102.5	101.0	106.8	81.9	101.2	100.0	104.1	95.9	101.4	66.0
Dyeing and finishing textiles	101.7	100.0	100.9	99.5	101.8	93.0	102.3	100.0	102.8	101.0	102.2	87.9
Clothing, men's	103.1	100.0	97.8	92.2	91.9	80.4	105.8	100.0	97.3	89.0	88.2	67.9
Shirts and collars	103.3	100.0	95.0	92.2	92.7	81.1	103.2	100.0	96.3	89.9	90.8	70.9
Clothing, women's	105.6	100.0	105.4	105.4	105.4	94.2	109.3	100.0	107.4	105.2	105.1	87.2
Millinery and lace goods	117.1	100.0	95.6	93.5	93.1	85.1	115.8	100.0	96.8	92.7	91.1	78.4
Iron and steel and products:												
Iron and steel	97.9	100.0	92.9	90.9	94.7	84.5	96.4	100.0	91.4	92.7	99.3	79.8
Cast-iron pipe	95.6	100.0	89.8	80.1	76.1	67.4	96.2	100.0	88.1	75.9	75.5	65.6
Structural ironwork	92.5	100.0	94.9	95.0	102.1	92.2	91.5	100.0	95.0	97.9	104.4	89.0
Foundry and machine-shop products	93.1	100.0	93.8	92.3	104.3	87.8	90.6	100.0	92.4	92.8	108.1	81.5
Hardware	103.6	100.0	92.2	88.9	91.9	78.8	98.4	100.0	90.9	88.4	93.7	68.5
Machine tools	85.8	100.0	92.8	100.8	129.8	98.7	83.4	100.0	92.2	107.5	139.8	90.2
Steam fittings and steam and hot-water heating apparatus	100.1	100.0	92.5	82.2	78.5	65.2	97.4	100.0	91.9	81.9	78.8	58.7
Stoves	97.8	100.0	91.2	87.6	90.8	74.3	97.8	100.0	90.4	84.7	87.3	64.1
Metal products:												
Stamped and enameled ware	99.0	100.0	88.9	88.8	90.4	77.9	100.2	100.0	90.6	90.4	91.1	71.8
Brass, bronze, and copper	99.2	100.0	94.5	94.4	101.1	79.7	99.1	100.0	92.0	98.0	107.4	74.9
Lumber and its products:												
Lumber, sawmills	103.6	100.0	91.0	86.7	85.9	67.7	101.7	100.0	92.4	88.0	86.9	65.0
Lumber, millwork	103.0	100.0	89.2	85.5	83.1	63.9	101.8	100.0	89.2	85.6	82.8	61.0
Furniture	99.1	100.0	96.1	92.5	95.9	75.2	95.6	100.0	98.2	93.2	97.0	66.6
Leather and its products:												
Leather	98.7	100.0	98.4	95.4	92.2	85.2	97.5	100.0	97.2	93.7	93.2	83.0
Boots and shoes	102.9	100.0	97.7	91.9	92.9	85.0	103.6	100.0	97.6	88.0	89.0	70.1
Paper and printing:												
Paper and pulp	98.7	100.0	97.5	94.4	95.5	91.3	96.8	100.0	96.6	94.9	98.2	89.8
Paper boxes	98.8	100.0	96.8	94.0	96.0	89.7	95.6	100.0	99.0	99.4	103.3	92.9
Printing, book and job	97.5	100.0	100.3	99.2	102.6	99.5	93.1	100.0	102.1	101.6	105.8	102.6
Printing, newspapers	95.4	100.0	103.4	105.2	108.3	108.5	93.0	100.0	104.6	107.4	112.8	112.3
Chemicals and allied products:												
Chemicals	97.3	100.0	100.0	99.3	103.2	94.3	94.3	100.0	103.7	103.3	107.1	94.1
Fertilizers	95.1	100.0	91.2	95.4	95.2	89.5	90.6	100.0	94.0	97.1	94.7	87.5
Petroleum refining	94.0	100.0	94.6	84.8	96.5	92.6	95.2	100.0	95.6	87.2	99.1	95.9
Stone, clay, and glass:												
Cement	105.3	100.0	95.8	87.7	81.1	74.1	104.9	100.0	96.5	88.3	81.0	71.5
Brick, tile, and terra cotta	98.9	100.0	94.3	84.9	80.5	63.1	99.1	100.0	94.1	82.8	76.9	55.3
Pottery	98.3	100.0	94.5	95.3	94.2	84.7	96.3	100.0	94.2	93.4	91.0	74.7
Glass	94.4	100.0	94.2	92.9	94.6	81.3	93.4	100.0	93.4	94.3	97.3	78.3
Tobacco products:												
Chewing and smoking tobacco and snuff	97.0	100.0	97.7	95.2	89.3	89.5	98 3	100.0	97.7	94.1	89.6	87.7
Cigars and cigarettes	109.0	100.0	98.1	96.0	94.2	89.5	106.7	100.0	97.0	93.4	93.2	83.7
Vehicles:												
Automobiles	99.0	100.0	91.2	111.3	116.9	83.7	102.4	100.0	90.3	114.4	118.7	74.6
Carriages and wagons	100.2	100.0	78.7	76.7	78.6	56.7	100.4	100.0	83.6	82.1	84.1	61.8
Car building and repairing—												
Electric-railroad	99.6	100.0	100.9	94.9	91.9	86.9	100.5	100.0	101.1	96.2	93.9	87.6
Steam-railroad	100.6	100.0	90.3	83.5	85.1	72.9	99.4	100.0	92.3	85.4	92.3	74.8
Miscellaneous:												
Agricultural implements	93.6	100.0	91.9	106.8	121.1	92.3	90.8	100.0	92.2	111.8	125.3	85.6
Electrical machinery, apparatus, and supplies	92.1	100.0	95.1	93.9	118.3	101.6	92.2	100.0	95.7	95.9	121.5	102.0
Pianos and organs	98.9	100.0	90.4	77.1	66.6	47.4	97.8	100.0	87.4	74.3	63.8	41.1
Rubber boots and shoes	97.1	100.0	108.3	101.1	97.6	80.2	97.7	100.0	107.7	101.0	99.3	74.2
Automobile tires	102.2	100.0	97.3	103.3	104.1	77.6	100 4	100.0	98.2	105.7	101.8	73.4
Shipbuilding	92.6	100.0	104.8	82.8	105.3	114.9	90.3	100.0	105.8	83.0	108.1	116.4

Source: Bureau of Labor Statistics, Department o Labor.

No. 363.—INDEXES OF FACTORY EMPLOYMENT IN SPECIFIED STATES

[Index numbers for New York relative to 1923 monthly average as 100; for New Jersey and Pennsylvania, monthly average of the years 1923–1925; for Massachusetts, Illinois, and Wisconsin, monthly average of the years 1925–1927]

Year and month	Employees on pay roll						Amount of pay roll				
	Massachusetts [1]	New York [2]	New Jersey [3]	Pennsylvania [3]	Illinois [4]	Wisconsin [5]	New York [2]	New Jersey [3]	Pennsylvania [3]	Illinois [4]	Wisconsin [5]
Monthly average:											
1922	------	90.3	------	------	[6]101.9	88.9	83.1	------	------	[7]96.7	75.5
1923	------	100.0	104.4	106.9	112.5	102.1	100.0	102.2	106.8	107.4	95.8
1924	------	91.2	96.6	95.5	103.1	97.3	92.7	96.0	94.7	95.3	93.0
1925	100.1	90.5	99.1	97.6	99.8	101.4	93.9	101.8	98.6	97.9	101.4
1926	102.0	90.7	101.7	100.7	103.1	101.7	96.6	108.1	104.4	104.2	102.2
1927	97.9	87.0	95.0	96.4	97.1	96.8	93.6	100.7	97.9	98.0	96.4
1928	91.6	83.5	88.5	92.7	95.3	96.2	90.3	93.4	93.6	95.2	98.1
1929	92.2	87.5	96.3	98.8	102.6	100.1	96.3	104.4	104.5	102.7	100.8
1930	78.7	76.9	86.4	90.4	88.4	87.8	81.1	92.3	87.6	79.1	80.1
1925											
March	102.4	92.3	96.5	99.5	100.8	99.7	96.4	98.8	102.1	97.6	99.2
June	96.5	88.7	95.3	96.8	98.4	101.5	91.0	98.2	96.5	97.2	101.3
September	99.7	90.3	102.3	96.3	99.6	102.8	93.9	102.0	94.0	93.6	101.9
December	102.3	93.2	107.9	99.5	101.6	102.5	99.4	115.5	104.4	103.2	103.5
1926											
March	105.6	93.3	103.1	101.2	103.7	103.5	99.5	108.5	107.7	105.3	107.5
June	99.0	89.7	96.1	99.0	103.0	100.5	95.5	102.8	103.3	105.4	102.7
September	102.2	90.4	105.2	101.7	104.9	102.8	97.3	111.4	103.3	102.8	101.8
December	101.1	89.4	103.6	101.3	101.6	96.5	96.7	114.1	107.8	102.9	92.9
1927											
March	99.5	89.3	100.8	99.9	100.0	98.9	97.6	109.1	105.4	101.1	99.8
June	96.2	86.6	93.8	96.7	98.5	96.1	92.7	100.2	98.9	102.5	97.9
September	99.3	87.5	93.0	94.8	96.0	98.1	95.0	97.0	92.6	94.2	97.4
December	95.0	84.4	89.7	92.9	92.6	92.6	91.7	95.8	93.7	92.9	91.4
1928											
March	94.6	83.9	86.7	93.4	94.2	94.6	91.3	91.6	95.3	94.5	102.2
June	87.8	82.2	86.4	91.5	95.8	94.9	89.0	91.1	92.5	97.9	100.3
September	92.0	84.3	90.4	93.7	97.7	99.1	92.0	94.9	93.4	97.1	102.0
December	93.4	85.3	94.1	93.7	99.2	96.9	94.3	101.9	96.8	98.2	96.2
1929											
January	92.5	84.8	92.9	93.9	98.2	96.2	92.5	100.0	96.4	94.7	92.0
February	94.0	87.1	94.3	96.4	100.3	99.2	96.0	102.9	102.9	100.7	105.4
March	94.5	88.7	95.1	96.9	102.2	100.6	98.8	104.1	105.4	101.6	106.1
April	93.4	88.3	95.7	97.7	103.0	101.4	97.4	104.7	106.3	105.2	106.8
May	93.2	87.5	96.9	98.7	103.7	101.2	96.5	106.1	107.9	105.7	105.5
June	91.3	87.6	97.2	99.6	104.1	100.6	96.5	105.5	106.6	107.5	102.5
July	91.0	87.3	97.7	100.4	103.4	102.4	95.5	102.7	102.9	102.7	96.0
August	91.9	87.7	99.0	101.4	105.1	103.9	96.8	106.7	108.1	106.0	105.5
September	94.3	89.3	99.9	102.0	105.8	101.3	99.9	107.6	105.3	105.0	98.5
October	94.0	89.7	99.2	101.4	103.8	101.7	99.1	109.2	108.9	105.8	103.7
November	89.9	87.6	96.1	99.9	102.7	98.6	95.0	104.3	104.1	101.3	98.9
December	86.5	84.2	91.1	97.3	99.3	93.7	91.9	98.9	99.7	96.3	88.2
1930											
January	85.9	82.3	89.8	96.2	97.8	93.4	89.7	97.8	98.3	91.2	85.7
February	86.1	81.9	90.0	96.4	98.0	94.0	88.3	98.5	99.2	94.0	90.8
March	85.0	81.8	88.6	96.2	96.9	94.5	89.4	97.4	100.0	90.1	94.0
April	83.4	80.3	86.8	95.8	95.0	93.6	86.4	95.2	98.6	89.1	91.9
May	81.3	79.0	85.6	94.2	93.4	92.7	84.0	93.3	94.9	86.5	89.0
June	78.5	77.5	84.1	91.9	91.2	89.0	82.0	90.1	89.1	82.2	83.0
July	74.3	74.6	83.5	87.6	85.7	90.5	77.7	88.1	81.2	74.5	77.7
August	75.7	73.9	84.2	86.6	84.9	85.2	77.2	89.3	82.0	73.2	73.9
September	76.2	75.6	88.0	87.5	82.9	83.1	80.0	93.0	81.4	71.4	72.3
October	75.4	74.3	88.2	86.4	80.2	81.3	76.2	93.4	80.7	69.0	73.0
November	73.2	72.0	85.8	84.7	77.7	78.5	72.2	87.7	74.8	64.0	66.2
December	69.9	69.3	82.2	81.7	77.5	77.5	69.7	83.4	71.3	63.4	63.9

[1] Compiled by the Massachusetts Department of Labor and Industries, Division of Statistics, from about 1,000 firms each month. Data are connected by the chain relative method.

[2] Compiled by the New York State Department of Labor from reports of 1,648 firms employing more than one-third of the factory workers of the State.

[3] Compiled by the Federal Reserve Bank of Philadelphia from reports of about 800 plants in New Jersey and about 850 in Pennsylvania. Since August, 1926, figures for New Jersey are from the New Jersey Department of Labor.

[4] Compiled by the Illinois Department of Labor from reports of manufacturing establishments, based on the pay roll nearest the 15th of the month.

[5] Compiled by the Industrial Commission of Wisconsin, from reports of about 850 manufacturing establishments.

[6] Index number represents 11 months' average; no data reported for June.

[7] Index number represents 6 months' average, July to December, inclusive.

Source: See footnotes.

No. 364.—WEEKLY EARNINGS OF FACTORY LABOR IN SPECIFIED STATES

[Index numbers for New York relative to 1923 monthly average as 100; for New Jersey, Pennsylvania, and Delaware, monthly average of the years 1923–1925; for Illinois and Wisconsin, monthly average of the years 1925–1927. Data for Delaware compiled by the Federal Reserve Bank of Philadelphia from reports of about 60 plants; for original sources of other data, number of firms reporting, etc., in each State, see notes 2 to 5, Table 363]

Year and month	Average amount per week			Index numbers					
	New York	Illinois	Wisconsin	New York	New Jersey	Pennsylvania	Delaware	Illinois	Wisconsin
Monthly average:									
1921	$25.72		$22.80	94.4					
1922	25.04	[1] $24.70	21.66	91.9				[1] 80.1	84.7
1923	27.24	27.07	23.97	100.0	99.8	101.8	99.8	95.4	93.8
1924	27.68	27.55	24.40	101.6	99.5	98.6	100.8	97.1	95.4
1925	28.26	27.93	25.56	103.7	100.7	99.6	99.4	98.4	100.0
1926	29.02	28.67	25.67	106.5	105.9	102.5	101.8	101.0	100.4
1927	29.30	28.5	25.45	107.6	109.0	102.6	103.1	100.5	99.6
1928	29.44	28.56	26.04	108.1	109.8	103.1	102.6	100.2	101.9
1929	29.99	28.69	25.92	110.1	113.0	106.9	106.7	101.0	100.6
1930	28.70	27.16	23.33	105.4	111.3	98.1	103.2	95.7	90.3
1928									
March	29.64	28.48	27.62	108.8	109.9	104.7	104.2	100.4	108.1
June	29.48	29.28	27.03	108.2	109.8	103.3	103.8	103.2	105.8
September	29.72	28.31	26.30	109.1	109.3	102.2	101.1	99.8	102.9
December	30.12	29.55	25.40	110.6	112.9	105.7	108.4	101.5	99.4
1929									
March	30.35	28.92	26.95	111.4	114.0	109.8	108.5	101.9	105.4
June	30.02	29.46	26.03	110.2	113.0	108.6	109.0	103.8	101.8
September	30.47	28.26	25.17	111.9	112.1	104.6	103.2	99.6	97.4
December	29.75	28.12	24.18	109.2	113.1	103.3	107.1	99.1	93.7
1930									
March	29.80	28.25	25.75	109.4	114.5	105.6	106.0	99.6	99.2
June	28.86	27.49	23.96	105.9	111.7	98.8	104.4	96.9	92.8
September	28.84	26.43	22.16	105.9	110.4	94.7	100.7	93.1	85.6
December	27.42	25.09	20.84	100.7	106.0	87.8	100.6	88.4	81.1

[1] Average of the last 6 months of the year.

Sources: See headnote.

No. 365.—AVERAGE WEEKLY AND HOURLY EARNINGS: ALL WAGE EARNERS AND CLASSIFIED GROUPS OF LABOR, 24 MANUFACTURING INDUSTRIES

[Indexes based on 1923 as 100]

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								
1921	$23.82	89.5	$20.31	91.2	$27.40	88.9	$15.64	90.7
1922 [1]	24.29	91.3	20.30	91.2	28.16	91.4	15.84	91.9
1923	26.61	100.0	22.28	100.0	30.81	100.0	17.24	100.0
1924	26.45	99.4	22.42	100.7	30.55	99.2	16.76	97.2
1925	27.08	101.8	22.94	103.0	31.29	101.6	17.17	99.6
1926	27.42	103.1	23.22	104.2	31.58	102.5	17.29	100.3
1927	27.53	103.5	23.55	105.7	31.52	102.3	17.37	100.8
1928	27.88	104.8	23.90	107.3	31.95	103.7	17.15	99.5
1929	28.52	107.2	24.42	109.6	32.59	105.8	17.63	102.3
1930	25.84	97.1	21.91	98.4	29.15	94.6	15.98	92.7
HOURLY EARNINGS								
1921	.525	97.0	.438	98.8	.599	96.8	.362	94.4
1922 [1]	.495	91.5	.402	90.8	.567	91.6	.353	92.1
1923	.541	100.0	.443	100.0	.619	100.0	.383	100.0
1924	.562	104.0	.459	103.6	.644	104.0	.393	102.7
1925	.561	103.7	.455	102.8	.644	104.0	.389	101.6
1926	.568	105.0	.461	104.1	.651	105.1	.396	103.4
1927	.576	106.5	.472	106.5	.656	105.9	.398	103.9
1928	.579	107.0	.474	107.0	.659	106.5	.396	103.3
1929	.589	108.9	.486	109.7	.668	107.8	.399	104.1
1930	.589	108.9	.478	107.9	.662	107.0	.395	103.2

[1] Average of last 6 months.

Source: National Industrial Conference Board (Inc.).

No. 366.—EMPLOYMENT AND PAY-ROLL INDEXES IN NONMANUFACTURING INDUSTRIES AND BUSINESS

[Monthly average, 1929=100]

Year and industry	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average for year
	Employment												
1929													
Anthracite mining	105.7	106.0	98.0	100.7	103.7	92.9	83.2	91.1	101.9	106.1	104.0	107.1	100.0
Bituminous coal-mining	106.4	107.7	106.8	100.2	96.6	94.7	94.1	95.7	97.2	98.8	101.0	101.4	100.0
Metalliferous mining	93.1	94.6	97.0	100.6	100.8	103.8	101.5	103.2	101.2	101.9	103.0	98.5	100.0
Quarrying and nonmetallic mining	91.6	91.9	96.0	99.6	104.1	106.6	104.7	106.7	106.6	103.6	98.6	90.1	100.0
Crude-petroleum producing	90.0	90.4	89.6	97.6	93.9	104.1	106.0	113.2	108.9	107.9	101.1	97.0	100.0
Telephone and telegraph	94.3	95.3	96.5	97.8	100.4	101.5	102.6	103.7	102.5	101.9	101.9	101.8	100.0
Power, light, and water	92.9	92.6	92.8	95.9	98.4	100.7	103.2	105.4	105.5	105.7	104.7	102.5	100.0
Electric railroads [1]	99.7	99.1	97.0	98.5	100.4	101.2	102.2	102.2	101.4	100.5	99.4	98.3	100.0
Wholesale trade	97.7	96.9	97.3	97.9	99.0	99.2	100.4	101.3	101.9	102.9	102.9	102.6	100.0
Retail trade	99.2	94.6	96.2	95.5	97.3	97.4	93.6	93.6	97.6	101.7	106.7	126.2	100.0
Hotels	97.1	99.8	100.9	99.7	98.1	99.3	101.1	102.6	102.8	100.6	100.0	97.7	100.0
Canning and preserving	50.8	48.9	49.4	90.6	62.0	76.6	126.8	184.8	210.1	143.3	95.1	61.3	100.0
1930													
Anthracite mining	102.1	106.9	82.6	84.1	93.8	90.8	91.6	80.2	93.8	99.0	97.2	99.1	93.4
Bituminous-coal mining	102.5	102.4	98.6	94.4	90.4	88.4	88.0	89.2	90.5	91.8	92.5	92.5	93.4
Metalliferous mining	95.7	92.3	90.9	89.3	87.5	84.6	80.5	79.0	78.1	77.2	72.8	70.1	83.2
Quarrying and nonmetallic mining	79.6	79.8	83.0	87.4	90.8	90.3	89.9	89.3	87.7	84.7	78.3	70.2	84.3
Crude-petroleum producing	92.7	90.8	89.3	86.8	89.8	90.2	89.9	87.7	85.0	85.2	83.6	77.4	87.4
Telephone and telegraph	101.6	100.2	99.4	98.9	99.7	99.8	100.0	98.8	96.8	94.5	93.0	91.6	97.9
Power, light, and water	99.6	98.8	99.7	100.7	103.4	104.6	105.9	106.4	105.2	104.8	103.4	103.2	103.0
Electric railroads [1]	97.1	95.1	94.4	95.2	95.2	94.8	95.3	92.9	91.8	91.0	89.3	88.8	93.4
Wholesale trade	100.0	98.5	97.7	97.3	96.8	96.5	96.0	95.0	94.8	94.2	92.6	92.0	96.0
Retail trade	98.9	94.4	93.9	97.3	96.7	93.9	89.0	85.6	92.0	95.5	98.4	115.1	95.9
Hotels	100.4	102.4	102.4	100.1	98.0	98.0	101.3	101.5	100.1	97.5	95.2	93.5	99.2
Canning and preserving	46.1	45.7	49.7	74.8	65.7	83.0	126.3	185.7	246.6	164.7	96.7	61.6	103.9
	Pay rolls												
1929													
Anthracite mining	100.7	122.1	90.8	88.3	99.0	80.7	64.7	78.4	103.8	133.9	100.5	137.2	100.0
Bituminous-coal mining	106.1	116.6	108.6	89.2	91.9	90.0	85.6	92.8	98.6	106.8	106.0	108.2	100.0
Metalliferous mining	88.0	91.8	99.1	104.6	104.6	105.6	99.0	100.1	102.0	103.1	102.2	99.7	100.0
Quarrying and nonmetallic mining	85.9	88.9	95.0	100.5	107.1	110.5	104.7	110.3	109.8	105.8	96.0	85.4	100.0
Crude-petroleum producing	93.1	99.0	97.4	96.7	92.4	99.4	100.7	104.7	110.7	100.1	103.8	102.1	100.0
Telephone and telegraph	94.5	93.0	98.7	98.3	99.4	100.0	104.1	101.8	100.4	105.1	101.2	103.9	100.0
Power, light, and water	91.7	91.8	94.5	95.5	98.1	100.4	102.3	103.8	106.6	106.0	104.1	105.8	100.0
Electric railroads [1]	98.7	97.6	98.0	99.5	101.0	101.7	101.9	102.0	101.5	100.0	98.4	99.8	100.0
Wholesale trade	96.7	96.4	98.5	97.8	99.0	98.6	100.5	100.0	103.3	102.7	101.9	104.7	100.0
Retail trade	99.0	94.5	96.1	96.0	97.1	98.6	95.9	95.2	99.2	102.6	105.2	120.6	100.0
Hotels	98.5	102.0	103.4	100.6	98.9	98.7	99.8	99.4	102.2	100.2	99.8	98.9	100.0
Canning and preserving	57.3	59.2	54.9	98.9	71.2	71.9	109.2	180.1	207.9	134.5	91.6	63.4	100.0
1930													
Anthracite mining	105.8	121.5	78.5	75.0	98.8	94.3	84.0	78.8	91.6	117.2	98.0	100.0	95.3
Bituminous-coal mining	101.4	102.1	86.4	81.7	77.5	75.6	68.9	71.1	74.9	79.4	79.1	77.7	81.3
Metalliferous mining	92.7	92.5	90.8	88.3	85.6	81.6	71.9	71.0	69.9	68.6	63.4	59.9	78.0
Quarrying and nonmetallic mining	71.9	73.5	80.0	85.4	90.2	90.9	75.5	85.8	82.5	79.3	66.8	59.9	79.3
Crude-petroleum producing	94.0	88.6	91.3	86.6	85.4	87.1	88.5	86.0	84.0	82.6	80.0	77.2	85.9
Telephone and telegraph	105.1	101.9	105.8	103.4	103.2	103.4	106.6	102.5	102.2	100.9	97.9	101.3	102.9
Power, light, and water	99.7	100.4	102.1	102.6	104.5	107.8	106.7	106.6	106.1	105.6	103.7	106.3	104.3
Electric railroads [1]	97.8	95.7	95.4	97.1	96.0	97.0	95.6	92.1	90.5	88.9	87.7	88.6	93.5
Wholesale trade	100.0	98.3	99.7	97.9	97.4	98.6	96.0	93.6	93.6	92.9	91.0	91.3	95.9
Retail trade	99.7	96.0	95.5	97.5	97.3	96.8	91.7	87.6	92.4	95.1	96.8	107.7	96.2
Hotels	100.3	103.8	104.4	100.3	98.4	98.1	99.8	98.6	97.1	95.5	93.6	91.5	98.5
Canning and preserving	50.3	51.5	50.8	72.6	66.9	81.5	112.7	172.0	214.8	140.0	82.9	57.4	96.1

[1] Figures represent operation and maintenance of electric railroads, and do not include electric railroad car building and repairing.

Source: Bureau of Labor Statistics, Department of Labor.

No. 367.—INDEX NUMBERS OF UNION WAGE RATES AND HOURS OF LABOR

NOTE.—Index numbers subsequent to 1924 cover only the occupations listed in Table 369; for previous years they included also the metal and millwork trades. See also headnote, Table 368

[Rates and hours for 1913=100.]

Year	Rates of wages per hour	Full-time hours per week	Rates of wages per week, full time	Year	Rates of wages per hour	Full-time hours per week	Rates of wages per week, full time
1907	89.7	102.6	91.5	1919	154.5	94.7	147.8
1908	91.0	102.1	92.5	1920	199.0	93.8	188.5
1909	91.9	101.9	93.3	1921	205.3	93.9	193.3
1910	94.4	101.1	95.2	1922	193.1	94.4	183.0
1911	96.0	100.7	96.5	1923	210.6	94.3	198.6
1912	97.6	100.3	97.7	1924	228.1	93.9	214.3
1913	100.0	100.0	100.0	1925	237.9	93.0	222.3
1914	101.9	99.6	101.6	1926	250.3	92.8	233.4
1915	102.8	99.4	102.3	1927	259.5	92.4	240.8
1916	107.2	98.8	106.2	1928	260.6	91.9	240.6
1917	114.2	98.4	112.4	1929	262.1	91.5	240.7
1918	132.7	97.0	129.6	1930	272.1	89.8	243.8

Source: Bureau of Labor Statistics, Department of Labor.

No. 368.—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. For absolute hourly wage rates for the same and other occupations, see Table 369

[Rates and hours for 1913=100]

Year	Bakers		Building trades									
			Bricklayers		Building laborers		Carpenters		Cement finishers		Cement finishers' helpers	
	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	109.1	85.8	100.6	96.7	100.0	94.5	100.7	95.1	102.1	94.2	100.1	93.2
1918	96.0	142.2	98.9	115.4	97.7	137.4	98.5	126.1	96.2	120.2	99.5	123.6
1920	89.9	264.0	98.7	174.7	94.8	225.9	98.5	194.8	95.0	182.9	99.2	225.9
1921	90.3	278.7	98.7	172.7	94.7	227.7	98.4	197.8	95.0	188.4	99.2	226.2
1923	90.2	276.0	98.6	191.1	94.7	218.1	98.8	204.0	95.0	191.2	99.2	223.4
1924	90.1	283.5	98.6	202.2	94.4	242.4	98.8	218.3	95.0	211.4	99.2	248.3
1925	89.7	293.4	98.5	213.4	94.5	231.6	98.8	222.8	94.7	212.6	99.2	260.8
1926	90.5	277.2	98.5	226.4	94.7	254.9	98.8	238.4	94.7	226.9	99.2	288.0
1927	90.2	286.8	98.1	231.9	94.9	255.8	98.8	246.7	94.4	236.8	99.2	294.1
1928	89.6	285.9	98.0	233.9	94.8	257.0	98.2	247.5	93.8	234.6	99.2	281.9
1929	89.4	293.4	95.5	239.7	94.7	258.2	98.2	252.0	93.9	234.6	(1)	(1)
1930	89.4	289.2	93.3	245.1	92.8	275.3	95.1	261.6	90.3	256.4	(1)	(1)

Year	Building trades—Continued											
	Engineers, portable and hoisting		Hod carriers		Inside wiremen		Lathers		Marble setters		Painters	
1910	------	------	101.2	97.2	100.8	95.9	------	------	100.5	92.5	101.3	92.6
1918	96.8	123.8	98.6	136.6	97.3	127.0	99.0	119.1	99.5	107.9	97.7	129.4
1920	95.8	175.6	98.1	232.4	96.2	192.0	98.1	188.9	99.1	158.4	94.7	206.0
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
1924	95.6	197.2	98.0	224.9	96.2	220.5	98.2	215.1	99.2	186.1	95.0	230.5
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

[1] Data not available.

No. 368.—Index Numbers of Union Hours of Labor per Week and Rates of Wages per Hour, by Occupations—Continued

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
	Building trades—Continued											
	Plasterers		Plasterers' laborers		Plumbers and gas fitters		Sheet-metal workers		Steam fitters		Stonemasons	
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
1918	98.0	113.5	99.0	129.3	98.2	117.5	98.2	130.6	97.4	120.6	99.6	120.4
1920	97.9	170.7	98.6	213.5	97.9	172.1	97.5	193.2	97.3	178.8	99.0	188.1
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
1924	98.2	216.1	98.3	227.8	97.7	202.4	97.1	221.7	97.0	201.5	98.9	225.2
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
	Building trades—Contd.											
	Structural-iron workers		Tile layers		Chauffeurs		Teamsters and drivers		Longshoremen		Granite cutters	
1910	101.7	92.7	------	------	------	------	------	------	------	------	101.8	93.7
1918	98.9	126.5	98.8	110.8	94.0	130.9	96.6	133.2	93.3	149.0	100.2	130.1
1920	98.7	179.4	98.2	162.6	87.2	200.1	90.4	215.4	76.7	233.5	100.2	189.5
1921	98.7	184.0	98.3	161.9	87.5	202.5	88.2	228.0	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
1924	98.7	202.5	98.4	197.5	89.1	205.6	89.5	244.7	81.8	238.5	100.2	214.2
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	100.0	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
	Printing and publishing: Book and job											
	Bookbinders		Compositors		Electrotypers		Machine operators		Press assistants and feeders		Pressmen, cylinder	
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
1918	100.0	121.6	100.0	118.6	99.6	119.1	100.1	112.5	100.0	128.8	100.0	117.2
1920	100.0	204.0	100.0	190.6	99.5	195.5	100.1	174.6	99.9	227.7	100.0	184.5
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
1924	93.1	233.9	91.7	238.5	95.7	250.6	91.8	212.9	92.7	263.8	93.1	223.1
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
	Printing and publishing: Book and job—Con.		Printing and publishing: Newspaper									
	Pressmen, platen		Compositors, daywork		Machine operators, daywork		Machine tenders, (machinists), daywork		Pressmen, web presses, daywork		Stereotypers, daywork	
1910	99.8	94.9	100.4	92.7	100.5	94.8	------	------	100.3	95.5	100.5	92.1
1918	100.0	120.4	99.6	110.0	99.3	110.1	99.7	108.1	99.9	113.1	99.8	109.4
1920	99.9	200.4	99.9	160.7	99.5	167.5	99.8	171.7	101.1	169.5	99.9	149.8
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
1924	93.1	242.9	99.7	189.0	99.1	193.4	99.9	191.5	100.5	199.4	99.8	180.4
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

Source: Bureau of Labor Statistics, Department of Labor.

No. 369.—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 368

Occupation	1923	1929	1930
	Dolls.	*Dolls.*	*Dolls.*
Grand average, all trades herein covered [1]	0.966	1.204	1.250
Bakers	.921	.979	.965
BUILDING TRADES			
Asbestos workers	1.005	1.378	1.445
Bricklayers	1.321	1.657	1.695
Sewer, tunnel, and caisson	1.534	1.917	1.913
Building laborers	.728	.862	.919
Carpenters	1.084	1.339	1.390
Millwrights	1.164	1.244	1.303
Parquetry-floor layers	1.262	1.375	1.475
Wharf and bridge	.994	1.293	1.360
Cement finishers	1.113	1.366	1.493
Cement finishers' helpers	.805	(2)	(2)
Composition roofers	.977	1.358	1.387
Composition roofers' helpers	.695	.795	.796
Elevator constructors	1.115	1.450	1.519
Elevator constructors' helpers	.806	1.043	1.093
Engineers, portable and hoisting	1.141	1.430	1.593
Glaziers	1.041	1.358	1.408
Hod carriers	.788	1.072	1.106
Inside wiremen	1.079	1.468	1.484
Fixture hangers	1.065	1.253	1.338
Lathers:			
Piecework	[3]7.720	[3]9.717	[3]9.424
Timework	1.188	1.484	1.546
Marble setters	1.188	1.558	1.565
Marble setters' helpers	.873	1.061	1.046
Mosaic and terrazzo workers	.978	1.417	1.468
Painters:			
Building	1.108	1.369	1.467
Fresco	1.125	1.258	1.380
Sign	1.330	1.583	1.581
Plasterers	1.306	1.612	1.691
Plasterers' laborers	.872	1.090	1.161
Plumbers and gas fitters	1.151	1.450	1.488
Plumbers' laborers	.879	1.043	1.013
Sheet-metal workers	1.065	1.355	1.416
Ship carpenters	.935	1.111	1.404
Slate and tile roofers	1.224	1.554	1.590
Steam and sprinkler fitters	1.052	1.444	1.511
Steam and sprinkler fitters' helpers	.751	.954	1.065
Stonemasons	1.297	1.627	1.626
Structural-iron workers	1.109	1.467	1.542
Finishers	1.086	1.492	1.599
Finishers' helpers	.838	(2)	(2)
Tile layers	1.140	1.469	1.539
Tile layers' helpers	.798	.984	1.079
Average building trades	1.068	1.352	1.410

Occupation	1923	1929	1930
PRINTING AND PUBLISHING: BOOK AND JOB	*Dolls.*	*Dolls.*	*Dolls.*
Bindery women	0.507	0.529	0.544
Bookbinders	.907	1.002	1.015
Compositors	1.024	1.127	1.162
Electrotypers	1.158	1.261	1.293
Machine operators:			
Piecework	[4].150	[4].153	(2)
Timework	1.062	1.188	1.240
Machine tenders (machinists)	1.088	1.195	1.267
Machinist operators	1.028	1.125	1.116
Photo-engravers	1.043	1.331	1.335
Press assistants and feeders	.781	.850	.865
Pressmen:			
Cylinder	1.052	1.150	1.166
Platen	.859	.939	.947
Average, printing and publishing, book and job	.926	1.049	1.074
PRINTING AND PUBLISHING: NEWSPAPER			
Compositors:			
Daywork	1.013	1.203	1.210
Nightwork	1.151	1.326	1.315
Machine operators, daywork:			
Piecework	[4].139	[4].138	[4].145
Timework	1.031	1.224	1.220
Machine operators, nightwork:			
Piecework	[4].160	[4].147	[4].156
Timework	1.130	1.336	1.333
Machine tenders (machinists):			
Daywork	1.064	1.186	1.206
Nightwork	1.179	1.340	1.308
Machinist operators:			
Daywork	1.007	1.048	1.081
Nightwork	1.040	1.189	1.203
Photo-engravers:			
Daywork	1.085	1.346	1.342
Nightwork	1.289	1.596	1.636
Pressmen, web presses:			
Daywork	.871	1.089	1.095
Nightwork	.987	1.257	1.272
Stereotypers:			
Daywork	.922	1.055	1.064
Nightwork	1.082	1.201	1.228
Average, printing and publishing, newspaper	1.047	1.241	1.241
MISCELLANEOUS			
Chauffeurs	.574	.709	.724
Teamsters and drivers	.590	.734	.766
Longshoremen	.722	.863	.875
Granite cutters	1.089	1.279	1.343
Stonecutters	1.151	1.472	1.486
Laundry workers	.414	.458	.479
Linemen	.898	1.019	1.128

[1] Except piecework. [2] No data. [3] Per 1,000 laths. [4] Rate per 1,000 ems.

Source: Bureau of Labor Statistics, Department of Labor.

No. 370.—UNEMPLOYMENT RETURNS: By Classes and States, April, 1930

Note.—Each of the 7 classes shown in this table has a definite relation to the unemployment problem, though some of them are composed mainly of persons who would not, even under the most elastic definition, be considered "unemployed." Since the classes are widely different in their make-up and in their social significance, no total is given for all classes

Division and State	Class A Persons out of a job, able to work, and looking for a job				Class B Persons having jobs but on lay off without pay, excluding those sick or voluntarily idle.			
	Total number	Per cent of persons gainfully occupied	Male	Female	Total number	Per cent of persons gainfully occupied	Male	Female
United States	2,429,062	5.0	2,058,738	370,324	758,585	1.6	627,407	131,178
New England:								
Maine	13,419	4.3	11,463	1,956	7,641	2.5	5,756	1,885
New Hampshire	8,184	4.2	6,866	1,318	5,347	2.8	3,627	1,720
Vermont	5,293	3.7	4,647	646	2,909	2.1	2,190	719
Massachusetts	116,210	6.4	93,579	22,631	45,184	2.5	32,347	12,837
Rhode Island	22,437	7.6	17,502	4,935	13,690	4.6	8,724	4,966
Connecticut	38,230	5.6	32,340	5,890	12,579	1.9	9,552	3,027
Middle Atlantic:								
New York	354,390	6.4	298,731	55,659	73,625	1.3	59,145	14,480
New Jersey	116,305	6.8	98,518	17,787	23,997	1.4	18,733	5,264
Pennsylvania	207,691	5.6	180,106	27,585	117,801	3.2	105,160	12,641
East North Central:								
Ohio	159,936	6.1	140,697	19,239	54,630	2.1	47,619	7,011
Indiana	60,714	4.9	53,445	7,269	25,665	2.1	22,292	3,373
Illinois	226,999	7.1	195,493	31,506	55,852	1.8	48,922	6,930
Michigan	157,812	8.2	140,653	17,159	39,176	2.0	34,392	4,784
Wisconsin	47,982	4.2	41,889	5,093	17,094	1.5	14,803	2,291
West North Central:								
Minnesota	44,545	4.5	38,377	6,168	10,668	1.1	9,132	1,536
Iowa	22,340	2.4	19,109	3,231	9,183	1.0	8,141	1,042
Missouri	63,413	4.3	53,136	10,277	17,984	1.2	14,341	3,643
North Dakota	5,982	2.5	5,220	762	1,493	0.6	1,312	181
South Dakota	3,516	1.4	3,037	479	996	0.4	895	101
Nebraska	14,778	2.9	12,322	2,456	4,292	0.8	3,664	628
Kansas	22,157	3.2	19,341	2,816	6,005	0.9	5,272	733
South Atlantic:								
Delaware	3,187	3.2	2,636	551	726	0.7	581	145
Maryland	24,438	3.6	20,495	3,943	7,198	1.1	5,883	1,315
Dist. of Columbia	8,999	3.7	6,418	2,581	1,676	0.7	1,280	396
Virginia	26,461	3.0	21,112	5,349	8,898	1.0	6,899	1,999
West Virginia	21,375	3.7	19,374	2,001	13,959	2.4	13,057	902
North Carolina	28,621	2.5	20,847	7,774	15,501	1.4	10,672	4,829
South Carolina	11,950	1.7	8,346	3,604	7,297	1.1	4,109	3,188
Georgia	27,672	2.4	19,626	8,046	11,950	1.0	7,969	3,981
Florida	33,120	5.5	24,733	8,387	5,631	0.9	4,253	1,378
East South Central:								
Kentucky	29,452	3.2	25,038	4,414	12,818	1.4	10,901	1,917
Tennessee	20,412	2.1	15,884	4,528	9,773	1.0	7,108	2,665
Alabama	21,441	2.1	17,461	3,980	8,551	0.8	6,873	1,678
Mississippi	10,798	1.3	8,124	2,674	4,695	0.6	3,682	1,013
West South Central:								
Arkansas	12,820	1.9	10,465	2,355	5,531	0.8	4,893	638
Louisiana	30,866	3.8	25,043	5,823	8,530	1.0	6,602	1,928
Oklahoma	37,333	4.5	33,131	4,202	8,025	1.0	7,257	768
Texas	75,827	3.4	63,543	12,284	19,436	0.9	16,088	3,348
Mountain:								
Montana	10,963	5.1	9,886	1,077	4,044	1.9	3,815	229
Idaho	6,194	3.8	5,414	780	1,275	0.8	1,097	178
Wyoming	3,719	4.0	3,312	407	1,181	1.3	1,059	122
Colorado	22,696	5.6	19,595	3,101	7,502	1.9	6,761	741
New Mexico	5,654	4.0	5,117	537	919	0.6	832	87
Arizona	7,990	4.8	7,156	834	1,533	0.9	1,378	155
Utah	8,712	5.1	7,755	957	2,247	1.3	1,955	292
Nevada	2,888	6.7	2,720	168	276	0.6	250	26
Pacific:								
Washington	36,972	5.6	31,428	5,544	9,465	1.4	8,154	1,311
Oregon	25,482	6.2	21,356	4,126	5,965	1.5	4,853	1,112
California	161,687	6.5	136,252	25,435	28,172	1.1	23,127	5,045

No. 370.—UNEMPLOYMENT RETURNS: BY CLASSES AND STATES, APRIL, 1930—Continued

Division and State	Class C Persons out of a job and unable to work	Class D Persons having jobs but idle on account of sickness or disability	Class E Persons out of a job and not looking for work	Class F Persons having jobs but voluntarily idle without pay	Class G Persons having jobs and drawing pay though not at work (on vacation, etc.)
United States	172,661	273,588	87,988	84,595	82,335
New England:					
Maine	1,323	2,352	837	875	763
New Hampshire	758	1,437	399	282	241
Vermont	466	1,139	326	291	351
Massachusetts	7,458	12,540	2,926	2,424	2,615
Rhode Island	1,173	2,489	609	480	441
Connecticut	2,343	3,875	1,033	689	957
Middle Atlantic:					
New York	22,493	24,367	9,354	6,145	6,805
New Jersey	6,328	8,276	2,685	1,821	2,353
Pennsylvania	13,056	28,347	5,391	6,720	4,816
East North Central					
Ohio	10,995	18,319	4,714	4,065	4,864
Indiana	4,895	8,898	2,089	2,214	1,862
Illinois	12,183	17,436	6,512	4,901	5,151
Michigan	6,674	11,492	4,454	3,392	3,190
Wisconsin	3,321	5,778	2,034	1,909	1,561
West North Central:					
Minnesota	3,116	4,180	1,768	1,556	1,513
Iowa	1,968	4,038	1,131	1,377	1,498
Missouri	4,714	7,782	2,334	2,798	2,821
North Dakota	411	451	338	301	355
South Dakota	440	535	296	243	248
Nebraska	1,210	1,970	785	858	1,095
Kansas	2,009	2,766	997	1,090	1,228
South Atlantic:					
Delaware	285	513	109	107	164
Maryland	2,200	3,744	970	780	1,154
District of Columbia	726	1,487	332	447	1,201
Virginia	2,768	6,214	1,222	1,913	2,135
West Virginia	2,474	5,691	1,214	1,828	1,077
North Carolina	2,579	5,828	1,484	1,900	1,504
South Carolina	1,652	4,120	743	1,360	775
Georgia	3,374	8,084	1,444	2,381	2,806
Florida	2,651	3,609	1,775	1,636	1,553
East South Central:					
Kentucky	2,740	5,374	1,463	1,864	1,718
Tennessee	2,378	5,000	1,356	1,879	1,066
Alabama	2,298	5,745	991	1,817	1,657
Mississippi	1,306	3,257	696	1,058	1,466
West South Central:					
Arkansas	1,368	2,531	771	1,123	1,036
Louisiana	2,533	4,236	1,102	1,365	1,078
Oklahoma	2,886	3,171	1,726	1,456	1,572
Texas	6,221	9,272	3,259	4,284	5,103
Mountain:					
Montana	1,182	1,050	805	505	405
Idaho	608	758	459	449	332
Wyoming	302	388	365	223	152
Colorado	1,810	2,048	1,181	929	1,031
New Mexico	660	630	384	606	277
Arizona	959	1,146	537	590	363
Utah	601	906	378	418	269
Nevada	216	204	202	144	90
Pacific:					
Washington	3,957	4,583	2,590	1,973	1,391
Oregon	2,516	2,887	1,774	1,229	874
California	12,078	12,645	7,644	5,900	5,268

Source: Bureau of the Census, Department of Commerce.

No. 371.—UNEMPLOYMENT RETURNS: By Classes, for Cities of 100,000 or More Inhabitants, April, 1930

Note.—For a description of the individual classes see Table 370. See also headnote to same table

City	Class A			Class B			Class C	Class D	Class E	Class F	Class G
	Total (male and female)	Per cent of persons gainfully occupied	Male	Total (male and female)	Per cent of persons gainfully occupied	Male					
Total, 93 cities	**1,219,548**	**7.4**	**1,013,718**	**244,829**	**1.5**	**197,439**	**71,249**	**90,990**	**31,952**	**23,946**	**26,426**
Akron, Ohio	9,079	8.5	7,942	1,231	1.2	1,025	374	782	184	157	199
Albany, N. Y	3,127	5.3	2,794	461	.8	420	180	281	39	41	74
Atlanta, Ga	6,580	5.1	4,611	1,460	1.1	1,036	691	1,411	202	344	498
Baltimore, Md	17,150	4.7	14,051	3,483	1.0	2,710	1,477	1,835	552	294	645
Birmingham, Ala	5,617	5.0	4,518	1,125	1.0	927	504	941	148	278	258
Boston, Mass	26,361	7.4	21,654	8,653	2.4	6,823	1,915	2,320	656	432	504
Bridgeport, Conn	5,269	8.2	4,414	924	1.4	663	222	302	86	33	46
Buffalo, N. Y	19,921	8.3	17,392	2,970	1.2	2,553	1,451	1,180	425	305	305
Cambridge, Mass	3,373	6.6	2,750	941	1.8	717	208	370	91	99	121
Camden, N. J	5,520	11.0	4,620	366	.7	277	163	165	145	21	30
Canton, Ohio	2,903	6.9	2,588	761	1.8	700	192	221	61	22	61
Chattanooga, Tenn	2,857	5.4	2,166	783	1.5	561	276	492	94	150	67
Chicago, Ill	147,440	9.5	124,160	20,494	1.3	16,905	6,766	7,718	3,323	1,890	2,283
Cincinnati, Ohio	12,829	6.3	10,520	3,649	1.8	2,930	1,052	1,506	364	273	364
Cleveland, Ohio	41,184	10.4	35,960	9,051	2.3	7,700	2,102	3,066	980	696	854
Columbus, Ohio	7,344	5.7	6,063	2,897	2.2	2,198	603	1,247	215	312	285
Dallas, Tex	5,812	4.7	4,485	872	.7	601	549	714	255	224	328
Dayton, Ohio	6,664	7.5	5,604	1,108	1.2	853	447	605	147	110	174
Denver, Colo	9,331	7.2	7,792	1,466	1.1	1,230	752	681	371	223	236
Des Moines, Iowa	2,609	4.2	2,185	636	1.0	532	250	373	145	102	167
Detroit, Mich	76,018	11.0	66,960	15,979	2.3	14,046	2,329	4,118	1,284	1,116	1,175
Duluth, Minn	5,154	12.0	4,682	766	1.8	689	202	188	80	61	55
Elizabeth, N. J	3,514	7.0	3,154	206	.4	183	177	166	84	10	48
El Paso, Tex	1,693	4.2	1,325	404	1.0	285	217	423	119	188	157
Erie, Pa	2,634	5.8	2,283	717	1.6	624	154	458	76	98	63
Evansville, Ind	2,414	5.6	2,108	793	1.9	645	141	259	42	49	15
Fall River, Mass	3,949	7.8	3,020	1,348	2.7	822	232	487	80	103	54
Flint, Mich	6,291	9.7	5,688	828	1.3	729	235	343	136	51	37
Fort Wayne, Ind	2,533	5.1	2,065	1,176	2.4	915	137	601	90	146	140
Fort Worth, Tex	3,729	5.2	2,879	1,017	1.4	712	416	407	125	128	143
Gary, Ind	1,962	4.6	1,680	387	.9	363	128	293	60	81	46
Grand Rapids, Mich	5,118	7.3	4,452	2,079	3.0	1,810	249	453	174	110	108
Hartford, Conn	5,484	7.2	4,529	1,189	1.6	944	346	520	164	84	201
Houston, Tex	7,350	5.3	5,850	1,320	1.0	1,048	487	782	216	258	301
Indianapolis, Ind	10,080	6.1	8,307	2,530	1.5	2,060	874	1,285	323	326	310
Jacksonville, Fla	3,744	6.3	2,645	549	.9	413	318	529	101	132	181
Jersey City, N. J	9,954	7.1	8,374	1,426	1.0	1,178	552	640	168	101	156
Kansas City, Kans	3,764	7.3	3,163	574	1.1	469	249	405	93	128	138
Kansas City, Mo	11,554	5.9	9,017	2,460	1.3	1,738	877	1,443	429	553	595
Knoxville, Tenn	2,284	5.1	1,798	1,627	3.6	1,109	250	522	136	143	85
Long Beach, Calif	5,233	9.0	4,412	602	1.0	462	258	297	237	173	124
Los Angeles, Calif	44,480	7.7	35,357	6,438	1.1	5,209	2,900	2,858	2,012	1,439	1,202
Louisville, Ky	10,119	7.3	7,989	3,195	2.3	2,404	526	1,146	171	246	163
Lowell, Mass	4,510	10.6	3,476	1,852	4.3	1,207	165	370	48	51	53
Lynn, Mass	2,978	6.4	2,365	611	1.3	443	198	304	62	41	47
Memphis, Tenn	3,673	3.1	2,881	732	.6	611	340	514	155	108	133
Miami, Fla	5,868	11.5	4,230	626	1.2	462	444	289	280	163	143
Milwaukee, Wis	16,017	6.3	14,095	4,695	1.8	3,997	963	1,775	446	439	409
Minneapolis, Minn	13,968	6.6	11,590	2,432	1.1	1,910	991	1,198	439	377	398
Nashville, Tenn	1,546	2.2	1,260	319	.5	258	180	237	52	36	21
Newark, N. J	21,549	10.8	17,810	3,277	1.6	2,655	921	1,222	385	250	324
New Bedford, Mass	4,128	7.9	2,930	1,645	3.2	1,018	232	445	98	69	26
New Haven, Conn	4,885	7.1	4,095	1,005	1.5	788	331	471	86	51	131
New Orleans, La	16,616	8.1	13,400	3,166	1.5	2,389	992	1,077	389	309	242
New York, N. Y	231,084	7.2	190,525	36,166	1.1	29,661	12,735	9,734	5,106	2,861	2,963
Bronx Borough	42,416	7.7	34,653	7,087	1.3	5,884	2,222	1,840	756	535	555
Brooklyn Borough	80,621	7.3	67,642	13,912	1.3	11,664	4,309	2,856	1,679	701	870
Manhattan Borough	79,191	8.0	63,189	10,416	1.0	8,033	4,593	3,326	2,036	1,276	916
Queens Borough	25,208	5.4	21,792	4,102	.9	3,521	1,378	1,534	533	322	558
Richmond Borough	3,648	5.7	3,249	649	1.0	559	233	178	102	27	64
Norfolk, Va	3,479	5.8	2,514	693	1.1	475	280	566	99	199	221
Oakland, Calif	8,257	6.5	6,831	1,093	.9	872	613	572	319	223	180
Oklahoma City, Okla	3,236	3.8	2,718	659	.8	587	420	555	182	117	158

No. 371.—Unemployment Returns: By Classes, for Cities of 100,000 or More Inhabitants, April, 1930—Continued

City	Class A			Class B			Class C	Class D	Class E	Class F	Class G
	Total (male and female)	Per cent of persons gainfully occupied	Male	Total (male and female)	Per cent of persons gainfully occupied	Male					
Omaha, Nebr	5,162	5.5	4,185	933	1.0	741	359	676	209	230	282
Paterson, N. J	3,315	5.3	2,768	2,074	3.3	1,634	239	413	97	227	77
Peoria, Ill	1,610	3.3	1,387	480	1.0	413	172	342	284	62	67
Philadelphia, Pa	71,156	8.0	57,166	13,485	1.5	10,133	2,800	3,726	1,384	755	1,184
Pittsburgh, Pa	20,307	7.3	17,849	5,885	2.1	5,245	986	2,501	428	447	528
Portland, Oreg	13,547	9.3	11,372	1,754	1.2	1,406	1,258	956	699	327	255
Providence, R. I	9,254	8.2	7,209	3,635	3.2	2,435	488	937	268	174	143
Reading, Pa	2,076	4.1	1,783	945	1.9	736	144	227	51	44	18
Richmond, Va	4,677	5.6	3,732	735	.9	558	346	772	96	127	302
Rochester, N. Y	10,715	7.4	9,311	3,424	2.4	2,452	631	839	183	62	170
St. Louis, Mo	28,022	7.3	23,242	7,123	1.8	5,660	1,639	2,150	557	497	526
St. Paul, Minn	7,164	6.1	5,754	1,206	1.0	950	525	687	258	148	176
Salt Lake City, Utah	3,730	6.9	3,257	483	.9	399	264	278	106	115	68
San Antonio, Tex	5,832	6.0	4,869	965	1.0	768	503	597	240	185	130
San Diego, Calif	4,835	7.6	3,827	896	1.4	656	404	403	300	283	335
San Francisco, Calif	21,448	6.4	18,267	3,019	.9	2,567	1,733	1,635	711	591	491
Scranton, Pa	3,308	5.8	2,886	1,951	3.4	1,688	272	402	99	104	24
Seattle, Wash	12,295	7.0	10,327	2,667	1.5	2,350	1,159	1,299	793	609	448
Somerville, Mass	3,022	6.8	2,463	484	1.1	370	132	401	43	60	91
South Bend, Ind	3,101	7.0	2,739	3,014	6.8	2,591	165	353	64	76	62
Spokane, Wash	4,556	8.8	3,823	395	.8	325	291	185	193	102	59
Springfield, Mass	4,479	6.7	3,586	487	.7	366	222	370	86	59	66
Syracuse, N. Y	6,148	6.8	5,442	1,833	2.0	1,539	340	672	163	158	158
Tacoma, Wash	3,218	6.9	2,716	810	1.7	641	361	426	182	129	90
Tampa, Fla	4,262	9.2	2,968	569	1.2	373	148	301	87	105	82
Toledo, Ohio	11,058	8.7	9,772	2,853	2.2	2,586	684	864	269	165	248
Trenton, N. J	4,085	8.0	3,511	1,248	2.4	925	179	288	60	33	36
Tulsa, Okla	4,317	6.7	3,565	674	1.0	577	307	302	100	119	89
Utica, N. Y	3,385	7.7	2,879	932	2.1	677	205	361	81	65	70
Washington, D. C	8,999	3.7	6,418	1,676	.7	1,280	726	1,487	332	447	1,201
Wichita, Kans	2,105	4.4	1,747	310	.6	263	233	340	68	120	149
Wilmington, Del	1,994	4.2	1,640	389	.8	309	175	263	68	55	78
Worcester, Mass	6,393	7.7	5,235	2,489	3.0	1,891	358	653	159	118	100
Yonkers, N. Y	3,675	6.3	3,177	1,588	2.7	1,053	253	276	74	78	129
Youngstown, Ohio	4,479	7.0	4,120	3,506	5.5	3,331	315	446	71	46	54

Source: Bureau of the Census, Department of Commerce.

No. 372.—UNEMPLOYMENT RETURNS FOR CLASSES A AND B: By Period of Idleness, April, 1930

Period	Class A Persons out of a job, able to work and looking for a job			Class B Persons having jobs but on lay-off without pay, excluding those sick or voluntarily idle		
	Total	Male	Female	Total	Male	Female
Total	2,429,062	2,058,738	370,324	758,585	627,407	131,178
Under 1 week	62,020	50,201	11,819	243,654	197,875	45,779
1 or 2 weeks	311,893	253,334	58,559	153,000	123,299	29,701
3 or 4 weeks	319,945	259,515	60,430	86,622	71,146	15,476
5 to 8 weeks	365,707	304,217	61,490	74,426	63,711	10,715
9 to 13 weeks	364,189	309,037	55,152	55,308	46,914	8,394
14 to 17 weeks	240,998	210,902	30,096	34,883	30,319	4,564
18 to 26 weeks	388,936	348,772	40,164	47,223	41,442	5,781
27 to 39 weeks	132,116	116,798	15,318	10,098	8,726	1,372
40 to 52 weeks	121,290	102,034	19,256	6,320	5,245	1,075
53 to 104 weeks	53,832	46,245	7,587	2,283	1,889	394
105 weeks and over	26,327	22,955	3,372	1,054	892	162
Not reported	41,809	34,728	7,081	43,714	35,949	7,765

Source: Bureau of the Census, Department of Commerce.

16.—POSTAL SERVICE

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

No. 373.—UNITED STATES POSTAL SERVICE, 1800 TO 1930

Year ended June 30—	Number of post offices	Mileage of post routes [1]	Finances, thousands of dollars			Revenue per capita, dollars	Money orders issued, thousands of dollars		Number of ordinary postage stamps issued, millions	Number of pieces of mail handled, millions [4]
			Gross revenue	Gross expenditure	Surplus (+) or deficit (−) [2]		Domestic [3]	International [3]		
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	5,500	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
1893	68,403	453,833	75,897	81,582	−5,717	1.14	127,576	16,342	2,750	5,022
1894	69,805	454,746	75,080	84,994	−9,978	1.11	138,794	13,792	2,602	4,919
1895	70,064	456,026	76,983	87,180	−10,230	1.12	156,709	12,906	2,795	5,134
1896	70,360	463,313	82,499	90,933	−8,444	1.17	172,101	13,853	3,025	5,694
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	61,158	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	224,129	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	435,342	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	639,232	−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	487,778	693,634	725,700	−32,121	5.78	1,630,157	71,520	16,676	26,837
1929	49,482	500,518	696,948	782,344	−85,461	5.73	1,658,443	76,113	16,917	27,952
1930	49,063	518,617	705,484	803,667	−98,216	5.75	1,714,576	72,708	16,269	27,889

[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 375.
[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. 374.—REVENUES, UNITED STATES POSTAL SERVICE: YEARS ENDED JUNE 30

[All figures in thousands of dollars]

Item	1910	1915	1920	1925	1927	1928	1929	1930
Total	224, 129	287, 248	437, 150	599, 591	683, 122	693, 634	696, 948	705, 484
Ordinary postal revenue	219, 339	279, 460	424, 406	585, 333	664, 603	675, 043	676, 651	686, 426
Stamps, postal cards, etc.[1]	202, 065	256, 037	379, 587	507, 572	568, 512	576, 199	575, 407	574, 851
Second-class postage paid in money (pound rates)[1]	8, 174	10, 468	25, 100	29, 619	32, 884	32, 651	27, 825	28, 584
Other postage paid in money under permit	4, 418	7, 527	12, 960	39, 301	53, 503	55, 986	63, 729	73, 545
Box rents	4, 139	4, 981	6, 145	7, 817	8, 369	8, 461	8, 518	8, 539
Miscellaneous	542	448	614	1, 024	1, 335	1, 746	1, 172	907
Money-order revenues	4, 790	7, 175	10, 314	12, 909	16, 985	17, 021	17, 420	17, 496
Revenue from postal savings	---------	612	2, 430	1, 349	1, 534	1, 570	2, 877	1, 562

[1] For volume of this item, see Table 379.

No. 375.—POSTAL MONEY-ORDER BUSINESS: YEARS ENDED JUNE 30

NOTE.—For revenues from money orders, see Table 374. For value of orders issued for other years, see Table 373. 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	1927	1928	1929	1930
Number of money-order offices	51, 791	55, 670	54, 395	54, 269	54, 616	54, 803	54, 357	54, 161
DOMESTIC[1]								
Orders issued:								
Number (1,000)	76, 918	105, 073	148, 491	197, 054	194, 217	196, 287	199, 273	202, 273
Amount (1,000 dollars)	547, 994	656, 139	1, 332, 700	1, 532, 567	1, 647, 580	1, 630, 157	1, 658, 443	1, 714, 576
Orders paid:								
Number (1,000)	76, 496	103, 884	147, 520	196, 038	195, 041	196, 932	199, 205	201, 453
Amount (1,000 dollars)	545, 632	652, 786	1, 333, 046	1, 531, 597	1, 647, 113	1, 629, 443	1, 657, 276	1, 713, 681
Excess of issues:[2]								
Number (1,000)	422	1, 190	971	1, 015	—825	—644	68	820
Amount (1,000 dollars)	2, 362	1, 353	—346	970	468	714	1, 167	895
INTERNATIONAL[3, 4]								
Orders issued:								
Number (1,000)	4, 500	3, 055	1, 852	2, 966	3, 734	3, 843	4, 017	3, 978
Amount (1,000 dollars)	99, 743	60, 772	32, 960	52, 650	68, 952	71, 520	76, 113	72, 768
Orders paid:								
Number (1,000)	1, 956	2, 217	1, 508	1, 765	1, 955	2, 129	2, 198	2, 161
Amount (1,000 dollars)	27, 244	24, 743	25, 362	19, 765	23, 886	26, 402	27, 477	25, 825
Excess of issues:								
Number (1,000)	2, 544	837	343	1, 201	1, 779	1, 714	1, 819	1, 817
Amount (1,000 dollars)	72, 499	36, 029	7, 598	32, 886	45, 066	45, 119	48, 635	46, 883
FOREIGN "DOMESTIC BASIS"[5]								
Paid in foreign countries:								
Number (1,000)	667	655	601	938	990	1, 049	1, 063	1, 034
Amount (1,000 dollars)	10, 184	9, 110	9, 568	16, 920	19, 718	20, 323	22, 788	20, 921
Paid in the United States:								
Number (1,000)	1, 566	1, 936	1, 246	1, 498	1, 574	1, 753	1, 813	1, 751
Amount (1,000 dollars)	17, 766	18, 386	17, 916	15, 118	17, 723	19, 101	19, 101	17, 935

[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.

Sources of Tables 374 and 375: Annual Reports of the Postmaster General.

No. 376.—EXPENDITURES, UNITED STATES POSTAL SERVICE: YEARS ENDED JUNE 30

NOTE.—**All figures in thousands of dollars.** For total expenditures see Table 373. Data cover expenditures during the specified fiscal year, whether on account of that year or of previous years

Item	1910	1915	1920	1925	1927	1928	1929	1930
Service in post offices (total)	107,771	139,937	234,102	338,046	392,141	402,210	421,226	429,571
Salaries of postmasters	27,514	30,400	40,108	47,562	50,741	50,626	53,177	52,850
Salaries of clerks, etc	38,045	53,317	102,319	153,336	182,778	187,824	197,459	201,972
City delivery service	31,805	42,668	63,626	95,161	114,795	118,856	123,936	127,890
All other expenditures	10,405	13,552	28,049	41,987	43,827	44,904	46,654	46,860
Railway Mail Service	19,389	28,408	38,711	52,906	58,051	58,681	61,368	61,888
Rural Delivery Service	37,074	49,806	75,794	93,163	104,445	105,014	105,904	106,347
Transportation of domestic mail	61,940	76,914	99,520	142,141	145,400	146,154	172,957	176,984
By railroads	49,405	59,576	70,714	99,720	99,350	98,935	117,500	117,265
By other means	12,535	17,338	28,805	42,421	46,050	47,219	55,457	59,720
Transportation foreign mail	3,204	3,273	5,912	9,175	10,534	9,624	16,663	24,449
Payment account of invalid money orders	600	208	284	138	127	146	149	131
Post Office Department [1]				3,712	3,880	3,871	4,077	4,298

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

No. 377.—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	1928	1929	1930
Steam railway service:							
Length of routes (miles)	220,730	233,676	232,358	230,470	226,965	223,810	220,416
Annual travel (thousand miles)—							
Regular space units	[1]426,923	[1]499,011	561,827	579,256	572,938	572,328	564,801
Prorated to 60-foot car basis			218,349	226,395	231,540	230,318	228,478
Annual expenditure—							
Regular authorizations	49,302	58,149	83,731	88,991	90,175	103,087	103,070
Annual cost			89,661	107,491	111,102	124,014	125,243
Average rate of cost—							
Per mile of length (dollars)	223.36	248.84	360.35	386.12	397.30	460.60	471.70
Per unit mile traveled (cents)	[1]11.55	[1]11.65	14.90	15.36	15.73	18.01	18.41
Per 60-foot car mile (cents)			38.34	39.31	38.97	45.75	45.70
Railway mail employees—							
Number of employees	16,795	19,599	20,407	20,693	20,854	21,229	21,185
Expenditure for salary	19,047	21,205	35,644	48,913	53,559	56,145	56,577
Electric railway service:							
Number of routes	539	569	543	288	254	240	226
Length of routes (miles)	7,198	8,183	8,043	8,042	7,875	7,566	7,008
Annual travel of space units (thousand miles)	[1]11,630	[1]13,948	[1]11,752	10,487	10,211	10,257	9,829
Annual rate of expenditure	674	819	471	566	642	644	571
Average cost per unit mile traveled (cents)	[1]5.79	[1]5.87	[1]4.01	5.39	6.28	6.28	5.81
Power boat service:							
Number of routes	217	260	266	284	280	263	265
Length of routes (miles)	27,256	32,402	34,642	49,791	41,206	39,044	40,130
Annual travel (thousand miles)	4,826	5,685	3,992	5,298	5,212	4,782	4,806
Annual rate of expenditure	705	990	[2]773	1,492	1,361	1,362	1,401
Average cost per mile traveled (cents)	14.61	17.42	19.36	28.16	26.10	28.48	29.15
Air mail service: [3]							
Length of routes (miles)		[4]218	3,094	2,665	10,932	14,406	14,907
Mileage scheduled (thousands)		[4]18	654	2,160	6,000	11,033	16,228
Miles traveled with mail (thousands)		[4]16	549	2,077	5,585	10,213	14,939
Mail carried [5] (thousand pounds)		[4]18	527	233	1,862	5,636	7,720
Cost of service		[4]14	1,264	2,744	4,043	11,169	14,618

[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] All air mail service was Government-operated prior to 1926. In 1926 contract service was inaugurated. Government service was discontinued in 1927. All data represent total service.
[4] 1918 data.
[5] Beginning 1925, only specially paid air mail was carried.

Sources of Tables 376 and 377: Annual Reports of the Postmaster General.

No. 378.—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. Data in all cases relate to contracts or organizations at June 30 and do not represent actual mileage traveled or expenditure during previous fiscal year. Star route service in Alaska is not included in the accompanying table, data for 1930 being as follows: Number of routes, 67; length, 11,434 miles; annual travel, 219,184 miles; annual rate of expenditure, $143,283

As of June 30—	City free delivery			Rural free delivery				Star routes	
	Number of offices	Number of carriers	Annual cost (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	1,230					7,295	5,050
1880	104	2,628	2,364					9,863	7,321
1885	178	4,358	3,986					12,371	5,415
1890	454	9,066	7,976					15,887	5,321
1895	604	12,714	12,136					20,733	5,754
1900	796	15,322	14,512	1,259	28,685		420	22,834	5,088
1905	1,144	21,778	20,919	32,110	721,237		20,865	17,199	7,342
1910	1,492	28,715	31,684	41,079	993,068	303,007	36,915	13,425	6,928
1913	1,675	30,923	36,601	42,805	1,038,076	315,781	45,643	12,432	6,965
1914	1,759	32,292	40,399	43,652	1,060,679	322,432	47,377	11,970	8,001
1915	1,808	32,902	42,458	43,866	1,067,674	325,305	52,566	11,557	8,713
1916	1,864	34,114	43,137	42,927	1,083,070	326,435	51,952	11,391	8,466
1917	1,948	34,592	48,048	43,464	1,112,556	336,303	52,420	11,208	8,383
1918	1,992	34,593	49,995	43,453	1,127,110	344,100	52,196	10,958	8,606
1919	2,018	35,024	59,527	43,210	1,143,467	346,066	65,448	10,773	10,055
1920	2,086	36,142	74,933	43,445	1,151,832	348,627	75,562	10,739	11,106
1921	2,161	38,532	87,830	43,672	1,163,896	352,533	83,034	10,664	12,390
1922	2,229	39,485	89,908	44,186	1,180,448	357,254	84,430	10,715	12,641
1923	2,277	40,134	93,804	44,439	1,190,534	360,256	86,172	10,802	12,610
1924	2,325	43,829	97,892	44,760	1,205,714	363,670	86,765	10,802	12,735
1925	2,401	46,251	110,357	45,189	1,227,654	370,273	102,945	10,906	12,774
1926	2,522	48,238	126,219	45,318	1,249,978	377,046	104,117	10,991	12,955
1927	2,812	50,117	132,005	44,730	1,270,746	383,851	104,447	11,215	12,996
1928	2,899	51,293	136,528	44,288	1,289,613	390,054	105,008	11,472	13,541
1929	2,970	52,719	142,762	43,840	1,316,420	398,444	106,202	11,695	13,969
1930	3,050	53,762	146,532	43,278	1,334,842	404,738	106,378	11,788	14,281

No. 379.—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 374

	1910	1915	1920	1925	1928	1929	1930
Transactions in stamped paper:							
Ordinary postage stamps issued (millions)	9,067	11,226	13,213	17,387	16,676	16,917	16,269
Stamped envelopes and wrappers issued (millions)	1,507	1,794	2,350	2,997	3,219	3,243	3,164
Postal cards issued (millions)	726	976	986	1,497	1,872	1,784	1,643
Pieces of mail carried [1] (millions)	14,850			25,835	26,837	27,952	27,888
Second-class matter carried:							
Free in county (1,000 pounds)	55,639	62,142	61,528	69,195	74,545	74,712	75,326
Paid at pound rates (1,000 pounds)	817,773	1,047,144	1,307,227	1,348,297	1,476,274	1,518,811	1,554,415
Foreign mails dispatched by sea:							
Letters (1,000 pounds)	[2] 3,142	3,401	4,608	5,640	6,574	6,859	7,103
Other articles (1,000 pounds)	[2] 17,832	22,848	66,725	66,229	76,045	80,496	83,377
Mail registered:							
Domestic, paid (1,000 pieces)	33,682	27,688	56,951	70,512	66,941	71,814	76,489
International, paid (1,000 pieces)	4,782	4,325	11,300	10,993	8,721	9,252	7,869
Official, free (1,000 pieces)	3,589	5,297	8,663	8,414	8,133	8,500	8,680
Registry fees (1,000 dollars)	3,594	3,201	6,825	8,850	11,408	12,319	12,807
Mail insured:							
Domestic, parcel post (1,000 pieces)		18,012	95,385	152,078	131,764	130,664	126,421
International (1,000 pieces)				603	659	695	649
Total fees paid (1,000 dollars)		941	5,416	8,061	9,159	9,111	8,775
Mail sent C. O. D.:							
Total pieces sent (1,000)		4,721	20,098	52,362	49,367	49,652	46,249
Total fees (1,000 dollars)		472	2,070	5,562	6,225	6,257	5,825

[1] Data are for continental United States and are estimates in 1910 and 1925. No estimates made in 1915 and 1920.

[2] Excluding mails carried by domestic contract steamers, or steamers subsidized by foreign countries.

Source of Tables 378 and 379: Annual Reports of the Postmaster General.

No. 380.—GROSS RECEIPTS, COST OF CLERK HIRE AND OF CITY DELIVERY SERVICE AT THE LARGER POST OFFICES: YEARS ENDED JUNE 30

Post Office	Gross receipts (1,000 dollars)				Cost of clerk hire, 1930		Cost of city delivery, 1930	
	1920	1925	1929	1930	Amount (1,000 dollars)	Per cent to receipts	Amount (1,000 dollars)	Per cent to receipts
Total (55 post offices)	237,410	332,746	387,271	391,100	109,304	27.95	77,052	19.70
New York, N. Y.	49,612	65,523	78,708	78,825	25,578	32.45	10,495	13.31
Chicago, Ill.	41,000	56,359	61,674	61,226	16,824	27.48	9,208	15.04
Philadelphia, Pa.	14,695	17,777	19,176	19,599	5,234	26.71	4,234	21.60
Boston, Mass.	11,124	14,769	18,002	18,029	6,177	34.26	5,179	28.73
St. Louis, Mo.	8,235	12,099	12,624	12,622	3,352	26.55	2,313	18.33
Detroit, Mich.	5,567	8,467	11,801	11,639	3,480	29.90	3,006	25.83
Los Angeles, Calif.	3,583	8,065	10,405	11,068	2,900	26.20	2,921	26.39
Kansas City, Mo.	6,036	9,424	10,472	10,185	1,989	19.53	1,262	12.39
Cleveland, Ohio	6,028	8,055	9,901	10,039	2,417	24.08	2,318	23.09
San Francisco, Calif.	5,072	7,763	9,027	9,316	2,564	27.52	1,574	16.89
Brooklyn, N. Y.	5,466	7,412	9,023	8,962	3,590	40.06	4,489	50.09
Pittsburgh, Pa.	4,976	6,826	7,549	7,858	1,954	24.86	1,914	24.35
Cincinnati, Ohio	4,314	6,710	7,350	7,461	1,775	23.79	1,315	17.63
Minneapolis, Minn.	4,083	6,133	7,092	6,963	1,606	23.06	1,257	18.05
Baltimore, Md.	4,052	5,427	6,803	6,669	2,036	30.54	1,797	26.80
Washington, D. C.	3,536	4,770	5,881	6,046	2,426	40.12	1,399	23.14
Milwaukee, Wis.	2,893	4,712	5,570	5,625	1,235	21.96	1,253	22.27
Buffalo, N. Y.	3,325	4,633	4,752	4,943	1,372	27.76	1,501	30.36
Newark, N. J.	2,110	3,520	4,594	4,760	1,094	22.98	1,129	23.73
Indianapolis, Ind.	2,593	4,280	4,670	4,735	1,257	26.55	916	19.35
Atlanta, Ga.	2,748	3,470	4,542	4,711	907	21.15	608	12.90
St. Paul, Minn.	2,384	4,258	4,280	4,426	944	21.33	751	16.96
Denver, Colo.	2,356	3,281	3,803	4,107	826	20.11	776	18.90
Dallas, Tex.	2,301	3,217	4,062	4,090	854	20.88	575	14.05
Seattle, Wash.	2,232	2,998	3,601	3,672	1,026	27.93	866	23.57
Des Moines, Iowa	1,992	2,875	3,232	3,609	564	15.63	363	10.06
Portland, Oreg.	1,788	2,776	3,042	3,121	826	26.47	795	25.47
Omaha, Nebr.	2,312	2,846	3,021	3,104	790	25.46	636	20.49
Rochester, N. Y.	1,839	2,623	2,959	3,061	782	25.53	698	22.81
Columbus, Ohio	1,721	2,641	2,974	3,019	664	22.00	590	19.54
Louisville, Ky.	1,705	2,619	2,876	2,851	761	26.69	603	21.14
New Orleans, La.	1,999	2,651	2,740	2,748	884	32.15	648	23.59
Memphis, Tenn.	1,361	1,880	2,591	2,628	647	24.61	506	19.27
Dayton, Ohio	981	1,863	2,284	2,482	493	19.87	406	16.35
Hartford, Conn.	1,271	1,782	2,279	2,364	551	23.32	394	16.67
Toledo, Ohio	1,531	2,021	2,441	2,329	561	24.10	609	26.15
Providence, R. I.	1,356	1,860	2,314	2,305	618	26.81	659	28.58
Houston, Tex.	1,252	1,579	2,130	2,259	565	25.02	479	21.23
Oakland, Calif.	702	1,517	2,046	2,131	614	28.81	715	33.56
Albany, N. Y.	859	1,459	1,741	2,126	395	18.59	298	14.01
Richmond, Va.	1,376	1,966	2,104	2,124	584	27.47	461	21.71
Syracuse, N. Y.	1,145	1,493	1,794	1,877	473	25.20	451	24.01
Nashville, Tenn.	1,211	1,645	1,859	1,877	484	25.81	332	17.67
Oklahoma City, Okla.	982	1,371	1,689	1,853	431	23.28	273	14.75
New Haven, Conn.	1,012	1,495	1,789	1,850	477	25.76	398	21.02
Akron, Ohio	1,191	1,275	1,871	1,734	411	23.71	443	25.05
Birmingham, Ala.	853	1,319	1,679	1,678	478	28.47	429	25.58
Grand Rapids, Mich.	903	1,417	1,646	1,649	319	19.36	377	22.86
Jersey City, N. J.	935	1,227	1,467	1,459	403	27.62	441	30.26
Springfield, Mass.	885	1,204	1,413	1,453	380	26.18	367	25.23
Salt Lake City, Utah	904	1,257	1,384	1,370	390	28.45	360	26.30
Worcester, Mass.	833	1,067	1,214	1,207	340	28.13	379	31.40
Scranton, Pa.	723	1,070	1,147	1,148	313	27.25	350	30.46
Spokane, Wash.	799	1,033	1,154	1,110	277	25.00	277	24.99
Jacksonville, Fla.	670	962	1,028	1,000	321	32.12	260	25.97

Source; Reports of the Postmaster General.

No. 381.—POSTAL SERVICE: By States and Outlying Areas

Division and State	Number of post offices, June 30, 1930	Mileage of rural free-delivery routes, June 30, 1930	Gross postal receipts [1]					
			1920	1925	1927	1928	1929	1930
			In thousands of dollars for years ended June 30					
Grand total	49,063	1,334,842	424,525	584,755	663,669	673,954	675,929	686,351
United States proper	48,695	1,334,788	423,463	583,427	632,216	672,445	674,261	684,610
New England	2,619	42,460	32,276	43,498	49,092	49,703	50,709	51,375
Maine	804	12,065	2,866	3,946	3,975	3,938	3,866	3,912
New Hampshire	376	6,218	1,504	2,035	2,292	2,323	2,271	2,296
Vermont	384	8,179	1,220	1,540	1,685	1,688	1,701	1,703
Massachusetts	639	7,901	18,913	25,064	28,536	28,669	29,414	29,627
Rhode Island	91	1,237	2,029	2,702	3,027	3,169	3,278	3,297
Connecticut	325	6,860	5,744	8,211	9,577	9,916	10,178	10,550
Middle Atlantic	5,677	113,105	117,897	161,532	185,028	190,060	190,406	194,927
New York	2,189	48,899	74,772	102,514	116,973	120,963	122,475	125,072
New Jersey	663	8,564	9,512	14,655	17,468	18,475	18,974	19,768
Pennsylvania	2,825	55,642	33,613	44,363	50,587	50,622	48,957	50,087
East North Central	6,355	299,681	107,343	151,924	173,066	174,274	174,502	175,748
Ohio	1,519	67,669	24,800	35,417	40,576	41,142	41,035	42,088
Indiana	1,023	58,519	9,226	13,774	15,554	15,755	15,625	15,613
Illinois	1,602	72,151	51,357	70,753	78,227	78,761	78,610	78,757
Michigan	1,166	52,487	13,199	18,978	22,920	23,364	24,271	24,133
Wisconsin	1,045	48,855	8,761	13,002	14,789	15,252	14,961	15,157
West North Central	7,314	325,976	53,971	73,365	80,794	80,297	79,905	80,641
Minnesota	1,195	52,904	10,847	15,836	16,844	17,063	17,306	17,614
Iowa	1,218	63,240	9,392	11,720	13,116	13,141	13,024	13,504
Missouri	1,747	60,247	18,624	27,230	30,785	29,896	29,141	28,988
North Dakota	676	28,958	2,062	2,360	2,582	2,668	2,756	2,721
South Dakota	626	24,519	2,066	2,539	2,775	2,783	2,816	2,750
Nebraska	827	36,825	5,504	6,663	7,101	7,180	7,188	7,279
Kansas	1,025	59,283	5,476	7,017	7,591	7,566	7,674	7,785
South Atlantic	8,719	185,410	34,415	46,072	53,726	53,227	52,224	52,293
Delaware	86	3,014	811	999	1,145	1,268	1,211	1,233
Maryland	668	11,269	5,292	7,101	8,802	8,695	8,658	8,519
District of Columbia	1	189	3,536	4,771	5,731	5,861	5,883	6,047
Virginia	2,161	29,025	5,621	7,236	7,941	8,070	7,901	7,985
West Virginia	1,846	11,146	3,154	4,395	4,830	4,781	4,645	4,611
North Carolina	1,434	39,948	4,138	5,814	6,454	6,593	6,504	6,830
South Carolina	652	25,389	2,289	2,530	2,626	2,652	2,595	2,174
Georgia	1,058	52,410	6,395	7,734	9,010	9,079	9,047	9,220
Florida	813	13,020	3,179	5,492	7,187	6,228	5,780	5,674
East South Central	5,548	137,740	15,546	20,576	22,916	23,927	23,500	23,736
Kentucky	2,665	25,180	4,392	6,283	7,018	7,088	6,827	6,827
Tennessee	968	43,571	5,289	7,107	7,835	8,441	8,388	8,546
Alabama	1,053	36,165	3,418	4,385	4,944	5,182	5,084	5,108
Mississippi	862	32,824	2,447	2,801	3,119	3,216	3,201	3,255
West South Central	5,461	151,317	24,678	30,646	35,150	35,787	36,490	37,240
Arkansas	1,315	23,942	2,928	3,585	3,888	3,837	3,841	3,828
Louisiana	900	12,908	4,015	5,055	5,412	5,445	5,407	5,486
Oklahoma	1,046	42,370	4,730	5,889	6,733	6,820	7,018	7,272
Texas	2,200	72,097	13,005	16,117	19,117	19,685	20,224	20,654
Mountain	3,772	35,447	12,178	15,004	16,259	16,551	16,906	17,276
Montana	824	6,746	2,016	2,180	2,303	2,397	2,507	2,446
Idaho	432	6,570	1,397	1,324	1,451	1,484	1,494	1,513
Wyoming	333	1,186	712	953	983	979	1,006	993
Colorado	728	14,960	4,398	5,878	6,425	6,497	6,516	6,819
New Mexico	542	2,668	679	900	991	1,012	1,056	1,039
Arizona	300	1,402	943	1,137	1,286	1,336	1,444	1,532
Utah	342	1,761	1,647	2,179	2,312	2,359	2,367	2,347
Nevada	171	154	386	453	508	487	516	537
Pacific	3,230	43,652	25,158	40,812	47,182	48,617	49,616	51,378
Washington	875	14,203	5,636	7,494	8,368	8,492	8,674	8,719
Oregon	768	9,510	3,324	4,809	5,337	5,361	5,308	5,436
California	1,587	19,939	16,198	28,509	33,477	34,764	35,634	37,223
Outlying offices	368	54	[2] 1,062	1,328	1,453	1,503	1,668	1,740
Alaska	174	----------	82	71	81	90	88	104
Guam	1	----------	1	2	2	2	3	3
Hawaii	93	54	352	611	645	710	745	774
Porto Rico	94	----------	406	522	537	539	536	527
Samoa (Tutuila)	1	----------	2	2	(3)	(3)	(3)	(3)
Virgin Islands	5	----------	17	11	12	13	12	15
Philatelic agency	----------	----------	----------	109	176	154	284	317

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

Source: Annual Reports of the Postmaster General.

No. 382.—MONEY ORDERS: By States and Outlying Areas

Note.—Amounts in thousands of dollars for years ended June 30. "Domestic basis" money orders include those to or from "domestic basis" foreign countries. For explanation see headnote, Table 375

Division and State	Domestic basis money orders				International money orders			
	Issued		Paid		Issued		Paid	
	1929	1930	1929	1930	1929	1930	1929	1930
Grand total	1,681,231	1,735,496	1,677,187	1,731,616	53,314	51,788	7,567	7,890
United States proper	1,666,071	1,720,922	1,670,536	1,724,851	52,805	51,320	7,543	7,839
New England	138,917	148,356	125,103	135,885	5,209	5,085	665	668
Maine	15,591	16,974	9,665	10,578	132	139	35	36
New Hampshire	9,796	10,462	5,132	5,596	102	102	63	12
Vermont	7,998	8,319	3,929	4,224	56	57	10	10
Massachusetts	70,073	75,094	81,419	88,568	3,094	2,971	300	347
Rhode Island	9,343	9,865	7,347	7,769	337	328	35	46
Connecticut	26,116	27,642	17,611	19,150	1,488	1,488	222	215
Middle Atlantic	401,042	430,609	431,837	452,778	25,547	25,701	3,416	3,405
New York	227,227	245,312	267,782	278,098	17,746	17,981	2,179	2,140
New Jersey	54,609	59,991	38,674	42,433	4,051	4,082	416	421
Pennsylvania	119,206	125,306	125,381	132,247	3,750	3,638	821	844
East North Central	355,052	356,902	463,741	463,275	10,219	9,418	1,524	1,681
Ohio	81,412	83,437	93,968	97,269	1,591	1,492	346	385
Indiana	36,030	36,725	42,149	42,475	691	765	94	89
Illinois	104,676	108,339	238,857	229,716	4,424	4,202	670	759
Michigan	85,929	81,178	58,007	61,265	2,535	2,061	245	297
Wisconsin	47,005	47,223	30,760	32,550	978	898	169	151
West North Central	167,579	171,245	188,025	189,477	1,725	1,583	419	437
Minnesota	36,676	37,519	56,463	57,027	445	418	113	114
Iowa	30,582	30,375	22,923	23,960	201	191	70	53
Missouri	35,255	37,280	73,952	71,764	444	411	124	128
North Dakota	15,623	14,828	5,414	6,089	77	67	20	21
South Dakota	13,806	13,740	5,572	5,367	61	58	18	15
Nebraska	15,751	17,065	12,536	13,737	166	163	48	78
Kansas	19,886	20,438	11,165	11,533	331	275	26	28
South Atlantic	172,707	183,552	145,845	155,882	1,070	1,111	354	342
Delaware	2,966	3,234	1,364	1,459	68	70	21	9
Maryland	17,924	19,624	28,798	25,938	249	289	32	37
District of Columbia	8,922	9,909	17,476	18,523	227	243	180	181
Virginia	22,518	23,458	16,556	17,676	103	102	13	14
West Virginia	25,441	25,394	10,547	11,199	80	66	47	45
North Carolina	23,658	22,227	13,025	15,068	52	51	7	7
South Carolina	15,058	15,212	8,622	8,294	32	31	4	3
Georgia	26,073	27,329	31,602	34,181	56	56	8	9
Florida	30,147	37,165	17,855	23,544	203	203	42	37
East South Central	74,003	75,674	50,009	53,196	195	163	27	31
Kentucky	18,209	18,404	10,555	10,951	62	62	10	9
Tennessee	17,892	18,514	23,235	24,804	81	52	7	8
Alabama	19,698	19,791	10,302	10,990	41	40	7	9
Mississippi	18,204	18,965	5,917	6,451	11	9	3	5
West South Central	132,485	122,031	85,905	81,304	1,440	1,159	236	225
Arkansas	18,439	19,004	9,453	9,729	18	19	5	5
Louisiana	19,950	20,717	13,027	13,861	115	94	20	19
Oklahoma	29,451	29,672	15,277	16,865	118	94	10	15
Texas	64,645	52,638	48,148	40,849	1,189	952	201	186
Mountain	81,545	81,795	49,053	52,730	1,640	1,506	166	178
Montana	16,902	16,407	7,431	7,904	254	230	24	22
Idaho	9,286	9,303	3,368	3,383	91	86	12	11
Wyoming	7,919	7,586	2,080	1,912	114	100	13	6
Colorado	16,587	16,628	17,520	20,403	307	260	61	57
New Mexico	8,652	9,131	3,104	3,306	119	111	7	29
Arizona	10,394	10,929	4,505	5,327	377	341	24	23
Utah	7,861	7,809	9,641	8,853	281	279	23	27
Nevada	3,944	4,002	1,404	1,642	97	99	2	3
Pacific	142,740	150,759	131,019	140,324	5,761	5,598	738	871
Washington	31,098	31,898	27,119	28,152	815	755	94	105
Oregon	17,217	17,335	16,862	17,409	362	329	40	42
California	94,428	101,526	87,038	94,763	4,584	4,514	604	723
Outlying offices	15,161	14,575	6,651	6,765	509	467	23	51
Alaska	2,949	2,880	563	561	99	88	3	4
Guam	72	74	4	5	3	2	(1)	19
Hawaii	7,367	6,931	1,849	1,866	367	339	17	24
Porto Rico	4,224	4,150	4,107	4,208	20	17	1	3
Samoa (Tutuila)	52	42	5	5	14	13	1	--------
Virgin Islands	497	498	6	120	6	8	1	1

[1] 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. 383.—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 and 1927

[All money figures in thousands of dollars]

	1902 [1]	1907	1912	1917	1922	1927
ALL SYSTEMS						
Number of systems and lines	9,136	22,971	32,233	53,234	57,253	60,148
Miles of wire (thousands)	4,900	12,999	20,248	28,827	37,266	63,836
Number of telephones (thousands)	2,371	6,119	8,730	11,717	14,347	18,523
Number of calls originating with systems reporting (millions)	(2)	(2)	(2)	21,846	24,648	31,614
Number of employees	(2)	(2)	(2)	262,629	312,015	375,272
Salaries and wages	(2)	(2)	(2)	175,670	352,926	486,597
Revenue, operating [3]	(2)	(2)	(2)	363,832	665,568	1,023,574
Investment in plant and equipment	(2)	(2)	(2)	1,492,329	2,205,183	3,548,875
SYSTEMS REPORTING ANNUAL INCOME OF $5,000 OR MORE, 1902–1917, AND THOSE REPORTING $10,000 OR MORE, 1922 AND 1927						
Number of systems and lines	4,151	1,636	1,916	2,200	1,323	1,368
Miles of wire, total (thousands)	4,850	11,922	19,019	27,298	35,503	62,277
Underground	(4)	(4)	9,165	14,849	21,440	39,893
Overhead	(4)	(4)	9,854	12,449	14,063	22,384
Exchange lines	(4)	(4)	16,336	23,723	30,907	54,281
Toll lines	(4)	(4)	2,683	3,575	4,596	7,996
Number of telephones (thousands)	2,315	4,907	7,327	9,954	12,295	16,713
Number of central offices	10,361	10,613	11,515	12,294	10,666	11,485
Number of private-branch exchanges	7,883	28,276	52,651	80,914	102,622	(5)
Number of calls originating with systems reporting (millions)	[6] 5,071	10,400	13,736	19,809	21,901	29,196
Local exchange	[6] 4,950	10,161	13,395	19,366	21,235	28,109
Long distance or toll	[6] 121	240	341	443	666	1,087
Number of employees	78,752	131,670	183,361	244,490	290,333	356,739
Salaries and wages	36,256	65,009	96,041	169,655	341,538	475,840
Operators (included above):						
Number	39,858	72,518	96,332	138,971	159,558	(5)
Male	2,525	2,457	1,972	1,679	932	(5)
Female	37,333	70,061	94,360	137,292	158,626	(5)
Wages	10,765	22,637	32,474	66,137	138,897	(5)
BELL SYSTEM (INCLUDED ABOVE)						
Miles of wire (thousands)	3,388	8,947	15,133	23,134	30,614	56,819
Number of telephones (thousands)	1,317	3,132	5,087	7,327	9,515	13,726
Number of originating calls (millions)	3,075	6,401	9,133	14,598	16,567	23,693
SYSTEMS REPORTING ANNUAL INCOME OF LESS THAN $5,000, 1902–1917, AND LESS THAN $10,000, 1922 AND 1927						
Miles of wire (thousands)	50	1,077	1,229	1,529	1,763	1,559
Number of telephones (thousands)	56	1,212	1,403	1,763	2,052	1,810
Number of originating calls (millions)	(4)	(4)	(4)	2,037	2,746	2,418

[1] Statistics for 1902 not strictly comparable with those for later years, except miles of wire and number of telephones.
[2] Not reported except for the larger systems and lines.
[3] Including assessments of mutual companies.
[4] Comparable data not available.
[5] Not called for on schedule.
[6] Number shown for all systems and lines.

Source: Bureau of the Census, Department of Commerce.

No. 384.—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, 1927	Number of originating calls (millions)	
	1922	1927	1902	1912	1922	1927		1922	1927
United States	37,265,958	63,836,182	2,371,044	8,729,592	14,347,395	18,522,767	155	24,648	31,614
New England	3,346,608	5,586,569	166,167	625,488	1,223,497	1,548,931	188	1,909	2,328
Maine	210,707	326,120	14,070	68,914	113,725	131,367	165	184	214
New Hampshire	134,326	211,448	9,949	40,017	68,874	83,066	183	104	117
Vermont	78,991	105,645	12,151	40,142	54,530	60,793	172	83	84
Massachusetts	1,908,091	3,165,833	96,512	329,992	687,700	867,888	203	1,100	1,334
Rhode Island	213,713	429,451	33,485	41,664	92,766	114,944	162	125	117
Connecticut	800,780	1,348,072		104,759	205,902	290,873	176	313	462
Middle Atlantic	10,818,580	19,992,689	483,054	1,782,145	3,249,710	4,588,211	183	4,826	6,908
New York	6,121,696	11,592,418	247,340	970,449	1,780,563	2,595,537	226	2,728	3,935
New Jersey	1,523,354	3,012,459	48,980	185,632	383,490	599,336	158	473	774
Pennsylvania	3,173,530	5,387,812	186,734	626,064	1,085,651	1,393,338	142	1,625	2,199
East North Central	8,763,146	15,223,410	740,059	2,378,257	3,693,101	4,589,751	185	6,077	7,538
Ohio	2,415,187	3,658,505	224,083	631,200	962,837	1,122,036	166	1,555	1,958
Indiana	1,058,314	1,558,005	136,561	354,550	508,726	552,249	175	959	1,061
Illinois	3,060,595	5,688,146	221,008	807,253	1,283,449	1,685,690	229	2,018	2,571
Michigan	1,300,945	2,967,217	95,415	335,074	508,140	711,315	156	856	1,140
Wisconsin	838,105	1,351,537	62,992	250,174	429,949	518,461	177	689	808
West North Central	4,487,007	6,044,901	399,855	1,621,523	2,315,996	2,594,081	196	4,083	4,577
Minnesota	1,147,278	1,422,716	63,192	272,359	424,777	487,611	180	804	931
Iowa	757,600	960,226	138,400	380,294	533,347	565,533	233	808	916
Missouri	1,247,503	1,988,764	103,155	404,150	550,980	657,946	187	1,046	1,259
North Dakota	124,873	140,923	6,762	51,241	77,586	86,198	134	110	129
South Dakota	108,414	154,601	10,387	65,858	101,555	107,641	154	159	171
Nebraska	514,374	606,425	36,766	201,689	273,500	295,274	210	520	524
Kansas	586,965	771,246	41,193	245,932	354,251	393,878	215	636	637
South Atlantic	2,448,857	4,244,852	146,765	531,402	937,324	1,262,222	79	1,818	2,426
Delaware	93,891	118,539	36,383	15,842	23,534	28,901	119	41	53
Maryland	540,089	936,353		84,801	153,790	197,135	123	237	294
District of Columbia	314,636	540,152		46,603	102,231	144,985	266	121	186
Virginia	379,093	615,286	25,762	76,652	155,490	183,698	72	267	382
West Virginia	226,739	349,899	22,801	80,251	116,081	146,677	86	203	279
North Carolina	199,594	392,455	17,036	65,152	116,129	160,507	55	274	379
South Carolina	126,284	171,678	10,753	33,239	54,078	64,616	35	125	146
Georgia	390,382	538,751	25,761	96,436	136,334	173,410	54	372	437
Florida	178,149	581,739	8,269	32,426	79,657	162,293	117	178	270
East South Central	1,248,559	2,001,125	112,851	337,292	521,120	644,270	69	1,274	1,537
Kentucky	467,781	722,120	46,949	130,751	201,545	222,735	87	429	485
Tennessee	399,932	642,096	36,392	104,353	171,413	220,559	88	479	559
Alabama	229,934	421,927	14,170	56,292	84,401	121,115	47	219	313
Mississippi	150,912	214,982	15,340	45,896	63,761	79,861	45	147	180
West South Central	2,148,789	3,619,976	114,939	543,102	872,157	1,149,357	98	1,963	2,649
Arkansas	219,398	318,868	16,928	68,303	99,490	118,178	61	216	239
Louisiana	256,372	560,262	17,543	46,602	87,354	137,610	71	260	385
Oklahoma	424,005	655,102	15,732	116,217	222,889	278,912	116	462	581
Texas	1,249,014	2,085,744	64,736	311,980	462,424	614,657	113	1,025	1,444
Mountain	927,662	1,198,550	48,067	226,652	385,730	456,198	117	636	780
Montana	120,725	135,536	5,451	35,537	55,115	59,238	108	75	81
Idaho	105,027	111,940	3,886	29,454	48,745	54,822	101	88	128
Wyoming	50,223	60,622	[1] 7,258	9,946	24,949	28,049	114	42	39
Colorado	412,816	559,873	24,533	90,397	150,652	183,250	169	247	313
New Mexico	37,428	48,765	2,510	10,346	18,342	21,580	55	33	35
Arizona	55,518	89,305	3,264	11,224	24,353	33,194	71	31	37
Utah	129,193	167,393	(2)	34,064	53,261	63,106	120	104	127
Nevada	16,732	25,116	1,165	5,684	10,313	12,959	168	16	20
Pacific	3,076,750	5,924,110	159,287	683,731	1,148,760	1,689,746	242	2,062	2,871
Washington	533,515	739,138	31,447	150,016	238,275	299,109	190	449	554
Oregon	368,342	490,820	21,190	99,713	146,847	185,171	207	277	331
California	2,174,893	4,694,152	106,650	434,002	763,638	1,205,466	268	1,336	1,986

[1] Includes Utah.
[2] Included with Wyoming.

Source: Bureau of the Census, Department of Commerce.

No. 385.—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	1921	13,875,200	13,380,219	27,819,821
1900	1,355,900	855,911	1,961,801	1922	[3] 14,347,395	14,050,565	30,616,522
1905	4,126,900	2,530,924	5,779,918	1923	15,369,500	15,000,101	34,523,842
1910	7,635,400	5,882,719	11,642,212	1924	16,072,500	15,906,550	39,893,619
1915	10,523,500	9,172,495	18,505,545	1925	16,935,900	16,720,224	45,473,540
1916	11,241,400	9,893,610	19,850,315	1926	17,746,000	17,574,252	50,861,150
1917	[3] 11,716,520	10,539,576	22,610,487	1927	[3] 18,522,767	18,365,486	56,822,895
1918	12,077,600	11,065,999	23,346,132	1928	19,341,000	19,197,035	62,192,744
1919	12,668,500	11,795,747	24,162,999	1929	20,068,000	19,958,000	69,519,425
1920	13,329,400	12,601,935	25,377,404	1930	20,201,000	20,008,059	76,248,265

[1] Partly estimated, except as indicated.
[2] Bell-owned and Bell-connecting (owned by other companies).
[3] From Bureau of the Census.

No. 386.—AMERICAN TELEPHONE & TELEGRAPH CO. AND ASSOCIATED OPERATING COMPANIES (BELL TELEPHONE SYSTEM): Summary of Statistics

	1910	1915	1920	1925	1928	1929	1930
	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	56,196	61,034	62,365
Toll messages, daily average	603	819	1,327	2,098	2,839	3,139	2,933
Central offices (number)	4,933	5,300	5,702	6,017	6,224	6,396	6,585
Miles of wire, total	11,642	18,506	25,377	45,474	62,193	69,519	76,248
Aerial wire	5,625	7,932	9,630	14,991	21,112	23,953	26,023
Underground wire	6,017	10,573	15,748	30,483	41,081	45,566	50,225
Exchange wire	9,678	16,052	21,604	39,841	53,416	58,511	62,867
Toll wire	1,964	2,453	3,773	5,633	8,777	11,008	13,381
Miles of phantom circuit [1]	116	197	508	795	1,238	1,581	2,206
Telephone stations, total	5,883	9,172	12,602	16,720	19,197	19,958	20,098
Bell-owned [2]	3,933	5,968	8,334	12,035	14,525	15,414	15,682
Bell-connecting (owned by other companies)	1,950	3,204	4,268	4,685	4,672	4,544	4,416
Employees (number)	120,311	156,294	231,316	293,095	334,335	364,045	324,343
	Income statement year ended Dec. 31 (in thousands of dollars) [3]						
Gross revenues	165,613	239,910	461,135	761,219	1,003,048	1,114,760	1,151,566
Expenses	114,618	173,728	381,626	578,776	760,326	838,073	883,692
Net revenue	50,994	66,182	79,509	182,443	242,722	276,687	267,874
Interest	11,557	18,096	31,724	45,940	51,635	59,582	66,228
Net income	39,438	48,086	47,785	136,503	191,087	217,105	201,646
Dividends	25,161	32,897	40,000	93,243	119,348	132,224	156,625
Balance	14,277	15,189	7,785	43,260	71,739	84,881	45,021
	Telephone plant, capital stock, and funded debt Dec. 31 (in thousands of dollars) [3]						
Telephone plant	611,000	880,069	1,363,826	2,524,906	3,275,687	3,671,100	4,043,422
Capital stock	344,645	440,711	511,493	1,144,619	1,564,644	1,611,862	2,155,053
Funded debt	224,792	353,236	585,794	890,337	964,784	1,148,540	1,115,592

[1] A phantom circuit is an extra circuit obtained without use of additional line wires by special inter connection of the four wires forming two existing physical circuits.
[2] Includes private line stations.
[3] All duplications between companies excluded.

Source of Tables 385 and 386: American Telephone & Telegraph Co.

No. 387.—TELEPHONE SYSTEMS: Reports to Interstate Commerce 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. Class B now includes companies with revenues from $100,000 to $250,000 and Class C those with revenues from $50,000 to $100,000. The smaller companies, Class D, are not covered in the table

Year ended Dec. 31—	Miles of wire (thousands)	Number of company stations (thousands)	Operating revenues	Operating expenses	Operating income before deduction of taxes	Operating income after deduction of taxes	Investment	
							Plant and equipment	All other
			Thousands of dollars					
All companies:								
1916	23,699	8,963	314,801	209,233	(1)	(1)	1,217,756	(1)
1920	29,640	--------	530,349	(1)	(1)	88,024	1,704,304	1,122,289
1922	35,475	--------	634,134	(1)	(1)	133,505	2,019,726	1,223,639
1924	44,006	--------	729,826	513,779	(1)	156,713	2,501,828	1,491,939
1925	49,773	13,875	818,218	556,993	257,231	193,599	2,790,056	1,633,124
1926	56,021	14,812	907,564	608,150	294,925	219,508	3,101,797	1,744,637
1927	62,096	15,702	979,414	658,231	316,951	235,047	3,367,860	1,953,742
1928	67,790	16,648	1,068,478	715,032	348,175	260,641	3,666,739	2,030,651
1929	75,729	17,697	1,172,863	791,612	375,018	284,968	4,070,131	2,337,207
Class A companies:								
1920	27,402	9,294	486,427	375,372	112,069	81,362	1,518,660	1,092,698
1925	48,487	13,037	792,428	539,072	248,476	186,777	2,674,926	1,631,335
1929	74,380	16,857	1,144,508	722,380	365,046	276,965	3,936,122	2,331,955
1930	(1)	17,115	1,183,600	813,718	360,803	269,780	(1)	(1)
Class B companies: 1929	957	561	19,303	12,904	6,352	4,942	80,167	4,630
Class C companies: 1929	392	279	9,052	6,328	3,620	3,061	53,842	622

[1] Data not available.

Source: Interstate Commerce Commission.

No. 388.—WIRELESS TELEGRAPH SYSTEMS: Summary of Statistics

Note.—1917 omitted owing to war conditions

	1907	1912	1922	1927
Number of companies or systems	5	4	4	5
Number of messages	154,617	285,091	2,365,100	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			$1,225,169	$17,711,483
Cash and current assets	$32,196,456	$9,171,427	[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			$525,000	----------
Floating debt	$282,655	$287,866	$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. 389.—TELEGRAPH AND CABLE SYSTEM: Summary of Reports to the Interstate Commerce Commission

[All money figures in thousands of dollars. Data are not available for 1918 and 1919]

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
1917	1,937	152,462	(1)	90,791	74.82	(1)	13,807	7,078
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
Western Union Co.: 1929	1,934	284,277	41,044	145,667	82.24	20,514	15,577	8,188
Mackay companies: 1929	360	67,078	9,474	29,304	94.58	990	181	------

[1] Data not avilable.

Source: Interstate Commerce Commission.

No. 390.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS COMBINED: Financial Statistics

[All figures in thousands of dollars]

	1902	1912	1917	1922	1927
INCOME ACCOUNT					
Income, total	40,930	64,763	109,703	151,858	182,998
Telegraph traffic	35,301	60,403	106,990	146,805	177,589
From other sources	5,629	4,360	2,713	5,053	5,409
Expenses, total	30,948	58,379	91,871	127,991	159,153
Operation and maintenance	24,456	[1] 46,780	[1] 74,935	[1] 113,140	[1] 141,987
Interest and taxes	2,539	3,955	7,982	10,195	11,838
All other	3,953	7,644	[2] 8,954	[2] 4,656	[2] 5,328
Net income [3]	9,982	6,384	17,832	23,867	23,845
Dividends	6,257	6,180	9,817	10,716	14,199
BALANCE SHEET					
Assets	195,504	298,289	363,017	459,469	572,939
Plant and equipment	161,680	222,047	243,358	326,662	426,699
Securities and investments	25,940	33,934	56,035	78,839	52,270
Cash and current assets	7,884	[4] 42,308	[4] 63,624	[4] 53,969	[4] 93,970
Liabilities	195,504	298,289	363,017	459,469	572,939
Capital stock	117,053	163,646	167,260	177,204	180,095
Funded debt	45,893	62,741	61,828	71,394	97,037
Reserve	7,860	20,804	53,663	90,222	118,031
Other liabilities	6,619	35,248	45,484	50,133	64,557
Net surplus	18,079	15,850	34,782	70,517	113,219

[1] Includes charges for depreciation.
[2] Includes payment for use of leased lines.
[3] Total income less all expenses, including depreciation; for 1917, 1922, and 1927, does not include charges for sinking and other reserve funds.
[4] Includes sinking funds and stock and bond discount.

Source: Bureau of the Census, Department of Commerce.

No. 391.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: FINANCIAL STATISTICS

NOTE.—Western Union figures, which constitute the largest item of the totals, do not segregate land telegraph from ocean-cable business and are shown as totals under land telegraphs. Consequently, data in these columns overstate and those under ocean cables understate the true amounts

[All figures in thousands of dollars]

	Land systems				Ocean systems			
	1912	1917	1922	1927	1912	1917	1922	1927
INCOME ACCOUNT								
Income, total	56,293	92,954	130,539	162,860	8,470	16,749	21,319	20,137
Telegraph traffic	52,337	91,313	128,631	159,682	8,066	15,677	18,174	17,907
From other sources	3,956	1,642	1,908	3,178	404	1,072	3,145	2,230
Expenses	52,863	80,829	114,864	146,771	5,516	11,042	13,127	12,382
Net income	[1] 3,431	[1] 12,125	[1] 15,675	[1] 16,089	2,953	5,707	8,193	7,755
BALANCE SHEET								
Assets	190,706	226,407	321,913	412,720	107,583	136,610	137,557	160,219
Plant and equipment	[2] 143,911	[2] 163,488	254,030	338,143	[3] 78,136	[3] 79,871	72,632	88,556
Securities and investments	17,123	29,565	31,875	12,567	16,811	26,470	46,964	39,704
Cash and current assets	[4] 29,672	[4] 33,355	[4] 36,008	[4] 62,010	[5] 12,636	[5] 30,269	[5] 17,961	[5] 31,959
Liabilities	190,706	226,407	321,913	412,720	107,583	136,610	137,556	160,219
Capital stock	108,156	106,360	104,466	104,472	55,490	60,900	72,738	75,623
Funded debt	[6] 34,741	[6] 33,828	67,394	92,872	[7] 28,000	[7] 28,000	4,000	4,165
Reserves	5,255	20,627	46,773	64,607	15,549	33,036	43,449	53,424
Other liabilities	33,201	37,024	40,430	57,983	2,047	8,460	9,702	6,574
Net surplus	9,353	28,568	62,849	92,786	6,497	6,214	7,668	20,433

[1] Total income less all expenses, including depreciation; for 1917, 1922, and 1927 does not include charges for sinking and other reserve funds.
[2] Not including land-line-system plant and equipment to the value of $20,000,000 reported as cable-system plant and equipment for 1912 and 1917. (In statistics for preceding censuses an item of $20,000,000 funded debt, offset by the same amount for plant and equipment, was carried against ocean-cable telegraphs. This debt being really a land-line-system debt, is eliminated from the figures for ocean-cable system in 1922 and 1927.)
[3] Includes land-line-system plant and equipment to the value of $20,000,000 (see note 2).
[4] Includes sinking funds and stock and bond discount.
[5] Includes sinking and other special funds.
[6] Not including land-line-system funded debt to the amount of $20,000,000 reported as cable-system indebtedness in 1912 and 1917 (see note 2).
[7] Includes land-line-system indebtedness to the amount of $20,000,000 (see note 2),

No. 392.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS COMBINED: EQUIPMENT, TRAFFIC, EMPLOYEES, SALARIES, AND WAGES

	1902	1912	1917	1922	1927
Miles of pole line [1]	237,990	247,528	241,128	252,991	256,809
Miles of single wire [2]	1,318,350	1,814,196	1,890,245	1,853,250	2,146,470
Aerial	(3)	(3)	1,809,482	1,718,251	1,940,069
Underground	(3)	(3)	77,187	131,448	200,811
Submarine	(3)	(3)	3,576	3,551	5,590
Nautical miles of ocean cable	16,677	67,676	71,251	76,711	105,893
Number of offices	27,377	30,864	28,940	27,354	27,666
Operated jointly with railway companies	(3)	26,247	23,272	21,906	21,449
Telegrams, thousands	91,655	109,378	[4] 127,074	191,121	229,532
Governmental	(3)	(3)	4,597	3,199	2,732
Full commercial rate	(3)	(3)	110,618	175,847	214,164
Contract rate and free	(3)	(3)	11,858	12,075	12,636
Number of employees	27,627	37,295	51,574	68,632	81,498
Salaries and wages ($1,000)	15,040	24,965	39,644	76,162	99,520

[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. No data for 1902.
[3] Figures not available.
[4] In addition, 31,102,577 lettergrams, not distributed according to rate, were reported by land systems.

Source of Tables 391 and 392: Bureau of the Census, Department of Commerce.

No. 393.—LAND AND OCEAN-CABLE TELEGRAPH SYSTEMS: EQUIPMENT, TRAFFIC, EMPLOYEES, SALARIES AND WAGES

NOTE.—The land business and the ocean business of the Western Union Telegraph Co. are not segregated in this table for 1912 and are shown as totals under land systems. The total (estimated) number of messages in 1912 was 103,536,418 on land systems and 5,841,280 on ocean systems.

	Land systems				Ocean systems			
	1912	1917	1922	1927	1912	1917	1922	1927
Miles of pole line [1]	247, 528	241, 012	252, 991	254, 720	--------	116	--------	2, 089
Miles of single wire [2]	1, 814, 196	1, 888, 793	1, 845, 237	2, 143, 334	(3)	1, 452	3, 013	3, 136
Aerial	(3)	1, 808, 325	1, 714, 211	1, 938, 833	(3)	1, 157	4, 040	1, 236
Underground	(3)	76, 892	127, 475	198, 911	(3)	295	3, 973	1, 900
Submarine	(3)	3, 576	3, 551	5, 590	--------	--------	--------	--------
Nautical miles of ocean cable	--------	--------	--------	--------	67, 676	71, 251	76, 711	105, 893
Number of offices	30, 781	28, 826	27, 214	27, 500	83	114	140	106
Operated jointly with railway companies	26, 247	23, 272	21, 906	21, 449	--------	--------	--------	--------
Telegrams, thousands	108, 533	[4] 120, 623	181, 519	215, 595	2, 845	6, 451	9, 603	13, 987
Governmental	(3)	4, 309	3, 130	2, 657	(3)	288	69	75
Full commercial rate	(3)	106, 159	166, 730	200, 381	(3)	4, 459	9, 117	13, 783
Contract rate and free	(3)	10, 154	11, 659	12, 557	(3)	1, 704	417	129
Number of employees	35, 639	47, 227	62, 299	77, 235	1, 656	4, 347	6, 333	4, 263
Salaries and wages ($1,000)	23, 798	36, 392	68, 737	93, 413	1, 167	3, 252	7, 425	6, 108

[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.
[3] Figures not available.
[4] In addition, 31,102,577 lettergrams, not distributed according to rate, were reported.

No. 394.—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
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—						
1913	237, 807	1, 562, 170	25, 060	46, 899, 267	42, 327, 121	4, 572, 146
1914	240, 231	1, 609, 346	25, 784	47, 287, 388	40, 578, 751	6, 708, 637
1915	238, 940	1, 610, 709	25, 142	52, 475, 721	40, 972, 541	11, 503, 180
1916	237, 664	1, 627, 342	25, 234	63, 621, 601	[1] 49, 894, 346	13, 727, 255
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, 974, 961	15, 474, 893
1930	256, 763	1, 948, 938	24, 298	133, 235, 751	123, 988, 719	9, 247, 032

[1] Includes special payment to employees, $1,166,424. [2] Figures readusted. [3] Corporate and Federal.

Sources: Table 393, Bureau of the Census, Department of Commerce; Table 394, Annual Reports of the Western Union Telegraph Co.

18.—POWER—ELECTRIC AND OTHER

[Data in this section relate to continental United States]

No. 395.—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
1925	1,681	13,625	15,306	4,582	1,278	371	1,290	22,827	871	7.6
1926	2,297	15,022	17,319	4,625	1,411	362	1,492	25,209	962	8.3
1927	2,179	13,565	15,744	5,407	1,553	350	1,687	24,741	944	8.0
1928	2,049	13,120	15,169	5,409	1,686	479	1,942	24,685	942	7.9
1929	2,008	14,017	16,025	6,044	2,062	474	1,929	26,534	1,013	8.3
Per cent of total—										
1901–1905	18.0	70.7	88.7	6.1	3.2	--------	2.1	100.0	--------	--------
1911–1915	14.5	68.9	83.4	8.9	3.7	0.4	3.5	100.0	--------	--------
1921–1925	9.9	59.2	69.1	18.2	4.8	2.7	5.2	100.0	--------	--------
1929	7.5	52.8	60.3	22.8	7.8	1.8	7.3	100.0	--------	--------

[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.

No. 396.—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 3,900 in 1930, 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 per cent 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	Tota	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
1907	10,621	--------	--------	--------	--------	--------	--------	--------	4,432
1912	17,572	--------	--------	--------	--------	--------	--------	--------	7,670
1917	32,679	--------	--------	--------	--------	--------	--------	--------	11,919
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

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

Sources: Table 395, Bureau of Mines, Department of Commerce; Table 396, 1902 to 1917, Bureau of the Census, Department of Commerce; thereafter, Geological Survey, Department of the Interior.

No. 397.—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, 1930
	Total						Generated by water power		Generated by fuel power		
	1920	1924	1926	1928	1929	1930	1920	1930	1920	1930	
United States	43,555	59,014	73,791	87,850	97,352	95,936	16,150	33,021	27,405	62,915	34,264
New England	3,407	4,335	5,166	5,959	6,609	6,400	1,134	2,137	2,273	4,263	2,928
Maine	352	474	544	694	720	731	344	666	9	65	282
New Hampshire	97	216	264	302	310	367	61	295	36	72	256
Vermont	200	224	265	452	464	480	196	478	4	2	178
Massachusetts	1,740	2,098	2,499	2,751	3,026	2,908	358	501	1,382	2,406	1,344
Rhode Island	334	427	476	490	653	547	6	3	328	544	243
Connecticut	684	896	1,118	1,270	1,436	1,367	169	194	515	1,174	625
Middle Atlantic	12,349	16,306	20,527	22,657	24,784	25,136	3,665	6,190	8,684	18,946	8,484
New York	6,939	9,289	11,333	13,030	14,465	14,404	3,030	5,514	3,909	8,889	4,965
New Jersey	1,096	1,304	1,737	2,085	2,165	2,857	2	18	1,094	2,839	927
Pennsylvania	4,314	5,713	7,457	7,542	8,155	7,875	633	657	3,681	7,217	2,592
East North Central	9,958	13,791	17,664	20,947	23,333	22,165	1,382	2,217	8,576	19,947	7,992
Ohio	2,930	3,702	4,761	5,539	6,417	5,942	28	24	2,902	5,918	2,291
Indiana	933	1,298	1,758	1,989	2,576	2,943	35	109	898	2,834	987
Illinois	3,043	4,665	5,930	6,966	7,369	6,851	185	259	2,858	6,592	2,335
Michigan	2,093	2,697	3,393	4,347	4,695	4,270	672	986	1,421	3,284	1,554
Wisconsin	960	1,430	1,821	2,106	2,276	2,159	463	840	497	1,318	826
West North Central	3,179	3,934	4,587	5,126	5,675	5,982	1,166	1,435	2,013	4,547	2,394
Minnesota	703	870	1,040	1,065	1,202	1,311	410	623	293	688	514
Iowa	1,017	1,175	1,345	1,521	1,499	1,574	662	682	354	892	567
Missouri	698	889	913	991	1,221	1,269	46	53	652	1,216	608
North Dakota	28	39	48	85	105	125	-------	-------	28	125	57
South Dakota	48	66	80	106	108	114	15	14	33	101	62
Nebraska	247	338	395	464	533	575	13	35	235	540	215
Kansas	438	557	766	893	1,007	1,014	21	28	417	986	371
South Atlantic	3,980	5,950	7,197	10,500	11,902	10,895	1,614	5,111	2,365	5,784	4,294
Delaware	76	88	119	100	53	18	-------	-------	76	18	32
Maryland	283	482	588	1,477	2,011	1,869	3	989	280	881	620
District of Columbia	255	315	381	467	505	548	-------	12	255	536	199
Virginia	521	744	926	1,168	1,297	1,231	203	192	318	1,039	426
West Virginia	1,128	1,763	1,807	2,045	2,220	2,103	23	84	1,105	2,019	560
North Carolina	260	647	1,117	2,225	2,552	2,298	208	1,908	51	390	993
South Carolina	730	944	1,038	1,399	1,457	1,202	673	1,013	57	189	686
Georgia	595	749	711	981	1,136	937	491	861	104	76	407
Florida	133	218	510	637	670	688	13	52	120	636	370
East South Central	1,464	2,064	3,049	3,326	3,623	3,882	840	2,987	623	895	1,639
Kentucky	276	405	514	625	715	719	-------	201	276	518	335
Tennessee	573	694	894	956	1,021	1,037	441	738	132	299	416
Alabama	550	890	1,583	1,695	1,830	2,065	399	2,048	150	16	832
Mississippi	66	74	59	50	57	62	-------	-------	66	62	56
West South Central	1,230	1,923	2,640	4,035	4,896	5,055	7	66	1,222	4,989	1,592
Arkansas	119	155	164	150	128	108	1	40	117	68	94
Louisiana	219	308	520	821	990	1,067	-------	-------	219	1,067	267
Oklahoma	214	331	463	844	977	958	2	3	212	955	334
Texas	679	1,129	1,493	2,221	2,801	2,922	4	23	675	2,899	897
Mountain	2,581	2,963	3,425	3,918	3,967	3,699	2,247	3,012	334	687	1,145
Montana	1,126	1,145	1,408	1,619	1,614	1,320	1,119	1,298	7	22	311
Idaho	591	793	811	948	894	912	589	909	2	3	229
Wyoming	47	54	59	84	99	98	2	40	44	58	48
Colorado	397	490	562	541	564	573	185	236	213	337	225
New Mexico	15	20	26	52	67	76	1	2	14	74	43
Arizona	159	153	172	336	283	384	107	243	53	141	139
Utah	212	267	350	283	402	293	212	243	(1)	50	140
Nevada	34	42	37	55	44	43	33	41	1	2	11
Pacific	5,408	7,748	9,537	11,382	12,563	12,723	4,094	9,866	1,314	2,856	3,797
Washington	1,197	1,504	1,808	2,361	2,552	2,255	1,154	2,290	43	265	784
Oregon	476	678	831	1,041	1,161	1,219	371	772	105	447	315
California	3,736	5,566	6,898	7,980	8,850	8,948	2,569	6,804	1,167	2,144	2,698

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

Source: Geological Survey, Department of the Interior.

No. 398.—CENTRAL ELECTRIC STATIONS: EQUIPMENT, EMPLOYEES, OUTPUT AND SALES

NOTE.—A central electric station is one selling current to public or private consumers, or a municipal plant supplying current for streets, public buildings, etc. Isolated or private plants operated solely for the benefit of the owner in connection with factories, mines, stores, hotels, institutions, etc., which in the aggregate produce great quantities of current, are not included. The business of electric street railways is shown only so far as that portion of their business relating to the sale of current can be segregated. Electric plants operated by the Federal or State Governments are excluded even when they sell current to private consumers. One central electric station often sells current to another, so that there is considerable duplication in total sales. Net sales are considerably less than current generated because of wire losses, self consumption, etc.

	All central electric stations					
	1902	1907	1912	1917	1922	1927
Number of stations [1]	3,620	4,714	5,221	6,542	6,355	4,335
Prime movers, horsepower....thousands	1,845	4,098	7,530	12,937	19,851	35,710
Steam engines	1,394	1,876	1,895	1,702	1,371	994
Steam turbines		817	3,054	6,747	12,355	24,323
Water wheels and turbines	439	1,349	2,469	4,277	5,822	9,844
Internal-combustion engines	12	56	111	210	303	548
Dynamos:						
Number	12,484	12,173	12,610	13,428	12,701	11,967
Kilowatt capacity....thousands	1,212	2,709	5,165	8,994	14,313	25,811
Output....millions of kilowatt hours			14,183	31,044	50,274	96,829
Generated	2,507	5,862	11,569	25,438	40,292	74,687
Purchased	(2)	(2)	2,614	5,606	9,983	22,142
Sold	(2)	(2)	(2)	25,752	41,965	79,011
To ultimate consumers	(2)	(2)	(2)	(2)	32,948	63,612
For resale	(2)	(2)	(2)	(2)	9,017	15,399
Number of customers....thousands	(2)	1,947	3,838	7,179	12,710	21,786
Salaried employees....number	6,996	12,990	26,093	35,406	55,112	101,415
Salaries....1,000 dollars	5,664	11,734	24,307	36,788	86,951	(3)
Wage earners....number	[4] 23,330	[4] 34,642	[5] 53,242	[5] 70,135	[5] 95,650	[5] 149,605
Wages....1,000 dollars	14,983	23,687	36,855	58,454	125,481	(3)

[1] The term "station" as here used may represent a single electric station or a number of 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. The percentages which the salaried employees and wage earners reported by the commercial plants formed of the corresponding totals for both commercial and municipal plants were 94.6 and 92.8, respectively.
[4] Average number for the year.
[5] Number Sept. 16, 1912; Sept. 29, 1917; June 30, 1922; and June 30, 1927, or nearest representative day.

No. 399.—CENTRAL ELECTRIC STATIONS: EQUIPMENT, EMPLOYEES, AND FINANCES OF COMMERCIAL AND MUNICIPAL STATIONS

NOTE.—See headnote to Table 398

	Commercial stations				Municipal stations			
	1912	1917	1922	1927	1912	1917	1922	1927
Number of establishments	3,659	4,224	3,774	2,137	1,562	2,318	2,581	2,198
Horsepower of prime movers....thousands	6,971	12,078	18,571	33,661	559	859	1,280	2,049
Capacity of dynamos thousands of kw	4,769	8,412	13,407	24,383	397	582	906	1,428
Current millions of kw. hrs	13,557	29,812	47,833	92,299	626	1,232	2,441	4,529
Generated	11,032	24,399	38,413	71,307	537	1,039	1,878	3,379
Purchased	2,525	5,413	9,420	20,992	89	193	563	1,150
Sold—								
To ultimate consumers	(1)	24,723	30,941	60,537	(1)	1,029	2,007	3,075
For resale			8,971	14,808			45	591
Customers....thousands	3,312	6,202	11,065	19,661	526	977	1,645	2,129
Employees....number	71,395	94,679	136,105	234,747	7,940	10,862	14,657	16,273
Income....1,000 dollars	279,054	486,634	986,684	1,841,227	23,219	40,260	85,436	122,437
Expenses....do	217,660	395,127	792,496	1,318,255	16,917	31,441	67,129	(1)
Assets....do	2,490,023	3,631,973	5,504,614	12,950,388	86,521	148,345	288,623	(1)
Value of plant and equipment....1,000 dollars	2,098,613	2,933,017	4,229,356	[2] 8,880,291	77,065	127,375	235,660	417,167

[1] Not called for on schedule.
[2] Includes plant and equipment valued at $902,057,279, not separated as to electric light and power and other properties.

Source of Tables 398 and 399: Bureau of the Census, Department of Commerce.

No. 400.—CENTRAL ELECTRIC STATIONS: STATISTICS OF COMMERCIAL

[See headnote

Division and State	Horsepower of prime movers (thousands)				Millions of kilowatt-hours generated			
	Total		Steam engines and turbines and internal-combustion engines, 1927	Water wheels and turbines, 1927	1907	1912	1917	1922
	1922	1927						
Continental United States	19,851	35,710	25,866	9,844	5,862	11,569	25,438	40,292
New England	1,980	3,009	2,250	759	474	865	1,836	2,970
Maine	128	252	50	202	66	117	166	278
New Hampshire	72	157	61	96	55	127	160	95
Vermont	139	204	20	184	30	43	65	218
Massachusetts	1,065	1,529	1,340	189	219	386	937	1,493
Rhode Island	222	264	262	2	36	62	162	342
Connecticut	354	603	517	86	67	131	346	544
Middle Atlantic	5,060	8,615	6,907	1,708	2,009	3,549	7,659	10,766
New York	2,684	4,212	2,788	1,424	1,452	2,175	3,829	5,431
New Jersey	475	1,004	997	7	141	384	781	1,058
Pennsylvania	1,901	3,399	3,122	277	417	990	3,049	4,277
East North Central	4,588	8,668	7,866	802	1,076	2,528	5,757	9,368
Ohio	1,212	2,354	2,331	23	217	399	1,084	2,404
Indiana	451	870	822	48	130	237	441	795
Illinois	1,405	2,904	2,838	66	468	1,151	2,210	3,090
Michigan	945	1,619	1,263	356	208	526	1,504	2,103
Wisconsin	575	921	612	309	53	215	518	976
West North Central	1,610	2,671	2,227	444	386	713	1,776	2,969
Minnesota	312	516	342	174	88	186	441	589
Iowa	331	649	443	206	38	67	615	859
Missouri	429	648	626	22	147	233	266	701
North Dakota	43	56	56	----------	8	12	23	40
South Dakota	53	70	63	7	14	25	32	62
Nebraska	155	250	229	21	32	56	130	246
Kansas	286	482	468	14	60	133	270	473
South Atlantic	1,910	4,394	2,695	1,699	266	730	1,745	3,789
Delaware, Maryland, Dist. of Columbia	430	695	669	26	78	118	326	622
Virginia	163	502	404	98	10	29	108	319
West Virginia	393	755	670	85	25	42	204	1,199
North Carolina	231	773	301	472	13	71	372	404
South Carolina	449	700	164	536	69	357	500	844
Georgia	149	609	136	473	59	88	184	268
Florida	95	360	351	9	12	26	51	131
East South Central	717	1,447	779	668	119	228	1,049	1,420
Kentucky	135	395	257	138	37	76	123	232
Tennessee	204	456	283	173	35	76	565	493
Alabama	320	508	151	357	31	49	331	634
Mississippi	59	88	88	----------	16	28	30	62
West South Central	626	1,563	1,532	31	139	234	483	1,041
Arkansas	57	131	117	14	12	18	39	84
Louisiana	44	277	277	----------	26	18	26	52
Oklahoma	162	300	298	2	25	49	101	243
Texas	362	855	840	15	76	149	317	662
Mountain	1,005	1,406	386	1,020	381	845	2,036	2,209
Montana	356	378	15	363	137	379	965	988
Idaho	209	307	4	303	10	116	145	531
Wyoming	41	48	44	4	5	12	27	39
Colorado	153	269	190	79	123	165	274	290
New Mexico	20	33	32	1	5	9	17	22
Arizona	82	153	48	105	9	33	66	147
Utah	129	199	50	149	62	87	487	146
Nevada	16	19	3	16	30	45	54	45
Pacific	2,355	3,937	1,224	2,713	1,012	1,878	3,097	5,759
Washington	512	848	149	699	258	71	242	1,144
Oregon	107	308	139	169	93	59	108	267
California	1,735	2,781	936	1,845	662	1,747	2,747	4,348

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

AND MUNICIPAL PLANTS WITH CURRENT GENERATED AND SOLD, BY STATES

to Table 398]

Millions of kilowatt-hours generated—Continued			Millions of kilowatt hours sold, 1927—		Income (in thousands of dollars), 1927—		Division and State
1927	Commercial stations, 1927	Municipal stations, 1927	To ultimate consumers	For resale	From sale of electric current to ultimate consumers	From electric current sold for resale	
74,686	71,307	3,379	63,612	15,399	1,667,045	135,610	**Continental United States.**
4,750	4,660	90	3,956	1,868	138,141	18,653	**New England.**
561	557	4	473	41	9,819	420	Maine.
226	225	1	151	27	6,697	298	New Hampshire.
339	322	17	127	195	4,897	1,667	Vermont.
2,245	2,182	63	2,019	988	75,943	10,578	Massachusetts.
411	411	----------	378	376	12,451	3,355	Rhode Island.
968	963	5	808	241	28,334	2,335	Connecticut.
19,282	19,158	124	17,869	3,419	475,197	24,704	**Middle Atlantic.**
9,918	9,840	78	9,378	1,678	242,482	10,794	New York.
1,862	1,852	10	1,688	52	68,507	557	New Jersey.
7,502	7,466	36	6,803	1,689	164,208	13,353	Pennsylvania.
18,212	17,329	883	15,257	3,840	403,177	32,408	**East North Central.**
4,724	4,429	295	4,224	698	111,878	6,856	Ohio.
1,746	1,590	156	1,522	411	45,288	4,014	Indiana.
6,075	5,876	199	4,932	1,938	128,474	14,147	Illinois.
3,774	3,597	177	3,225	251	79,040	2,624	Michigan.
1,893	1,837	56	1,354	542	38,497	4,767	Wisconsin.
4,549	4,134	415	4,061	553	140,750	9,534	**West North Central.**
843	784	59	924	96	31,045	1,643	Minnesota.
1,429	1,375	54	685	180	26,521	2,990	Iowa.
891	839	52	1,452	120	41,978	1,547	Missouri.
60	56	4	48	5	3,799	223	North Dakota.
90	75	15	67	12	4,797	402	South Dakota.
405	340	65	301	70	12,627	1,434	Nebraska.
831	665	166	584	70	19,983	1,295	Kansas.
8,445	8,187	258	7,015	1,961	153,834	15,869	**South Atlantic.**
1,102	1,085	17	1,236	83	31,615	1,168	Delaware. Maryland. Dist. of Columbia.
974	933	41	687	15	17,120	161	Virginia.
1,903	1,902	1	970	1,163	21,481	6,818	West Virginia.
2,036	1,997	39	1,908	369	27,313	4,112	North Carolina.
1,116	1,112	4	799	165	13,032	1,510	South Carolina.
746	733	13	980	141	20,466	1,563	Georgia.
568	425	143	435	25	22,807	537	Florida.
2,777	2,706	71	2,455	1,243	59,820	9,204	**East South Central.**
505	487	18	548	171	17,686	1,887	Kentucky.
937	914	23	748	271	18,284	2,257	Tennessee.
1,270	1,264	6	1,039	797	17,790	5,013	Alabama.
65	41	24	120	4	6,060	47	Mississippi.
3,275	3,123	152	2,703	562	89,947	5,890	**West South Central.**
174	161	13	186	36	8,421	403	Arkansas.
635	598	37	447	143	14,412	1,237	Louisiana.
654	605	49	597	72	20,692	1,071	Oklahoma.
1,812	1,759	53	1,473	311	46,422	3,179	Texas.
3,390	3,329	61	2,857	121	51,159	1,586	**Mountain.**
1,399	1,399	(1)	1,197	11	10,595	112	Montana.
713	704	9	264	21	5,405	141	Idaho.
67	65	2	49	7	2,533	211	Wyoming.
500	466	34	397	17	13,942	326	Colorado.
33	32	1	26	2	1,913	38	New Mexico.
280	279	1	202	46	5,273	539	Arizona.
341	327	14	658	10	9,832	155	Utah.
57	57	(1)	64	7	1,666	64	Nevada.
10,006	8,681	1,325	7,439	1,832	155,020	17,762	**Pacific.**
2,105	1,639	466	1,620	179	25,498	1,394	Washington.
840	810	30	658	48	13,898	354	Oregon.
7,061	6,232	829	5,161	1,605	115,624	16,014	California.

Source: Bureau of the Census, Department of Commerce.

No. 401.—CENTRAL ELECTRIC STATIONS: FINANCIAL STATISTICS

[All figures in thousands of dollars. See headnote to Table 398]

	Commercial electric stations						Municipal electric stations
	1902	1907	1912	1917	1922	1927	1927
INCOME ACCOUNT							
Income, total	78,736	161,630	279,054	486,634	986,684	1,841,227	122,437
Electric service, total	77,350	156,000	264,475	462,474	936,852	1,680,218	122,437
Commercial and domestic light and power	57,195	122,885	205,974	373,280	773,111	1,424,998	100,649
Municipal lighting	16,130	19,772	27,131	31,462	40,854	66,141	11,058
Sales to other public service corporations	4,025	13,343	30,857	57,207	122,321	189,079	10,730
Value of free service	(1)	(1)	513	525	566	(1)	(1)
Interest and dividends from investments	(1)	(1)	4,869	8,807	16,527	53,959	(1)
Other sources	1,386	5,630	9,710	15,353	33,305	107,050	(1)
Expenses, total	62,835	123,860	217,660	395,127	792,496	1,318,255	(1)
Fuel	10,190	19,825	30,502	78,286	146,323	157,912	--------
Current purchased	2,007	6,081	16,913	35,733	79,637	143,711	--------
Supplies, materials, and miscellaneous	14,751	27,897	27,565	48,118	80,492	121,529	--------
Rent of offices, conduits, etc	1,272	2,884	4,214	9,881	18,626	(2)	--------
Salaries and wages	18,767	31,935	55,659	86,473	194,148	367,632	--------
Taxes	2,655	6,346	13,117	29,897	73,128	150,253	--------
Injuries, damages, insurance	1,074	2,070	3,316	5,145	10,209	(1)	--------
Interest	12,119	26,842	46,865	71,145	125,596	269,602	--------
Depreciation	(1)	(1)	17,989	26,292	59,273	107,616	--------
Sinking and reserve funds	(1)	(1)	1,520	4,157	5,064	(1)	--------

[1] Not called for on schedule.
[2] No comparable data.

Source: Bureau of the Census, Department of Commerce.

No. 402.—PROPORTION OF "ELECTRIFICATION" OF FACTORY POWER EQUIPMENT

Item	Horsepower (thousands)			
	1914	1923	1925	1927
Combined capacity of prime movers and electric motors using purchased current	22,289	33,092	35,767	38,826
Electric motors operated by prime movers owned by factories	4,938	8,821	10,255	11,220
Estimated capacity of prime movers used to actuate these motors	3,550	6,350	7,380	8,070
Electric motors using purchased current	3,884	13,364	15,865	19,132
Total last two items, "Electrified" equipment	7,434	19,714	23,245	27,202
Per cent of total power equipment	33	60	65	70
Capacity of all prime movers in factories	18,405	19,728	19,902	19,693

Source: Basic figures from Bureau of the Census.

No. 403.—RETAIL PRICES OF ELECTRICITY IN PRINCIPAL CITIES

NOTE.—Net price in cents per kilowatt hour, electricity for household use. For cities having more than one tariff for domestic consumers rates are shown for the schedule or schedules under which most residences are served. "Demand" is a term applied to an amount of current consumption bearing a given ratio to the capacity of consumers' installation as a basis for graduating rates. The method of determination varies from city to city. For example, in Buffalo the lighting demand is 25 per cent of the total installation, but not less than 250 watts. If the capacity of the total installation is 2,000 watts, the "demand" is 25 per cent of this, or 500 watts, and the first 60 hours' use amounts to 30 kilowatt hours and is subject to the first price schedule (5 cents, 1930); the next 120 hours' use (60 kilowatt hours) to the next rate (4 cents), and above 90 kilowatt hours to the excess rate (1½ cents). Measure of consumption as stated in second column refers to tariffs of 1930. For some cities primary and secondary rates applied to somewhat different amounts of current consumption in previous years. For full details see Monthly Labor Review, February, 1931

City	Measure of consumption per month	December—							
		1923	1924	1925	1926	1927	1928	1929	1930
Atlanta	Service charge							100.0	100.0
	First 50 kilowatt hours	8.1	8.1	8.1	8.1	8.1	8.1	5.0	5.0
Baltimore	First 20 hours' use of demand	8.0	8.0	8.0	8.0	7.0	7.0	6.7	6.7
Birmingham	First 100 kilowatt hours	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
Boston	First 2 kilowatt hours per 100 square feet of floor area.	9.5	9.5	8.5	8.5	8.5	8.5	8.5	7.5
Buffalo	First 60 hours' use of demand	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0
	Next 120 hours' use of demand	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
	Excess	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Chicago	First 3 kilowatt hours per room	8.0	8.0	8.0	8.0	8.0	7.0	7.0	7.0
	Next 3 kilowatt hours per room	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	Excess	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Cleveland	Co. A, first 40 kilowatt hours	5.0	5.0	5.0	5.0	5.0	5.0	6.0	5.0
	Next 200 kilowatt hours								4.0
	Co. B., service charge					30.0	30.0	30.0	30.0
	First 600 kilowatt hours	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Columbus	First 50 kilowatt hours	7.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0
Dallas	First 800 kilowatt hours	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Denver	First 15 kilowatt hours	8.0	8.0	8.0	8.0	7.0	7.0	7.0	7.0
Detroit	First 3 kilowatt hours per active room; minimum, 3 rooms.	10.8	10.8	10.8	9.0	9.0	9.0	9.0	9.0
	Next 50 kilowatt hours	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Fall River	First 25 kilowatt hours	9.0	9.0	9.0	8.5	8.5	8.0	8.0	8.0
	Next 75 kilowatt hours	8.5	8.5	8.5	7.5	7.5	5.0	5.0	5.0
Jacksonville	First 500 kilowatt hours	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Los Angeles	First 35 kilowatt hours	5.6	5.6	5.6	5.6	5.0	5.0	5.0	4.8
Louisville	First 30 kilowatt hours	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
Memphis	First 6 kilowatt hours per room	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Excess	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Newark	First 20 kilowatt hours	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
	Next 30 kilowatt hours		8.0	8.0	8.0	8.0	8.0	8.0	8.0
New Haven	All current	7.5	7.0	6.5	6.5	6.0	5.5	5.5	5.5
New Orleans	Service charge					25.0	25.0	25.0	25.0
	First 20 kilowatt hours	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
	Next 30 kilowatt hours	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
New York	Co. A, first 1,000 kilowatt hours.	7.5	7.4	7.2	7.2	7.3	7.0	7.0	7.0
	Co. B, all current	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
	Co. C, first 60 hours' use of demand.	8.5	8.3	7.8	7.8	7.3	7.0	7.0	7.0
Norfolk	First 100 kilowatt hours	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5
Omaha	First 10 kilowatt hours per room	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Co. A, first 12 kilowatt hours	8.0	8.0	8.0	8.0	8.0	8.0		
Philadelphia	Co. A, minimum charge including first 10 kilowatt hours								75.0
	Next 38 kilowatt hours	7.0	7.0	7.0	7.0	7.0	7.0	6.0	6.0
	Co. B, first 20 kilowatt hours	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
	Next 30 kilowatt hours		8.0	8.0	8.0	8.0	8.0	8.0	8.0
Pittsburgh	First 10 kilowatt hours	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Next 20 kilowatt hours	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Providence	Service charge					50.0	50.0	50.0	50.0
	All current	7.0	6.9	6.8	6.9	6.5	6.5	6.5	6.5
Richmond	First 100 kilowatt hours	9.0	9.0	9.0	9.0	8.5	8.5	8.5	8.5
Rochester	All current	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
St. Paul	First 3 kilowatt hours per room	9.9	9.9	9.9	9.5	9.5	8.6	8.6	8.6
	Next 3 kilowatt hours per room				7.1	7.1	7.1	7.1	7.1
	Excess	6.6	6.6	6.6	2.9	2.9	2.9	2.9	2.9
Salt Lake City	Service charge—consumption of 11 kilowatt hours included.							90.0	90.0
	First 250 kilowatt hours	8.1	8.1	8.1	8.1	8.1	8.1		
	Excess							7.0	7.0
San Francisco	Service charge						40.0	40.0	40.0
	First 30 kilowatt hours for 6 rooms, 5 kilowatt hours for each additional room.	9.0	9.0	9.0	9.0	9.0	5.0	5.0	4.5
	Next 140 kilowatt hours	6.0	6.0	6.0	6.0	2.5	4.0	3.5	3.5
Scranton	First 250 kilowatt hours	10.0	10.0	10.0	10.0	10.0	9.0	9.0	8.0
Seattle	First 40 kilowatt hours	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Washington, D. C.	All current	10.0	10.0	7.5	7.0	6.3	5.9	5.2	4.7

Source: Bureau of Labor Statistics, Department of Labor.

No. 404.—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. The figures for potential power are estimates showing the 24-hour horsepower available 90 per cent of the time and 50 per cent of the time at an over-all efficiency of 70 per cent at all developed and undeveloped sites. These figures 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 per cent 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	January, 1926	January, 1927	January, 1928	January, 1929	January, 1930	January, 1931	90 per cent of the time	50 per cent of the time
Continental U. S.	**7,927**	**11,177**	**11,721**	**12,296**	**13,572**	**13,808**	**14,885**	**38,110**	**9,166**
New England	**1,311**	**1,485**	**1,535**	**1,556**	**1,654**	**1,643**	**1,693**	**998**	**1,978**
Maine	450	497	526	537	539	541	579	536	1,074
New Hampshire	229	272	277	278	278	278	553	186	350
Vermont	130	193	200	200	260	260	202	80	169
Massachusetts	338	344	354	362	362	362	362	106	235
Rhode Island	30	30	30	30	30	30	30	25	40
Connecticut	134	148	148	148	184	172	171	65	110
Middle Atlantic	**1,479**	**1,995**	**2,056**	**2,078**	**2,123**	**2,113**	**2,212**	**4,373**	**6,050**
New York	1,292	1,750	1,757	1,779	1,814	1,805	1,904	4,010	4,960
New Jersey	17	19	19	19	19	18	18	50	90
Pennsylvania	170	226	280	280	291	291	291	313	1,000
East North Central	**739**	**979**	**1,010**	**1,037**	**1,076**	**1,075**	**1,092**	**742**	**1,426**
Ohio	29	29	30	30	30	30	25	55	166
Indiana	27	56	56	57	57	55	54	45	145
Illinois	85	94	94	94	94	95	96	189	361
Michigan	267	352	355	378	378	379	399	168	274
Wisconsin	331	446	474	477	517	517	519	285	480
West North Central	***444***	***525***	***533***	***542***	***555***	***551***	***567***	***929***	**1,937**
Minnesota	205	267	275	276	293	287	286	203	401
Iowa	173	179	180	184	182	181	182	169	395
Missouri	18	21	21	21	21	23	37	67	152
North Dakota	(1)	(1)	(1)	(1)	(1)	(1)	(1)	82	193
South Dakota	18	20	20	20	20	19	20	121	203
Nebraska	15	21	21	24	24	24	25	183	342
Kansas	15	17	17	17	16	16	16	104	251
South Atlantic	**1,082**	**1,702**	**1,841**	**1,967**	**2,595**	**2,657**	**2,918**	**2,924**	**5,048**
Delaware	3	1	1	1	1	1	1	5	10
Maryland	7	38	38	38	416	416	416	106	238
Dist. of Columbia	1	1	1	6	6	6	6		
Virginia	104	139	138	141	140	126	135	459	812
West Virginia	15	21	91	91	91	89	87	355	980
North Carolina	330	538	543	644	814	947	954	852	1,100
South Carolina	330	514	571	574	574	574	816	555	860
Georgia	286	441	449	463	544	473	482	572	958
Florida	7	9	9	8	9	25	22	20	30
East South Central	**241**	**745**	**868**	**966**	**1,119**	**1,169**	**1,364**	**1,328**	**2,272**
Kentucky	1	34	34	142	142	145	145	172	230
Tennessee	127	174	174	177	177	179	288	654	882
Alabama	113	537	659	646	799	845	931	472	1,050
Mississippi								30	60
West South Central	**16**	**32**	**32**	**44**	**47**	**49**	**49**	**559**	**1,110**
Arkansas	1	16	16	16	16	16	16	200	300
Louisiana								1	2
Oklahoma	2	2	2	2	2	3	3	70	194
Texas	13	14	15	27	29	31	31	288	614
Mountain	**827**	**981**	**1,030**	**1,118**	**1,140**	**1,185**	**1,217**	**10,844**	**15,552**
Montana	344	376	376	378	393	419	429	2,550	3,700
Idaho	224	319	320	355	358	358	357	2,122	4,032
Wyoming	8	10	10	17	17	19	25	704	1,182
Colorado	92	95	96	95	98	98	98	873	1,609
New Mexico	1	2	2	2	2	2	2	116	186
Arizona	39	49	59	104	104	120	137	2,759	2,387
Utah	106	115	153	153	154	156	157	1,420	1,586
Nevada	13	14	13	13	14	14	14	300	370
Pacific	**1,789**	**2,733**	**2,815**	**2,988**	**3,263**	**3,365**	**3,568**	**15,413**	**23,793**
Washington	454	656	657	707	747	766	892	7,145	11,225
Oregon	185	242	242	289	289	299	354	3,665	5,894
California	1,149	1,835	1,917	1,993	2,227	2,301	2,321	4,603	6,674
Outlying areas:									
Alaska		[2] 40	[2] 40	[2] 40	32	36	36	1,000	2,500
Hawaii		32	32	32	[3] 32	[3] 32	[3] 32	19	28
Porto Rico		[2] 15	[2] 15	[2] 15	[2] 15	[2] 15	30	100	200

[1] Less than 500.
[2] Capacity in 1925.
[3] Capacity in 1928.

Source: Geological Survey, Department of the Interior.

19.—PUBLIC ROADS AND MOTOR VEHICLES

No. 405.—RURAL ROADS IN THE UNITED STATES

NOTE.—Mileage data included for county and township roads in 1921 and 1927 to 1929 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. Mileage data in most cases refer to calendar years; there are, however, exceptions in several States. Data relate to continental United States only, except as noted

Item	1921	1923	1925	1927	1928	1929
Mileage at end of year:						
All types	2,941,294	2,995,727	3,006,082	3,013,584	3,016,281	3,024,233
Earth roads	2,553,534	2,556,386	2,484,822	2,424,862	2,390,144	2,361,798
Surfaced roads	387,760	439,341	521,260	588,721	626,137	662,435
Sand-clay, gravel, etc	263,238	290,143	360,518	433,533	458,982	481,290
Macadam	87,609	100,805	106,432	90,273	94,749	99,426
Sheet asphalt and concrete	22,190	33,983	48,507	59,885	67,399	76,654
Block pavements	[1] 14,723	[1] 14,409	5,803	5,030	5,007	5,065
Mileage built during year:						
All types	110,976	76,238	73,776	86,454	74,783	78,003
Earth roads	69,804	39,895	31,873	33,031	24,318	23,128
Surfaced roads	41,172	36,343	41,903	53,424	50,465	54,875
Sand-clay, gravel, etc	29,019	22,641	28,784	38,556	34,562	37,240
Macadam	5,413	6,665	6,060	7,484	7,617	8,545
Sheet asphalt and concrete	6,037	6,626	6,798	7,246	8,148	8,968
Block pavements	[2] 703	[2] 410	252	138	138	122
Mileage of State highway systems at end of year: [3]						
All types		251,611	274,911	293,353	306,442	314,136
Earth roads		140,211	130,057	116,786	113,304	105,812
Surfaced roads		111,400	144,854	176,566	193,138	208,324
Sand-clay, gravel, etc		58,909	79,796	98,675	106,623	113,280
Macadam		27,151	28,814	31,248	33,342	33,974
Sheet asphalt and concrete		22,475	33,059	43,313	49,847	57,804
Block pavements		2,865	3,185	3,330	3,326	3,266
Mileage of State highway systems built during year: [3]						
All types		20,311	23,152	26,722	29,252	32,522
Earth roads		5,814	5,316	7,151	8,675	7,451
Surfaced roads		14,496	17,836	19,572	20,577	25,071
Sand-clay, gravel, etc		7,852	10,005	11,132	10,823	14,582
Macadam		2,007	2,144	2,812	2,985	2,842
Sheet asphalt and concrete		4,389	5,540	5,559	6,653	7,547
Block pavements		[4] 248	146	69	116	100
Funds available for rural road purposes during year, all authorities (1,000 dollars):						
Total	1,149,438	1,199,432	1,560,994	1,941,221	2,043,711	2,148,305
Proceeds of bonds	438,109	216,969	285,815	272,060	271,706	271,864
Federal aid [5]	79,333	72,343	92,180	80,460	80,798	77,573
Motor vehicle fees and gasoline taxes	122,626	202,804	360,553	516,774	597,511	687,730
Other taxes and appropriations	415,680	416,038	467,705	527,477	553,186	560,908
All other sources	93,689	291,278	354,741	544,451	540,510	550,229
Expenditures for rural roads and bridges (1,000 dollars):						
All roads, by all authorities	1,036,588	996,781	1,288,940	1,448,121	1,659,692	1,718,200
Construction	626,965	518,293	651,933	689,219	818,609	813,982
Maintenance	248,593	265,898	315,877	376,754	418,632	433,538
Principal and interest of bonds	89,281	45,914	176,415	244,886	247,742	272,529
Equipment and miscellaneous	71,748	166,677	144,715	137,263	174,709	198,151
By or under supervision of State highway departments, incl. Federal aid	413,242	447,362	649,125	699,875	827,550	910,485
Highway construction under Federal aid: [6]						
Completed mileage end of year		27,212	52,016	64,620	76,075	82,330
Projects under construction—						
Miles		18,648	10,978	13,433	9,216	8,735
Total cost (1,000 dollars)		356,550	264,113	353,497	230,649	217,013
Federal aid (1,000 dollars)		164,389	111,284	145,627	91,343	89,219
Projects approved for construction—						
Miles	1,839	2,109	1,794	1,413	1,598	1,400
Total cost (1,000 dollars)	48,609	42,360	44,638	34,751	32,434	29,340
Federal aid (1,000 dollars)	19,262	16,618	15,356	12,896	12,819	9,942
Federal-aid fund available for new projects (1,000 dollars)		70,636	119,771	110,803	101,372	99,881

[1] Includes miscellaneous roads, as follows: 1921, 11,303 miles; 1923, 9,975 miles.
[2] Includes miscellaneous roads, as follows: 1921, 368 miles; 1923, 46 miles.
[3] Data for total United States not compiled in 1921.
[4] Includes 16 miles miscellaneous roads.
[5] For road and bridge purposes under supervision of State highway department only.
[6] Includes data for Hawaii, as follows: Completed mileage, beginning 1927; projects under construction (all items), beginning 1925; projects approved for construction (all items), 1929; Federal-aid fund for new projects, beginning 1925.

Source: Bureau of Public Roads, Department of Agriculture.

No. 406.—RURAL ROAD MILEAGE AS OF DECEMBER 31

NOTE.—Lack of accurate information in the earlier years accounts for the fact that in some of the States the total road mileage reported is considerably greater than in the preceding year shown, while mileage of surfaced roads is less. Figures include county and township roads and also State highway systems

Division and State	All types					Surfaced roads				
	1914	1921	1927	1928	1929	1914	1921	1927	1928	1929
Continental U. S.	2,445,761	2,941,294	3,013,584	3,016,281	3,024,233	257,292	387,760	588,721	626,137	662,435
New England	86,718	83,295	83,936	83,646	83,668	18,038	17,725	24,631	25,919	27,465
Maine	23,537	21,483	21,002	21,002	21,002	2,762	2,953	4,832	5,293	5,777
New Hampshire	14,020	13,841	12,025	12,028	12,035	1,660	1,692	2,391	2,546	2,784
Vermont	14,249	14,677	15,036	15,041	15,042	1,442	3,545	4,691	4,857	4,983
Massachusetts	18,681	18,868	19,348	18,941	18,762	8,506	6,575	8,485	8,783	9,324
Rhode Island	2,170	2,274	2,538	2,599	2,682	693	754	853	990	1,025
Connecticut	14,061	12,152	13,987	14,035	14,145	2,975	2,206	3,379	3,450	3,572
Middle Atlantic	185,771	186,935	187,407	187,825	193,666	31,516	38,946	62,071	64,748	67,935
New York	79,398	81,878	79,489	80,107	[1] 85,783	15,636	18,566	29,481	31,113	[1] 32,713
New Jersey	14,817	14,066	16,677	17,022	17,207	5,897	6,459	8,057	8,734	9,077
Pennsylvania	91,556	90,991	91,241	90,696	90,676	9,983	13,921	24,533	24,901	26,145
East North Central	405,245	412,753	416,526	418,531	417,931	94,365	124,298	160,664	168,210	174,150
Ohio	86,354	84,219	84,753	84,999	84,553	30,569	36,008	43,977	46,245	48,503
Indiana	73,347	76,246	73,609	73,609	73,661	30,962	39,857	50,284	50,995	51,314
Illinois	95,647	96,326	97,620	97,619	97,287	11,606	11,473	18,118	20,032	21,375
Michigan	74,190	77,283	81,016	81,015	81,015	7,829	17,186	22,493	24,167	25,143
Wisconsin	75,707	78,679	79,528	81,289	81,415	13,399	19,714	25,792	26,771	27,815
West North Central	650,058	759,820	774,637	778,016	777,753	14,968	30,223	69,989	78,762	87,384
Minnesota	93,517	107,103	110,249	110,447	110,553	3,968	16,905	32,399	34,223	35,501
Iowa	104,074	104,082	103,634	103,707	103,328	615	2,585	11,811	15,191	18,021
Missouri	96,041	111,520	110,547	110,592	110,592	6,713	7,879	11,739	12,319	13,074
North Dakota	68,796	106,523	106,794	106,839	106,850	955	710	2,366	2,953	3,592
South Dakota	96,306	115,485	120,265	120,274	120,275	363	548	4,087	4,840	6,147
Nebraska	80,272	86,556	93,902	93,912	93,911	1,205	496	3,979	4,651	5,364
Kansas	111,052	128,551	129,246	132,245	132,244	1,149	1,100	3,608	4,585	5,685
South Atlantic	297,193	365,567	366,545	370,928	373,819	32,154	61,178	89,541	95,384	100,840
Delaware	3,674	3,933	3,796	3,797	3,777	244	448	927	1,094	1,180
Maryland	16,459	14,772	14,711	14,735	14,733	2,489	3,663	5,307	5,493	5,704
Virginia	53,388	59,080	57,535	59,698	59,698	3,910	7,260	11,192	11,897	12,327
West Virginia	32,024	35,173	34,799	34,799	34,799	1,065	1,367	3,713	3,917	4,450
North Carolina	50,758	68,204	71,530	71,529	71,529	6,004	16,755	27,811	28,345	29,649
South Carolina	42,226	61,850	56,129	57,093	57,678	3,270	6,908	13,841	16,648	17,576
Georgia	80,669	94,912	98,462	99,537	[1] 101,422	12,342	18,339	13,015	13,972	[1] 14,831
Florida	17,995	27,643	29,583	29,740	30,183	2,830	6,438	13,735	14,018	15,123
East South Central	205,191	242,745	246,232	250,590	258,796	27,626	41,478	58,931	61,187	66,695
Kentucky	57,916	68,704	61,261	61,261	61,261	12,403	15,436	15,619	16,130	17,030
Tennessee	46,050	62,546	64,490	65,063	[1] 67,635	8,102	9,878	12,521	13,538	[1] 15,184
Alabama	55,446	58,410	63,706	66,594	[1] 67,943	4,988	10,420	18,204	17,370	[1] 18,369
Mississippi	45,779	53,085	56,775	57,672	[1] 61,957	2,133	5,744	12,587	14,149	[1] 16,112
West South Central	312,182	416,617	419,856	419,441	412,689	13,815	23,986	42,187	46,436	49,896
Arkansas	50,743	74,866	74,545	74,757	[1] 68,506	1,098	3,871	6,269	6,779	[1] 7,958
Louisiana	24,563	39,803	33,120	35,493	35,553	2,068	2,771	9,501	10,731	11,152
Oklahoma	107,916	[2] 134,263	123,627	120,627	120,760	122	2,461	3,300	3,711	4,774
Texas	128,960	167,685	188,564	188,564	187,870	10,527	14,883	23,117	25,215	26,012
Mountain	163,117	306,382	334,795	332,172	333,379	4,881	15,539	28,574	32,010	33,848
Montana	39,204	64,732	66,881	66,931	67,072	609	1,772	2,799	3,178	3,437
Idaho	24,396	31,099	37,349	39,093	39,137	679	2,982	7,940	8,487	8,884
Wyoming	14,797	46,528	45,328	41,183	41,158	468	440	1,361	1,604	1,760
Colorado	39,780	48,143	68,279	68,305	68,974	1,194	4,598	6,383	6,952	7,157
New Mexico	11,873	45,549	48,217	48,332	[1] 47,785	262	1,802	2,144	2,361	[1] 2,539
Arizona	12,075	21,227	21,666	21,849	22,284	258	1,233	3,150	3,421	3,597
Utah	8,810	23,047	23,416	23,437	23,429	1,154	2,544	3,001	3,996	4,237
Nevada	12,182	26,057	23,659	23,042	23,540	262	168	1,796	2,011	2,237
Pacific	140,286	167,180	183,649	175,132	172,532	19,928	34,387	52,135	53,481	54,222
Washington	42,428	45,816	46,835	43,895	43,922	4,922	12,062	16,655	16,406	16,718
Oregon	36,819	45,475	51,658	51,633	51,646	4,726	8,050	11,815	11,995	12,123
California	61,039	75,889	85,156	79,604	[1] 76,964	10,280	14,275	23,665	25,080	[1] 25,381

[1] Variation from the preceding year partly because of more accurate survey of local road mileage.
[2] 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. 407.—RURAL ROAD MILEAGE AS OF DECEMBER 31, 1929, AND CONSTRUCTION OF ROADS DURING 1927, 1928, AND 1929

[NOTE.—Figures include county and township roads and also State highway systems

Division and State	Existing mileage, end of year 1929							Mileage graded and drained and mileage surfaced during—		
	Total, all types	Earth roads	Surfaced roads							
			Total	Sand-clay, gravel, etc.	Macadam	Sheet asphalt and concrete	Block pavements	1927 [1]	1928 [1]	1929 [1]
Continental U.S.	3,024,233	2,361,798	662,435	481,290	99,426	76,654	5,065	86,454	74,783	78,003
New England	83,668	56,203	27,465	19,156	5,897	2,335	27	1,554	2,006	2,075
Maine	21,002	15,225	5,777	5,389	277	110	1	449	498	524
New Hampshire	12,035	9,251	2,784	2,289	319	176	-------	179	223	315
Vermont	15,042	10,059	4,983	4,651	118	214	-------	306	219	202
Massachusetts	18,762	9,438	9,324	5,258	3,076	970	20	387	684	658
Rhode Island	2,682	1,657	1,025	277	509	236	3	88	181	201
Connecticut	14,145	10,573	3,572	1,292	1,598	679	3	145	201	175
Middle Atlantic	193,666	125,731	67,935	25,349	25,883	15,547	1,156	4,339	3,814	4,987
New York	[2] 85,783	53,070	32,713	8,790	17,571	6,094	258	2,166	2,033	2,486
New Jersey	17,207	8,130	9,077	4,003	2,000	2,971	103	534	940	1,003
Pennsylvania	90,676	64,531	26,145	12,556	6,312	6,482	795	1,639	841	1,498
East North Central	417,931	243,781	174,150	129,343	20,087	22,527	2,193	17,795	13,999	14,908
Ohio	84,553	36,050	48,503	31,278	12,516	3,014	1,695	4,175	3,226	3,674
Indiana	73,661	22,347	51,314	44,409	3,099	3,512	234	1,351	1,524	1,336
Illinois	97,287	75,912	21,375	12,394	534	8,204	243	1,367	2,120	1,610
Michigan	81,015	55,872	25,143	18,326	2,252	4,546	19	1,494	2,050	1,911
Wisconsin	81,415	53,600	27,815	22,876	1,686	3,251	2	9,408	5,079	6,377
West North Central	777,753	690,369	87,384	78,082	1,909	7,107	286	23,711	20,577	22,037
Minnesota	110,553	75,052	35,501	34,107	96	1,280	18	5,803	5,030	5,592
Iowa	103,328	85,307	18,021	15,519	--------	2,469	33	3,699	4,493	3,928
Missouri	110,592	97,518	13,074	9,184	1,548	2,321	21	1,080	1,379	2,003
North Dakota	106,850	103,258	3,592	3,581	--------	11	-------	1,152	1,366	1,202
South Dakota	120,275	114,128	6,147	6,118	7	22	-------	6,113	2,943	3,052
Nebraska	93,911	88,547	5,364	5,065	7	239	53	3,416	2,437	2,172
Kansas	132,244	126,559	5,685	4,508	251	765	161	2,448	2,929	4,088
South Atlantic	373,819	272,979	100,840	70,731	17,591	11,433	1,085	11,998	10,086	7,993
Delaware	3,777	2,597	1,180	194	301	678	7	52	264	161
Maryland	14,733	9,029	5,704	2,205	2,125	1,372	2	366	347	399
Virginia	59,698	47,371	12,327	7,681	3,734	912	-------	950	649	662
West Virginia	34,799	30,349	4,450	1,219	1,953	1,079	199	1,168	1,271	1,151
North Carolina	71,529	41,880	29,649	24,630	1,314	3,635	70	2,629	1,531	1,622
South Carolina	57,678	40,102	17,576	16,118	68	1,387	3	1,318	2,475	1,831
Georgia	[2] 101,422	86,591	14,831	12,990	832	1,006	3	2,549	966	[3] 952
Florida	30,183	15,060	15,123	5,694	7,264	1,364	801	2,966	2,583	1,215
East South Central	258,796	192,101	66,695	47,940	16,169	2,529	57	6,409	5,782	7,567
Kentucky	61,261	44,231	17,030	6,380	10,267	357	26	1,708	1,637	1,473
Tennessee	[2] 67,635	52,451	15,184	9,007	5,273	904	-------	2,143	1,259	1,963
Alabama	[2] 67,943	49,574	18,369	17,179	492	692	6	1,159	1,097	2,017
Mississippi	[2] 61,957	45,845	16,112	15,374	137	576	25	1,404	1,789	2,114
West South Central	412,689	362,793	49,896	42,652	2,454	4,684	106	6,320	7,640	6,930
Arkansas	[2] 68,506	60,548	7,958	6,880	357	721	-------	1,155	1,843	2,449
Louisiana	35,553	24,401	11,152	10,893	39	205	15	1,914	763	600
Oklahoma	120,760	115,986	4,774	3,334	13	1,391	36	1,233	1,298	1,058
Texas	187,870	161,858	26,012	21,545	2,045	2,367	55	2,018	3,736	2,823
Mountain	333,379	299,531	33,848	31,753	364	1,731	-------	4,799	6,813	6,577
Montana	67,072	63,635	3,437	3,386	10	41	-------	281	622	664
Idaho	39,137	30,253	8,884	8,568	67	249	-------	1,598	1,721	1,252
Wyoming	41,158	39,398	1,760	1,725	--------	35	-------	464	650	549
Colorado	68,974	61,817	7,157	6,799	--------	358	-------	765	602	1,404
New Mexico	[2] 47,785	45,246	2,539	2,455	--------	84	-------	864	1,066	1,287
Arizona	22,284	18,687	3,597	3,002	49	546	-------	236	612	437
Utah	23,429	19,192	4,237	3,667	207	363	-------	372	1,052	462
Nevada	23,540	21,303	2,237	2,151	31	55	-------	219	488	522
Pacific	172,532	118,310	54,222	36,284	9,072	8,711	155	9,531	4,066	4,929
Washington	43,922	27,204	16,718	13,141	1,780	1,642	155	3,367	439	407
Oregon	51,646	39,523	12,123	9,433	1,273	1,417	-------	475	533	689
California	[2] 76,964	51,583	25,381	13,710	6,019	5,652	-------	5,689	3,094	3,833

[1] Surfaced mileage includes both new surfacing and reconstructed surfacing.
[2] Variation from total mileage reported in 1928 owing largely to more accurate survey of local road mileage.
[3] Data included for State highway systems cover 6 months only, Jan. 1 to June 30, as fiscal year was changed to end June 30.

Source: Bureau of Public Roads, Department of Agriculture.

No. 408.—ROAD MILEAGE IN STATE HIGHWAY SYSTEMS AS OF DECEMBER 31, 1929

NOTE.—These statistics relate only to highways maintained wholly or in part by State governments, not including those maintained only by county or local governments

Division and State	Total, all types	Earth roads	Surfaced roads				
			Total	Sand, clay, gravel, etc.	Macadam	Sheet asphalt and concrete	Block pavements
Continental United States	314,136	105,812	208,324	113,280	33,974	57,804	3,266
New England	13,421	1,639	11,782	6,866	3,127	1,785	4
Maine	2,041	208	1,833	1,479	248	106	----------
New Hampshire	2,463	174	2,289	1,832	284	173	----------
Vermont	4,217	732	3,485	3,157	117	211	----------
Massachusetts [1]	1,625	----------	1,625	66	1,063	493	3
Rhode Island	952	419	533	23	289	221	----------
Connecticut [2]	2,123	106	2,017	309	1,126	581	1
Middle Atlantic	29,090	6,577	22,513	907	9,284	11,645	677
New York	13,959	3,051	10,908	121	5,565	4,964	258
New Jersey	1,821	62	1,759	260	147	1,301	51
Pennsylvania	13,310	3,464	9,846	526	3,572	5,380	368
East North Central	43,904	5,171	38,733	14,240	6,004	16,824	1,665
Ohio [3]	11,066	215	10,851	4,032	3,197	2,179	1,443
Indiana	5,003	41	4,962	1,534	1,356	1,989	83
Illinois	9,889	2,988	6,901	----------	4	6,772	125
Michigan	7,725	586	7,139	3,488	652	2,987	12
Wisconsin	10,221	1,341	8,880	5,186	795	2,897	2
West North Central	52,428	20,961	31,467	24,240	295	6,650	282
Minnesota [1]	6,955	232	6,723	5,575	----------	1,130	18
Iowa	7,206	1,384	5,822	3,337	----------	2,452	33
Missouri	7,827	3,000	4,827	2,529	143	2,134	21
North Dakota	7,396	4,573	2,823	2,812	----------	11	----------
South Dakota	5,983	2,365	3,618	3,589	7	22	----------
Nebraska	8,371	4,181	4,190	3,940	----------	199	51
Kansas	8,690	5,226	3,464	2,458	145	702	159
South Atlantic	41,674	10,710	30,964	13,819	7,366	9,304	475
Delaware	756	----------	756	43	53	654	6
Maryland [4]	2,831	----------	2,831	433	1,147	1,249	2
Virginia	6,932	1,949	4,983	2,197	2,026	760	----------
West Virginia	4,055	1,321	2,734	845	985	771	133
North Carolina	8,309	976	7,333	3,329	717	3,242	45
South Carolina	5,981	1,090	4,891	3,592	54	1,245	----------
Georgia [2]	6,290	2,436	3,854	2,579	504	770	1
Florida	6,520	2,938	3,582	801	1,880	613	288
East South Central	33,828	14,892	18,936	11,650	5,101	2,140	45
Kentucky	11,500	5,972	5,528	2,072	3,103	327	25
Tennessee [2]	6,751	1,745	5,006	2,355	1,791	860	----------
Alabama [4]	5,539	2,247	3,292	2,597	145	550	----------
Mississippi	10,038	4,928	5,110	4,626	62	403	19
West South Central	41,889	15,452	26,437	20,131	1,865	4,335	106
Arkansas	8,467	2,452	6,015	4,996	304	715	----------
Louisiana	9,113	2,515	6,598	6,363	23	197	15
Oklahoma	6,275	3,347	2,928	1,611	----------	1,281	36
Texas [5]	18,034	7,138	10,896	7,161	1,538	2,142	55
Mountain	43,656	26,807	16,849	15,312	282	1,255	----------
Montana	8,148	6,635	1,513	1,466	6	41	----------
Idaho	4,245	1,761	2,484	2,260	22	202	----------
Wyoming	3,052	1,628	1,424	1,389	----------	35	----------
Colorado	9,203	5,011	4,192	3,840	----------	352	----------
New Mexico	9,343	7,147	2,196	2,112	----------	84	----------
Arizona	2,476	791	1,685	1,458	24	203	----------
Utah	3,448	1,653	1,795	1,305	205	285	----------
Nevada	3,741	2,181	1,560	1,482	25	53	----------
Pacific	14,246	3,603	10,643	6,115	650	3,863	12
Washington	3,289	444	2,845	2,041	32	760	12
Oregon	4,381	838	3,543	2,480	164	899	----------
California	6,576	2,321	4,255	1,594	454	2,207	----------

[1] Mileage as of Nov. 30, 1929.
[2] Mileage as of June 30, 1929.
[3] Data partly estimated and subject to revision.
[4] Mileage as of Sept. 30, 1929.
[5] Data revised.

Source: Bureau of Public Roads, Department of Agriculture.

No. 409—CONSTRUCTION OF ROADS IN STATE HIGHWAY SYSTEMS DURING 1928 AND 1929

NOTE.—Highways under control of State highway departments only. Data in most cases refer to calendar years

Division and State	Mileage built during 1929								Mileage built during 1928	
	Total, all types	Earth, improved, graded, and drained	Surfaced roads						Total, all types	Surfaced roads
			Total	New	Reconstructed	Sand-clay and gravel	Macadam	Paved		
Continental U. S.	32, 522	7, 451	25, 071	14, 014	11, 057	14, 582	2, 842	7, 647	29, 252	20, 577
New England	824	6	881	440	378	320	288	210	821	819
Maine	107	--------	107	66	41	86	11	10	108	108
New Hampshire	198	3	195	124	71	126	14	55	148	146
Vermont	167	--------	167	101	66	107	--------	60	183	183
Massachusetts	159	--------	159	21	138	--------	123	36	149	149
Rhode Island	35	--------	35	21	14	--------	24	11	49	49
Connecticut	158	3	155	107	48	1	116	38	184	184
Middle Atlantic	1, 638	69	1, 569	755	814	137	155	1, 277	867	825
New York	862	21	841	331	510	19	147	675	743	705
New Jersey	169	9	160	78	82	9	8	143	94	90
Pennsylvania	607	39	568	346	222	109	--------	459	[1] 30	[1] 30
East North Central	5, 106	471	4, 635	1, 432	3, 203	2, 262	442	1, 931	4, 524	3, 816
Ohio	435	70	365	241	124	46	87	232	928	855
Indiana	508	16	492	141	351	76	93	323	659	414
Illinois	799	175	624	619	5	--------	--------	624	1, 344	1, 070
Michigan	678	48	630	193	437	106	112	412	763	678
Wisconsin	2, 686	162	2, 524	238	2, 286	2, 034	150	340	830	799
West North Central	9, 200	2, 148	7, 052	4, 009	3, 043	5, 441	76	1, 535	7, 643	4, 825
Minnesota	2, 265	357	1, 908	482	1, 426	1, 797	--------	111	1, 243	1, 039
Iowa	1, 232	182	1, 050	643	407	311	--------	739	1, 345	1, 038
Missouri	1, 083	270	813	609	204	314	48	451	571	355
North Dakota	1, 069	398	671	568	103	670	--------	1	1, 230	671
South Dakota	459	186	273	231	42	259	2	12	812	532
Nebraska	569	125	444	313	131	356	--------	88	657	444
Kansas	2, 523	630	1, 893	1, 163	730	1, 734	26	133	1, 785	746
South Atlantic	3, 325	478	2, 847	1, 927	920	1, 042	713	1, 092	3, 183	2, 409
Delaware	53	--------	53	53	--------	19	--------	34	61	61
Maryland	189	--------	189	162	27	32	21	136	149	149
Virginia	314	31	283	283	--------	77	113	93	217	154
West Virginia	493	55	438	287	151	148	205	85	368	204
North Carolina	602	70	532	253	279	360	44	128	453	453
South Carolina	920	118	802	412	390	305	5	492	656	583
Georgia [2]	213	80	133	83	50	13	64	56	709	557
Florida	541	124	417	394	23	88	261	68	570	248
East South Central	3, 159	889	2, 270	1, 538	732	949	827	494	2, 563	1, 731
Kentucky	869	212	657	454	203	173	477	7	1, 021	587
Tennessee	862	257	605	353	252	29	296	280	516	320
Alabama	1, 256	392	864	617	247	623	54	187	660	581
Mississippi	172	28	144	114	30	124	--------	20	366	243
West South Central	4, 618	1, 745	2, 873	2, 542	331	1, 915	78	880	4, 915	2, 891
Arkansas	2, 119	620	1, 499	1, 284	215	1, 374	--------	125	1, 673	739
Louisiana	448	68	380	351	29	350	7	23	288	242
Oklahoma	503	235	268	225	43	51	--------	217	598	202
Texas	1, 548	822	726	682	44	140	71	515	2, 356	1, 708
Mountain	3, 118	1, 412	1, 706	981	725	1, 549	130	27	3, 466	2, 218
Montana	414	153	261	162	99	261	--------	--------	322	284
Idaho	272	29	243	66	177	243	--------	--------	701	611
Wyoming	283	109	174	139	35	174	--------	--------	586	308
Colorado	167	35	132	95	37	122	--------	10	146	138
New Mexico	1, 287	924	363	186	177	353	--------	10	1, 052	264
Arizona	186	132	54	38	16	54	--------	--------	135	125
Utah	359	30	329	166	163	192	130	7	305	277
Nevada	150	--------	150	129	21	150	--------	--------	219	211
Pacific	1, 534	233	1, 301	390	911	967	133	201	1, 270	1, 043
Washington	257	96	161	108	53	108	--------	53	239	137
Oregon	489	55	434	53	381	374	52	8	333	263
California	788	82	706	229	477	485	81	140	698	643

[1] Data cover 4½ months ended May 15, 1928. [2] Data for 1929 cover 6 months ended June 30.

Source: Bureau of Public Roads, Department of Agriculture.

No. 410.—EXPENDITURES FOR RURAL HIGHWAYS BY OR UNDER SUPERVISION OF STATE HIGHWAY DEPARTMENTS, INCLUDING FEDERAL AID

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

Division and State	Year in which first State aid law passed	1914	1919	1921	1923	1925	1926	1927	1928	1929
		Thousands of dollars								
Continental U. S.	--------	**24,221**	**106,861**	**413,242**	**447,362**	**649,125**	**621,744**	**699,875**	**827,550**	**910,485**
New England	--------	**2,967**	**11,046**	**26,758**	**31,503**	**39,289**	**45,178**	**51,735**	**59,811**	**73,425**
Maine	1901	467	1,739	7,372	6,149	7,105	10,279	8,684	[1] 11,052	14,006
New Hampshire	1903	492	1,361	2,360	2,993	4,027	3,017	3,565	5,553	[2] 7,713
Vermont	1898	458	901	951	2,880	3,618	3,713	4,080	5,762	12,516
Massachusetts	1892	243	3,620	7,864	10,514	12,881	13,794	18,380	16,478	20,180
Rhode Island	1902	--------	1,132	2,213	2,052	3,046	3,871	4,242	4,548	5,412
Connecticut	1895	1,307	2,293	5,998	6,915	8,612	10,504	12,784	16,419	13,593
Middle Atlantic	--------	**11,827**	**36,754**	**101,477**	**73,316**	**135,603**	**117,072**	**136,625**	**151,598**	**171,495**
New York	1898	8,544	13,714	36,857	38,128	49,369	41,781	58,798	62,503	69,664
New Jersey	1891	1,307	6,320	15,608	12,032	23,939	24,378	27,763	32,479	41,397
Pennsylvania	1903	1,977	16,719	49,012	23,156	62,294	50,913	50,064	56,616	60,434
East North Central	--------	**4,383**	**16,717**	**68,512**	**76,834**	**118,903**	**104,321**	**106,712**	**160,563**	**160,363**
Ohio	1904	1,855	4,604	15,547	12,876	24,086	29,496	18,214	33,953	30,281
Indiana	1917	--------	401	8,110	9,276	14,518	12,429	14,798	16,544	20,678
Illinois	1905	388	4,404	15,693	30,994	36,376	24,267	30,270	53,472	39,728
Michigan	1905	657	4,246	16,744	15,586	36,139	25,998	25,883	36,578	48,666
Wisconsin	1911	1,482	3,063	12,417	8,102	7,785	12,131	17,547	20,017	21,010
West North Central	--------	**1,670**	**5,636**	**47,144**	**64,700**	**84,876**	**88,723**	**101,852**	**104,993**	**123,547**
Minnesota	1905	1,310	2,691	7,480	10,853	17,963	17,979	17,837	18,412	23,366
Iowa	1904	74	614	18,276	17,980	14,108	15,272	24,077	37,255	36,084
Missouri	1907	277	684	4,727	19,589	31,594	30,841	25,996	18,981	28,321
North Dakota	1909	--------	233	1,030	1,082	1,862	1,978	4,567	3,564	4,129
South Dakota	1911	--------	319	4,738	2,466	6,378	5,843	4,862	5,893	6,168
Nebraska	1911	--------	1,098	4,836	5,775	5,564	7,639	8,004	6,984	8,467
Kansas	1911	9	48	6,058	6,955	7,407	9,171	16,509	13,904	17,012
South Atlantic	--------	**916**	**7,217**	**51,181**	**79,792**	**103,836**	**113,651**	**133,328**	**121,189**	**113,712**
Delaware	1903	31	1,147	3,765	3,748	3,493	3,469	3,480	3,377	5,208
Maryland	1898	357	2,237	7,616	7,762	12,025	10,598	[3] 10,598	10,668	13,617
Virginia	1906	524	2,262	7,114	9,849	14,072	12,014	14,714	14,448	14,214
West Virginia	1909	--------	480	1,877	15,665	16,139	17,492	19,311	16,224	19,[illegible]84
North Carolina	1901	5	1,010	15,100	28,148	32,589	37,216	33,144	28,301	24,902
South Carolina	1917	--------	80	3,941	4,522	9,133	9,640	13,410	21,099	18,581
Georgia	1908	--------	--------	9,664	5,475	7,902	9,565	15,114	12,728	7,039
Florida	1915	--------	(4)	2,103	4,623	8,484	13,657	23,557	14,343	10,967
East South Central	--------	**188**	**1,826**	**16,621**	**19,588**	**45,008**	**38,845**	**44,734**	**60,329**	**68,942**
Kentucky	1912	18	926	5,757	6,437	14,916	9,820	11,484	[5] 14,766	15,130
Tennessee	1915	--------	794	6,328	4,158	14,379	14,037	16,003	19,172	29,741
Alabama	1911	170	65	1,036	5,117	10,917	10,290	10,766	20,110	19,317
Mississippi	1915	--------	40	3,500	2,876	4,795	4,698	6,481	6,281	4,754
West South Central	--------	**276**	**3,360**	**33,952**	**40,029**	**52,733**	**50,205**	**58,119**	**84,901**	**104,613**
Arkansas	1913	115	585	7,055	11,924	11,200	9,563	14,532	31,784	40,971
Louisiana	1910	161	(4)	5,347	6,082	8,611	10,563	10,753	11,157	17,143
Oklahoma	1911	--------	2,125	4,775	5,731	12,938	10,420	12,816	13,251	11,969
Texas	1917	--------	650	16,775	16,293	19,985	19,659	20,018	28,710	34,530
Mountain	--------	**638**	**8,870**	**28,002**	**24,747**	**27,387**	**23,810**	**27,318**	**35,039**	**37,003**
Montana	1913	14	397	3,640	1,454	1,267	1,155	1,541	3,863	4,488
Idaho	1905	50	850	4,863	2,534	3,637	4,191	3,847	5,413	3,365
Wyoming	1911	--------	771	3,701	3,877	3,973	2,974	2,873	3,600	3,123
Colorado	1909	301	1,775	4,156	5,741	5,565	5,850	5,232	6,957	7,142
New Mexico	1909	116	839	3,713	3,205	3,323	2,928	5,089	6,603	6,675
Arizona	1909	--------	1,451	2,948	2,884	2,443	2,565	2,608	2,443	4,873
Utah	1909	158	2,445	3,391	2,709	4,124	2,448	3,929	3,992	4,545
Nevada	1911	--------	342	1,590	2,343	3,056	1,699	2,199	2,167	2,797
Pacific	--------	**1,354**	**15,386**	**39,596**	**37,854**	**41,490**	**39,938**	**39,450**	**49,126**	**57,382**
Washington	1905	1,343	2,895	9,970	7,169	7,846	8,825	8,628	13,893	15,702
Oregon	1913	11	5,923	18,246	10,786	15,553	10,018	10,263	10,268	11,328
California	1895	--------	6,568	11,380	19,899	18,091	21,095	20,559	24,965	30,352

[1] Excludes expenditures of $1,065,000 in cities under supervision of State highway department.
[2] Excludes expenditures of $2,462,000 for flood relief work.
[3] Data are for 1926.
[4] Data not available.
[5] Data cover July 1 to Mar. 31, as fiscal year was changed.

Source: Bureau of Public Roads, Department of Agriculture.

No. 411.—EXPENDITURES FOR RURAL HIGHWAYS: CONSOLIDATED DATA FOR ALL STATES, COUNTIES, TOWNSHIPS, AND DISTRICTS (APPROXIMATE)

NOTE.—All figures in thousands of dollars. For the items entering into the totals see Table 413

Division and State	1914	1919	1921	1923	1925	1926	1927	1928	1929
Continental U. S.	240,264	389,456	1,036,588	996,781	1,288,940	1,300,546	1,448,121	1,659,692	1,718,200
New England	15,436	25,462	45,361	40,381	63,080	69,183	76,440	85,173	100,493
Maine	2,642	4,525	8,702	8,684	11,003	12,923	11,384	[1] 13,852	16,806
New Hampshire	1,590	2,882	3,699	4,288	5,589	4,968	5,772	9,456	[2] 12,094
Vermont	1,024	2,140	2,150	3,030	4,693	4,706	5,080	6,802	13,568
Massachusetts	6,092	10,225	19,536	12,161	26,881	28,144	33,262	29,962	34,644
Rhode Island	446	1,847	2,828	2,878	3,894	4,883	5,196	5,550	6,434
Connecticut	3,641	3,844	8,446	9,341	11,021	13,559	15,746	19,550	16,947
Middle Atlantic	40,865	67,990	160,471	130,125	247,348	226,098	258,528	286,673	303,831
New York	23,232	24,448	57,025	52,422	89,383	69,543	98,798	110,940	114,664
New Jersey	7,208	15,320	28,096	20,116	55,470	50,716	54,951	58,300	65,351
Pennsylvania	10,425	28,222	75,350	57,587	102,494	105,839	104,779	117,434	123,816
East North Central	56,445	83,621	267,988	254,123	260,899	281,642	302,045	336,908	379,646
Ohio	14,334	18,213	76,580	62,876	73,626	83,043	80,580	103,564	99,844
Indiana	14,234	18,702	54,502	54,525	49,991	49,810	52,023	58,570	60,897
Illinois	8,735	16,524	39,619	55,451	45,154	50,453	57,931	83,675	70,039
Michigan	9,262	16,525	55,573	37,691	60,847	62,517	66,576	88,101	97,623
Wisconsin	9,880	13,657	41,714	43,580	31,281	35,819	44,935	52,998	51,243
West North Central	33,120	64,779	148,866	152,413	176,603	171,548	197,794	209,624	239,379
Minnesota	6,459	13,223	38,780	35,327	44,352	37,815	41,283	42,576	48,559
Iowa	10,188	16,773	39,325	34,838	33,161	34,521	48,351	62,024	62,216
Missouri	5,513	7,724	16,128	31,177	41,224	41,058	37,172	31,769	44,625
North Dakota	2,402	6,236	7,247	5,751	6,210	6,340	8,797	7,936	9,271
South Dakota	1,218	4,244	14,189	10,105	13,056	13,319	11,085	13,923	14,011
Nebraska	1,796	5,551	10,528	14,246	16,041	15,688	16,909	16,253	19,615
Kansas	5,544	11,027	22,670	20,969	22,560	22,807	34,197	35,143	41,082
South Atlantic	24,429	35,458	106,657	151,858	192,389	229,594	263,194	244,385	218,909
Delaware	512	1,994	6,036	5,432	6,161	5,077	5,148	4,887	7,130
Maryland	6,001	6,965	10,298	12,945	15,553	14,213	14,565	15,656	18,982
Virginia	3,225	5,140	15,485	18,849	22,578	22,230	25,368	24,540	23,188
West Virginia	2,484	5,290	10,060	25,665	29,098	32,030	32,681	29,888	32,748
North Carolina	5,215	6,717	29,324	43,143	46,799	59,618	58,865	57,306	49,283
South Carolina	1,024	2,435	10,049	9,437	19,652	16,855	19,767	36,116	38,497
Georgia	3,688	6,917	15,817	16,506	20,940	20,576	29,450	29,199	19,196
Florida	2,280	([3])	9,588	19,876	31,608	58,995	77,350	46,792	29,885
East South Central	12,755	12,974	51,236	58,860	97,015	81,036	91,418	124,476	127,598
Kentucky	2,475	3,803	12,623	15,647	22,118	16,284	18,383	[4] 24,597	25,255
Tennessee	2,371	4,468	12,697	14,565	31,124	23,354	27,152	37,798	42,882
Alabama	3,949	1,812	5,608	14,503	18,800	19,006	21,272	31,535	32,019
Mississippi	3,960	2,890	20,308	14,147	24,912	22,392	24,611	30,546	27,442
West South Central	15,333	32,524	103,820	78,896	113,210	107,241	119,720	155,625	174,710
Arkansas	1,523	9,381	21,211	15,484	22,360	18,438	23,432	40,114	49,826
Louisiana	1,778	([3])	14,022	15,142	18,557	19,910	22,559	23,621	29,115
Oklahoma	2,113	9,052	14,680	14,196	28,308	24,568	25,541	30,181	27,950
Texas	9,920	14,092	53,907	34,075	43,985	44,325	48,188	61,710	67,819
Mountain	9,454	25,143	58,158	44,220	46,090	42,518	46,388	57,304	69,804
Montana	2,888	2,583	10,383	4,892	4,520	5,961	6,306	8,943	9,813
Idaho	1,371	4,300	11,807	5,998	7,597	7,959	8,318	11,747	9,934
Wyoming	670	1,915	4,725	4,751	4,650	3,872	3,609	4,527	4,216
Colorado	1,938	4,295	9,049	10,675	10,520	10,829	10,272	11,881	12,777
New Mexico	556	1,584	4,259	3,659	3,769	3,391	5,581	7,076	7,234
Arizona	983	4,018	10,648	7,192	4,048	4,359	4,218	4,396	7,222
Utah	803	5,545	5,175	4,209	7,274	3,793	5,206	5,556	5,866
Nevada	245	902	2,111	2,844	3,712	2,354	2,878	3,177	3,742
Pacific	32,427	41,505	94,031	85,903	92,306	91,684	92,591	109,524	112,828
Washington	7,945	11,616	24,239	17,239	15,710	18,821	18,322	23,697	25,452
Oregon	5,310	10,391	27,969	19,991	28,928	23,078	22,973	23,128	24,408
California	19,172	19,497	41,823	48,674	47,668	49,785	51,296	62,698	62,968

[1] Excludes expenditures of $1,065,000 in cities under supervision of State highway department.
[2] Data for State highways exclude expenditures of $2,462,000 for flood relief work.
[3] Data not available.
[4] Data for State highways cover July 1 to Mar. 31, as fiscal year was changed.

Source: Bureau of Public Roads, Department of Agriculture.

No. 412.—FUNDS AVAILABLE FOR RURAL ROAD PURPOSES: CONSOLIDATED DATA FOR ALL STATES, COUNTIES, TOWNSHIPS, AND DISTRICTS, 1929

NOTE.—All figures except percentages in thousands of dollars. Funds are those available for the purposes indicated in Table 413

Division and State	Total	Proceeds of bonds and notes		Federal aid post-road funds [1]		Motor vehicle fees and gasoline taxes		Other taxes and appropriations		All other sources [2]	
		Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
Continental U. S.	**2,148,305**	**271,864**	**12.7**	**77,573**	**3.6**	**687,730**	**32.0**	**560,908**	**26.1**	**550,229**	**25.6**
New England	**112,481**	**8,006**	**7.1**	**4,845**	**4.3**	**40,482**	**36.0**	**28,686**	**25.5**	**30,480**	**27.1**
Maine	17,793	2,437	13.7	1,170	6.6	5,998	33.7	4,154	23.3	4,032	22.7
New Hampshire	14,204	1,770	12.5	521	3.7	3,691	26.0	4,282	30.1	3,940	27.7
Vermont	14,641	2,559	17.5	2,041	13.9	298	2.0	4,513	30.8	5,230	35.7
Massachusetts	39,763	1,200	3.0	914	2.3	14,676	36.9	11,393	28.7	11,580	29.1
Rhode Island	8,022	40	.5	35	.4	3,651	45.5	969	12.1	3,327	41.5
Connecticut	18,058	-------	------	164	.9	12,148	67.3	3,375	18.7	2,371	13.1
Middle Atlantic	**441,365**	**24,618**	**5.6**	**7,763**	**1.8**	**119,935**	**27.2**	**121,841**	**27.6**	**167,208**	**37.9**
New York	194,924	-------	------	3,630	1.9	29,606	15.2	63,274	32.5	98,414	50.5
New Jersey	75,098	15,917	21.2	599	.8	27,683	36.9	20,591	27.4	10,308	13.7
Pennsylvania	171,343	8,701	5.1	3,534	2.1	62,646	36.6	37,976	22.2	58,486	34.1
East North Central	**442,001**	**64,902**	**14.7**	**14,371**	**3.3**	**141,348**	**32.0**	**138,499**	**31.3**	**82,880**	**18.8**
Ohio	118,538	20,926	17.7	3,013	2.5	33,628	28.4	39,623	33.4	21,348	18.0
Indiana	71,906	10,651	14.8	2,369	3.3	18,845	26.2	26,236	36.5	13,805	19.2
Illinois	76,537	20,824	27.2	3,482	4.5	18,652	24.4	28,622	37.4	4,957	6.5
Michigan	112,544	7,320	6.5	3,068	2.7	52,094	46.3	25,942	23.1	24,120	21.4
Wisconsin	62,476	5,181	8.3	2,439	3.9	18,129	29.0	18,076	28.9	18,650	29.9
West North Central	**277,654**	**32,437**	**11.7**	**14,976**	**5.4**	**96,312**	**34.7**	**77,546**	**27.9**	**56,380**	**20.3**
Minnesota	61,428	1,000	1.6	1,742	2.8	21,859	35.6	20,512	33.4	16,314	26.6
Iowa	71,180	18,892	26.5	2,537	3.6	19,833	27.9	16,480	23.2	13,438	18.9
Missouri	51,751	11,429	22.1	3,683	7.1	18,059	34.9	9,636	18.6	8,944	17.3
North Dakota	11,415	-------	------	1,501	13.1	3,396	29.8	4,118	36.1	2,399	21.0
South Dakota	13,402	-------	------	1,148	8.6	5,745	42.9	6,369	47.5	140	1.0
Nebraska	21,845	16	.1	1,658	7.6	11,727	53.7	6,531	29.9	1,912	8.8
Kansas	46,633	1,100	2.4	2,707	5.8	15,693	33.7	13,900	29.8	13,233	28.4
South Atlantic	**274,869**	**35,292**	**12.8**	**6,534**	**2.4**	**81,998**	**29.8**	**70,175**	**25.5**	**80,871**	**29.4**
Delaware	7,955	480	6.0	513	6.4	2,450	30.8	3,157	39.7	1,354	17.0
Maryland	22,969	5,384	23.4	509	2.2	7,216	31.4	6,703	29.2	3,157	13.7
Virginia	30,744	593	1.9	1,298	4.2	15,003	48.8	6,902	22.4	6,950	22.6
West Virginia	41,704	14,562	34.9	460	1.1	9,948	23.9	11,078	26.6	5,656	13.6
North Carolina	60,102	4,766	7.9	1,717	2.9	17,326	28.8	13,375	22.3	22,918	38.1
South Carolina	49,466	7,057	14.3	1,126	2.3	9,156	18.5	7,279	14.7	24,848	50.2
Georgia [3]	20,937	557	2.7	390	1.9	8,860	42.3	8,469	40.4	2,661	12.7
Florida	40,992	1,893	4.6	521	1.3	12,039	29.4	13,212	32.2	13,327	32.5
East South Central	**170,429**	**48,993**	**28.7**	**6,110**	**3.6**	**42,760**	**25.1**	**35,212**	**20.7**	**37,354**	**21.9**
Kentucky	29,457	3,400	11.5	1,830	6.2	13,227	44.9	7,034	23.9	3,966	13.5
Tennessee	68,538	30,122	43.9	2,246	3.3	9,280	13.5	9,440	13.8	17,451	25.5
Alabama	35,243	13,169	37.4	1,274	3.6	10,122	28.7	6,417	18.2	4,260	12.1
Mississippi	37,191	2,302	6.2	760	2.0	10,131	27.2	12,321	33.1	11,677	31.4
West South Central	**214,427**	**47,109**	**22.0**	**7,838**	**3.7**	**73,834**	**34.4**	**38,280**	**17.9**	**47,365**	**22.1**
Arkansas	54,145	29,564	54.6	1,232	2.3	16,346	30.2	2,300	4.2	4,703	8.7
Louisiana	39,631	[4] 10,845	27.4	703	1.8	10,974	27.7	9,280	23.4	7,829	19.8
Oklahoma	31,821	700	2.2	1,614	5.1	15,358	48.3	8,200	25.8	5,948	18.7
Texas	88,830	6,000	6.8	4,289	4.8	31,156	35.1	18,500	20.8	28,885	32.5
Mountain	**70,414**	**3,886**	**5.5**	**9,737**	**13.8**	**24,557**	**34.9**	**17,107**	**24.3**	**15,125**	**21.5**
Montana	10,296	100	1.0	1,941	18.9	3,478	33.8	2,850	27.7	1,927	18.7
Idaho	12,638	845	6.7	478	3.8	3,881	30.7	3,990	31.6	3,444	27.3
Wyoming	4,633	-------	------	895	19.3	1,914	41.3	757	16.3	1,067	23.0
Colorado	15,276	-------	------	1,879	12.3	6,976	45.7	3,977	26.0	2,443	16.0
New Mexico	8,379	2,363	28.2	1,157	13.8	2,931	35.0	690	8.2	1,237	14.8
Arizona	7,906	475	6.0	1,309	16.6	2,944	37.2	1,900	24.0	1,278	16.2
Utah	6,879	-------	------	979	14.2	1,452	21.1	2,199	32.0	2,249	32.7
Nevada	4,407	103	2.3	1,099	24.9	981	22.3	744	16.9	1,480	33.6
Pacific	**144,668**	**6,620**	**4.6**	**5,397**	**3.7**	**66,524**	**46.0**	**33,559**	**23.2**	**32,566**	**22.5**
Washington	26,932	100	.4	1,329	4.9	16,344	60.7	7,310	27.1	1,849	6.9
Oregon	26,590	3,250	12.2	624	2.3	12,579	47.3	5,300	19.9	4,836	18.2
California	91,146	3,270	3.6	3,444	3.8	37,601	41.3	20,949	23.0	25,881	28.4

[1] For road and bridge purposes under supervision of State highway departments only.
[2] Includes balance from previous year, miscellaneous income, and funds transferred.
[3] Data for State highways cover Jan. 1 to June 30, as fiscal year was changed.
[4] Does not include $5,000,000, proceeds of State bonds sold Dec. 15, 1929.

Source: Bureau of Public Roads, Department of Agriculture.

No. 413.—DISTRIBUTION OF EXPENDITURES FOR ALL RURAL ROAD PURPOSES, 1929: ALL STATES, COUNTIES, TOWNSHIPS, AND DISTRICTS

[All figures except percentages in thousands of dollars]

Division and State	Total	New and reconstructed roads and bridges		Maintenance roads and bridges		Principal and interest on highway bonds and notes		Equipment and miscellaneous	
		Amount	Per cent	Amount	Per cent	Amount	Per cent	Amount	Per cent
Continental U. S.	1,718,200	813,982	47.4	433,538	25.2	272,529	15.9	198,151	11.5
New England	100,493	52,556	52.3	27,807	27.7	3,838	3.8	16,292	16.2
Maine	16,806	8,564	51.0	4,492	26.7	1,240	7.4	2,510	14.9
New Hampshire[1]	12,094	4,388	36.3	4,430	36.6	----------	-------	3,276	27.1
Vermont	13,568	11,029	81.3	1,866	13.8	199	1.5	474	3.5
Massachusetts	34,644	15,636	45.1	9,820	28.3	1,843	5.3	7,345	21.2
Rhode Island	6,434	3,087	48.0	2,090	32.5	556	8.6	701	10.9
Connecticut	16,947	9,852	58.1	5,109	30.1	----------	-------	1,986	11.7
Middle Atlantic	303,831	149,226	49.1	63,905	21.0	46,369	15.3	44,330	14.6
New York	114,664	70,309	61.3	22,117	19.3	9,684	8.4	12,553	10.9
New Jersey	65,351	36,678	56.1	8,839	13.5	14,260	21.8	5,574	8.5
Pennsylvania	123,816	42,239	34.1	32,949	26.6	22,425	18.1	26,203	21.2
East North Central	379,646	168,626	44.4	98,582	26.0	68,013	17.9	44,425	11.7
Ohio	99,844	33,483	33.5	28,075	28.1	25,050	25.1	13,236	13.3
Indiana	60,897	27,078	44.5	15,765	25.9	15,724	25.8	2,330	3.8
Illinois	70,039	37,831	54.0	20,219	28.9	10,394	14.8	1,594	2.3
Michigan	97,623	45,900	47.0	23,134	23.7	13,342	13.7	15,247	15.6
Wisconsin	51,243	24,334	47.5	11,389	22.2	3,503	6.8	12,018	23.5
West North Central	239,379	137,485	57.4	62,273	26.0	19,490	8.1	20,132	8.4
Minnesota	48,559	27,556	56.7	10,152	20.9	5,763	11.9	5,088	10.5
Iowa	62,216	37,277	59.9	18,421	29.6	4,788	7.7	1,731	2.8
Missouri	44,625	27,695	62.1	9,443	21.2	5,536	12.4	1,950	4.4
North Dakota	9,271	6,813	73.5	1,689	18.2	215	2.3	554	6.0
South Dakota	14,011	7,738	55.2	4,455	31.8	715	5.1	1,104	7.9
Nebraska	19,615	10,992	56.0	7,472	38.1	285	1.5	866	4.4
Kansas	41,082	19,414	47.3	10,641	25.9	2,188	5.3	8,839	21.5
South Atlantic	218,909	88,528	40.4	49,800	22.7	57,800	26.4	22,782	10.4
Delaware	7,130	2,573	36.1	600	8.4	3,242	45.5	715	10.0
Maryland	18,982	8,202	43.2	5,075	26.7	4,153	21.9	1,551	8.2
Virginia	23,188	12,324	53.1	8,265	35.6	2,330	10.0	269	1.2
West Virginia	32,748	16,586	50.6	6,682	20.4	9,173	28.0	307	.9
North Carolina	49,283	15,404	31.3	9,879	20.0	19,623	39.8	4,377	8.9
South Carolina	38,497	14,778	38.4	5,055	13.1	8,098	21.0	10,567	27.4
Georgia	19,196	7,442	38.8	7,721	40.2	2,571	13.4	1,463	7.6
Florida	29,885	11,219	37.5	6,523	21.8	8,610	28.8	3,533	11.8
East South Central	127,598	59,455	46.6	35,728	28.0	19,160	15.0	13,266	10.4
Kentucky	25,255	12,133	48.0	6,486	25.7	1,900	7.5	4,736	18.8
Tennessee	42,882	22,433	52.3	9,613	22.4	5,990	14.0	4,846	11.3
Alabama	32,019	17,340	54.2	6,979	21.8	6,209	19.4	1,492	4.7
Mississippi	27,442	7,549	27.5	12,650	46.1	5,051	18.4	2,192	8.0
West South Central	174,710	75,307	43.1	45,114	25.8	32,444	18.6	21,846	12.5
Arkansas	49,826	22,242	44.6	5,361	10.8	11,838	23.8	10,386	20.8
Louisiana	29,115	14,169	48.7	6,876	23.6	5,856	20.1	2,214	7.6
Oklahoma	27,950	11,311	40.5	11,406	40.8	2,250	8.1	2,983	10.7
Texas	67,819	27,585	40.7	21,471	31.7	12,500	18.4	6,263	9.2
Mountain	60,804	27,863	45.8	19,042	31.3	8,243	13.6	5,654	9.3
Montana	9,813	5,160	52.6	2,995	30.5	1,227	12.5	431	4.4
Idaho	9,934	3,248	32.7	2,430	24.5	2,921	29.4	1,335	13.4
Wyoming	4,216	2,066	49.0	1,828	43.4	165	3.9	157	3.7
Colorado	12,777	4,993	39.1	5,232	40.9	1,534	12.0	1,017	8.0
New Mexico	7,234	4,400	60.8	1,762	24.4	520	7.2	552	7.6
Arizona	7,222	3,385	46.9	2,334	32.3	630	8.7	873	12.1
Utah	5,866	2,736	46.6	1,689	28.8	924	15.8	517	8.8
Nevada	3,742	1,875	50.1	772	20.6	322	8.6	772	20.6
Pacific	112,828	54,939	48.7	31,286	27.7	17,182	15.2	9,421	8.3
Washington	25,452	13,864	54.5	6,510	25.6	1,525	6.0	3,553	14.0
Oregon	24,408	11,677	47.8	6,533	26.8	5,579	22.9	619	2.5
California	62,968	29,398	46.7	18,243	29.0	10,078	16.0	5,249	8.3

[1] Data for State highways exclude expenditures of $2,462,000 for flood relief work.

Source: Bureau of Public Roads, Department of Agriculture.

No. 414.—HIGHWAY CONSTRUCTION UNDER FEDERAL AID: STATUS AS OF DECEMBER 31, 1930

[Total cost and Federal aid expressed in thousands of dollars]

Division and State	Mileage completed prior to Jan. 1, 1931 [1]	Projects under construction			Projects approved for construction			Federal aid fund available for new projects
		Total cost	Federal aid	Miles [1]	Total cost	Federal aid	Miles [1]	
Grand total [2]	88,945	233,397	99,573	9,089	60,394	25,531	2,375	144,726
New England	2,437	14,614	4,734	172	2,892	734	30	7,463
Maine	580	2,519	847	54	542	271	(3)	1,918
New Hampshire	382	1,039	378	19				572
Vermont	300	348	81	7				614
Massachusetts	712	6,762	1,803	53	1,894	379	24	2,469
Rhode Island	210	1,720	665	26				627
Connecticut	253	2,190	960	13	456	84	6	1,263
Middle Atlantic	5,872	29,382	7,133	316	4,956	1,204	80	19,469
New York	2,665	18,564	3,613	244	4,892	1,179	79	11,774
New Jersey	551	3,297	827	23				2,548
Pennsylvania	2,656	7,521	2,693	49	64	25	1	5,147
East North Central	10,493	48,256	19,653	1,277	7,959	3,111	203	22,411
Ohio	2,504	13,749	4,267	213	630	180	4	4,509
Indiana	1,569	2,332	1,133	75	4,641	1,694	99	4,004
Illinois	2,167	20,303	9,262	645	1,358	646	48	7,133
Michigan	1,786	7,942	3,299	225	1,150	506	43	4,187
Wisconsin	2,467	3,870	1,692	119	180	85	9	2,578
West North Central	25,312	25,249	10,962	1,683	15,763	6,793	1,080	17,496
Minnesota	4,314	2,142	791	116	5,172	1,996	214	981
Iowa	3,229	105	2	4	2,810	1,151	89	2,194
Missouri	2,588	8,631	3,085	201	1,814	768	66	2,778
North Dakota	4,593	1,689	843	353	1,181	590	307	2,502
South Dakota	3,796	2,829	1,565	353	637	350	110	2,285
Nebraska	3,818	5,068	2,428	366	1,470	632	72	3,697
Kansas	2,974	4,785	2,248	290	2,679	1,306	222	3,059
South Atlantic	10,272	30,438	13,546	1,090	7,510	3,439	291	16,805
Delaware	319	107	53	4	321	153	8	496
Maryland	685	1,016	473	22	159	42	2	999
Virginia	1,614	3,769	1,804	161	585	249	20	2,213
West Virginia	724	4,669	1,696	148	829	347	9	1,086
North Carolina	1,883	4,014	1,918	162	1,091	520	76	4,024
South Carolina	1,851	5,967	2,412	231	779	387	27	1,221
Georgia	2,662	6,259	2,984	280	2,992	1,392	122	4,197
Florida	534	4,637	2,206	82	754	349	27	2,569
East South Central	6,856	14,277	6,355	666	5,252	1,940	200	15,327
Kentucky	1,519	5,670	2,346	251	2,469	555	75	1,481
Tennessee	1,329	4,331	1,948	204	807	403	20	3,306
Alabama	2,178	3,497	1,675	157	1,458	723	75	5,169
Mississippi	1,830	779	386	54	518	259	30	5,371
West South Central	12,115	28,887	12,905	1,327	7,024	3,168	397	16,782
Arkansas	1,807	6,018	2,805	226	1,222	606	37	2,773
Louisiana	1,410	4,345	2,105	176	2,046	926	73	1,889
Oklahoma	1,944	5,183	2,464	226	1,187	642	93	2,279
Texas	6,954	13,341	5,531	699	2,569	994	194	9,841
Mountain	11,389	25,623	16,306	1,956	4,563	2,916	457	19,216
Montana	1,892	7,344	4,145	614	844	458	110	4,807
Idaho	1,292	2,093	1,278	155	713	428	67	1,631
Wyoming	1,756	2,636	1,756	271	553	360	88	1,167
Colorado	1,284	4,137	2,196	196	872	490	71	3,737
New Mexico	1,958	4,150	2,753	239	350	300	14	2,359
Arizona	892	3,565	2,794	278	414	289	18	2,237
Utah	1,037	692	512	87	807	582	88	1,396
Nevada	1,278	1,006	872	116	10	9	1	1,882
Pacific	4,158	15,789	7,606	579	4,274	2,126	128	7,903
Washington	984	2,963	1,283	91	1,541	737	60	2,237
Oregon	1,229	5,472	3,218	296	894	510	36	1,593
California	1,945	7,354	3,105	192	1,839	879	32	4,076
Hawaii	41	883	374	22	198	99	9	1,853

[1] Figures expressed in nearest mile, original figures in nearest tenth.
[2] Includes Hawaii.
[3] Less than five-tenths of 1 mile.
Source: Bureau of Public Roads, Department of Agriculture.

No. 415.—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 [1]						Registration (in thousands)		
	Number (in thousands)			Wholesale value (thousands of dollars)					
	Total	Passenger cars	Motor trucks	Total	Passenger cars	Motor trucks	Total	Passenger cars, busses, and taxis	Trucks and road tractors [2]
1900 [3]	4	4	--------	4,899	4,899	--------	8	--------	--------
1901	7	7	--------	8,183	8,183	--------	15	--------	--------
1902	9	9	--------	10,395	10,395	--------	23	--------	--------
1903	11	11	--------	13,000	13,000	--------	33	--------	--------
1904 [3]	23	22	(4)	24,629	23,682	947	55	55	(4)
1905	25	25	(4)	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 [3]	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 [3]	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	15,092	13,540	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	2,128,792	1,722,645	406,148	26,524	23,043	3,481

[1] See headnote.
[2] Road tractors are not included prior to 1924.
[3] Production data are from United States Census Reports and in 1900 are for fiscal year ended June 30.
[4] Less than 500.

Sources: National Automobile Chamber of Commerce and Bureau of Public Roads.

No. 416.—PRODUCTION OF OPEN AND CLOSED CARS IN THE UNITED STATES AND CANADA, BY PRICE GROUPS [1]

Year	Under $1,000		$1,000 to $2,000		$2,000 to $3,000		$3,000 and over		Per cent closed, all classes
	Open	Closed	Open	Closed	Open	Closed	Open	Closed	
1920 [2]	915,709	216,193	551,648	75,281	63,913	18,027	50,340	14,449	17.0
1921	822,843	224,619	288,372	65,336	51,809	30,167	19,552	15,363	22.1
1922	1,322,357	430,769	312,165	204,296	11,709	47,519	8,678	31,596	30.1
1923	2,071,339	991,842	395,545	220,102	7,838	37,248	2,913	27,118	34.0
1924	1,545,197	890,106	318,387	388,846	14,293	103,224	5,403	38,190	43.0
1925	1,491,766	1,188,462	174,438	833,786	12,008	131,591	5,894	32,799	56.5
1926	978,760	1,804,316	109,843	867,340	12,423	144,391	4,479	27,291	72.0
1927	375,738	1,621,465	77,073	836,492	10,075	130,888	3,352	28,277	84.9
1928	385,381	2,535,547	62,198	856,371	10,037	127,354	2,512	32,758	88.5
1929	477,302	3,425,228	22,055	713,120	9,815	121,055	1,237	25,086	89.4
1930	177,508	2,287,899	19,912	363,009	3,513	63,029	1,969	22,952	93.1

[1] Prior to 1922 figures are based only on price of 5-passenger open cars of a given chassis. Thus, if this model sold for less than $1,000, the total production of cars with the same chassis is included in the "under $1,000" class, even though closed models sold for over $1,000. In 1922 and later years actual f. o. b. prices of open and closed models are considered separately and the cars included under proper classification.
[2] Figures represent the United States only.

Source: Automotive Industries. The grouping is based on retail prices f. o. b. factory.

No. 417.—MOTOR-VEHICLE PRODUCTION IN THE UNITED STATES [1]

Month	1922	1923	1924	1925	1926	1927	1928	1929	1930
	Passenger cars								
Total	2,274,185	3,624,717	3,185,881	3,735,171	3,783,987	2,936,533	3,815,417	4,587,400	2,784,745
January	78,317	223,421	286,314	209,510	276,119	198,157	205,539	347,609	233,815
February	103,227	252,780	335,356	246,924	323,139	262,550	291,005	406,171	280,016
March	149,238	321,453	344,803	325,915	384,579	343,872	371,283	513,656	330,922
April	193,927	337,149	334,736	381,301	385,342	356,823	364,261	537,564	372,932
May	228,975	347,019	275,196	371,192	374,789	356,930	374,680	516,181	361,368
June	249,980	334,596	219,730	356,695	340,716	279,565	355,685	452,749	285,936
July	221,367	299,139	239,299	353,897	317,160	237,811	337,560	425,998	222,205
August	244,340	313,107	252,108	222,030	381,041	275,585	398,722	441,820	183,918
September	184,929	298,504	261,143	265,703	352,070	226,443	357,704	364,336	176,426
October	208,977	334,742	257,785	391,672	290,254	183,042	338,883	319,330	113,808
November	207,498	285,346	201,960	329,294	220,357	109,712	215,742	169,492	101,141
December	203,410	277,461	177,451	281,038	138,421	106,043	204,353	92,494	122,258
	Motor trucks and busses								
Total	269,991	409,295	416,659	530,659	516,947	464,793	543,342	771,020	571,241
January	11,057	22,468	32,275	31,069	32,879	40,751	26,189	53,428	39,406
February	14,644	25,311	35,213	36,714	40,513	42,185	32,791	60,247	50,398
March	22,249	38,023	38,621	48,491	48,888	50,641	42,031	71,799	55,466
April	25,467	41,989	41,132	52,491	53,994	49,559	45,843	84,346	71,092
May	26,647	48,536	39,981	47,864	50,378	48,718	51,103	88,510	58,659
June	28,896	45,514	32,070	41,829	45,553	44,252	41,111	93,183	48,570
July	24,388	32,705	30,513	45,050	42,450	31,585	54,526	74,842	43,328
August	26,498	35,109	32,528	38,206	45,810	34,409	62,576	56,808	40,450
September	18,998	29,216	35,239	60,025	46,868	33,867	57,610	51,576	44,223
October	23,847	31,719	36,768	50,309	44,167	36,640	58,401	60,687	40,593
November	25,425	29,158	32,651	42,977	35,944	24,658	41,308	48,081	35,613
December	21,875	29,547	29,611	35,634	29,503	27,528	29,763	27,513	33,443

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

No. 418.—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 gross receipts in thousands of dollars			Tax in cents per gallon on Dec. 31—	
	1925	1929	1930	1929	1930
Total	146,029	431,636	494,683	----	----
Alabama	2,141	7,105	6,901	4	4
Arizona	856	2,560	2,670	4	4
Arkansas	[1] 2,950	6,681	6,427	5	5
California	14,957	34,192	34,870	3	3
Colorado	1,961	5,218	6,145	4	4
Connecticut	1,909	4,097	4,515	2	2
Delaware	342	936	1,013	3	3
Dist. of Col	890	1,428	1,600	2	2
Florida	7,653	12,231	13,655	6	6
Georgia	4,419	10,224	13,435	6	6
Idaho	895	1,946	2,731	4	5
Illinois	(2)	[3] 11,660	27,472	3	3
Indiana	7,653	15,611	17,159	4	4
Iowa	3,505	9,356	10,584	3	3
Kansas	2,905	8,171	9,120	3	3
Kentucky	3,042	7,743	8,415	5	5
Louisiana	2,340	6,979	7,546	4	5
Maine	1,268	3,709	4,169	4	4
Maryland	1,977	6,297	6,991	4	4
Massachusetts	(2)	9,759	10,563	2	2
Michigan	8,236	21,313	21,713	3	3
Minnesota	3,864	8,892	10,359	3	3
Mississippi	2,494	7,176	6,918	5	5
Missouri	4,159	7,681	8,639	2	2
Montana	675	2,802	2,942	5	5
Nebraska	2,194	7,799	9,060	4	4
Nevada	319	652	675	4	4
New Hampshire	707	2,267	2,499	4	4
New Jersey	(2)	9,996	11,380	2	3
New Mexico	537	2,290	2,762	5	5
New York	(2)	[4] 19,087	28,476	2	2
North Carolina	6,082	12,006	12,533	5	5
North Dakota	634	1,801	1,972	3	3
Ohio	9,010	34,082	37,081	4	4
Oklahoma	5,144	10,842	12,092	4	4
Oregon	2,909	4,543	6,199	3	4
Pennsylvania	8,353	35,758	33,624	4	4
Rhode Island	318	1,546	1,736	2	2
South Carolina	3,865	6,871	7,146	6	6
South Dakota	1,848	3,546	3,504	4	4
Tennessee	3,408	9,291	10,719	5	5
Texas	4,642	22,317	29,527	4	4
Utah	1,064	1,980	2,106	3½	3½
Vermont	502	1,703	1,880	4	4
Virginia	3,702	9,895	10,775	5	5
Washington	3,021	5,943	7,253	3	3
West Virginia	2,187	4,873	5,367	4	4
Wisconsin	4,032	7,485	8,315	2	2
Wyoming	456	1,296	1,447	4	4

[1] In addition, $438,436 was collected on motor-oil tax of 10 cents per gallon. [2] No tax imposed.
[3] Receipts for last 5 months of year. [4] Receipts for last 8 months of year.

Sources: Table 417, Bureau of Foreign and Domestic Commerce, Department of Commerce; Table 418, Bureau of Public Roads, Department of Agriculture.

No. 419.—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

Division and State	1913	1915	1920	1925 [1]	1928 [1]	1929 [1]	1930 [1]
Continental U. S.	**1,258,062**	**2,445,666**	**9,231,941**	**19,937,274**	**24,493,124**	**26,501,443**	**26,523,779**
New England	**121,327**	**206,609**	**573,321**	**1,290,151**	**1,523,298**	**1,666,192**	**1,698,619**
Maine	11,022	21,545	62,907	140,499	172,638	184,506	186,157
New Hampshire	8,237	13,449	34,680	81,498	102,644	108,880	112,183
Vermont	5,913	11,499	31,625	69,576	86,231	93,030	86,624
Massachusetts	62,660	102,633	274,498	646,153	726,295	817,704	846,206
Rhode Island	10,295	16,362	50,477	101,756	125,698	134,009	136,423
Connecticut	23,200	41,121	119,134	250,669	309,792	328,063	331,026
Middle Atlantic	**266,033**	**497,227**	**1,474,106**	**3,536,570**	**4,484,579**	**4,828,874**	**4,914,101**
New York	134,495	255,242	676,205	1,625,583	2,083,942	2,263,159	2,307,730
New Jersey	51,360	81,848	227,737	580,554	758,430	832,332	852,850
Pennsylvania	80,178	160,137	570,164	1,330,433	1,642,207	1,733,283	1,753,521
East North Central	**314,524**	**653,665**	**2,229,396**	**4,918,383**	**5,969,220**	**6,437,021**	**6,384,157**
Ohio	86,156	181,332	621,390	1,346,400	1,649,699	1,766,614	1,759,363
Indiana	45,000	96,915	333,067	725,410	823,806	866,715	875,763
Illinois	94,656	180,832	568,924	1,263,177	1,504,359	1,615,088	1,638,260
Michigan	54,366	114,845	412,717	989,010	1,249,221	1,395,102	1,328,209
Wisconsin	34,346	79,741	293,298	594,386	742,135	793,502	782,562
West North Central	**232,044**	**499,992**	**1,782,948**	**2,941,814**	**3,410,057**	**3,663,223**	**3,681,901**
Minnesota	46,000	93,269	324,166	569,694	673,573	730,399	732,972
Iowa	70,299	145,109	437,378	659,202	733,466	784,450	778,386
Missouri	38,140	76,462	297,008	604,166	712,965	756,680	761,600
North Dakota	15,187	24,908	90,840	144,972	173,525	188,046	183,019
South Dakota	14,457	28,724	120,395	168,028	191,374	204,199	205,172
Nebraska	13,411	59,000	219,000	338,719	391,355	418,226	426,229
Kansas	34,550	72,520	294,159	457,033	533,799	581,223	594,523
South Atlantic	**77,823**	**150,594**	**806,053**	**1,920,982**	**2,428,176**	**2,602,134**	**2,517,673**
Delaware	2,440	5,052	18,300	40,140	51,210	54,960	56,109
Maryland	14,217	31,047	102,841	234,247	285,311	319,873	321,702
District of Columbia	4,000	8,009	34,161	103,092	126,556	151,450	156,676
Virginia	9,022	21,357	115,470	282,650	360,545	387,205	375,889
West Virginia	5,144	13,279	80,664	217,589	251,556	268,888	266,273
North Carolina	10,000	21,000	140,860	[2] 340,287	464,376	483,602	453,241
South Carolina	10,000	15,000	93,843	168,496	216,805	231,274	218,402
Georgia	[3] 20,000	25,000	146,000	248,093	318,856	358,905	341,580
Florida	[3] 3,000	[3] 10,850	73,914	286,388	352,961	345,977	327,801
East South Central	**26,360**	**48,421**	**357,658**	**878,115**	**1,142,129**	**1,230,823**	**1,213,501**
Kentucky	7,210	19,500	112,683	261,647	304,231	332,848	331,002
Tennessee	[4] 10,000	[5] 7,618	101,852	244,626	322,137	362,431	368,259
Alabama	5,300	11,634	74,637	194,580	269,519	285,533	277,146
Mississippi	3,850	9,669	68,486	177,262	246,242	250,011	237,094
West South Central	**48,583**	**84,433**	**772,655**	**1,790,017**	**2,223,364**	**2,432,892**	**2,411,714**
Arkansas	3,583	8,021	59,082	183,589	214,931	233,128	220,204
Louisiana	[4] 10,000	11,380	73,000	207,000	264,293	280,868	275,283
Oklahoma	[3] 3,000	25,032	212,880	424,345	529,843	570,791	550,331
Texas	[4] 32,000	[4] 40,000	427,693	975,083	1,214,297	1,348,107	1,365,896
Mountain	**33,215**	**78,530**	**374,473**	**675,706**	**861,418**	**954,593**	**962,572**
Montana	5,916	14,540	60,650	94,656	126,035	140,387	135,168
Idaho	2,113	7,071	50,861	81,506	108,154	118,074	119,077
Wyoming	1,584	3,976	23,926	47,711	56,336	60,680	61,501
Colorado	13,000	28,894	129,255	240,097	284,867	303,489	308,509
New Mexico	1,898	5,100	22,100	49,111	65,737	78,374	84,150
Arizona	3,613	7,753	34,601	68,029	94,372	109,013	110,525
Utah	4,000	9,177	42,616	73,427	98,541	112,661	113,997
Nevada	1,091	2,009	10,464	21,169	27,376	31,915	29,645
Pacific	**138,153**	**226,205**	**861,333**	**1,985,536**	**2,450,883**	**2,685,689**	**2,739,541**
Washington	24,178	38,823	173,920	328,442	402,875	442,341	446,062
Oregon	13,975	23,585	103,790	216,553	248,118	269,007	252,123
California	[4] 100,000	163,797	583,623	1,440,541	1,799,890	1,974,341	2,041,356

[1] Includes road tractors.
[2] Fiscal registration year ends June 30; figure represents registration July 1 to Dec. 31.
[3] Registrations incomplete.
[4] Estimated.
[5] Cars registered during 1915 only; total, approximately 26,000.

Source: Bureau of Public Roads, Department of Agriculture.

No. 420.—REGISTRATIONS AND REVENUES FROM MOTOR VEHICLES, 1930

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 [1]	Motor cycles, registered and official, combined	Receipts from motor-vehicle administration: Total receipts [2]	Receipts from motor-vehicle administration: Registration motor cars [3]	Amount used for highway work purposes
							Thousands of dollars		
Continental U.S.	[4] 26,697,398	23,042,840	3,480,939	[4] 173,619	262,507	110,757	355,705	275,407	327,034
New England	1,705,607	1,460,185	238,434	6,988	4,728	11,066	25,541	18,655	22,299
Maine	187,786	148,722	37,435	1,629	2,207	1,238	3,167	2,423	2,710
New Hampshire	112,667	93,155	19,028	484	935	1,132	2,290	1,868	2,115
Vermont	86,652	78,398	8,226	28	315	524	2,392	2,058	2,392
Massachusetts	847,762	743,288	102,918	1,556	701	4,642	7,121	4,118	5,477
Rhode Island	137,324	116,792	19,631	901	90	832	2,281	1,834	2,031
Connecticut	333,416	279,830	51,196	2,390	480	2,048	8,290	6,354	7,574
Middle Atlantic	4,945,885	4,221,511	692,590	31,784	18,528	32,616	89,352	71,590	78,410
New York	2,328,616	1,966,981	340,749	20,886	10,205	13,657	40,858	36,460	34,349
New Jersey	861,270	719,696	133,154	8,420	2,639	5,998	15,382	11,270	14,097
Pennsylvania	1,755,999	1,534,834	218,687	2,478	5,684	12,961	33,112	23,860	29,964
East North Central	6,413,179	5,571,638	812,519	29,022	90,499	22,513	73,644	69,430	71,235
Ohio	1,773,217	1,555,093	204,270	13,854	24,356	6,886	13,287	12,700	12,780
Indiana	884,356	747,366	128,397	8,593	13,646	2,862	6,347	5,942	6,020
Illinois	1,639,239	1,430,676	207,584	979	7,341	6,245	18,444	17,292	18,444
Michigan	1,328,580	[5] 1,161,051	[5] 167,158	371	44,441	3,530	22,482	20,772	21,607
Wisconsin	787,787	677,452	105,110	5,225	715	2,990	13,084	12,724	12,384
West North Central	3,696,970	3,215,792	466,109	15,039	26,228	8,054	48,714	31,382	46,939
Minnesota	736,652	624,902	108,070	3,680	9,541	1,825	11,062	10,926	11,031
Iowa	782,175	706,196	72,190	3,789	1,542	1,789	12,604	11,978	11,956
Missouri	763,686	[5] 670,145	[5] 91,455	2,086	3,472	1,751	10,150	--------	9,651
North Dakota	183,022	155,383	27,636	3	--------	235	1,959	1,946	1,832
South Dakota	206,169	180,195	[6] 24,977	997	([6])	239	2,960	2,901	2,867
Nebraska	427,910	367,587	58,642	1,681	10,320	900	3,805	3,631	3,688
Kansas	597,356	[5] 511,384	[5] 83,139	2,833	1,083	1,315	6,084	--------	5,914
South Atlantic	2,547,664	2,172,058	345,615	29,991	20,191	11,566	35,390	26,015	32,169
Delaware	56,153	45,533	10,576	44	412	295	1,110	864	1,110
Maryland	323,702	283,870	37,832	2,000	1,008	1,941	3,438	2,713	2,475
Dist. Columbia	160,088	139,733	16,943	3,412	--------	1,056	636	179	--------
Virginia	380,942	318,582	57,307	5,053	1,318	2,084	6,494	6,235	6,116
West Virginia	269,330	225,900	40,373	3,057	928	1,453	4,703	4,296	4,455
North Carolina	461,311	397,133	56,108	8,070	5,845	1,350	6,836	--------	6,536
South Carolina	221,952	192,141	26,261	3,550	2,976	559	2,878	2,581	2,681
Georgia	342,514	294,461	47,119	934	2,704	1,178	4,482	4,418	4,271
Florida	331,672	274,705	53,096	3,871	5,000	1,650	4,813	4,729	4,525
East South Central	1,221,777	1,068,210	145,291	8,276	7,440	2,789	17,160	5,376	16,173
Kentucky	333,284	295,161	[6] 35,841	2,282	([6])	681	5,547	5,376	5,271
Tennessee	372,811	330,436	[6] 37,823	4,552	([6])	1,228	4,767	--------	4,441
Alabama	278,514	239,170	37,976	1,368	3,550	663	3,800	--------	3,574
Mississippi	237,168	203,443	33,651	74	3,890	217	3,046	--------	2,887
West South Central	2,420,597	2,073,890	337,824	8,883	38,101	6,169	29,390	21,832	28,172
Arkansas	221,143	193,218	26,986	939	2,805	380	4,284	4,243	4,215
Louisiana	275,492	230,586	44,697	209	5,443	518	4,609	4,528	4,559
Oklahoma	555,561	490,947	59,384	5,230	--------	1,226	6,536	--------	6,280
Texas	1,368,401	1,159,139	206,757	2,505	29,853	4,045	13,961	13,061	13,118
Mountain	970,745	830,947	131,625	8,173	3,220	3,001	9,419	6,075	8,409
Montana	136,808	109,549	25,619	1,640	56	242	1,583	1,503	1,527
Idaho	120,406	104,526	14,551	1,329	450	370	1,998	1,959	1,938
Wyoming	62,092	51,579	[6] 9,922	591	([6])	121	692	--------	692
Colorado	308,792	276,847	31,662	283	188	1,059	1,901	1,785	1,770
New Mexico	85,106	70,450	[7] 13,700	956	850	210	1,280	--------	649
Arizona	111,982	98,480	12,045	1,457	1,346	437	735	541	735
Utah	115,370	96,128	[6] 17,869	1,373	([6])	488	856	--------	738
Nevada	30,189	23,388	6,257	544	330	74	374	287	360
Pacific	2,767,115	2,428,609	310,932	27,574	53,572	12,983	27,094	25,053	23,178
Washington	452,511	382,874	63,188	6,449	3,147	2,172	7,617	7,354	7,341
Oregon	255,126	234,766	17,357	3,003	1,893	1,406	9,168	9,060	9,062
California	2,059,478	1,810,969	230,387	18,122	48,532	9,405	9,859	8,639	6,775

[1] Some States do not register trailers; others include them with trucks.
[2] Includes registration fees, licenses, permits, fines, etc.; excludes gasoline taxes.
[3] Totals include only the States shown; separate data not available for 10 States.
[4] Includes 7,859 "cars at large" not allocated to any State.
[5] Busses included with trucks.
[6] Trailers included with trucks.
[7] Includes small commercial trucks formerly classified with passenger cars.

Source: Bureau of Public Roads, Department of Agriculture.

No. 421.—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	15,713,654	96.9
1925	102,951,999	17,571	17.1	101,111,137	17,149	17.0	17,892,640	95.8
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	25,089,696	106.3

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	1,452,818	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	12.8	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	9,397	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

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

No. 422.—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 73 for per cent of total population included in the registration area for each year.

State	Number of deaths						Rate per estimated 100,000 population					
	1921–1925, avg.	1925	1926	1927	1928	1929	1921–1925, avg.	1925	1926	1927	1928	1929
Registration area in continental United States	**13,869**	**17,571**	**18,871**	**21,160**	**23,765**	**27,066**	**14.3**	**17.1**	**18.0**	**19.6**	**20.8**	**23.3**
Registration States [1]	13,579	17,149	18,419	20,704	23,427	26,662	14.3	17.0	17.9	19.5	20.7	23.2
Cities [1]	8,624	10,640	11,071	12,252	13,430	14,865	19.1	22.4	22.8	24.7	26.0	28.2
Rural	4,955	6,509	7,348	8,452	9,997	11,797	9.9	12.1	13.5	14.9	16.3	18.9
Cities in nonregistration States	290	422	452	456	338	404	18.8	22.9	23.2	24.4	28.0	33.1
All registration cities [1]	8,914	11,062	11,523	12,708	13,768	15,269	19.1	22.4	22.8	24.6	26.0	28.3
REGISTRATION STATES												
Alabama	[2] 252	252	319	361	375	445	[2] 10.0	10.0	12.6	14.1	14.4	17.0
Arizona	(3)	(3)	116	140	123	153	(3)	(3)	29.1	34.3	29.4	35.7
Arkansas	(3)	(3)	(3)	170	211	282	(3)	(3)	(3)	9.3	11.5	15.3
California	1,131	1,327	1,464	1,628	1,755	2,100	27.0	28.6	30.2	32.1	33.2	38.1
Colorado	148	146	175	234	221	258	15.2	14.7	17.5	23.2	21.7	25.1
Connecticut	260	340	307	327	407	433	17.8	22.6	20.1	26.1	26.0	27.2
Delaware	36	37	50	62	75	57	15.8	16.0	21.5	26.5	31.8	24.0
Florida	217	449	515	425	404	488	19.0	36.3	40.1	31.9	29.2	34.1
Georgia	[4] 260	(5)	(5)	(5)	468	527	[4] 9.0	(5)	(5)	(5)	16.1	18.1
Idaho	[6] 46	56	77	76	90	81	[6] 10.5	12.8	17.5	17.2	20.3	18.2
Illinois	1,051	1,268	1,338	1,512	1,743	1,685	15.3	17.9	18.6	20.6	23.4	22.3
Indiana	399	509	547	665	784	897	13.1	16.4	17.5	21.1	24.6	27.9
Iowa	[7] 241	271	264	284	329	404	[7] 9.9	11.1	10.8	11.6	13.4	16.4
Kansas	193	240	241	253	304	373	10.7	13.1	13.1	13.7	16.3	19.9
Kentucky	167	237	277	299	342	389	6.7	9.4	10.9	11.7	13.3	15.0
Louisiana	162	241	271	295	348	373	8.5	12.3	13.6	14.6	17.0	17.9
Maine	83	98	100	112	115	151	10.7	12.5	12.7	14.2	14.5	19.0
Maryland	232	271	312	330	343	382	15.3	17.5	19.9	20.8	21.4	23.6
Massachusetts	609	729	682	696	724	781	15.3	17.9	16.6	16.8	17.3	18.5
Michigan	714	955	1,112	1,266	1,247	1,411	17.5	22.2	25.2	28.0	26.9	29.7
Minnesota	306	361	326	369	435	505	12.5	14.5	13.0	14.7	17.2	19.8
Mississippi	96	170	215	243	253	284	5.1	8.9	11.1	12.5	12.8	14.2
Missouri	391	509	493	517	625	651	11.2	14.4	13.9	14.5	17.4	18.0
Montana	60	84	93	73	118	114	11.0	15.5	17.2	13.5	21.9	21.2
Nebraska	119	125	154	198	217	265	9.0	9.3	11.4	14.6	15.9	19.3
Nevada	(3)	(3)	(3)	(3)	(3)	45	(3)	(3)	(3)	(3)	(3)	50.0
New Hampshire	59	87	68	71	76	98	13.1	19.1	14.9	15.5	16.5	21.1
New Jersey	643	771	792	973	1,015	1,209	18.6	21.2	21.3	25.6	26.1	30.4
New Mexico	(3)	(3)	(3)	(3)	(3)	97	(3)	(3)	(3)	(3)	(3)	23.2
New York	1,889	2,111	2,178	2,384	2,554	2,977	17.0	18.2	18.5	19.9	20.9	24.0
North Carolina	254	376	455	503	577	611	9.2	13.0	15.4	16.7	18.8	19.5
North Dakota	[8] 52	59	70	72	79	88	[8] 7.8	8.9	10.5	10.7	11.7	13.0
Ohio	988	1,285	1,371	1,494	1,708	1,990	16.3	20.6	20.8	23.3	26.3	30.2
Oklahoma	(3)	(3)	(3)	(3)	330	487	(3)	(3)	(3)	(3)	14.1	20.6
Oregon	125	144	187	194	249	221	14.9	16.5	21.0	21.4	26.9	23.5
Pennsylvania	1,405	1,576	1,734	1,860	1,882	2,159	15.6	17.1	18.6	19.8	19.9	22.6
Rhode Island	104	133	127	131	154	146	16.4	20.5	19.3	19.7	22.9	21.4
South Carolina	123	179	192	279	251	350	7.2	10.4	11.2	16.2	14.5	20.2
Tennessee	195	278	312	345	382	480	8.0	11.2	12.4	13.6	14.9	18.5
Utah	68	89	80	79	123	133	14.5	18.5	16.4	16.1	24.7	26.4
Vermont	42	56	45	60	69	64	11.8	15.7	12.6	16.8	19.3	17.8
Virginia	198	271	303	376	412	457	8.4	11.4	12.7	15.7	17.1	18.9
Washington	236	299	342	365	424	441	16.5	20.4	23.0	24.2	27.7	28.5
West Virginia	[2] 208	208	231	208	283	318	[2] 13.0	13.0	14.2	18.0	16.8	18.6
Wisconsin	306	397	384	511	620	612	11.2	14.2	13.6	17.9	21.5	21.0
Wyoming	[6] 51	67	56	66	59	73	[6] 24.7	31.7	26.1	30.4	26.8	32.7
REGISTRATION CITIES												
Akron	39	60	62	75	83	90	18.0	27.1	27.7	32.6	35.7	35.5
Albany	28	35	41	36	39	35	23.7	29.0	33.5	29.1	31.2	27.7
Atlanta	53	65	68	65	71	89	23.5	26.7	27.3	25.5	27.2	33.4
Baltimore	130	158	178	171	185	198	17.1	20.5	22.9	21.8	23.3	24.8
Birmingham	46	51	57	51	63	76	22.3	23.0	24.9	21.4	25.6	29.9
Boston	132	154	149	140	138	145	17.4	20.1	19.4	18.1	17.8	18.6

For footnotes see following page.

No. 422.—Automobile Fatalities in States and Large Cities Having Death Registration—Continued

City	Number of deaths						Rate per estimated 100,000 population					
	1921–1925, average	1925	1926	1927	1928	1929	1921–1925, average	1925	1926	1927	1928	1929
Bridgeport	25	26	31	25	44	39	17.3	17.9	21.3	17.1	30.1	26.6
Buffalo	111	119	135	137	151	184	21.0	21.9	24.6	24.7	26.9	32.4
Cambridge	22	22	19	28	26	31	19.8	19.7	16.9	24.9	23.0	27.3
Camden	37	43	59	65	77	94	31.6	36.6	50.1	55.1	65.1	79.3
Chicago	597	645	693	787	884	768	20.4	21.1	22.1	24.6	27.1	23.1
Cincinnati	91	115	109	119	132	150	21.8	26.9	25.2	27.2	29.8	33.5
Cleveland	189	231	265	250	273	312	22.7	27.0	30.7	28.6	30.9	34.9
Columbus	54	71	70	72	100	117	21.1	26.3	25.6	25.9	35.3	40.7
Dallas	37	59	61	49	66	67	19.2	27.8	27.2	20.8	27.0	26.4
Dayton	28	44	52	44	64	75	16.6	24.7	28.4	23.4	33.2	38.0
Denver	44	37	48	61	55	69	16.5	13.5	17.4	21.8	19.5	24.2
Des Moines	[7] 19	23	30	30	25	33	[7] 14.2	17.0	22.0	21.7	17.9	23.3
Detroit	242	346	399	403	360	392	21.0	27.7	30.3	29.1	24.8	25.8
Fall River	16	17	19	11	24	21	13.5	14.4	16.2	9.4	20.7	18.2
Fort Worth	[6] 21	32	30	31	44	55	[6] 15.3	21.6	19.9	20.2	27.7	34.1
Grand Rapids	28	45	32	35	33	44	19.1	29.3	20.5	21.6	20.1	26.4
Hartford	38	53	46	49	51	49	25.9	34.9	29.8	31.2	31.9	30.2
Houston	28	31	40	57	71	115	15.5	15.2	18.5	24.5	26.2	40.6
Indianapolis	58	78	83	84	120	129	17.5	22.9	24.0	24.0	33.8	35.8
Jersey City	46	64	41	65	48	73	15.1	20.8	13.2	20.9	15.3	23.1
Kansas City, Kans.	17	27	8	20	18	14	15.2	23.0	6.7	16.7	15.0	11.6
Kansas City, Mo.	78	87	82	80	96	82	22.3	23.8	22.0	21.1	24.8	20.8
Los Angeles	220	258	286	353	337	430	27.6	28.0	28.4	32.9	29.7	36.0
Louisville	53	64	64	81	80	86	18.9	21.2	20.9	26.4	26.1	28.0
Lowell	19	26	22	16	17	18	17.5	24.4	20.9	15.4	16.5	17.7
Memphis	41	52	57	68	80	82	23.4	28.6	30.7	35.9	39.6	39.9
Milwaukee	73	102	101	121	127	112	14.8	19.5	19.0	22.2	22.9	19.6
Minneapolis	68	76	69	64	89	108	16.7	18.0	16.1	14.4	19.7	23.5
Nashville	29	38	39	46	43	64	23.1	27.5	28.0	32.7	30.1	41.8
New Bedford	14	18	11	16	20	11	11.8	15.4	9.5	13.9	17.5	9.7
New Haven	34	40	42	48	49	62	20.9	24.6	25.8	29.5	30.1	38.1
New Orleans	64	78	85	96	114	124	15.5	18.3	19.6	21.8	25.5	27.3
New York	961	1,060	1,082	1,099	1,120	1,342	15.8	16.8	16.8	16.7	16.7	19.6
Newark, N. J.	94	110	109	122	117	126	27.2	25.6	25.2	28.0	26.7	28.6
Norfolk	17	24	25	35	25	28	13.3	17.5	18.4	26.1	18.9	21.4
Oakland	44	44	51	53	72	85	18.4	17.4	19.7	19.9	26.4	30.5
Omaha	30	35	33	49	45	60	15.1	17.2	16.0	23.6	21.4	28.3
Paterson	39	41	34	52	57	59	28.5	29.9	24.7	37.7	41.3	42.6
Philadelphia	262	296	329	324	318	381	14.0	15.6	17.3	16.9	16.5	19.6
Pittsburgh	146	166	163	215	160	197	23.7	26.5	25.8	32.8	24.2	29.6
Portland, Oreg.	40	42	52	62	64	56	14.7	14.9	18.2	21.4	21.8	18.7
Providence	56	79	61	64	77	69	23.1	32.1	24.7	25.7	30.8	27.4
Reading	20	19	19	30	30	32	18.4	17.3	17.3	27.2	27.0	28.8
Richmond	28	41	37	46	52	51	16.0	23.1	20.7	25.6	28.7	28.0
Rochester	48	54	65	62	68	58	15.6	17.2	20.5	19.4	21.1	17.8
St. Louis	164	201	172	159	205	172	20.8	25.1	21.4	19.7	25.2	21.0
St. Paul	45	42	46	57	58	69	18.2	16.5	17.8	21.8	21.9	25.7
Salt Lake City	28	42	33	30	45	58	22.3	32.3	25.0	22.3	33.0	41.8
San Antonio	30	39	40	48	64	72	16.2	19.6	19.4	22.6	29.1	31.8
San Francisco	107	105	128	166	138	119	19.4	18.3	21.8	27.7	22.5	19.0
Scranton	30	33	32	34	33	49	21.5	23.4	22.6	24.0	23.2	34.3
Seattle	52	66	69	79	90	104	15.6	19.3	19.9	22.4	25.2	28.7
Spokane	17	21	27	21	26	34	15.8	18.7	24.0	18.5	22.8	29.6
Springfield, Mass.	22	21	38	24	26	40	16.1	14.9	26.7	16.6	17.8	27.0
Syracuse	37	29	44	43	59	59	20.3	15.4	22.8	21.4	28.9	28.5
Toledo	52	67	74	108	85	106	20.1	24.9	27.1	38.6	29.9	36.8
Trenton	32	39	33	40	50	58	26.5	32.1	27.1	32.7	40.8	47.1
Washington, D. C.	80	88	98	108	124	117	17.6	19.0	20.9	22.8	25.9	24.2
Wilmington, Del.	21	21	29	40	49	33	19.3	19.4	26.9	37.2	45.7	30.9
Worcester	33	40	32	46	35	33	17.8	21.3	16.9	24.1	18.2	17.6
Yonkers	16	15	19	25	19	27	14.3	12.6	15.6	19.9	14.8	20.4
Youngstown	36	43	42	56	63	88	25.7	29.7	28.6	37.6	41.6	57.4

[1] Including the District of Columbia.
[2] 1925 only.
[3] Not in registration area.
[4] Average, 1922–1924.
[5] In 1925 State registration law declared unconstitutional; readmitted in 1928.
[6] Average, 1922–1925.
[7] Average, 1923–1925.
[8] Average, 1924–1925.

Source: Bureau of the Census, Department of Commerce.