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WM. J. HARRIS, DIRECTOR

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CENTRAL ELECTRIC LIGHT AND
POWER STATIONS
AND
STREET AND ELECTRIC RAILWAYS

1912



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LETTER OF TRANSMITTAL.

DEPARTMENT OF COMMERCE,
BUREAU OF THE CENSUS,
Washington, D. C., May 20, 1914.

SIR:

I have the honor to transmit herewith a series of tables presenting the principal data in regard to central electric light and power stations and street and electric railways, to be published as a bulletin for the census of these industries which covered the calendar year 1912.

These tables do not present in full detail all of the results of the census. It is the intention to issue later a full detailed report which will contain analytical text discussing the statistics and giving information in regard to the development of the industries. The bulletin is published at this time in order to distribute the important facts at an earlier date than they would be available if the publication were delayed until the final report is finished.

This census was taken in accordance with the provisions of the act of Congress of June 7, 1906, amendatory of section 7 of the act approved March 6, 1902, which provides that the statistics shall be collected every five years. This bulletin was prepared under the supervision of Mr. W. M. Steuart, chief statistician for manufactures.

Respectfully,



Director of the Census.

HON. WILLIAM C. REDFIELD,
Secretary of Commerce

CENTRAL ELECTRIC LIGHT AND
POWER STATIONS

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

INTRODUCTION.

Class of stations included.—The statistics for central electric stations represent all stations which furnish electrical energy for light, power, and heat; for manufacturing, mining, and other commercial enterprises; for private dwellings; and for public uses, such as lighting streets, parks, etc. The statistics for electric stations operated by electric railways are included whenever it was practicable to secure a separate report for the central station work. If a separate report for this branch of the service could not be secured, the statistics were reported on the schedule for electric railways and included with those for that industry. There were 169 stations of the latter character in 1912, the statistics for which are presented separately on page 100. No reports were required for electric stations operated by mining companies, factories, hotels, etc., which consume the current generated, nor for those operated by the Federal Government and state institutions. Neither were reports required for stations that were idle or in course of construction.

Number of central electric stations.—The number of central electric stations reported, 5,221, is considerably less than the number reported in commercial directories. This apparent discrepancy is due to the fact that in census statistics when a number of plants were operated under the same ownership it often was impracticable to secure separate reports for each, and therefore a single report was made to cover the operations of all and counted as one plant. In preparing the directories apparently each plant is counted as a separate unit. The census reports have been carefully checked with the commercial directories to see that statistics are included for all central stations named. Therefore, while the number of stations is less than the number accounted for in the directories, this difference is due to the census definition of the term "station," which may represent a single electric station or a number of stations which have been combined under the same ownership. These combinations embrace stations of varying characteristics as to primary power, generating and line equipment, and character of service. They have in common, however, the practice of disposing of electrical energy direct to consumers either for light, heat, or power, or in bulk to some other public service corporation. All or only a part of the stations embraced in a combination may have generating equipment, and, again, the combination may embrace several generating stations which

send the electrical energy over transmission lines to a single distributing center.

From year to year more or less of the central electric stations are merged with electric railways. These stations, nevertheless, are properly enumerated in the directories as separate stations, but are included in the census reports as a part of the electric railway industry.

Centralization.—The tendency toward centralization of ownership of electric stations noticeable in 1907 is even more pronounced in 1912.

Central electric stations reported at one census are sometimes combined and reported with electric railways at another census to an extent which actually destroys the comparability of the statistics in certain particulars for the individual states and, although it may not be perceptible, necessarily affects this data for the United States. The rapid development of the hydroelectric stations, many of which send current over long transmission lines, taking no cognizance of state lines, is another disturbing factor in the presentation of comparative statistics for the different states.

Isolated plants.—No reports were required for isolated electric light and power stations operated primarily for the benefit of the owner, lighting and furnishing power for his factory, hotel, or other enterprise, even though some current may have been sold. Notwithstanding such instructions, a few reports for isolated stations that disposed of surplus electrical energy for commercial purposes were taken by the special agents of the office, and the statistics for these stations are included in this report. It would seem that the isolated plant making use of its surplus power in the generation of electrical energy had some advantage over the small central electric station, and yet many of these isolated plants which dispose of electricity on a commercial basis frequently do so more as an accommodation to the community served than as a matter of profit. There are thousands of isolated stations in the United States, many of which are larger than some of the central electric stations included in this report.

Commercial and municipal stations.—Central electric stations are divided into two groups—commercial and municipal. The commercial stations are those operated by individuals, firms, and corporations as distinguished from stations operated by municipalities.

The municipal stations often extend their operations into the commercial field and sell electricity to the general consumer.

Purely electric and composite stations.—Central stations are further classified as "purely electric" and "composite." The purely electric stations embrace those engaged solely in the generation and sale of electrical energy.

The composite electric stations include those operated by companies which carry on some other industry in connection with the stations, such as the manufacture of gas, the operation of waterworks, electric railways, ice plants, and other commercial enterprises. Some of these companies have but one system of accounts, rendering it impracticable to obtain exact statistics covering the operations of the central electric station. If the outside business was merely incidental to the operations of the central station the report was accepted, with or without the other business, in accordance with the system of accounting kept by the reporting company. In cases where the outside business was of importance, careful estimates were obtained so that the statistics would represent only the operations of the electric station. In connection with this latter class of station, however, it was sometimes impracticable to satisfactorily segregate the items on the balance sheet, and in such cases this inquiry, therefore, covers both the electrical and other business.

When income was reported for steam heating, usually from surplus steam, no attempt was made to segregate this business from that of electric station work, and since the sale of electrical supplies and the wiring of buildings, etc., forms a part of the business of many companies, the income was made to include the profits on sales and the amounts received for wiring, etc. Income of this character, however, has not been included with that for electric service, but is shown separately under "All other income."

Free service included as income.—It frequently happens that no cash income is derived by municipal stations for electrical energy used for lighting streets and public buildings. In order, however, that the income shown in this report may approximate the total consumption of electrical energy by all stations, the schedule required that the income for service of this character furnished by municipal stations be estimated on the basis of what would have been charged for similar service by commercial companies in near-by localities. Commercial companies sometimes rendered free service in consideration of franchise or other privileges, and the income for this service also was estimated in like manner and included in the total.

The following described tables present the statistics:

TABLES 1, 2, AND 3.—Comparative summaries, 1912, 1907, 1902, for (1) commercial and municipal central electric stations combined, (2) commercial stations, and (3) municipal stations. These three tables are alike in details and embrace number of stations, income, expenses, number of persons employed, primary power, dynamo capacity, output of stations in kilowatt hours, estimated number of lamps wired for service, and number and horsepower of stationary motors served.

The totals for the several items are fairly comparable, except for the total expenses. Under expenses in 1912 are included charges for depreciation and for sinking fund which were not called for at prior censuses. The totals for these two items for all central stations were \$18,843,863 and \$1,654,035, respectively. Interest on bonds and mortgages included with the total expenses in 1912 was not so reported at prior censuses, and in order that the totals be made as nearly comparable as possible the amount reported for interest on bonds (\$27,991,762), which was shown with capitalization in 1907, and \$12,623,545 in 1902 have been included with the expenses for those years in the tables for this report.

The relative importance of the commercial and municipal stations for 1912, 1907, and 1902 are presented in the following statement:

	PER CENT OF TOTAL.					
	Commercial.			Municipal.		
	1912	1907	1902	1912	1907	1902
Number of stations.....	70.1	73.4	77.5	20.9	26.6	22.5
Total income.....	92.3	92.0	91.9	7.7	8.0	8.1
Light, heat, and power, including free service.....	92.1	92.0	91.9	7.9	8.0	8.1
All other sources.....	96.3	93.4	91.5	3.7	6.6	8.5
Total expenses, including salaries and wages.....	92.8	92.3	92.3	7.2	7.7	7.7
Total number of persons employed.....	90.0	88.3	88.7	10.0	11.7	11.3
Total horsepower.....	92.6	92.2	91.3	7.4	7.8	8.7
Steam engines and steam turbines.....	91.8	89.4	89.4	8.2	10.6	10.6
Water wheels.....	94.7	97.8	97.4	5.3	2.2	2.6
Gas and oil engines.....	79.8	89.1	92.1	20.2	10.9	7.9
Kilowatt capacity of dynamos.....	92.8	92.3	90.6	7.2	7.7	9.4
Output of stations, kilowatt hours.....	95.3	95.1	92.2	4.7	4.9	7.8
Estimated number of lamps wired for service:						
Arc.....	81.8	85.2	86.8	18.2	14.8	13.2
Incandescent and other varieties..	90.8	90.2	91.3	9.2	9.8	8.7
Stationary motors served:						
Number.....	95.0	97.3	98.1	5.0	2.7	1.9
Horsepower capacity.....	96.0	98.1	99.2	4.0	1.9	0.8

TABLE 4.—*Number of municipal central electric stations and increase, by geographic divisions: 1907 to 1912.*—This table shows that, since 1907, 301 new municipal stations have been established, 106 have changed their organization from commercial to municipal, and 80 from municipal to commercial stations, while 17 municipal stations have gone out of business or were not in operation in 1912. This has caused a net increase of 310 municipal stations during the five-year period.

TABLE 5.—*Commercial electric stations, by character of ownership: 1912 and 1907.*—This table gives the income, expenses, number of persons employed, primary power, dynamo capacity, output of stations in kilowatt hours, estimated number of lamps wired for service, for each of three forms of ownership—individual, firm, and corporation.

Individual and firm ownership combined represented practically one-fourth of the total number of stations, and yet these two classes of ownership together reported in 1912 less than 2 per cent of the total income, primary horsepower, kilowatt capacity of dynamos, and output of stations. With the single exception of gas and oil engines the proportions for all items contained in the table were greater for corporations in 1912 than in 1907.

TABLE 6.—*Comparative summary—Central electric stations and gas plants: 1912, 1907, and 1902.*—This table shows the number of stations or plants, cost of construction and equipment, income, and number of persons employed. It is impossible to present statistics for the two industries for the same years, since those for gas were taken in connection with the census of manufactures for 1899, 1904, and 1909, while data for the central electric stations was secured for 1902, 1907, and 1912. Since the manufacture of gas for illuminating, heating, or power comes into direct competition with the sale of electricity by the central electric stations a comparison of the two industries is of considerable interest. The table fails to show the real importance of these industries, because of the absence of statistics for the isolated plants. The number and importance of such plants, however, in the gas industry probably are insignificant as compared with those in the electrical industry.

TABLE 7.—*Central electric stations and electric railways—Number, kind, and horsepower of primary power machines: 1912, 1907, and 1902.*—This table shows the total number and horsepower of steam engines, steam turbines, gas and oil engines, and water wheels and turbines as reported for the two branches of the electrical industry.

In 1912, 67.2 per cent of the total primary horsepower was reported by the central electric stations, as compared with 57.6 per cent in 1902. Both the actual and the percentage of increase from 1902 to 1912 was much greater for the central stations than for electric railways. Of the several kinds of power, the proportion reported by the electric stations in 1912 was as follows: Steam, 60.9 per cent; gas and oil, 82.1 per cent; and water, 84 per cent.

TABLE 8.—*Commercial and municipal central electric stations—Number, kind, and horsepower of primary power machines: 1912, 1907, and 1902.*—Of the total primary power more than nine-tenths was reported by the commercial stations in 1902 and 1912. The actual increases in the total for each kind of primary power was greater for commercial stations, but the percentages of increase for gas and oil engines and water wheels was the greater for municipal stations.

TABLE 9.—*Central stations and electric railways—Kilowatt capacity of dynamos: 1912, 1907, and 1902.*—This table gives the number and kind, as well as the kilowatt capacity, of the dynamos installed for service as reported for these two branches of the electrical industry. Of the total dynamo capacity the central stations show the larger percentage of increase and their proportion of the total was 67.2 per cent in 1912, as compared with 57.4 per cent in 1902. The most noticeable feature of this table is in the growth and relative importance of the alternating current dynamos. Of the total kilowatt capacity of the dynamos in 1902 the alternating current machines reported 43.1 per cent and the direct current machines

56.9 per cent, while in 1912 the proportions were 83.7 per cent and 16.3 per cent, respectively.

TABLE 10.—*Commercial and municipal central electric stations—Number, kind, and kilowatt capacity of dynamos: 1912, 1907, and 1902.*—Of the total dynamo capacity more than nine-tenths was reported by the commercial stations in 1912 and 1902. This proportion applies both to alternating and to direct current.

Of the total dynamo capacity in 1902 the alternating current machines represented 60.7 per cent, while in 1912 their proportion had increased to 90.8 per cent.

TABLE 11.—*Central electric stations and electric railways—Output of generating stations: 1912, 1907, and 1902.*—This table gives the total kilowatt hour output of these two classes of stations, and also for commercial and municipal central electric stations, respectively. A considerable gain during the decade is shown in the proportion of the total output reported by the central electric stations, which increased from slightly more than one-half of the total in 1902 to nearly two-thirds in 1912.

TABLE 12.—*Number of commercial and municipal central electric stations having no generating equipment, by geographic divisions: 1912.*—Not all of the stations that reported dynamos made use of them during the census year, no doubt finding it more advantageous to purchase the electrical energy. The growth in the tendency to purchase electric current is indicated by the fact that in 1912, of the 5,221 stations reporting, there were 507, or 9.7 per cent, which had no generators, while in 1907, of a total of 4,714 stations, there were 227, or 4.8 per cent.

TABLE 13.—*Central electric stations and stations operated in connection with electric railways—Line equipment: 1912, 1907, and 1902.*—This table gives the estimated number of arc, incandescent, and other varieties of lamps wired for service, and the number and horsepower of stationary motors served and meters on consumption circuits, for 1912, 1907, and 1902. Partly because of the change from the flat rate to the meter system, partly because of the lack of a uniform system of accounting for these units by central stations, and partly because of the introduction of new types and the increasing of power of incandescent lamps, it was impossible to secure data representing the actual number of lamps on any uniform basis. The most noticeable feature of this table is the large increase—335.7 per cent during the decade 1902–1912—in the number of incandescent lamps and the small gain, 33.7 per cent, in the number of arc lamps. In fact there was an actual decrease in the number of arc lamps reported between 1907 and 1912. Practically nine-tenths of the lamps both in 1912 and 1902 were reported by the central stations, there being very little change in the relative number reported by these stations and the electric railways during the decade.

TABLE 14.—*Commercial and municipal central electric stations—Line equipment: 1912, 1907, and 1902.*—This table gives the estimated number of arc, incandescent, and other varieties of lamps wired for service, the number and horsepower of stationary motors served, number of meters on consumption circuits, and the number of customers served. For the decade 1902–1912 there was a general increase in the proportion of lamps, stationary motors, and meters reported by the municipal stations. The number of customers served was not reported for such stations in 1902, but these stations show a slight decrease in their proportion for the five-year period 1907–1912.

TABLE 15.—*Comparative summary—Central electric stations and electric railways—Primary power, dynamo capacity, and output of stations, by geographic divisions and states: 1907 and 1912.*—This table gives the number and horsepower of the primary power units, the capacity of the dynamos, and output of stations for both central stations and electric railways. The figures therefore represent the total equipment employed in the generation of electricity for power, light, heat, etc. Such a combination of the statistics for the two branches of the industry is necessary because of the constant changes in the extent to which railway companies engage in central station work. Central stations reported as such at one census before the next enumeration may have been absorbed by some railway company and be reported as a part of its system. Therefore a comparison of the statistics reported for either branch of the industry is apt to lead to erroneous conclusions. For example, the statistics for the central electric stations in the state of Washington for 1912 show a decrease in dynamo capacity and output as compared with 1907. This is due entirely to the fact that the report for electric railways in 1912 includes a number of important companies that in 1907 were reported as central stations. A combination of the totals for the two industries at both censuses shows that there was a great increase in the electrical equipment and output during the five-year period.

Table 15 shows that the horsepower of the primary units in central stations and electric railways increased by 4,575,688 horsepower, or 69.1 per cent, during the five years ending with 1912, the capacity of the dynamos by 3,210,114 kilowatts, or 72.4 per cent, and the output of stations by 6,964,255,177 kilowatt hours, or 65.6 per cent.

TABLE 16.—*Commercial companies—Capital stock, funded debt, and dividends: 1912, 1907, and 1902.*—As already noted, it was sometimes impracticable to separately report the capital for the central electric station from that involved in other enterprises, and there is also a considerable amount of capital included by some companies which represents dams, canals, lands, riparian rights, franchises, etc., not all of which pertains exclusively to central electric station work.

TABLE 17.—*Summary for all central electric stations and hydroelectric stations reporting water power of 1,000 horsepower or more: 1912.*—This table gives certain statistics for the hydroelectric stations having water power of at least 1,000 horsepower. The table also shows the percentage that the totals for the hydroelectric stations are of the totals for all stations. While the hydroelectric stations included in this table form only 4.3 per cent of the total number of central electric stations, they reported 42.2 per cent of the total horsepower, including 92.6 per cent of the water power, 38 per cent of the dynamo capacity, 50.8 per cent of the output of stations, and 24.1 per cent of the total income. Detailed statistics for these stations are presented in Table 18.

TABLE 18.—*Hydroelectric stations reporting water power of 1,000 horsepower or more, by geographic divisions and states: 1912.*—This table presents, for central stations reporting 1,000 or more water horsepower, cost of construction and equipment; income; number of persons employed; horsepower of steam engines, gas and oil engines, and water wheels; kilowatt capacity of dynamos; output of stations in kilowatt hours; and line equipment, such as the number of arc, incandescent, and other varieties of lamps, and number and horsepower of stationary motors served with electrical energy.

TABLE 19.—*Commercial and municipal central electric stations—Comparative summary, by geographic divisions and states: 1912, 1907, and 1902.*

TABLES 20 AND 21.—*Balance sheet—Assets and liabilities: 1912.*—The balance sheet is prepared to present the assets and liabilities of the commercial and municipal stations, respectively, as they existed at the close of the year covered by their reports. The totals for the companies in the several divisions and states which showed a deficit are given under "Profit and loss deficit" and correspondingly for those showing a surplus, under "Profit and loss surplus." The difference between these two totals is the "Net surplus," a result which is shown for each state and division. The item of "Sundries" under "Assets" includes advance payments, organization expenses, and intangible assets, and among those under "Liabilities" are bad debts and accrued accounts.

In the preparation of the balance sheet for municipal stations there are a number of inquiries, such as capital stock, which are not applicable to the municipal stations, and this fact may have caused confusion in the preparation of some of the details.

TABLES 22, 23, AND 32.—*Income.*—These tables present for the three classes of stations—(22) for commercial and municipal stations combined, (23) for commercial stations, and (32) for municipal stations, respectively—the details of income for electric service and from other sources. Notwithstanding a considerable income from outside sources, electric service represented about 95 per cent of the total income as presented in each of the three tables in 1912.

TABLES 24, 28, AND 33.—*Expenses*.—These tables present detailed statistics for 1912 of expenses—(24) for commercial and municipal stations combined, (28) for commercial stations, and (33) for municipal stations. These details represent the expenses for fuel, electric current purchased, rent of conduits and water privileges, supplies and materials, salaries and wages, and miscellaneous expenses not elsewhere enumerated, taxes, interest, damages, insurance, charges for depreciation, and charges for sinking fund.

TABLES 25, 29, AND 34.—*Primary power*.—These tables present detailed statistics for 1912 of primary power equipment—(25) for commercial and municipal stations combined, (29) for commercial stations, and (34) for municipal stations. The statistics for three classes of primary power—steam, water, and gas and oil—are presented in several groups according to the horsepower capacity of the machines, except for gas and oil engines, for which, since they are mostly of under 500 horsepower, only the total is given.

TABLES 26, 30, AND 35.—*Generating and subsidiary equipment*.—These tables present detailed statistics for

1912 of the generating equipment—(26) for commercial and municipal stations combined, (30) for commercial stations, and (35) for municipal stations. The tables give the number and kilowatt capacity of three kinds of dynamos, and the subsidiary equipment, number and kilowatt capacity of rotary converters and motor generators, number and kilowatt capacity of boosters and number of storage battery cells, number and kilowatt capacity of transformers and of auxiliary generators, and output of stations in kilowatt hours.

TABLES 27, 31, AND 36.—*Line equipment*.—These tables present detailed statistics for 1912 of the line equipment—(27) for commercial and municipal stations combined, (31) for commercial stations, and (36) for municipal stations.

The tables give the number of arc and incandescent lamps used for street lighting, for use in public buildings, and for commercial uses, the number and horsepower of stationary motors, number of meters on consumption circuits, and the number of customers served.

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 1.—COMMERCIAL AND MUNICIPAL CENTRAL ELECTRIC STATIONS: 1912, 1907, AND 1902.

	1912	1907	1902	Per cent of increase: 1902-1912
Number of stations ¹	5,221	4,714	3,820	44.2
Commercial.....	3,659	3,462	2,805	30.4
Municipal.....	1,562	1,252	815	91.7
Total income ²	\$302,115,599	\$175,642,338	\$85,700,605	252.5
Light, heat, and power, including free service.....	\$286,980,858	\$169,614,691	\$84,186,605	240.9
All other sources.....	\$15,134,741	\$6,027,647	\$1,514,000	899.7
Total expenses, including salaries and wages ³	\$234,419,478	\$134,196,911	\$68,081,375	244.3
Total number of persons employed.....	79,335	47,632	30,326	161.6
Total horsepower.....	7,528,648	4,098,188	1,845,048	308.0
Steam engines and steam turbines ⁴ —				
Number.....	7,844	8,054	6,295	24.6
Horsepower.....	4,940,532	2,693,273	1,394,395	254.7
Water wheels—				
Number.....	2,933	2,481	1,390	111.0
Horsepower.....	2,471,081	1,349,087	438,472	463.6
Gas and oil engines—				
Number.....	1,116	463	165	576.4
Horsepower.....	111,035	55,828	12,181	811.5
Kilowatt capacity of dynamos.....	5,134,689	2,709,225	1,212,235	323.6
Output of stations, kilowatt hours.....	11,532,968,006	5,862,276,737	2,507,051,115	360.0
Estimated number of lamps wired for service:				
Arc.....	505,395	582,795	385,698	31.0
Incandescent and other varieties.....	76,507,142	41,876,332	18,194,044	320.5
Stationary motors served:				
Number.....	435,473	167,184	101,064	330.9
Horsepower capacity.....	4,130,619	1,640,026	438,005	843.1

¹ The term "station" as here used may represent a single electric station or a number of stations operated under the same ownership.
² Exclusive of \$36,500,030 in 1912, \$20,093,302 in 1907, and \$7,703,574 in 1902, reported by street and electric railway companies as income from sale of electric current for light or power or from sale of current to other public service corporations.
³ In addition to salaries and wages, includes the cost of supplies and materials used for ordinary repairs and replacement, advertising, fuel, mechanical power, electrical energy purchased, taxes, and all other expenses incident to operation and maintenance, and for 1912 charges for depreciation and charges for sinking fund.
⁴ Includes auxiliary engines.
⁵ Includes, for purposes of comparison, 7,082 arc and 267,997 incandescent lamps reported by the electric companies to light their own properties. Lamps used for such service were included in the total number reported in 1912.

TABLE 2.—COMMERCIAL CENTRAL ELECTRIC STATIONS: 1912, 1907, AND 1902.

	1912	1907	1902	Per cent of increase: 1902-1912
Number of stations.....	3,659	3,462	2,805	30.4
Total income.....	\$278,896,610	\$161,630,339	\$78,735,500	254.2
Light, heat, and power, including free service.....	\$264,317,150	\$156,000,257	\$77,349,749	241.7
All other sources.....	\$14,579,460	\$5,630,082	\$1,385,751	921.1
Total expenses, including salaries and wages ¹	\$217,502,313	\$123,880,291	\$62,835,388	246.1
Total number of persons employed.....	71,395	42,066	26,909	165.3
Total horsepower.....	6,969,320	3,776,837	1,685,020	313.6
Steam engines and steam turbines ² —				
Number.....	5,820	6,268	5,199	11.9
Horsepower.....	4,530,866	2,408,351	1,246,542	264.2
Water wheels—				
Number.....	2,664	2,328	1,308	103.7
Horsepower.....	2,340,820	1,318,740	427,254	447.9
Gas and oil engines—				
Number.....	833	385	147	466.7
Horsepower.....	88,634	49,746	11,224	689.7
Kilowatt capacity of dynamos.....	4,766,012	2,500,209	1,098,855	333.7
Output of stations, kilowatt hours.....	10,995,436,276	5,572,813,949	2,311,146,676	375.8
Estimated number of lamps wired for service:				
Arc.....	413,544	379,260	334,903	23.5
Incandescent and other varieties.....	69,449,293	37,786,435	16,616,593	318.0
Stationary motors served:				
Number.....	413,578	162,677	99,102	317.3
Horsepower capacity.....	3,966,328	1,617,337	434,681	812.5

¹ In addition to salaries and wages, includes the cost of supplies and materials used for ordinary repairs and replacement, advertising, fuel, mechanical power, electrical energy purchased, taxes, and all other expenses incident to operation and maintenance, and for 1912 charges for depreciation and charges for sinking fund.
² Includes auxiliary engines.
³ Includes, for purposes of comparison, 6,487 arc and 239,418 incandescent lamps reported by the electric companies to light their own properties. Lamps used for such service were included in the total number reported in 1912.

TABLE 3.—MUNICIPAL CENTRAL ELECTRIC STATIONS: 1912, 1907, AND 1902.

	1912	1907	1902	Per cent of increase: 1902-1912
Number of stations.....	1,562	1,252	815	91.7
Total income.....	\$23,218,989	\$14,011,999	\$6,965,105	233.4
Light, heat, and power, including free service.....	\$22,663,708	\$13,614,434	\$6,836,856	231.5
All other sources.....	\$555,281	\$397,565	\$128,249	333.0
Total expenses, including salaries and wages ¹	\$16,917,165	\$10,316,620	\$5,245,987	222.5
Total number of persons employed.....	7,940	5,566	3,417	132.4
Total horsepower.....	559,328	321,351	160,028	249.5
Steam engines and steam turbines ² —				
Number.....	2,024	1,786	1,096	84.7
Horsepower.....	406,666	284,922	147,853	175.0
Water wheels—				
Number.....	269	153	82	228.0
Horsepower.....	130,261	30,347	11,218	1,061.2
Gas and oil engines—				
Number.....	283	78	18	1,472.2
Horsepower.....	22,401	6,082	957	2,240.8
Kilowatt capacity of dynamos.....	368,677	209,016	113,380	225.2
Output of stations, kilowatt hours.....	537,526,730	289,462,788	195,904,439	174.4
Estimated number of lamps wired for service:				
Arc.....	91,851	83,535	50,795	80.8
Incandescent and other varieties.....	7,057,849	4,089,897	1,577,451	347.4
Stationary motors served:				
Number.....	21,895	4,507	1,962	1,016.0
Horsepower capacity.....	164,291	31,689	3,324	4,842.6

¹ In addition to salaries and wages, includes the cost of supplies and materials used for ordinary repairs and replacement, advertising, fuel, mechanical power, electrical energy purchased, taxes, and all other expenses incident to operation and maintenance, and for 1912 charges for depreciation and charges for sinking fund.
² Includes auxiliary engines.
³ Includes, for purposes of comparison, 595 arc and 28,579 incandescent lamps reported by the electric companies to light their own properties. Lamps used for such service were included in the total number reported in 1912.

TABLE 4.—NUMBER OF MUNICIPAL CENTRAL ELECTRIC STATIONS, INCREASE BY GEOGRAPHIC DIVISIONS: 1907 TO 1912.

GEOGRAPHIC DIVISION.	NUMBER OF STATIONS.			New stations since 1907.	From commercial stations in 1907 to municipal in 1912.	From municipal stations in 1907 to commercial in 1912.	Active municipal stations in 1907 that were out of business or not operated in 1912.
	1912	1907	Actual increase.				
United States.....	1,562	1,252	310	301	106	80	17
New England.....	57	51	6	6	1	1	.....
Middle Atlantic.....	102	90	3	10	1	7	1
East North Central.....	474	453	21	34	26	30	19
West North Central.....	399	274	125	109	31	13	2
South Atlantic.....	204	158	46	50	14	14	4
East South Central.....	128	109	19	18	6	5	.....
West South Central.....	122	57	65	51	16	3	1
Mountain.....	39	20	19	15	5	1	.....
Pacific.....	37	31	6	8	4	6	.....

¹ Includes 4 municipal stations that since 1907 have been merged with other municipal stations.

TABLE 10.—COMMERCIAL AND MUNICIPAL CENTRAL ELECTRIC STATIONS—NUMBER, KIND, AND KILOWATT CAPACITY OF DYNAMOS: 1912, 1907, AND 1902.

	TOTAL.		KIND OF DYNAMOS.					
			Direct current, constant voltage.		Direct current, constant amperage.		Alternating and polyphase current.	
	Number.	Kilowatt capacity.	Number.	Kilowatt capacity.	Number.	Kilowatt capacity.	Number.	Kilowatt capacity.
Total:								
1912.....	12,597	5,134,689	3,401	429,662	745	43,828	8,451	4,661,199
1907.....	12,173	2,709,225	3,680	406,460	1,685	80,992	6,808	2,221,773
1902.....	12,484	1,212,235	3,823	330,065	3,539	145,866	5,122	736,304
Commercial stations:								
1912.....	9,837	4,766,012	2,821	398,046	518	30,880	6,498	4,337,086
1907.....	9,778	2,500,209	3,169	379,706	1,246	61,753	5,363	2,058,750
1902.....	10,662	1,098,855	3,405	312,509	2,957	117,695	4,300	668,651
Municipal stations:								
1912.....	2,760	368,677	580	31,616	227	12,948	1,953	324,113
1907.....	2,395	209,016	511	20,754	439	19,239	1,445	163,023
1902.....	1,822	113,380	418	17,556	582	28,171	822	67,653
PER CENT OF INCREASE. ¹								
Total:								
1902 to 1912.....	0.9	323.6	-11.0	30.2	-73.9	-70.0	65.0	533.1
1907 to 1912.....	3.5	89.5	-7.6	5.7	-55.8	-45.9	24.1	109.8
1902 to 1907.....	-2.5	123.5	-3.7	23.1	-52.4	-44.5	32.9	201.7
Commercial stations:								
1902 to 1912.....	-7.7	333.7	-17.2	27.4	-82.5	-73.8	51.1	548.6
1907 to 1912.....	0.6	90.6	-11.0	4.8	-58.4	-50.0	21.2	110.7
1902 to 1907.....	-8.3	127.5	-6.9	21.5	-57.9	-47.5	24.7	207.9
Municipal stations:								
1902 to 1912.....	51.5	225.2	38.8	80.1	-61.0	-54.0	137.6	379.1
1907 to 1912.....	15.2	76.4	13.5	18.2	-48.3	-32.7	35.2	98.8
1902 to 1907.....	31.4	84.3	22.2	52.4	-24.6	-31.7	75.8	141.0

¹ A minus sign (-) denotes decrease.

TABLE 11.—CENTRAL ELECTRIC STATIONS AND ELECTRIC RAILWAYS—OUTPUT OF GENERATING STATIONS: 1912, 1907, AND 1902.

	KILOWATT HOURS.		
	1912	1907	1902
Total.....	17,585,662,014	10,621,406,837	4,768,535,512
Central stations, total.....	11,532,963,000	5,862,276,737	2,507,051,115
Commercial.....	10,995,436,276	5,572,813,949	2,311,146,676
Municipal.....	537,526,730	289,462,788	195,904,439
Electric railways.....	6,052,699,008	4,759,130,100	2,261,484,397
PER CENT OF INCREASE.			
	1902-1912	1907-1912	1902-1907
Total.....	268.8	65.6	122.7
Central stations, total.....	360.0	96.7	133.8
Commercial.....	375.8	97.3	141.1
Municipal.....	174.4	85.7	47.8
Electric railways.....	167.6	27.2	110.4

TABLE 12.—NUMBER OF COMMERCIAL AND MUNICIPAL CENTRAL ELECTRIC STATIONS HAVING NO GENERATING EQUIPMENT, BY GEOGRAPHIC DIVISIONS: 1912.

DIVISION.	TOTAL.		NUMBER OF STATIONS.			
	All stations.	No generating equipment.	Commercial.		Municipal.	
			Total.	No generating equipment.	Total.	No generating equipment.
United States.....	5,221	507	3,659	394	1,562	113
New England.....	368	77	311	61	57	16
Middle Atlantic.....	669	99	567	92	102	7
East North Central.....	1,260	105	786	81	474	24
West North Central.....	1,077	58	678	38	399	20
South Atlantic.....	512	54	308	31	204	23
East South Central.....	330	8	202	6	128	2
West South Central.....	507	9	385	7	122	2
Mountain.....	250	34	211	28	39	6
Pacific.....	248	63	211	50	37	13

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 13.—CENTRAL ELECTRIC STATIONS AND STATIONS OPERATED IN CONNECTION WITH ELECTRIC RAILWAYS—LINE EQUIPMENT: 1912, 1907, AND 1902.

[The statistics for street railways in the following table are for central electric stations operated in connection with electric railways for which complete separate reports could not be secured, hence the full statistics for them have been included with those for electric railways. The statistics shown for these stations represent only the electric light and power departments.]

	ESTIMATED NUMBER OF LAMPS WIRED FOR SERVICE.									STATIONARY MOTORS SERVED.		Number of meters on consumption circuits.
	Arc.			Incandescent.			Other varieties—Nernst, vapor, etc.			Num-ber.	Horse-power.	
	Total.	Public.	Com-mercial.	Total.	Public.	Commer-cial.	Total.	Public.	Commer-cial.			
Total:												
1912.....	560,981	388,592	172,389	85,557,819	2,152,612	83,405,207	59,213	1,743	57,470	435,473	4,130,619	3,617,189
1907.....	635,815	318,819	316,996	45,991,836	866,851	45,124,985	190,979	6,090	184,889	187,652	1,807,049	1,807,803
1902.....	419,561	220,403	190,158	19,636,729	474,686	19,162,043	(¹)	(¹)	(¹)	111,113	478,093	639,280
Central stations:												
1912.....	505,305	351,858	153,537	76,484,096	2,033,831	74,450,265	23,046	912	22,134	435,473	4,130,619	3,617,189
1907.....	555,713	289,301	266,322	41,445,997	808,693	40,637,304	162,338	5,716	156,622	167,184	1,649,026	1,683,917
1902.....	385,698	211,725	173,973	18,194,044	455,660	17,738,384	(¹)	(¹)	(¹)	101,064	438,005	582,689
Electric railways:												
1912.....	55,586	36,734	18,852	9,073,723	118,781	8,954,942	36,167	831	35,336	(²)	(²)	(²)
1907.....	80,102	29,428	50,674	4,545,839	58,158	4,487,681	28,641	374	28,267	20,468	158,923	213,886
1902.....	33,863	17,678	16,185	1,442,685	19,026	1,423,659	(¹)	(¹)	(¹)	10,049	35,688	56,601
	PER CENT OF INCREASE. ³											
Total:												
1902 to 1912.....	33.7	69.4	-9.3	335.7	353.5	335.3				291.9	772.0	465.8
1907 to 1912.....	-11.8	21.9	-45.6	86.0	148.3	84.8	-69.0	-71.4	-68.9	132.1	128.5	90.6
1902 to 1907.....	51.5	30.0	66.7	134.2	82.6	135.5				68.9	281.7	196.9
Central stations:												
1902 to 1912.....	31.0	66.2	-11.7	320.4	346.3	319.7				330.9	843.1	520.8
1907 to 1912.....	-9.1	21.6	-42.3	84.5	151.5	83.2	-85.8	-84.0	-85.9	160.5	150.5	114.8
1902 to 1907.....	44.1	36.7	-53.1	127.8	77.5	129.1				65.4	276.5	189.0
Electric railways:												
1902 to 1912.....	64.1	107.8	16.5	528.9	524.3	529.0						
1907 to 1912.....	-30.6	24.8	62.8	99.6	104.2	99.5	26.3	122.2	25.0			
1902 to 1907.....	130.5	66.5	213.1	215.1	205.7	215.2				103.7	345.3	277.9

¹ Not reported separately.

² Not reported.

³ A minus sign (-) denotes decrease.

TABLE 14.—COMMERCIAL AND MUNICIPAL CENTRAL ELECTRIC STATIONS—LINE EQUIPMENT: 1912, 1907, AND 1902.

	ARC LAMPS.			INCANDESCENT LAMPS.			OTHER VARIETIES—NERNST, VAPOR, ETC.			STATIONARY MOTORS SERVED.		Number of meters on consumption circuits.	Number of customers.
	Total.	Public.	Com-mercial.	Total.	Public.	Commer-cial.	Total.	Public.	Commer-cial.	Num-ber.	Horse-power.		
Total:													
1912.....	505,395	351,858	153,537	76,484,096	2,033,831	74,450,265	23,046	912	22,134	435,473	4,130,619	3,617,189	
1907.....	555,713	289,301	266,322	41,445,997	808,693	40,637,304	162,338	5,716	156,622	167,184	1,649,026	1,683,917	
1902.....	385,698	211,725	173,973	18,194,044	455,660	17,738,384	(¹)	(¹)	(¹)	101,064	438,005	582,689	
Commercial stations:													
1912.....	413,544	267,113	146,431	69,428,356	1,602,855	67,825,501	20,937	491	20,446	413,578	3,966,328	3,146,998	
1907.....	472,773	216,309	256,464	37,393,549	638,456	36,755,093	153,468	4,594	148,884	162,677	1,617,337	1,663,354	
1902.....	334,903	166,723	168,180	16,616,593	372,740	16,243,853	(¹)	(¹)	(¹)	99,102	434,681	626,011	
Municipal stations:													
1912.....	91,851	84,745	7,106	7,055,740	430,976	6,624,764	2,109	421	1,688	21,895	164,291	470,191	
1907.....	82,940	73,082	9,858	4,052,448	170,237	3,882,211	8,870	1,132	7,738	4,507	31,689	215,154	
1902.....	50,795	45,002	5,793	1,577,451	82,920	1,494,531	(¹)	(¹)	(¹)	1,962	3,324	56,678	
	PER CENT OF INCREASE. ³												
Total:													
1902 to 1912.....	31.0	66.2	-11.7	320.4	346.3	319.7				330.9	843.5	520.8	
1907 to 1912.....	-9.1	21.6	-42.3	84.5	151.5	83.2	-85.8	-84.0	-85.9	160.5	150.5	114.8	
1902 to 1907.....	44.1	36.7	-53.1	127.8	77.5	129.1				65.4	276.5	189.0	
Commercial stations:													
1902 to 1912.....	23.5	60.2	-12.9	317.8	330.0	317.5				317.3	812.5	498.3	
1907 to 1912.....	-12.5	23.5	-42.9	85.7	151.1	84.5	-36.4	-89.3	-37.3	154.2	145.2	114.3	
1902 to 1907.....	41.2	29.7	-52.5	125.0	71.3	126.3				64.2	272.1	179.2	
Municipal stations:													
1902 to 1912.....	80.8	88.3	22.7	347.3	419.7	343.3				1,016.0	4,842.6	729.6	
1907 to 1912.....	10.7	16.0	-27.9	74.1	153.2	70.6	-76.2	-62.8	-78.2	385.8	418.4	118.5	
1902 to 1907.....	63.3	62.4	70.2	156.9	105.3	159.8				129.7	853.3	279.6	

¹ Not reported separately.

² Not reported.

³ A minus sign (-) denotes decrease.

TABLE 15.—COMPARATIVE SUMMARY—CENTRAL ELECTRIC STATIONS AND ELECTRIC RAILWAYS—PRIMARY POWER, DYNAMO CAPACITY, AND OUTPUT OF STATIONS, BY GEOGRAPHIC DIVISIONS AND STATES: 1912 AND 1907—Contd.

DIVISION AND STATE.	Census.	PRIMARY POWER.						KILOWATT CAPACITY OF DYNAMOS.			Total output of stations, kilowatt hours.	
		Total horse-power.	Steam engines and steam turbines.		Gas and oil engines.		Water wheels.		Total.	Direct current.		Alternating current.
			Num-ber.	Horse-power.	Num-ber.	Horse-power.	Num-ber.	Horse-power.				
SOUTH ATLANTIC:												
Delaware.....	1912	24,901	42	23,825	3	250	8	826	16,095	4,975	11,120	25,840,778
	1907	14,800	47	14,515			5	285	12,408	7,767	4,641	12,238,738
Maryland.....	1912	125,638	112	121,592	8	823	25	3,223	91,364	16,077	75,287	36,758,346
	1907	118,631	150	117,054	5	130	13	1,347	74,708	17,963	56,745	153,451,170
District of Columbia.....	1912	77,230	24	77,230					57,058	8,458	48,600	116,923,803
	1907	38,290	42	38,290					27,727	8,627	19,100	66,006,336
Virginia.....	1912	160,489	125	93,905	3	185	92	66,399	116,496	12,040	104,456	145,024,055
	1907	82,482	138	55,046	5	960	69	26,476	55,951	21,112	34,839	94,939,273
West Virginia.....	1912	68,925	132	59,804	24	3,085	14	6,036	49,767	11,980	37,787	102,198,976
	1907	42,891	118	37,989	12	1,275	11	3,627	31,294	9,869	21,425	64,729,936
North Carolina.....	1912	93,713	118	31,882	5	1,680	76	60,151	61,389	4,050	57,330	88,701,305
	1907	33,103	116	20,296			52	12,812	23,746	4,317	19,429	33,969,170
South Carolina.....	1912	230,606	84	51,596	3	455	88	178,555	140,986	4,878	136,108	365,575,958
	1907	103,731	86	20,111	1	150	58	83,470	64,663	3,373	61,290	96,312,449
Georgia.....	1912	170,832	195	84,625	5	3,720	71	82,487	112,841	9,976	102,865	142,082,277
	1907	93,380	155	48,108	2	3,140	50	42,132	60,438	11,494	48,944	94,637,017
Florida.....	1912	51,704	113	43,429	9	1,175	11	7,100	36,329	7,173	29,156	50,922,414
	1907	25,283	98	23,018	6	865	8	1,400	16,260	5,242	11,018	27,457,727
EAST SOUTH CENTRAL:												
Kentucky.....	1912	108,227	188	107,651	6	576			69,867	16,149	53,718	149,408,553
	1907	71,409	192	71,394	1	15			48,210	17,429	30,781	90,658,286
Tennessee.....	1912	122,361	164	94,166	4	445	32	27,750	85,690	15,213	70,477	157,305,115
	1907	68,385	165	67,145			14	1,240	46,718	11,922	34,796	98,498,291
Alabama.....	1912	83,403	122	73,504	2	19	15	9,880	57,277	13,967	43,310	131,557,061
	1907	52,619	114	45,592	1	20	15	7,007	36,024	11,542	24,482	73,954,853
Mississippi.....	1912	40,347	142	40,307	1	40			28,513	2,957	25,556	37,879,158
	1907	26,386	132	26,361	1	25			16,784	3,031	13,753	30,315,616
WEST SOUTH CENTRAL:												
Arkansas.....	1912	42,604	134	39,343	5	221	10	3,040	30,442	6,610	23,832	42,625,641
	1907	24,494	125	24,182	1	12	1	300	17,012	5,714	11,298	27,867,049
Louisiana.....	1912	70,910	118	69,920	9	990			52,059	21,372	30,687	104,591,816
	1907	66,723	171	66,303	3	420			41,678	23,865	17,813	93,441,254
Oklahoma.....	1912	63,597	204	55,196	39	6,266	7	2,135	45,931	4,895	41,036	65,217,869
	1907	24,423	117	24,223	2	200			16,999	3,420	13,579	26,993,403
Texas.....	1912	167,688	434	154,308	100	9,877	18	3,503	114,185	15,731	98,454	212,867,349
	1907	90,399	400	84,579	53	3,058	23	2,762	61,167	18,005	42,562	110,123,596
MOUNTAIN:												
Montana.....	1912	117,230	39	13,500	1	75	67	103,655	75,468	2,705	72,763	381,012,617
	1907	60,967	33	12,980			62	56,987	40,402	3,210	37,192	137,379,261
Idaho.....	1912	56,375	14	4,525			63	51,850	35,656	126	35,530	115,812,292
	1907	13,694	19	2,202			37	11,492	7,082	147	6,935	9,577,588
Wyoming.....	1912	11,596	45	10,162	1	100	11	1,334	8,212	1,077	7,135	11,580,567
	1907	5,125	34	4,360			6	765	3,208	1,003	2,205	5,499,034
Colorado.....	1912	182,536	122	100,251	1	80	72	82,205	101,360	10,241	91,119	263,111,504
	1907	104,217	164	76,457	4	300	52	27,460	66,764	14,104	52,660	165,385,823
New Mexico.....	1912	11,015	32	8,428	9	1,770	9	817	7,981	876	7,105	9,027,824
	1907	5,728	30	5,215			6	513	4,894	1,655	3,239	5,519,914
Arizona.....	1912	22,675	35	13,375			4	9,300	15,151	991	14,160	33,645,484
	1907	7,746	32	6,926	3	70	4	750	5,063	901	4,162	9,611,342
Utah.....	1912	101,874	13	27,186			74	74,688	62,835	735	62,100	121,481,552
	1907	48,140	21	3,869			55	44,271	42,117	1,597	40,520	83,876,892
Nevada.....	1912	15,420	6	2,210	8	670	13	12,540	10,513	338	10,175	44,969,772
	1907	6,980	4	235	6	485	9	6,260	5,090	60	5,030	29,621,730
PACIFIC:												
Washington.....	1912	341,701	83	71,895	3	165	107	269,641	209,913	10,808	199,105	510,822,535
	1907	109,661	114	48,553	2	90	51	61,018	94,987	12,869	82,118	233,302,190
Oregon.....	1912	155,465	72	49,829	9	334	88	105,302	71,156	5,249	65,907	228,398,346
	1907	126,815	66	24,581	6	182	72	102,052	32,667	3,957	28,710	92,880,992
California.....	1912	881,559	210	447,252	11	1,980	208	432,327	612,748	27,106	585,642	1,758,733,110
	1907	445,988	260	220,599	13	16,745	174	208,644	282,880	28,069	254,811	773,477,158

GENERAL TABLES.

TABLE 16.—COMMERCIAL COMPANIES—CAPITAL STOCK, FUNDED DEBT, AND DIVIDENDS: 1912, 1907, AND 1902.

	1912	1907	1902	PER CENT OF INCREASE.		
				1902-1912	1907-1912	1902-1907
Number of commercial companies having outstanding capitalization.....	1 2,663	2 2,516	2,049	30.0	5.8	22.8
Total capitalization outstanding.....	\$2,052,494,697	\$1,341,995,182	\$627,515,875	227.1	52.9	113.9
Capital stock.....	1,154,587,016	741,317,497	372,951,952	209.6	55.7	98.8
Common.....	977,639,057	666,003,772	349,080,281	180.1	46.8	90.8
Preferred.....	176,947,959	75,313,725	23,871,671	641.2	134.9	215.5
Dividends, amount.....	34,580,872	19,300,572	6,189,837	458.7	79.2	211.8
On common stock.....	28,602,399	16,883,812	5,560,341	414.4	69.4	203.6
On preferred stock.....	5,978,473	2,416,760	629,496	849.7	147.4	288.9
Funded debt.....	897,907,681	600,677,685	254,563,923	252.7	49.5	136.0

¹ Exclusive of the capitalization of 169 electric railways which operated electric light and power departments, 116 central electric stations not reporting stock and bonds for sundry reasons, but including 18 stations whose capitalization was reported by other stations, and 23 stations reporting bonds only.

² Exclusive of 37 companies (21 operating electric railways with capitalization included in report for street and electric railways; 9 duplications due to corporations reporting capitalization in one state and owning establishments in another state, which are reported separately in certain of the tables; and 7 not reporting capitalization for sundry reasons), but including 2 companies reporting bonds only, their capital stock not being separable from other interests.

TABLE 17.—SUMMARY FOR ALL CENTRAL ELECTRIC STATIONS AND HYDROELECTRIC STATIONS REPORTING WATER POWER OF 1,000 HORSEPOWER OR MORE: 1912.

	Total for central electric stations.	Stations reporting water power of 1,000 horsepower or more.	Per cent of total.
Number of stations.....	5,221	225	4.3
Cost of construction and equipment.....	\$2,175,678,266	\$922,954,341	42.4
Total income.....	\$302,115,599	\$72,717,582	24.1
Light, heat, and power, including free service.....	\$286,980,858	\$66,852,631	23.3
All other.....	\$15,134,741	\$5,864,951	38.8
Total expenses, including salaries and wages.....	\$234,419,478	\$56,342,064	24.0
Total number of persons employed.....	79,335	17,160	21.6
Total horsepower.....	7,528,648	3,179,244	42.2
Steam engines and steam turbines:			
Number.....	7,844	520	6.6
Horsepower.....	4,946,532	885,162	17.9
Water wheels:			
Number.....	2,933	1,552	52.9
Horsepower.....	2,471,081	2,288,396	92.6
Gas and oil engines:			
Number.....	1,116	19	1.7
Horsepower.....	111,035	5,686	5.1
Kilowatt capacity of dynamos.....	5,134,689	1,951,397	38.0
Output of stations, kilowatt hours.....	11,532,963,006	5,859,397,943	50.8
Estimated number of lamps wired for service:			
Arc.....	505,395	62,624	12.4
Incandescent and other varieties.....	76,507,142	13,403,893	17.5
Stationary motors served:			
Number.....	435,473	73,645	16.9
Horsepower capacity.....	4,130,619	1,283,769	31.1

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 18.—HYDROELECTRIC STATIONS REPORTING WATER POWER OF 1,000

1	DIVISION AND STATE.	Number of stations.	Cost of construction and equipment.	INCOME.					
				Aggregate.	Electric service.				All other income.
					Total.	Light, heat, and power.	Sale of electric current to other public service corporations.	Estimated value of free service.	
1	UNITED STATES.....	225	\$922,954,341	\$72,717,582	\$66,852,631	\$52,445,534	\$14,269,708	\$137,389	\$5,864,951
GEOGRAPHIC DIVISIONS:									
2	New England.....	40	55,612,714	7,509,541	7,000,257	5,769,650	1,179,483	51,124	509,284
3	Middle Atlantic.....	39	127,457,618	11,538,580	9,238,299	6,520,007	2,711,572	6,120	2,300,281
4	East North Central.....	29	102,470,585	12,164,623	11,179,326	8,601,917	2,570,068	6,741	985,297
5	West North Central.....	16	38,657,925	4,432,394	4,124,859	3,492,522	629,047	3,290	307,535
6	South Atlantic.....	30	55,757,645	2,990,998	2,930,024	1,578,558	1,338,186	13,280	60,974
7	East South Central.....	4	30,828,000	480,867	470,357	221,261	248,846	250	10,510
8	West South Central.....	3	539,369	70,715	69,363	69,135	.....	228	1,352
9	Mountain.....	32	164,976,643	7,665,587	7,043,061	6,108,526	903,122	31,413	622,526
10	Pacific.....	32	346,654,841	25,864,277	24,797,085	20,083,358	4,688,784	24,943	1,067,192
NEW ENGLAND:									
11	Maine.....	9	16,533,547	1,449,825	1,181,952	929,826	251,564	562	267,873
12	New Hampshire.....	7	9,444,366	1,148,253	1,053,353	603,178	450,175	.....	94,900
13	Vermont.....	11	6,863,716	678,170	657,579	583,927	23,240	50,412	20,591
14	Massachusetts.....	7	7,395,591	1,068,369	1,648,793	1,628,685	20,108	.....	19,576
15	Rhode Island and Connecticut.....	6	15,375,494	2,564,924	2,468,580	2,024,034	434,396	150	106,344
MIDDLE ATLANTIC:									
16	New York.....	30	89,409,903	9,328,380	7,124,772	5,514,488	1,605,539	4,745	2,203,608
17	Pennsylvania.....	9	38,047,715	2,210,200	2,113,527	1,006,119	1,106,033	1,375	96,673
EAST NORTH CENTRAL:									
18	Ohio and Indiana.....	5	11,986,199	1,268,196	1,239,211	963,332	274,708	1,171	23,985
19	Illinois.....	3	37,398,019	4,327,160	3,618,732	3,376,049	239,533	3,150	708,428
20	Michigan.....	13	39,441,726	5,845,270	5,606,566	4,085,583	1,518,563	2,420	238,704
21	Wisconsin.....	8	13,644,641	723,907	714,817	176,953	537,864	.....	9,180
WEST NORTH CENTRAL:									
22	Minnesota, Iowa, and Missouri.....	10	22,132,484	3,794,840	3,518,053	2,931,003	586,360	690	276,787
23	South Dakota.....	3	7,758,185	463,170	441,772	422,894	16,378	2,500	21,398
24	Kansas.....	3	8,767,256	174,384	165,034	138,625	26,309	100	9,350
SOUTH ATLANTIC:									
25	Maryland, Virginia, and West Virginia.....	9	9,666,636	417,109	415,436	364,590	40,666	10,180	1,673
26	North Carolina.....	5	8,739,185	300,377	280,682	177,527	103,155	.....	17,601
27	South Carolina.....	11	21,791,806	1,624,275	1,614,817	639,842	971,875	3,100	10,947
28	Georgia and Florida.....	5	15,560,019	649,237	619,089	396,599	222,490	.....	30,753
EAST SOUTH CENTRAL:									
29	Tennessee and Alabama.....	4	30,828,000	480,867	470,357	221,261	248,846	250	10,510
WEST SOUTH CENTRAL:									
30	Arkansas, Oklahoma, and Texas.....	3	539,369	70,715	69,363	69,135	.....	228	1,352
MOUNTAIN:									
31	Montana.....	4	62,667,126	3,265,885	2,708,869	2,633,768	74,441	660	557,016
32	Idaho.....	10	29,532,755	1,173,500	1,148,092	962,890	162,645	22,557	25,408
33	Colorado.....	10	45,044,960	1,483,697	1,455,133	1,027,904	426,208	1,021	28,564
34	Arizona and Nevada.....	3	18,485,461	681,004	675,335	643,474	31,861	.....	5,669
35	Utah.....	5	9,245,335	1,061,501	1,055,632	840,490	207,967	7,175	5,869
PACIFIC:									
36	Washington.....	6	18,193,923	2,207,308	2,146,921	2,077,130	57,440	12,351	60,387
37	Oregon.....	4	16,521,752	653,701	637,074	623,342	9,232	4,500	16,627
38	California.....	22	311,939,160	23,003,268	22,013,090	17,382,886	4,622,112	8,002	990,178

GENERAL TABLES.

HORSEPOWER OR MORE, BY GEOGRAPHIC DIVISIONS AND STATES: 1912.

Total expenses, including salaries and wages.	Total number of persons employed.	PRIMARY POWER.												1
		Aggregate.		Steam engines.										
				Total.		500 horsepower or under.		Over 500 horsepower and under 2,000 horsepower.		2,000 horsepower and under 5,000 horsepower.		5,000 horsepower and over.		
		Number.	Horse-power.	Number.	Horse-power.	Number.	Horse-power.	Number.	Horse-power.	Number.	Horse-power.	Number.	Horse-power.	
\$56,342,004	17,160	2,091	3,170,244	329	205,033	227	59,507	76	65,966	23	57,060	3	22,500	1
5,236,075	1,758	359	286,088	59	27,300	41	12,775	18	14,525					2
8,100,824	2,305	401	706,171	81	48,100	57	18,050	18	17,550	6	12,500			3
10,310,318	4,317	455	472,544	81	26,343	65	11,142	14	11,041	2	4,160			4
3,354,605	1,314	119	144,430	22	10,875	19	5,725	2	1,450	1	3,500			5
1,924,079	587	184	345,770	10	3,390	8	1,640	2	1,750					6
509,049	148	17	36,480	3	1,740	2	890	1	850					7
55,208	27	15	5,985	1	650			1	650					8
5,958,205	1,329	212	314,799	20	6,585	17	3,585	3	3,000					9
20,893,511	5,755	329	860,077	52	80,250	18	5,700	17	15,150	14	36,900	3	22,500	10
1,082,656	392	133	70,154	20	7,500	18	6,100	2	1,400					11
642,649	210	61	52,042	8	4,925	4	1,750	4	3,175					12
435,893	176	41	30,370	5	2,200	4	1,450	1	750					13
1,105,862	420	54	61,643	6	3,225	4	1,075	2	2,150					14
1,876,025	550	70	71,870	20	9,450	11	2,400	9	7,050					15
6,421,585	1,896	313	564,984	65	42,033	41	11,983	18	17,550	6	12,500			16
1,670,230	409	88	141,187	16	6,067	16	6,067							17
999,076	274	93	49,732	4	2,350	1	350	3	2,000					18
3,350,180	1,759	148	87,402	56	10,540	54	8,500	2	2,040					19
5,387,008	2,191	153	277,510	16	12,453	5	1,292	9	7,001	2	4,160			20
507,145	103	61	57,900	5	1,000	5	1,000							21
2,737,144	614	78	90,884	17	5,775	15	4,325	2	1,450					22
400,963	99	21	16,276	2	800	2	800							23
216,458	221	20	37,270	3	4,100	2	600			1	3,500			24
315,794	159	45	52,786	4	1,600	3	600	1	1,000					25
259,398	116	24	48,790	4	790	4	790							26
752,590	210	81	186,869											27
694,897	102	34	59,325	2	1,000	1	250	1	750					28
599,649	148	17	36,480	3	1,740	2	890	1	850					29
55,208	27	15	5,985	1	650			1	650					30
1,936,818	373	62	107,795	7	1,125	7	1,125							31
1,213,662	227	45	49,159	1	150	1	150							32
1,529,887	331	58	83,805	11	5,010	8	2,010	3	3,000					33
411,796	149	14	21,340											34
866,042	249	33	52,700	1	300	1	300							35
1,483,080	813	45	81,040	4	1,300	3	550	1	750					36
560,400	272	25	25,250	4	2,350	2	800	2	1,550					37
18,850,061	4,670	259	758,887	44	76,600	13	4,350	14	12,850	14	36,900	3	22,500	38

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 18.—HYDROELECTRIC STATIONS REPORTING WATER POWER OF 1,000

DIVISION AND STATE.		PRIMARY POWER—continued.											
		Steam turbines.										Gas and oil engines. ¹	
		Total.		500 horsepower or under.		Over 500 horsepower and under 2,000 horsepower.		2,000 horsepower and under 5,000 horsepower.		5,000 horsepower and over.		Total.	
		Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.	Number.	Horsepower.
1	UNITED STATES.....	191	680,129	8	1,705	94	95,295	53	162,482	36	420,647	19	5,686
	GEOGRAPHIC DIVISIONS:												
2	New England.....	39	89,879			22	25,564	13	40,613	4	23,702	2	450
3	Middle Atlantic.....	27	43,675	2	500	18	13,982	5	14,193	2	15,000		
4	East North Central.....	51	216,533			29	31,313	10	35,780	12	149,440	4	1,066
5	West North Central.....	17	38,703	4	670	8	7,366	3	6,667	2	24,000	7	2,135
6	South Atlantic.....	11	18,999			5	5,666	6	13,333			1	300
7	East South Central.....	1	1,340			1	1,340						
8	West South Central.....											2	295
9	Mountain.....	9	12,180	2	635	4	3,645	3	8,000				
10	Pacific.....	36	258,820			7	6,419	13	43,896	10	208,505	3	1,440
	NEW ENGLAND:												
11	Maine.....	2	3,420			1	670	1	2,750				
12	New Hampshire.....											2	450
13	Vermont.....	5	5,201			5	5,201						
14	Massachusetts.....	16	37,058			9	10,173	6	20,183	1	6,702		
15	Rhode Island and Connecticut.....	16	44,200			7	9,520	6	17,680	3	17,000		
	MIDDLE ATLANTIC:												
16	New York.....	15	30,925	2	500	8	7,065	3	8,360	2	15,000		
17	Pennsylvania.....	12	12,750			10	6,917	2	5,833				
	EAST NORTH CENTRAL:												
18	Ohio and Indiana.....	9	18,866			5	4,466	4	14,400			1	466
19	Illinois.....	15	40,200			10	10,730	2	6,030	3	23,440	2	550
20	Michigan.....	26	156,797			13	15,447	4	15,350	9	126,000		
21	Wisconsin.....	1	670			1	670					1	50
	WEST NORTH CENTRAL:												
22	Minnesota, Iowa, and Missouri.....	4	3,650			4	3,650					6	1,985
23	South Dakota.....	9	9,053	4	670	2	1,716	3	6,667				
24	Kansas.....	4	26,000			2	2,000			2	24,000	1	150
	SOUTH ATLANTIC:												
25	Maryland, Virginia, and West Virginia.....	4	6,000			2	2,000	2	4,000			1	300
26	North Carolina.....												
27	South Carolina.....	5	9,999			2	2,666	3	7,333				
28	Georgia and Florida.....	2	3,000			1	1,000	1	2,000				
	EAST SOUTH CENTRAL:												
29	Tennessee and Alabama.....	1	1,340			1	1,340						
	WEST SOUTH CENTRAL:												
30	Arkansas, Oklahoma, and Texas.....											2	295
	MOUNTAIN:												
31	Montana.....	3	6,500	1	500			2	6,000				
32	Idaho.....												
33	Colorado.....	6	5,680	1	35	4	3,645	1	2,000				
34	Arizona and Nevada.....												
35	Utah.....												
	PACIFIC:												
36	Washington.....	5	7,335			3	2,660	2	4,666				
37	Oregon.....												
38	California.....	31	251,485			4	3,750	11	39,230	16	208,505	3	1,440

¹ Contains 4,104 lamps of other varieties (Nernst, vacuum, vapor, etc.).

GENERAL TABLES.

HORSEPOWER OR MORE, BY GEOGRAPHIC DIVISIONS AND STATES: 1912—Continued.

PRIMARY POWER—continued.										DYNAMOS.		Output of station (kilowatt hours) generated during year.	ESTIMATED NUMBER OF LAMPS WIRED FOR SERVICE.		STATIONARY MOTORS SERVED.		
Water wheels.										Num-ber.	Kilo-watts.		Arc.	Incandes-cent and other varieties.	Num-ber.	Horse-power.	
Total.		500 horsepower or under.		Over 500horse-power and under 2,000 horsepower.		2,000 horse-power and under 5,000 horsepower.		5,000 horsepower and over.									
Num-ber.	Horse-power.	Num-ber.	Horse-power.	Num-ber.	Horse-power.	Num-ber.	Horse-power.	Num-ber.	Horse-power.								
1,552	2,288,396	633	162,693	619	582,857	150	493,760	150	1,049,086	1,925	1,951,397	5,859,397,943	62,624	13,403,893	73,645	1,283,769	1
259	169,359	156	37,333	88	81,926	13	40,100	2	10,000	327	195,630	411,094,646	8,295	1,436,941	10,594	100,847	2
293	614,396	113	33,679	102	99,417	24	65,800	54	415,500	423	359,215	1,399,488,481	11,305	1,261,849	8,937	110,080	3
319	228,602	169	41,027	124	86,375	24	86,800	2	14,400	327	294,092	787,211,604	9,083	3,052,072	15,820	143,971	4
73	92,917	44	9,179	22	16,238	5	49,500	2	18,000	100	87,545	212,978,506	4,624	861,129	6,229	77,296	5
162	323,081	40	12,071	69	75,110	17	46,500	36	189,400	183	213,873	485,867,328	2,206	156,669	2,974	100,952	6
13	33,400			8	11,800	5	21,600			24	25,375	55,770,810	819	78,468	231	4,484	7
12	5,040	8	2,340	4	2,700					13	2,740	1,335,375	104	11,511	168	1,257	8
183	296,034	45	11,016	104	111,218	20	71,800	14	102,000	204	183,446	758,364,280	3,538	648,623	4,757	170,598	9
238	525,507	58	16,048	98	98,073	42	111,660	40	299,786	324	589,481	1,747,286,913	22,650	5,896,631	23,935	574,284	10
111	59,234	72	13,989	35	29,845	2	5,400	2	10,000	98	47,296	106,028,123	1,120	232,261	1,555	25,624	11
51	47,567	31	8,467	12	11,100	8	28,000			53	37,765	90,297,891	1,144	118,336	710	7,494	12
31	22,978	13	5,216	17	15,762	1	2,000			41	17,042	43,598,562	493	177,270	1,092	15,913	13
32	21,360	17	4,341	13	12,319	2	4,700			76	43,512	60,819,611	3,439	427,726	3,172	20,899	14
34	18,220	23	5,320	11	12,900					59	50,015	110,350,459	2,099	481,348	4,065	30,917	15
233	492,026	94	28,517	67	66,709	24	65,800	48	331,000	331	261,000	1,081,292,900	9,744	971,934	7,668	84,458	16
60	122,370	19	5,162	35	32,708			6	84,500	92	98,215	318,195,581	1,561	289,915	1,269	25,622	17
70	28,060	72	18,850	7	9,200					34	28,850	71,213,325	1,212	152,212	2,105	19,162	18
75	36,112	27	6,082	48	30,030					142	49,602	175,375,156	4,418	1,023,935	3,780	28,384	19
111	108,200	34	9,915	63	40,345	12	43,600	2	14,400	110	181,585	436,971,110	3,081	1,834,830	9,515	92,330	20
54	56,180	36	6,180	6	6,800	12	43,200			41	34,055	103,652,013	372	41,095	420	4,095	21
51	79,474	35	7,224	11	9,250	3	45,000	2	18,000	64	52,558	138,486,277	4,026	761,513	5,324	62,718	22
10	6,423			10	6,423					24	11,897	17,200,554	472	78,113	720	10,313	23
12	7,020	9	1,955	1	565	2	4,500			12	23,090	57,291,675	126	21,503	185	4,265	24
36	44,886	15	4,616	14	11,270	3	9,000	4	20,000	42	35,665	29,035,776	1,654	107,894	512	7,47	25
20	40,000	4	1,500	8	6,500	2	5,000	6	33,000	26	32,431	55,725,300	110	12,361	527	19,070	26
76	176,870	11	4,130	35	39,640	8	18,700	22	114,400	86	109,877	333,633,641	321	28,450	855	36,335	27
30	55,325	10	1,825	12	17,700	4	13,800	4	22,000	29	35,900	67,472,611	121	7,964	1,080	38,074	28
13	33,400			8	11,800	5	21,600			24	25,375	55,770,810	819	78,468	231	4,484	29
12	5,040	8	2,340	4	2,700					13	2,740	1,335,375	104	11,511	168	1,257	30
52	100,170	11	3,157	26	26,613	9	34,400	6	36,000	61	68,920	371,799,054	1,602	267,069	1,462	71,050	31
44	49,009	16	3,584	24	22,425	2	6,000	2	17,000	38	31,024	105,914,621	1,084	183,856	1,287	19,836	32
41	73,115	15	3,815	19	17,300	2	8,000	5	44,000	60	37,167	144,364,518	498	140,852	957	26,240	33
14	21,340	2	60	9	12,280	3	9,000			10	13,500	58,977,145	321	24,593	594	18,246	34
32	52,400	1	400	26	32,600	4	14,400	1	5,000	35	32,835	77,308,942	33	32,253	457	35,217	35
36	73,305	17	4,005	9	9,500	3	6,800	7	53,000	35	47,005	62,233,028	4,180	625,275	1,739	22,950	36
21	22,900	2	800	18	17,100			1	5,000	31	19,120	35,993,935	579	171,554	632	8,630	37
181	429,362	39	11,243	71	71,473	39	104,860	32	241,786	258	523,356	1,649,059,950	17,891	5,009,502	21,564	542,704	38

GENERAL TABLES.

SUMMARY, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

PRIMARY POWER—continued.				KILOWATT CAPACITY OF DYNAMOS.			Total output of stations, kilowatt hours.	ESTIMATED NUMBER OF LAMPS WIRED FOR SERVICE.		STATIONARY MOTORS SERVED.		
Gas and oil engines.		Water wheels.		Total.	Direct current.	Alternating current.		Arc.	Incandescent and other varieties.	Number.	Horse-power capacity.	
Number	Horse-power.	Number.	Horse-power.									
93	11,252	33	8,860	244,182	49,450	194,732	399,101,309	36,318	3,454,515	29,022	145,331	1
53	5,628	21	2,037	126,533	40,121	86,412	217,311,924	43,849	2,267,958	13,083	64,941	2
13	755	14	1,676	69,811	41,448	28,363	127,437,383	31,839	934,213	5,704	21,956	3
17	1,700	90	23,915	135,801	14,605	121,196	236,944,000	17,328	2,375,680	14,005	91,897	4
15	1,295	83	19,606	81,576	19,290	62,286	130,263,693	22,165	1,330,660	5,132	33,716	5
16	1,097	12	1,105	38,144	16,961	21,183	75,585,493	15,325	656,451	2,631	5,653	6
35	3,042	92	37,362	449,917	33,707	416,210	1,150,900,306	53,486	7,375,539	46,278	315,659	7
19	870	80	10,478	209,226	44,250	164,976	467,657,328	55,309	3,591,309	21,675	137,661	8
7	292	52	9,505	100,320	51,216	49,104	161,543,646	38,215	1,567,665	11,838	35,928	9
27	1,626	245	125,079	247,789	13,565	234,224	525,615,508	20,516	3,602,606	18,400	174,009	10
11	603	249	85,738	101,714	15,089	86,625	208,154,199	23,514	1,717,339	7,089	53,245	11
3	184	114	16,085	44,176	18,043	26,133	80,564,630	17,712	805,127	2,271	11,337	12
40	4,500	176	68,766	98,839	20,737	78,102	215,402,974	10,394	1,791,732	6,699	72,925	13
22	2,079	140	19,001	40,711	10,804	29,907	52,546,210	8,697	781,681	2,366	17,995	14
12	910	78	7,837	23,118	10,895	12,223	29,966,758	7,416	428,930	813	5,430	15
54	4,755	76	80,172	93,502	13,854	79,648	186,045,055	9,201	1,858,306	12,203	75,973	16
22	1,428	71	71,656	78,516	14,354	64,162	87,579,431	13,398	903,023	3,711	41,095	17
13	665	27	6,040	20,999	9,333	11,666	40,258,632	8,543	384,705	1,855	9,481	18
52	2,658	58	7,029	53,237	13,611	39,626	67,166,647	4,679	1,512,568	8,773	43,820	19
11	564	44	3,833	32,056	12,267	19,789	37,729,072	7,352	809,386	2,643	14,547	20
5	400	31	2,399	24,886	12,786	12,100	36,506,425	5,929	420,847	1,054	4,193	21
22	2,472	5	1,902	122,786	10,859	111,927	232,828,763	13,394	2,526,515	15,429	116,971	22
13	963	5	2,002	68,467	10,938	57,529	147,328,446	17,576	1,705,396	8,923	54,111	23
2	11	2	1,000	32,100	13,889	18,211	57,450,731	13,144	593,798	4,646	14,552	24
8	318			10,824	4,607	6,217	12,298,553	866	219,452	1,145	6,128	25
2	205	1	100	5,819	3,789	2,030	8,229,765	1,163	119,233	327	1,816	26
		1	100	2,042	1,470	572	5,850,115	502	41,916	81	703	27
86	4,832	15	6,913	20,032	2,492	17,540	24,703,754	1,134	273,221	1,394	13,619	28
10	528	12	2,205	10,046	1,488	8,558	13,615,015	1,278	129,643	279	3,649	29
5	202	7	845	2,910	1,032	1,878	4,256,007	798	63,248	43	239	30
91	3,832	44	5,884	34,586	4,310	30,276	56,299,682	3,682	1,034,661	3,575	26,325	31
17	845	19	2,954	20,041	4,080	15,961	31,958,739	4,262	490,101	1,719	10,776	32
3	82	9	1,820	8,412	2,420	5,992	12,315,775	2,608	151,162	604	2,278	33
103	7,136	26	8,820	69,205	4,435	64,770	133,252,988	7,904	895,204	5,021	33,277	34
19	1,678	36	8,661	30,307	7,300	23,007	99,740,179	5,685	472,751	1,425	12,033	35
		11	1,034	8,596	3,909	4,687	13,326,518	3,498	128,857	1,484	1,885	36
11	1,073	33	4,049	87,137	7,660	79,477	67,994,885	8,144	1,727,106	13,718	76,527	37
5	130	18	1,632	62,956	10,900	52,056	78,412,197	13,765	1,055,779	6,523	32,856	38
3	80	6	275	21,639	12,321	9,318	39,999,997	8,905	282,758	1,429	5,919	39
3	185	63	44,280	40,512	1,956	38,556	28,724,684	2,589	237,079	753	8,570	40
1	60	44	9,551	9,195	1,486	7,709	10,208,360	1,415	93,635	268	3,690	41
		10	1,221	3,827	1,077	2,750	6,879,243	1,278	37,645	450	257	42
24	3,085	14	6,036	29,772	4,510	25,262	42,344,796	2,468	305,312	1,279	22,925	43
9	925	11	3,627	14,726	2,764	11,962	24,871,317	2,885	160,279	340	4,432	44
7	620	1	100	6,985	2,285	4,700	11,355,905	1,898	78,066	136	291	45
3	80	52	49,951	43,099	814	42,285	70,552,737	1,928	571,384	1,876	32,830	46
		32	9,962	13,911	2,147	11,764	13,171,681	1,936	144,256	249	4,345	47
		10	1,920	4,141	1,182	2,959	8,351,346	1,178	45,181	161	960	48
3	455	88	178,555	32,408	2,615	129,793	356,771,57	2,345	268,721	5,452	155,385	49
1	150	52	75,430	51,271	191	51,080	68,696,424	2,521	150,018	969	37,388	50
		9	10,415	13,390	680	12,710	18,426,763	1,366	46,068	160	6,546	51
4	720	45	51,957	56,232	1,581	54,651	87,571,815	2,651	410,068	1,964	50,633	52
1	140	37	36,335	35,446	1,702	33,744	59,311,202	3,173	180,337	410	11,078	53
		12	6,121	7,620	1,471	6,149	9,911,243	1,452	60,139	47	2,123	54
6	500	3	5,700	23,619	923	22,696	25,895,751	1,264	367,772	1,121	14,141	55
1	40			7,804	1,474	6,330	11,765,994	1,408	141,284	189	1,584	56
				4,699	1,067	3,632	8,066,078	1,106	61,144	133	455	57

GENERAL TABLES.

SUMMARY, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

PRIMARY POWER—continued.				KILOWATT CAPACITY OF DYNAMOS.			Total output of stations, kilowatt hours.	ESTIMATED NUMBER OF LAMPS WIRED FOR SERVICE.		STATIONARY MOTORS SERVED.		
Gas and oil engines.		Water wheels.		Total.	Direct current.	Alternating current.		Arc.	Incandescent and other varieties.	Number.	Horse-power capacity.	
Number	Horse-power.	Number.	Horse-power.									
6	576			54,062	7,144	46,918	75,593,179	7,814	849,220	4,106	22,621	1
1	15			29,140	5,944	23,196	37,232,623	6,884	483,796	1,124	9,962	2
3	45	1	30	15,012	6,626	8,386	27,835,614	4,598	142,662	785	3,172	3
4	445	32	27,750	49,640	3,113	46,527	75,544,893	4,808	671,150	1,720	20,357	4
		14	1,240	20,911	2,265	18,646	34,847,956	4,407	306,903	1,193	4,524	5
		8	619	14,736	4,772	9,964	24,472,632	3,662	174,291	1,218	3,335	6
2	19	15	9,880	24,477	4,442	20,035	48,602,553	3,920	347,871	1,065	11,148	7
1	20	15	7,007	17,124	4,342	12,782	30,846,764	4,926	232,646	541	5,650	8
1	25			4,473	1,769	2,704	11,616,707	2,033	61,373	750	747	9
1	40			21,863	2,482	19,381	27,924,133	1,823	279,220	701	7,955	10
1	25			9,884	1,051	8,833	15,704,624	1,694	141,079	181	1,520	11
				5,106	999	4,107	9,825,923	1,035	85,111	1,182	256	12
5	221	10	3,040	16,335	2,053	14,282	17,786,660	1,102	243,728	994	5,283	13
1	12	1	300	9,678	2,599	7,079	11,519,316	1,669	142,525	198	1,177	14
		2	227	6,024	1,485	4,539	9,965,997	1,654	82,234	838	722	15
9	990			19,169	5,697	13,472	18,328,080	7,267	584,015	2,428	24,557	16
3	420			15,175	5,762	9,413	26,421,316	8,587	377,225	1,713	16,110	17
				7,781	4,690	3,091	17,474,261	4,278	135,593	1,129	5,128	18
38	5,966	7	2,135	38,301	4,130	34,171	48,824,907	3,659	592,315	3,470	23,056	19
2	200			15,499	3,120	12,379	24,985,993	3,451	219,537	1,086	6,586	20
				3,019	740	2,279	3,825,763	914	37,443	430	347	21
99	9,502	18	3,503	84,564	11,321	73,243	149,008,819	7,617	1,866,373	8,445	50,869	22
53	3,058	23	2,762	48,558	12,945	36,213	75,829,108	8,176	804,323	4,223	18,634	23
2	108	12	1,104	26,108	7,753	18,355	48,888,450	5,146	303,591	8,236	4,827	24
1	75	04	102,885	74,398	1,635	72,763	379,212,617	2,193	388,718	1,962	75,184	25
		02	56,987	39,602	2,410	37,192	137,379,261	3,132	231,201	971	33,240	26
1	2	44	24,000	22,055	3,521	18,534	36,435,766	1,648	101,868	151	1,401	27
		63	51,850	35,656	126	35,530	115,812,292	1,349	261,096	1,723	27,142	28
		37	11,492	6,935	147	9,577,588	9,577,588	966	122,491	406	4,054	29
1	50	23	3,924	2,774	797	1,977	5,018,149	557	33,262	163	205	30
1	100	11	1,334	8,212	1,077	7,135	11,580,567	492	112,228	672	6,224	31
		6	765	3,208	1,003	2,205	5,499,084	517	59,674	131	685	32
2	500	1	75	1,831	701	1,130	3,883,285	259	22,082	1	1	33
1	80	67	77,005	71,668	3,391	68,277	165,196,068	4,175	1,032,865	4,780	60,451	34
4	300	47	25,580	53,130	6,029	47,101	123,275,212	5,301	804,323	3,232	41,161	35
		42	12,750	21,808	7,131	14,677	60,177,084	4,770	295,605	1,264	12,484	36
9	1,770	9	817	7,981	876	7,105	9,027,824	377	112,207	639	4,084	37
		6	513	3,789	925	2,864	4,614,349	332	55,379	195	1,231	38
		1	50	986	657	329	2,637,810	272	22,507	75	100	39
		4	9,300	14,750	991	13,765	32,960,084	686	136,400	741	12,547	40
3	70	4	750	4,939	777	4,162	9,392,302	754	72,028	339	2,220	41
7	650	4	1,811	1,811	908	903	3,662,045	295	36,556	432	714	42
		63	59,588	37,935	435	37,500	86,634,658	333	150,380	1,044	37,490	43
		45	34,671	33,592	522	33,070	61,672,661	440	67,670	406	5,519	44
		26	18,410	13,923	2,208	11,715	32,457,063	1,469	92,165	295	5,868	45
8	670	13	12,540	10,513	338	10,175	44,969,772	321	45,443	553	12,384	46
6	485	9	6,260	5,690	60	5,630	29,621,730	327	63,939	411	6,850	47
		4	1,470	764	165	599	1,508,910	78	8,213	13	180	48
3	165	64	77,591	57,283	1,658	55,625	71,414,473	4,729	781,244	2,279	28,148	49
2	90	48	56,118	66,308	5,484	60,824	257,785,236	6,771	624,865	1,933	29,686	50
		41	17,238	13,679	5,019	8,660	19,722,262	2,977	108,443	295	2,780	51
9	334	60	29,802	32,416	624	31,792	58,789,342	1,285	382,196	1,527	15,843	52
6	182	72	102,052	32,587	3,877	28,710	92,807,992	3,927	372,844	2,072	20,452	53
		46	11,195	11,165	1,780	9,385	17,531,660	2,023	95,045	403	4,020	54
11	1,980	205	432,062	588,281	17,539	570,742	1,747,459,041	24,890	6,793,200	29,059	603,742	55
11	16,585	172	208,444	238,480	9,119	229,361	661,606,309	19,691	3,068,214	11,560	200,067	56
6	618	133	78,933	88,816	16,284	67,532	152,728,042	15,764	1,006,875	5,190	50,296	57

TABLE 20.—COMMERCIAL ELECTRIC STATIONS—BALANCE

Table with columns for Division and State, Cost of construction, Stock and bonds of other companies, Stock and bonds of companies other than electric, Treasury securities (Stock, Bonds), Other permanent investments, Cash and current assets, Stock and bond discount, Sinking and other special funds, Sundries, Profit and loss deficit for companies showing a deficit. Rows are categorized by geographic divisions like United States, New England, Middle Atlantic, East North Central, West North Central, South Atlantic, East South Central, West South Central, Mountain, and Pacific.

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 21.—MUNICIPAL CENTRAL ELECTRIC STATIONS—BALANCE

DIVISION AND STATE.	ASSETS.							Total— Assets or liabilities.
	Cost of construction, equipment, and real estate.	Other permanent investments.	Cash and current assets, including supplies.	Stock and bond discount.	Sinking and other special funds.	Sundries.	Profit and loss deficit for stations showing a deficit.	
1 UNITED STATES.....	\$77,065,144	\$41,336	\$5,381,152	\$18,432	\$1,650,098	\$1,007,100	\$448,863	\$86,521,125
GEOGRAPHIC DIVISIONS:								
2 New England.....	5,521,077	9,506	537,841	.....	360,642	68,768	248,118	6,745,952
3 Middle Atlantic.....	4,095,800	.....	254,779	130	47,422	7,624	3,074	4,408,829
4 East North Central.....	31,473,659	7,830	1,584,067	42	418,957	1,759,380	44,343	35,288,287
5 West North Central.....	10,738,343	24,000	826,373	10,550	61,876	48,870	60,754	11,770,766
6 South Atlantic.....	7,134,097	.....	570,190	6,005	589,619	5,189	7,810	8,312,910
7 East South Central.....	4,195,120	.....	112,886	1,705	17,318	3,978	34,942	4,365,949
8 West South Central.....	4,061,629	.....	87,239	.....	36,334	6,927	9,777	4,201,909
9 Mountain.....	1,230,529	.....	103,516	.....	13,706	2,637	6,000	1,350,888
10 Pacific.....	8,614,800	.....	1,303,061	.....	113,224	3,718	34,045	10,069,838
NEW ENGLAND:								
11 Maine.....	238,336	.....	6,241	.....	1,544	.....	.....	246,121
12 New Hampshire.....	156,544	.....	3,339	.....	19,500	.....	.....	179,383
13 Vermont.....	750,160	9,506	69,817	.....	10,542	8,000	5,100	853,145
14 Massachusetts.....	3,311,628	.....	416,752	.....	296,056	60,768	243,018	4,328,222
15 Rhode Island.....	8,375	.....	2,300	.....	.....	.....	.....	10,675
16 Connecticut.....	1,066,014	.....	39,392	.....	33,000	.....	.....	1,128,406
MIDDLE ATLANTIC:								
17 New York.....	1,830,563	.....	211,940	.....	3,769	2,624	3,074	2,051,970
18 New Jersey.....	389,221	.....	4,985	.....	25,436	.....	.....	419,642
19 Pennsylvania.....	1,876,016	.....	37,854	130	18,217	5,000	.....	1,937,217
EAST NORTH CENTRAL:								
20 Ohio.....	4,618,884	.....	216,534	.....	286,311	4,536	5,138	5,131,403
21 Indiana.....	4,182,552	7,680	286,547	.....	28,856	75	2,897	4,508,607
22 Illinois.....	14,321,406	.....	408,131	.....	60,023	1,733,780	857	16,524,197
23 Michigan.....	6,479,220	150	593,287	.....	24,731	13,780	15,701	7,036,869
24 Wisconsin.....	1,871,597	.....	169,568	42	19,036	7,218	19,750	2,087,211
WEST NORTH CENTRAL:								
25 Minnesota.....	2,593,227	.....	299,483	.....	2,885	1,380	32,941	2,929,915
26 Iowa.....	1,571,359	.....	184,034	.....	4,147	2,650	11,324	1,774,414
27 Missouri.....	2,274,124	4,000	87,515	10,000	41,463	43,650	2,745	2,463,497
28 North Dakota.....	282,668	.....	23,269	.....	2,000	.....	.....	312,937
29 South Dakota.....	332,883	.....	24,453	.....	.....	.....	.....	357,336
30 Nebraska.....	1,405,598	20,000	107,665	.....	6,071	1,190	4,512	1,545,036
31 Kansas.....	2,278,484	.....	94,054	550	5,310	.....	0,232	2,387,630
SOUTH ATLANTIC:								
32 Delaware, District of Columbia, and Maryland.....	443,309	.....	13,291	.....	4,320	.....	.....	460,830
33 Virginia.....	1,410,061	.....	11,550	.....	1,070	.....	.....	1,422,681
34 West Virginia.....	109,530	.....	2,322	.....	810	190	.....	112,852
35 North Carolina.....	1,307,280	.....	91,299	2,500	3,900	3,049	.....	1,408,028
36 South Carolina.....	575,477	.....	51,002	3,505	.....	1,800	2,579	634,963
37 Georgia.....	1,540,074	.....	188,328	.....	6,394	150	4,704	1,746,310
38 Florida.....	1,681,706	.....	211,888	.....	573,125	.....	467	2,467,246
EAST SOUTH CENTRAL:								
39 Kentucky.....	683,482	.....	13,241	.....	1,318	.....	9,790	707,831
40 Tennessee.....	1,504,274	.....	46,380	102	15,500	35	2,500	1,628,791
41 Alabama.....	751,535	.....	12,838	1,003	.....	3,943	19,199	789,178
42 Mississippi.....	1,195,829	.....	40,367	.....	500	.....	3,453	1,240,149
WEST SOUTH CENTRAL:								
43 Arkansas.....	569,866	.....	12,342	.....	4,000	6,927	25	593,160
44 Louisiana.....	582,163	.....	17,466	.....	1,057	.....	.....	600,686
45 Oklahoma.....	1,654,914	.....	38,154	.....	10,302	.....	9,707	1,713,077
46 Texas.....	1,254,686	.....	19,277	.....	20,975	.....	45	1,294,983
MOUNTAIN:								
47 Montana.....	141,652	.....	22,121	.....	.....	.....	.....	163,773
48 Idaho.....	236,626	.....	11,050	.....	.....	.....	.....	247,676
49 Wyoming.....	33,000	.....	.....	.....	.....	.....	.....	33,000
50 Colorado.....	279,752	.....	27,900	.....	.....	.....	1,500	309,152
51 New Mexico.....	63,116	.....	5,874	.....	.....	45	4,500	73,535
52 Utah.....	469,021	.....	36,852	.....	13,706	2,592	.....	513,171
53 Nevada.....	16,362	.....	19	.....	.....	.....	.....	16,381
PACIFIC:								
54 Washington.....	6,194,001	.....	1,142,055	.....	56,720	1,527	34,045	7,428,348
55 Oregon.....	566,438	.....	14,767	.....	6,307	.....	.....	587,512
56 California.....	1,854,451	.....	147,130	.....	59,197	2,191	.....	2,063,978

GENERAL TABLES.

SHEET, BY GEOGRAPHIC DIVISIONS AND STATES: 1912.

LIABILITIES.										
Funded debt.	Cash investments.	Real estate mortgages.	Floating debt.	Reserves.	Accounts payable.	Interest and taxes due and accrued.	Sundries.	Profit and loss surplus for stations showing a surplus.	Net surplus.	
\$31,189,357	\$27,004,963	\$344,608	\$4,959,382	\$2,509,652	\$1,347,263	\$723,087	\$235,728	\$18,147,085	\$17,698,222	1
2,844,716	1,480,678	266,666	678,350	186,876	73,946	18,602	161,906	1,034,212	786,094	2
2,048,491	723,714	.....	85,463	167,879	30,118	5,214	16,568	1,391,382	1,328,308	3
7,141,321	18,000,729	1,150	2,808,312	1,048,969	235,431	650,720	28,715	5,382,940	5,338,597	4
5,312,801	2,236,522	41,000	322,308	128,870	204,932	13,824	15,322	3,495,187	3,434,433	5
3,066,415	1,025,604	24,150	200,751	4,603	332,245	4,623	6,925	2,747,594	2,730,784	6
2,188,741	1,543,408	6,667	204,099	14,000	57,333	4,213	600	346,883	311,941	7
2,240,529	913,648	4,975	218,071	600	35,033	8,223	5,032	769,730	759,953	8
675,811	196,752	.....	63,300	13,313	17,005	753	4,922	384,832	378,832	9
4,764,532	943,908	.....	383,728	944,542	361,180	16,905	738	2,654,325	2,620,280	10
48,500	161,500	.....	.....	.....	169	.....	.....	35,952	35,952	11
115,000	38,968	.....	7,113	.....	11,836	1,032	.....	5,434	5,434	12
541,900	40,000	.....	96,933	22,419	5,384	.....	16,000	130,509	125,409	13
1,782,742	1,235,210	.....	520,304	116,841	50,581	17,410	145,906	469,228	216,210	14
359,574	5,000	266,666	7,000	47,616	400	.....	.....	3,275	3,275	15
.....	.....	.....	47,000	.....	5,576	160	.....	399,814	399,814	16
765,980	229,776	.....	55,661	157,443	20,919	4,014	16,568	891,609	798,535	17
104,663	185,275	.....	.....	10,436	1,291	.....	.....	57,977	57,977	18
1,117,848	308,663	.....	29,892	.....	7,908	1,200	.....	471,796	471,796	19
2,533,520	2,220,800	.....	8,880	24,644	85,375	4,043	15,419	238,713	233,575	20
641,239	2,836,920	400	58,854	32,259	27,293	960	1,191	909,491	906,594	21
585,905	10,483,525	.....	2,584,485	796,002	36,375	629,169	.....	1,407,836	1,406,979	22
2,496,601	1,837,098	750	52,035	90,645	52,074	7,291	2,120	2,498,255	2,482,554	23
884,056	622,377	.....	99,058	104,519	34,314	9,257	4,985	328,645	308,895	24
1,001,336	887,845	.....	126,455	24,662	58,107	5,619	.....	735,892	702,951	25
599,789	317,412	.....	43,520	69,982	26,087	300	3,900	893,424	792,100	26
1,288,000	171,565	32,500	25,700	10,097	61,922	719	.....	893,594	890,349	27
120,360	55,000	.....	15,013	6,905	13,980	281	.....	101,458	101,458	28
104,315	88,637	.....	2,940	15,184	6,652	2,500	.....	137,108	137,108	29
634,333	459,123	8,500	48,238	.....	12,077	404	1,422	380,939	376,427	30
1,584,728	250,940	.....	60,442	2,040	26,707	4,001	10,000	442,772	433,540	31
231,500	63,829	18,000	16,800	.....	13,769	.....	.....	116,932	116,932	32
1,036,324	23,000	.....	77,153	.....	1,600	.....	.....	290,599	290,599	33
28,700	72,670	.....	.....	.....	.....	.....	.....	11,482	11,482	34
845,888	447,549	.....	64,000	.....	18,656	10	.....	91,925	91,925	35
398,900	70,012	6,150	7,155	1,174	7,894	1,200	484	141,994	139,415	36
1,078,280	124,006	.....	29,870	2,629	46,433	1,139	.....	463,953	459,189	37
352,823	224,538	.....	5,768	800	243,893	2,274	6,441	1,630,709	1,630,242	38
72,400	541,259	.....	15,842	.....	18,450	1,000	.....	53,880	49,090	39
828,600	640,841	.....	12,857	14,000	19,760	118	.....	112,615	110,115	40
467,500	92,217	6,667	162,000	.....	9,092	3,100	600	48,002	28,803	41
820,241	269,091	.....	13,400	.....	10,031	.....	.....	127,386	123,933	42
191,929	83,100	.....	63,270	.....	9,589	900	260	244,112	244,087	43
91,800	166,419	.....	79,546	600	8,312	300	.....	253,709	253,709	44
1,448,800	80,278	.....	24,105	.....	10,922	6,600	4,772	137,600	127,893	45
514,000	583,851	4,975	51,150	.....	5,270	428	.....	134,309	134,264	46
41,000	.....	.....	.....	13,313	4,137	.....	.....	105,323	105,323	47
170,000	19,430	.....	.....	.....	.....	.....	.....	58,246	58,246	48
.....	30,000	.....	.....	.....	.....	.....	.....	3,000	3,000	49
126,925	108,002	.....	37,200	.....	6,744	453	3,750	26,078	24,578	50
51,700	.....	.....	5,500	.....	820	.....	.....	15,515	11,015	51
271,186	39,320	.....	20,600	.....	5,304	300	1,172	175,289	175,289	52
15,000	.....	.....	.....	.....	.....	.....	.....	1,381	1,381	53
3,683,200	838,003	.....	236,234	725,805	303,741	14,150	738	1,626,477	1,592,432	54
443,500	6,700	.....	57,971	.....	.....	.....	.....	79,341	79,341	55
637,832	99,205	.....	89,523	218,737	57,419	2,755	.....	948,507	948,507	56

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 24.—COMMERCIAL AND MUNICIPAL CENTRAL ELECTRIC STATIONS—

	DIVISION AND STATE.	Number of stations.	EXPENSES.				
			Aggregate.	Fuel.	Electric current and electric power purchased.	Rent of offices, conduits, underground and water privileges.	Supplies, materials, salaries, and wages, and all other miscellaneous expense, not elsewhere specified.
1	UNITED STATES.....	5,221	\$234,419,478	\$34,748,754	\$18,074,344	\$4,279,596	\$91,847,508
2	GEOGRAPHIC DIVISIONS:						
3	New England.....	368	21,414,431	3,165,590	1,394,330	342,355	9,138,705
4	Middle Atlantic.....	669	71,821,417	8,570,870	5,982,590	2,567,793	27,186,433
5	East North Central.....	1,260	53,414,485	9,982,296	2,933,041	607,180	22,092,732
6	West North Central.....	1,077	22,939,987	4,582,050	2,135,944	203,437	8,329,877
7	South Atlantic.....	512	12,126,351	1,592,015	1,831,265	127,182	4,451,571
8	East South Central.....	330	5,857,329	1,111,029	131,697	40,554	2,630,032
9	West South Central.....	507	9,165,847	2,383,832	311,664	57,660	3,060,732
10	Mountain.....	250	11,400,235	755,084	1,032,516	133,513	4,306,393
11	Pacific.....	248	20,279,396	2,605,988	2,321,297	199,952	9,753,073
12	NEW ENGLAND:						
13	Maine.....	79	1,577,938	46,823	106,367	28,091	664,507
14	New Hampshire.....	59	1,596,152	192,204	45,210	14,840	651,075
15	Vermont.....	61	824,443	88,650	33,809	17,551	386,747
16	Massachusetts.....	117	11,651,739	1,868,063	774,871	239,430	5,161,731
17	Rhode Island.....	8	1,654,848	276,715	59,250	11,805	771,672
18	Connecticut.....	44	4,106,311	665,045	374,823	30,038	1,500,978
19	MIDDLE ATLANTIC:						
20	New York.....	321	44,297,869	3,780,858	4,722,622	1,924,084	15,948,642
21	New Jersey.....	64	9,348,894	1,806,366	111,991	62,669	3,583,049
22	Pennsylvania.....	284	18,174,684	2,893,646	1,147,977	681,010	7,664,742
23	EAST NORTH CENTRAL:						
24	Ohio.....	304	8,722,293	1,922,131	90,527	60,453	3,311,092
25	Indiana.....	201	6,028,909	1,455,877	232,334	39,493	2,403,844
26	Illinois.....	209	23,557,837	3,812,211	1,209,828	200,274	10,601,505
27	Michigan.....	235	9,784,138	1,539,632	832,065	240,170	3,994,210
28	Wisconsin.....	251	5,321,258	1,252,445	509,087	60,790	1,782,081
29	WEST NORTH CENTRAL:						
30	Minnesota.....	195	5,580,525	699,572	955,205	62,648	1,704,465
31	Iowa.....	223	3,328,740	918,222	210,648	29,119	1,395,418
32	Missouri.....	190	7,484,853	1,239,272	707,573	71,712	2,479,690
33	North Dakota.....	42	714,294	207,336	15,403	1,774	272,530
34	South Dakota.....	77	965,763	259,662	12,881	7,347	354,513
35	Nebraska.....	174	2,239,542	621,858	61,640	17,444	950,225
36	Kansas.....	176	2,626,270	636,128	172,694	13,393	1,071,226
37	SOUTH ATLANTIC:						
38	Delaware, District of Columbia, and Maryland.....	56	4,050,055	316,314	306,365	84,115	1,470,290
39	Virginia.....	67	567,459	106,050	19,828	4,283	271,291
40	West Virginia.....	58	897,843	178,403	102,050	7,457	379,065
41	North Carolina.....	94	1,046,217	136,620	213,528	4,961	413,485
42	South Carolina.....	61	2,850,661	216,894	1,017,640	6,537	744,816
43	Georgia.....	126	1,655,420	327,482	74,748	18,077	645,913
44	Florida.....	50	1,052,096	309,652	7,106	1,752	526,711
45	EAST SOUTH CENTRAL:						
46	Kentucky.....	89	2,244,906	384,145	36,201	19,141	1,042,359
47	Tennessee.....	90	1,753,575	218,133	68,406	6,939	763,254
48	Alabama.....	69	980,169	211,409	3,764	10,700	428,019
49	Mississippi.....	82	878,379	267,342	23,324	3,774	396,460
50	WEST SOUTH CENTRAL:						
51	Arkansas.....	74	749,029	214,526	3,570	4,625	359,576
52	Louisiana.....	50	1,604,019	238,023	208,790	3,308	620,298
53	Oklahoma.....	130	1,888,706	474,202	3,772	14,342	815,879
54	Texas.....	253	4,924,093	1,457,081	95,532	35,385	2,164,979
55	MOUNTAIN:						
56	Montana.....	29	2,411,668	87,699	102,595	6,161	852,682
57	Idaho.....	38	1,637,260	8,478	107,829	25,369	477,539
58	Wyoming.....	20	445,789	87,187	.....	4,520	254,772
59	Colorado.....	73	3,997,760	279,096	450,962	62,854	1,465,021
60	New Mexico.....	21	449,516	103,768	48,006	4,411	171,135
61	Arizona.....	16	923,258	146,326	106,558	7,567	324,128
62	Utah.....	45	1,206,729	10,757	215,460	4,727	557,442
63	Nevada.....	8	428,255	31,773	1,106	17,904	203,474
64	PACIFIC:						
65	Washington.....	70	2,270,132	101,515	371,516	19,999	1,045,774
66	Oregon.....	66	1,205,738	102,054	73,792	9,896	476,180
67	California.....	112	22,803,526	2,402,419	1,875,989	170,057	8,231,119

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 26.—COMMERCIAL AND MUNICIPAL CENTRAL ELECTRIC STATIONS—GENERATING AND SUBSIDIARY EQUIPMENT, AND OUTPUT OF STATIONS, BY GEOGRAPHIC DIVISIONS AND STATES. 1912.

Table with columns: DIVISION AND STATE, Number of stations, GENERATING EQUIPMENT—NUMBER AND KILOWATT CAPACITY OF DYNAMOS (Total, Direct current, Alternating), SUBSIDIARY EQUIPMENT (Rotary converters, Boosters, Storage battery cells, Transformers, Auxiliary generators), and Output of stations, / kilowatt hours. Rows include UNITED STATES, GEOGRAPHIC DIVISIONS (NEW ENGLAND, MIDDLE ATLANTIC, EAST NORTH CENTRAL, WEST NORTH CENTRAL, SOUTH ATLANTIC, EAST SOUTH CENTRAL, WEST SOUTH CENTRAL, MOUNTAIN, PACIFIC).

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 28.—COMMERCIAL CENTRAL ELECTRIC STATIONS—

	DIVISION AND STATE.	Number of stations.	EXPENSES.				
			Aggregate.	Fuel.	Electric current and electric power purchased.	Rent of offices, conduits, underground and water privileges.	Supplies, materials, salaries and wages, and all other miscellaneous expense not elsewhere specified.
1	UNITED STATES.....	3,659	\$217,502,313	\$30,373,445	\$16,912,612	\$4,214,120	\$83,194,081
2	GEOGRAPHIC DIVISIONS:						
3	New England.....	311	19,960,887	2,878,156	1,262,828	319,641	8,480,558
4	Middle Atlantic.....	567	70,799,455	8,292,538	5,942,909	2,566,722	26,622,821
5	East North Central.....	786	47,940,189	8,612,861	2,612,324	587,730	19,063,231
6	West North Central.....	678	10,824,954	3,480,162	2,035,620	106,244	6,831,153
7	South Atlantic.....	308	10,080,424	1,031,294	1,671,062	122,503	3,475,769
8	East South Central.....	202	4,855,061	808,623	118,757	39,032	2,091,418
9	West South Central.....	385	8,087,574	2,025,092	266,373	55,567	3,441,599
10	Mountain.....	211	11,113,312	701,658	1,007,949	132,767	4,152,018
	Pacific.....	211	24,840,457	2,543,061	1,994,790	193,914	9,035,514
	NEW ENGLAND:						
11	Maine.....	75	1,521,129	44,300	104,867	28,601	617,877
12	New Hampshire.....	56	1,578,563	189,701	43,910	14,732	643,543
13	Vermont.....	48	697,631	67,776	27,332	16,531	324,199
14	Massachusetts.....	87	10,620,760	1,643,235	679,586	212,391	4,711,316
15	Rhode Island.....	7	1,648,794	276,457	59,250	11,805	767,685
16	Connecticut.....	38	3,894,010	657,687	347,883	35,491	1,415,938
	MIDDLE ATLANTIC:						
17	New York.....	272	43,839,868	3,644,185	4,706,335	1,923,630	15,711,487
18	New Jersey.....	56	9,249,612	1,872,413	108,735	62,369	3,528,343
19	Pennsylvania.....	239	17,709,975	2,775,940	1,127,839	580,723	7,382,991
	EAST NORTH CENTRAL:						
20	Ohio.....	186	7,546,896	1,593,505	53,759	57,643	2,706,994
21	Indiana.....	130	5,106,111	1,143,130	196,794	36,116	1,901,441
22	Illinois.....	170	21,889,335	3,591,902	1,072,183	191,289	9,565,567
23	Michigan.....	127	8,580,242	1,195,642	801,466	237,622	3,336,929
24	Wisconsin.....	173	4,817,605	1,088,682	488,122	65,060	1,552,300
	WEST NORTH CENTRAL:						
25	Minnesota.....	91	4,747,351	405,010	903,454	62,210	1,410,493
26	Iowa.....	159	2,804,300	725,385	204,771	28,513	1,112,647
27	Missouri.....	125	6,860,194	1,012,301	706,968	67,371	2,167,078
28	North Dakota.....	33	614,024	163,230	14,736	1,714	235,185
29	South Dakota.....	64	852,992	223,510	4,881	6,987	307,577
30	Nebraska.....	112	1,826,531	457,176	34,983	16,589	783,992
31	Kansas.....	94	2,119,553	493,550	165,827	12,860	806,271
	SOUTH ATLANTIC:						
32	Delaware, District of Columbia, and Maryland.....	43	3,934,301	271,686	393,698	83,920	1,415,837
33	Virginia.....	53	372,737	78,288	15,211	4,218	183,195
34	West Virginia.....	52	853,449	165,226	102,050	7,457	349,422
35	North Carolina.....	46	640,436	40,249	125,193	4,521	244,977
36	South Carolina.....	30	2,689,713	177,348	985,748	6,195	677,173
37	Georgia.....	42	1,108,986	134,518	44,385	14,590	390,491
38	Florida.....	33	480,802	163,979	4,777	1,602	214,674
	EAST SOUTH CENTRAL:						
39	Kentucky.....	73	2,063,403	343,866	36,103	18,546	911,671
40	Tennessee.....	60	1,489,761	173,112	60,108	6,628	620,661
41	Alabama.....	34	766,521	139,348	3,764	10,260	328,964
42	Mississippi.....	35	535,376	152,297	18,782	3,598	230,122
	WEST SOUTH CENTRAL:						
43	Arkansas.....	56	586,916	158,276	3,570	4,340	273,698
44	Louisiana.....	27	1,396,189	139,943	208,790	2,983	522,447
45	Oklahoma.....	67	1,482,274	337,493	3,172	13,039	626,070
46	Texas.....	235	4,622,195	1,889,380	50,841	35,205	2,019,384
	MOUNTAIN:						
47	Montana.....	27	2,354,067	65,127	102,595	6,161	828,734
48	Idaho.....	35	1,493,871	8,478	97,558	25,174	457,024
49	Wyoming.....	18	437,104	85,087	.....	4,520	250,062
50	Colorado.....	62	3,926,649	264,055	442,612	62,854	1,426,094
51	New Mexico.....	18	430,846	97,227	48,006	4,411	162,268
52	Arizona.....	16	923,258	146,326	106,558	7,567	324,128
53	Utah.....	28	1,120,767	3,585	210,620	4,185	500,624
54	Nevada.....	7	426,750	31,773	.....	17,895	203,084
	PACIFIC:						
55	Washington.....	60	1,348,871	98,192	166,437	14,697	550,218
56	Oregon.....	54	1,143,165	94,571	73,792	9,440	433,073
57	California.....	97	22,348,421	2,350,298	1,754,561	169,777	8,052,223

GENERAL TABLES.

EXPENSES, BY GEOGRAPHIC DIVISIONS AND STATES: 1912.

EXPENSES—continued.											
Taxes.						Interest on funded and floating debt.	Injuries and damages.	Insurance.	Charges for depreciation.	Charges for sinking fund.	
Total.	Real and personal property.	Capital stock.	Federal corporation.	Earnings.	Miscellaneous.						
\$13,117,198	\$8,027,176	\$997,012	\$558,706	\$2,598,338	\$935,966	\$46,864,763	\$1,156,668	\$2,159,446	\$17,989,527	\$1,520,453	1
1,995,870	1,183,602	654,902	68,404	16,828	72,134	2,875,826	45,085	347,930	1,539,872	215,621	2
4,039,082	2,382,459	257,066	214,089	646,592	537,976	15,474,817	332,732	650,871	6,709,489	107,474	3
3,037,748	2,227,111	3,941	104,786	658,687	43,223	7,900,878	348,562	483,264	4,078,619	615,572	4
1,062,426	670,997	6,837	38,438	260,819	37,181	4,284,053	109,098	203,052	1,526,202	146,944	5
493,358	304,258	23,796	27,894	100,229	79,895	2,428,668	47,932	85,901	523,870	200,067	6
319,243	195,592	25,128	9,599	34,555	37,181	1,228,431	34,554	62,959	149,744	2,300	7
496,526	357,394	9,348	19,878	35,190	54,339	1,299,263	60,719	104,079	332,106	6,210	8
545,518	495,072	7,758	32,148	4,522	6,018	4,001,415	103,221	67,617	359,589	41,560	9
1,127,427	205,291	7,336	43,470	840,846	30,484	7,422,412	74,765	153,773	2,110,136	184,665	10
82,075	78,022	454	3,060	539	539	566,745	9,015	14,995	41,080	11,484	11
117,565	104,061	8,990	4,433	71	10	429,621	10,460	30,726	81,927	16,378	12
24,914	23,282	370	809	302	151	184,188	2,781	13,348	32,562	4,000	13
1,448,766	808,437	583,174	37,914	400	18,831	774,198	7,426	227,247	872,824	43,781	14
156,361	77,501	95	10,388	16,055	52,322	178,916	3,358	21,092	145,784	29,106	15
106,199	92,209	61,819	11,800	281	281	741,658	12,065	40,522	365,695	110,872	16
3,013,834	2,055,749	24,839	125,676	332,506	475,064	8,546,322	230,747	405,168	5,569,488	88,672	17
364,225	173,977	10,744	20,935	148,345	4,224	2,969,683	55,045	44,078	238,663	6,058	18
661,023	152,733	222,383	61,478	165,741	58,688	3,958,812	46,940	201,625	961,338	12,744	19
682,799	521,444	898	10,837	125,783	14,837	1,037,214	61,381	52,170	1,298,781	2,650	20
225,548	142,119	460	12,291	45,599	25,079	1,089,415	25,922	52,358	434,653	734	21
1,390,102	850,367	1,664	50,162	486,049	1,860	3,251,857	198,588	286,822	1,792,822	548,343	22
491,017	474,306	919	14,837	755	755	1,746,182	41,346	48,004	645,258	36,776	23
248,282	238,675	7,659	7,659	692	692	775,710	21,325	43,910	507,145	27,069	24
259,320	209,991	3,688	8,865	36,776	36,776	1,392,072	16,189	41,771	148,033	99,799	25
105,032	86,131	1,521	4,797	12,229	354	445,334	12,700	29,634	137,596	2,697	26
427,356	172,259	630	17,078	159,948	77,441	1,497,781	49,681	72,572	820,204	38,882	27
28,559	28,033	526	526	526	526	106,193	2,559	9,391	52,057	400	28
25,631	24,575	222	471	363	363	230,088	3,926	11,322	39,070	29	29
127,494	73,660	776	3,403	48,832	823	197,487	16,942	13,424	177,368	1,166	30
89,034	81,748	3,298	3,298	3,074	914	365,098	7,101	24,938	151,874	4,000	31
242,987	104,586	16,212	9,245	91,979	20,965	1,039,471	27,098	22,204	345,960	91,440	32
14,903	12,519	270	605	1,217	292	65,380	719	8,212	2,611	33	33
29,030	25,260	1,200	1,553	51	966	135,533	3,884	15,071	43,294	2,482	34
22,346	14,716	965	5,546	705	414	170,573	4,064	6,931	14,387	7,195	35
123,032	88,183	4,941	10,335	5,752	13,821	558,071	8,412	21,368	79,008	53,358	36
52,155	50,915	160	140	427	513	397,358	2,369	8,659	18,869	46,592	37
8,905	8,079	48	470	98	210	62,282	1,386	3,456	19,741	38	38
141,807	70,011	3,701	3,261	25,349	39,485	448,826	16,309	26,788	117,287	2,200	39
99,089	79,844	1,353	4,674	813	12,905	493,745	3,993	9,156	23,269	40	40
51,582	19,780	19,628	1,377	8,923	1,874	204,713	7,142	17,526	3,122	100	41
26,765	25,957	446	287	75	75	81,147	7,110	9,489	6,066	42	42
20,970	17,569	445	63	2,893	2,893	100,353	3,608	10,603	8,498	3,000	43
139,194	65,336	207	4,291	6,610	62,750	295,949	9,463	13,668	63,752	44	44
116,522	98,122	165	4,474	11,847	1,914	281,994	3,058	29,768	68,158	3,000	45
219,840	176,367	8,531	11,050	16,733	7,159	620,967	44,590	50,040	191,698	250	46
142,218	125,943	9	13,296	1,703	1,267	1,095,956	22,402	10,227	61,376	19,271	47
50,202	43,963	3,379	2,231	108	521	765,010	22,775	9,397	58,253	48	48
14,719	12,699	25	555	1,440	1,440	62,024	3,750	4,863	12,079	49	49
189,671	175,342	2,001	9,644	221	2,463	1,431,765	16,661	24,314	55,334	13,289	50
13,023	11,329	1,203	491	584	584	80,160	649	6,076	19,026	51	51
40,583	38,234	62	1,703	45	584	215,421	16,088	9,490	57,097	52	52
67,197	64,855	140	2,157	45	45	218,122	19,383	627	96,424	53	53
27,905	22,707	939	2,071	1,050	1,138	132,957	1,513	2,623	9,000	54	54
62,197	61,319	135	521	80	142	372,951	1,588	10,386	71,205	1,000	55
46,473	42,436	175	563	2,044	1,255	426,492	1,428	17,204	39,692	1,000	56
1,018,757	101,536	7,026	42,386	838,722	29,087	6,622,969	71,749	126,183	1,999,239	182,665	57

TABLE 32.—MUNICIPAL CENTRAL ELECTRIC STATIONS—INCOME, BY GEOGRAPHIC DIVISIONS AND STATES: 1912.

DIVISION AND STATE.	Number of stations.	INCOME.								
		Gross income.	Electric service.						Interest and dividends from investments.	All other income.
			Total.	Commercial light, heat, and power.	Municipal street lighting.	Municipal building lighting.	Current sold to other public service corporations.	Estimated value of free service.		
UNITED STATES.....	1,562	\$23,218,989	\$22,663,708	\$15,226,520	\$2,421,089	\$225,089	\$320,759	\$4,469,351	\$22,223	\$533,058
GEOGRAPHIC DIVISIONS:										
New England.....	57	1,856,506	1,799,738	1,335,970	152,571	25,706	24,152	261,339	3,566	53,202
Middle Atlantic.....	102	1,369,651	1,336,750	751,557	192,405	8,178	2,284	382,135	235	32,657
East North Central.....	474	7,654,814	7,501,760	4,307,333	1,003,337	115,698	228,564	1,846,837	14,755	138,290
West North Central.....	399	4,001,668	3,813,230	2,929,769	342,128	14,024	10,257	517,052	2,740	185,098
South Atlantic.....	204	2,551,941	2,527,057	2,055,937	200,664	4,086	37,029	528,441	600	24,284
East South Central.....	128	1,474,208	1,449,402	874,140	85,193	4,305	8,745	477,019	.....	24,806
West South Central.....	122	1,395,808	1,381,075	986,490	64,881	2,882	8,666	318,756	.....	14,128
Mountain.....	39	428,392	423,255	337,017	20,194	2,531	2,295	60,218	16	8,121
Pacific.....	37	2,186,006	2,133,823	1,648,307	359,516	47,670	767	77,554	311	51,872
NEW ENGLAND:										
Maine.....	4	80,495	79,895	13,181	2,417	.....	.....	64,297	.....	600
New Hampshire.....	3	25,632	25,075	20,411	4,464	200	.....	.....	.....	557
Vermont.....	13	167,275	151,623	113,090	27,257	510	6,945	3,221	507	15,145
Massachusetts.....	30	1,293,347	1,265,954	956,155	76,104	21,817	7,997	193,821	3,022	34,371
Rhode Island.....	1	10,548	10,548	6,648	3,900	.....	.....	.....	.....	.....
Connecticut.....	6	279,209	276,043	225,885	38,309	3,179	9,210	.....	37	2,529
MIDDLE ATLANTIC:										
New York.....	49	599,983	583,389	369,908	101,625	5,295	184	106,377	235	16,359
New Jersey.....	8	127,818	125,407	72,578	37,048	.....	.....	15,781	.....	2,411
Pennsylvania.....	45	641,850	627,903	309,071	53,932	2,883	2,100	259,977	.....	13,887
EAST NORTH CENTRAL:										
Ohio.....	118	1,607,498	1,568,632	946,952	154,726	12,512	900	453,542	37	38,829
Indiana.....	71	1,375,955	1,346,017	989,649	122,081	3,067	1,780	229,440	216	20,722
Illinois.....	99	2,405,465	2,386,321	961,545	187,199	20,987	208,230	1,008,350	11,383	7,761
Michigan.....	108	1,653,833	1,608,257	979,000	414,762	73,393	6,094	134,408	2,238	43,398
Wisconsin.....	78	612,003	592,542	429,587	124,569	5,729	11,560	21,097	881	18,580
WEST NORTH CENTRAL:										
Minnesota.....	104	1,078,840	1,032,235	837,655	101,424	6,605	1,439	85,112	.....	46,605
Iowa.....	64	666,718	605,925	485,087	62,917	3,150	1,848	52,923	.....	60,793
Missouri.....	65	804,871	777,548	547,897	60,500	754	150	168,238	2,740	24,583
North Dakota.....	9	122,733	115,880	90,821	13,693	516	.....	10,850	.....	6,853
South Dakota.....	13	146,945	143,111	111,462	7,288	55	.....	24,306	.....	3,834
Nebraska.....	62	557,246	535,162	419,066	28,303	1,844	1,536	84,413	.....	22,084
Kansas.....	82	624,315	603,369	437,781	67,994	1,100	5,284	91,210	.....	20,946
SOUTH ATLANTIC:										
Delaware, District of Columbia, and Maryland.....	13	177,234	175,401	100,699	15,126	100	10,576	39,900	.....	1,833
Virginia.....	14	284,704	284,579	145,104	80,281	454	16,051	42,689	.....	125
West Virginia.....	6	58,008	57,708	9,525	1,500	.....	274	46,409	.....	300
North Carolina.....	48	603,968	602,174	461,745	23,223	539	876	115,791	.....	3,794
South Carolina.....	22	239,724	237,883	165,434	26,106	531	.....	45,812	600	1,241
Georgia.....	84	757,610	744,054	532,015	7,220	260	252	204,307	.....	13,556
Florida.....	17	728,693	725,258	641,415	47,208	3,102	.....	33,533	.....	3,435
EAST SOUTH CENTRAL:										
Kentucky.....	16	245,861	240,518	156,829	7,618	225	2,092	73,754	.....	5,343
Tennessee.....	30	528,993	521,544	195,325	10,700	429	405	314,685	.....	7,449
Alabama.....	35	273,298	270,241	208,973	12,693	1,596	1,236	45,683	.....	3,057
Mississippi.....	47	426,056	417,099	313,013	54,182	2,055	4,952	42,897	.....	8,957
WEST SOUTH CENTRAL:										
Arkansas.....	18	258,573	253,823	166,636	1,872	600	2,500	82,215	.....	4,750
Louisiana.....	23	269,584	266,334	201,202	31,507	1,982	.....	31,643	.....	3,250
Oklahoma.....	63	423,424	421,096	303,952	14,055	.....	766	102,323	.....	2,328
Texas.....	18	444,222	440,422	314,700	17,447	300	5,400	102,575	.....	3,800
MOUNTAIN:										
Montana.....	2	71,107	66,043	56,550	5,455	664	.....	3,374	.....	5,064
Idaho.....	3	77,344	77,244	55,647	.....	.....	.....	21,597	.....	100
Wyoming.....	2	11,868	11,868	9,570	2,120	.....	.....	178	.....	.....
Colorado.....	11	99,007	98,607	76,696	7,632	788	.....	13,491	.....	400
New Mexico.....	3	20,618	20,618	18,356	930	.....	.....	1,332	.....	.....
Utah.....	17	145,562	142,989	118,064	3,373	1,011	295	20,246	16	2,557
Nevada.....	1	2,886	2,886	2,134	684	68	.....	.....	.....	.....
PACIFIC:										
Washington.....	10	1,449,147	1,417,278	1,081,251	277,564	43,534	45	14,884	.....	31,869
Oregon.....	12	112,320	112,060	89,668	13,240	315	.....	8,837	.....	260
California.....	15	624,539	604,485	477,388	68,712	3,830	722	53,833	311	19,743

TABLE 34.—MUNICIPAL CENTRAL ELECTRIC STATIONS—PRIMARY

DIVISION AND STATE	Number of stations.	PRIMARY POWER.									
		Aggregate.		Total steam.		Steam engines.					
						Total.		500 horsepower or under.		Over 500 horsepower and under 2,000 horsepower.	
		Number.	Horse-power.	Number.	Horse-power.	Number.	Horse-power.	Number.	Horse-power.	Number.	Horse-power.
1 UNITED STATES.....	1,562	2,576	550,328	2,024	406,666	1,011	306,493	1,884	284,953	27	21,540
GEOGRAPHIC DIVISIONS:											
2 New England.....	57	124	46,004	77	35,814	60	14,544	58	13,144	2	1,400
3 Middle Atlantic.....	102	101	31,694	146	26,128	140	23,993	138	22,493	2	1,500
4 East North Central.....	474	809	180,626	647	135,560	605	98,538	596	91,148	9	7,390
5 West North Central.....	390	640	84,533	472	72,888	457	65,682	449	59,982	8	5,700
6 South Atlantic.....	204	206	66,845	260	59,103	243	37,878	243	37,878		
7 East South Central.....	128	199	35,806	189	34,342	184	30,167	181	27,417	3	2,750
8 West South Central.....	122	205	31,770	182	30,026	174	28,671	173	24,871	1	800
9 Mountain.....	39	56	10,197	28	4,055	27	3,920	27	3,920		
10 Pacific.....	37	56	71,853	23	8,750	21	6,100	19	4,100	2	2,000
NEW ENGLAND:											
11 Maine.....	4	9	2,488	2	850	2	850	2	850		
12 New Hampshire.....	3	5	1,245	3	845	3	845	3	845		
13 Vermont.....	13	22	6,766	5	1,900	3	430	3	430		
14 Massachusetts.....	30	65	26,077	52	23,922	40	9,622	39	8,872	1	750
15 Rhode Island.....	1	1	100	1	100	1	100	1	100		
16 Connecticut.....	6	22	9,328	14	8,197	11	2,697	10	2,047	1	650
MIDDLE ATLANTIC:											
17 New York.....	49	83	13,501	61	10,446	55	8,311	55	8,311		
18 New Jersey.....	8	15	2,753	11	2,481	11	2,481	11	2,481		
19 Pennsylvania.....	45	93	15,440	74	13,201	74	13,201	72	11,701	2	1,500
EAST NORTH CENTRAL:											
20 Ohio.....	118	102	37,806	163	34,246	160	26,636	157	24,146	3	2,490
21 Indiana.....	71	113	31,317	106	30,837	90	17,483	90	17,483		
22 Illinois.....	99	195	51,001	141	22,721	140	21,971	137	19,471	3	2,500
23 Michigan.....	108	189	46,618	142	36,664	130	22,081	127	19,681	3	2,400
24 Wisconsin.....	78	120	13,884	90	11,092	85	10,367	85	10,367		
WEST NORTH CENTRAL:											
25 Minnesota.....	104	167	21,193	137	18,093	134	16,548	132	15,098	2	1,450
26 Iowa.....	64	104	13,368	78	11,503	77	11,103	76	10,553	1	550
27 Missouri.....	65	106	16,820	101	16,578	99	15,688	96	13,288	3	2,400
28 North Dakota.....	9	15	2,200	15	2,200	15	2,200	15	2,200		
29 South Dakota.....	13	26	2,618	9	1,190	9	1,190	9	1,190		
30 Nebraska.....	62	97	11,762	56	9,841	50	7,520	49	6,770	1	750
31 Kansas.....	82	125	16,572	76	13,483	73	11,433	72	10,883	1	550
SOUTH ATLANTIC:											
32 Delaware.....	6	12	1,620	12	1,620	12	1,620	12	1,620		
33 Maryland.....	7	12	4,154	9	3,949	7	1,349	7	1,349		
34 Virginia.....	14	31	11,206	15	5,400	10	1,300	10	1,300		
35 West Virginia.....	6	8	1,695	6	1,530	6	1,530	6	1,530		
36 North Carolina.....	48	60	9,855	50	8,874	48	7,404	48	7,404		
37 South Carolina.....	22	29	3,980	28	3,920	28	3,920	28	3,920		
38 Georgia.....	84	109	17,133	106	16,643	105	16,588	105	16,588		
39 Florida.....	17	35	17,202	34	17,167	27	4,167	27	4,167		
EAST SOUTH CENTRAL:											
40 Kentucky.....	16	27	7,515	26	7,495	24	5,020	23	4,270	1	750
41 Tennessee.....	30	57	11,345	54	10,820	52	9,270	50	7,270	2	2,000
42 Alabama.....	35	44	6,419	39	5,540	39	5,540	39	5,540		
43 Mississippi.....	47	71	10,527	70	10,487	69	10,337	69	10,337		
WEST SOUTH CENTRAL:											
44 Arkansas.....	18	31	5,980	30	5,830	29	4,980	29	4,980		
45 Louisiana.....	23	42	5,875	38	5,510	36	4,385	36	4,385		
46 Oklahoma.....	63	101	11,982	87	11,036	84	10,756	84	10,756		
47 Texas.....	18	31	7,933	27	7,650	25	5,550	24	4,750	1	800
MOUNTAIN:											
48 Montana.....	2	4	925	4	925	4	925	4	925		
49 Idaho.....	3	6	1,100								
50 Wyoming.....	2	5	276	4	240	4	240	4	240		
51 Colorado.....	11	17	2,915	15	2,115	14	1,980	14	1,980		
52 New Mexico.....	3	6	730	2	300	2	300	2	300		
53 Utah.....	17	18	4,251	3	475	3	475	3	475		
54 Nevada.....	1										
PACIFIC:											
55 Washington.....	10	20	57,625	2	390	2	390	2	390		
56 Oregon.....	12	16	4,673	4	555	4	555	4	555		
57 California.....	15	20	9,555	17	7,805	15	5,155	13	3,155	2	2,000

CENTRAL ELECTRIC LIGHT AND POWER STATIONS.

TABLE 35.—MUNICIPAL CENTRAL ELECTRIC STATIONS—GENERATING AND SUBSIDIARY EQUIPMENT, AND OUTPUT OF STATIONS, BY GEOGRAPHIC DIVISIONS AND STATES: 1912.

Table with columns for Division and State, Number of Stations, Total, Direct current, Alternating and polyphase current, Rotary converters and motor generator sets, Boosters, Storage battery cells, Transformers, Auxiliary generators, and Output of stations. Rows include United States, Geographic Divisions (New England, Middle Atlantic, East North Central, South Atlantic, West South Central, Mountain, Pacific), and various states within these divisions.

STREET AND ELECTRIC RAILWAYS

STREET AND ELECTRIC RAILWAYS.

Classes of railways included.—The statistics represent all railways other than steam roads in operation during any portion of the year 1912. Comparative statistics are also shown for the censuses of 1907, 1902, and 1890.

At the census of 1890 the term "street railways" was used in defining the scope of the inquiry. As a rule, the roads were then operated on the public streets and thoroughfares of urban districts, and electric traction formed less than one-sixth of the total track mileage of street railways. At the census of 1902 the term "street and electric railways" was used, and the same designation was employed at the censuses of 1907 and 1912. Since 1902 there has been an extensive development of suburban and interurban railways, and by 1907 the track mileage outside of city limits constituted nearly two-fifths of the total track mileage covered by the inquiry. The scope of the inquiry has been materially extended by the electrification of steam roads which own their right of way, and with the extension of suburban and interurban electric lines located to a large extent on private rights of way. As at prior censuses, the report covers roads operated with cable and animal power, roads operated with self-propelled cars using gasoline motors, gas-electric motors, and storage batteries, and one road of a street railway character employing steam traction solely.

The statistics for electrically operated divisions of steam roads are included only in cases where a full report could be made therefor separate from the steam railroad operations. Some companies reported the same tracks as operated with both steam and electricity, and others that the traffic and operating statistics of an electrically operated branch do not permit of segregation from those pertaining to the main line operated by steam. Statistics for these roads are not included in this bulletin, but will be specially considered in the final report.

Many electric railway companies sell electricity for lighting and industrial purposes. When it was impossible to obtain complete separate reports for the railway and for the electric light and power operations, the data for both branches were included in the report for the railway. Statistics of the income of such light and power departments of electric railways and the lamps wired for service are shown separately in the report for electric light and power stations. In some cases railway companies are engaged in other business, such as the manufacture of gas or ice, the distribution of natural gas, the operation of a ferry, or have investments in other property not incident to the operation of a railway. When possible, the invest-

ments in such collateral enterprises are reported separate from the investments in railway property, and only the net income derived therefrom is reported as revenue. A notable instance where investment in nonrailway property is not separable from railway property is that of the Hudson Terminal Buildings of the Hudson and Manhattan Railroad of New York City, the subsurface and lower portions of which pertain to railway operations, while a large revenue is derived from office rentals.

Comparisons for different censuses are to some extent affected by the inclusion of incomplete or estimated reports. In 1890 only 706 of the 789 street railways in the country made reports to the Census Office and the statistics for the remaining 83 companies were either obtained from outside sources or estimated. In 1902 the returns were much more complete, and in 1907 only 6 companies failed to furnish financial data. The statistics for 1912 are essentially complete and based upon certified returns. In only a few cases has it been necessary to resort to the reports of public service commissions, railroad commissions, or other sources for data.

The statistics for street and electric railways are presented in detail in the following tables:

TABLE 1.—*Comparative summary: 1890 to 1912.*—The table gives such items of information covered by census inquiries relative to street and electric railways as are comparable with the 1890 census, and the percentages of increase from census to census.

The total trackage owned by the street and electric railway companies in 1912 was 40,470.13 miles, this comprising 33,467.31 miles owned by the operating companies and 7,002.82 miles owned by nonoperating electric railway companies. In addition, the street and electric railways operated, under lease or trackage rights, 649.40 miles of track not owned by electric railway companies, and of the track owned by the electric railway companies, 54.71 miles was idle or leased to steam railroad companies.

The cost of construction and equipment as reported by a large number of companies is practically the par value of their outstanding stock and bonds, but there are many exceptions to this rule, due to a considerable extent to the investment of surplus earnings in plant and equipment without a corresponding increase in capitalization. The amount reported for cost of construction and equipment should not be taken as representing the actual amount invested in tracks, railway equipment, and railway property. It includes investments in installations for the generation of electric power not all of which is used for railway purposes;

the distributing installations of light and power departments of electric railways; some investments in other industries, office buildings, etc., not separable from railway investments; and a large amount of intangible capital, capitalized franchise values, etc.

TABLE 2.—*Power-plant equipment and output of stations: 1912, 1907, and 1902.*—The table shows the number of companies having power plants, the number and capacity of the primary power units, the electric generators or dynamos, and the subsidiary apparatus, by kind, and the quantity of current generated and purchased, with per cent of increase for the census periods.

In 1912, 50.8 per cent of the street and electric railways had their own power plant equipments as compared with 61 per cent in 1907 and 70.6 per cent in 1902; or, in other words, the number of operating companies without power plant equipments has increased from 240, or 29.4 per cent of the total number in 1902, to 480, or 49.2 per cent of the total number in 1912.

On page 15 the statistics for power equipment in both central electric stations and street and electric railways are presented so as to show the total equipment employed in the generation of power and of electricity.

TABLE 3.—*Comparative summary, including traffic, income, and capitalization: 1912, 1907, and 1902.*—This table gives the leading comparable statistics for the three censuses. It covers the number of companies; miles of line and miles of track; rolling stock; persons employed; power, quantity of current generated, and quantity purchased in 1912; traffic data and revenue-passenger ratios; revenues, operating expenses, deductions from income, dividends, and capitalization. Figures are not available for the quantity of current purchased in 1907 and 1902, but the expenditure for power purchased was \$24,546,530 in 1912, as compared with \$12,342,258 in 1907 and \$3,871,518 in 1902. The aggregate of current generated and current purchased involves a duplication of power, as it includes that purchased from railway companies as well as current purchased from electric power companies. It is not practicable to determine the extent of this duplication, though the greater part of the current purchased is generated by electric power companies. The value of current purchased from electric railway companies also enters as a duplication into the financial data, appearing as income in the reports of the railway companies generating the current and as expense in the reports of the companies to which it is sold. Nor can any comparison be made between quantity of current generated and purchased and car mileage, as considerable current is sold by the railway companies for light and industrial purposes. The revenue received from the sale of current for light or power, including sale of current to other public service

corporations, was \$36,500,030 in 1912, \$20,093,302 in 1907, and \$7,703,574 in 1902.

The income of the lessor companies on account of rentals from the operating companies in 1912 was \$35,144,521, as compared with \$47,500,933 in 1907, a decrease of 26 per cent, and the capitalization of the companies leasing their properties was \$751,850,118 in 1912, as compared with \$962,895,722 in 1907, a decrease of 21.9 per cent.

Cars other than passenger cars form an increasing proportion of the total number with each census, and water power shows a marked relative increase over steam and gas power. There also appears under income a relatively large and steady gain in non-transportation and nonoperating income. In this connection a comparison of income and expense on a passenger basis is of interest, and the following tabular statement shows the gross income, the several classes of income, and the distribution accounts reduced to a unit revenue-passenger basis for 1912, 1907, and 1902.

ACCOUNT.	INCOME AND EXPENSE PER REVENUE PASSENGER.		
	1912	1907	1902
	Cents.	Cents.	Cents.
Gross income.....	6.14	5.78	5.25
Transportation revenue.....	5.45	5.25	4.94
Passenger revenue.....	5.27	5.14	4.90
Other transportation revenue.....	0.18	0.11	0.05
Nontransportation income.....	0.69	0.53	0.30
Operating expenses.....	3.49	3.38	2.98
Gross income less operating expenses.....	2.65	2.40	2.27
Deductions from income.....	2.00	1.86	1.63
Net income.....	0.65	0.54	0.64

TABLE 4.—*Track and capitalization, by geographic divisions and states: 1912, 1907, and 1902.*—The table presents the statistics for miles of track owned by the street and electric railway companies and the miles of track operated within each division or state. The miles of track owned is the trackage owned by the companies credited to a division or state and includes any trackage extending outside of the same. The miles of track operated within a division or state excludes outside trackage operated by companies credited to the division or state, and includes trackage within the division or state operated by outside companies. The table also presents the statistics for capitalization, stock and funded debt, dividends, floating debt and mortgages, and the net capitalization per mile of track.

The net capitalization per mile of track takes cognizance of the stocks and bonds of other street and electric railway companies owned by the street and electric railway companies, treasury stocks and bonds held as assets, and nonrailway investments returned

by the reporting companies; these being deducted from the gross capitalization. In many states, as a result of investments in power plants and in distributing installations for light and power departments, the net capitalization per mile of track is greatly inflated, and especially so in Georgia, Tennessee, Oregon, Virginia, and Washington. The average is based upon the miles of single track owned by the companies.

In some cases capital secured for the purpose of construction and equipment is represented by floating debt, but it is impossible to segregate this from that used for current liability requirements, and therefore this form of capitalization has been excluded from the calculations. Though small compared with the funded debt of the railways at large, this item is a considerable factor in certain districts, notably for Massachusetts.

The arrangement of states by geographic divisions and within the divisions in contiguous sequence brings together the statistics for adjacent territory. Interstate railways were assigned, as a rule, to the state in which the majority of the track of the operating company is located, and in the case of lessor companies, to the state of the operating company. Thus the subway trackage credited to New York, includes 11.68 miles located in New Jersey. In a few cases it happens that a nonoperating company domiciled in one state is leased to an operating company which has the bulk of its trackage in an adjoining state, and consequently the statistics for this adjoining state include the data for such lessor company.

TABLE 5.—*Track mileage, by geographic divisions and states: 1912, 1907, and 1902.*—The table presents in detail the trackage statistics classified (1) according to character of track—first or second main, sidings and turnouts; (2) as to title—owned or leased, or operated under trackage rights; (3) as to motive power employed in operation; (4) as to location—whether surface, elevated, or subway; (5) whether city and suburban or interurban; and (6) whether on public thoroughfares or on private right of way.

TABLE 6.—*Rolling stock—Cars (number and kind) and electric locomotives, by geographic divisions and states: 1912, 1907, and 1902.*—This table shows the number of cars classified as revenue cars and service cars, with the former divided into passenger cars, and express, freight, and mail cars. The latter group does not include combination cars for passengers and express, freight, mail, or baggage. Such combination cars are included under "Passenger." The number of cars equipped with motors and the number of electric locomotives are shown separately. The number of cars equipped with motors is the number available for service at one time, and is comparable with the number of motor equipments for motor cars as reported in 1907, and not with the number of motor cars or cars which

when in service have motors, as then reported. For 1902 the inquiry was for number of cars with electrical equipment.

The following statement shows the number of cars equipped with one, two, three, and four electric motors in 1912 and 1907, the number equipped with gasoline motors, and the number of cable cars:

	1912	1907	Per cent of increase.
Number of cars equipped with motors.....	73,779	63,517	16.2
Electric motors.....	73,758	63,504	16.1
One motor.....	1,207	629	91.9
Two motors.....	45,996	45,960	0.7
Three motors.....	749	422	77.5
Four (or more) motors.....	25,806	16,793	53.7
Gasoline motors.....	21	13	61.5
Cable cars.....	268	202	32.7

TABLE 7.—*Rolling stock—Cars (number, kind, and equipment in detail), and electric locomotives, by geographic divisions, and states: 1912.*—The table gives the statistics for brake equipment and for cars classified according to motor or power equipment. The gas-electric cars carry a complete primary power and electric generator equipment with a storage battery as auxiliary.

TABLE 8.—*Primary power, by geographic divisions and states: 1912.*—There were 2,695 primary power units reported for electric railways. Of this number, 2,264 were steam units (1,802 steam engines and 462 steam turbines), 48 gas and oil engines, and 383 water wheels and turbines.

The following tabular statement shows the power units and horsepower, reported for street and electric railways, classified according to size of units and the per cent distribution for each group, by kind of power:

	PRIMARY POWER, CLASSIFIED ACCORDING TO SIZE OF UNITS: 1912.				
	Total.	Size of units.			
		500 horse-power or under.	Over 500 horse-power and under 2,000 horse-power.	2,000 horse-power and under 5,000 horse-power.	5,000 horse-power and over.
Number of units.....	2,695	1,162	1,039	346	148
Steam power.....	2,264	925	907	312	120
Steam engines.....	1,802	892	704	167	39
Steam turbines.....	462	33	203	145	81
Gas and oil engines.....	48	32	13	3	.....
Water wheels and turbines.....	383	205	119	31	28
Horsepower.....	3,665,051	333,374	1,047,001	960,281	1,324,395
Steam power.....	3,169,554	272,892	915,186	871,281	1,110,195
Steam engines.....	1,706,754	264,628	697,017	432,859	312,250
Steam turbines.....	1,462,800	8,264	218,169	438,422	797,945
Gas and oil engines.....	24,190	8,390	8,800	7,000	.....
Water wheels and turbines.....	471,307	52,092	123,015	82,000	214,200
Per cent of total horsepower:					
Steam power.....	86.5	81.9	87.4	90.8	83.8
Steam engines.....	46.6	79.4	66.6	45.1	23.6
Steam turbines.....	39.9	2.5	20.8	45.7	60.2
Gas and oil engines.....	0.7	2.5	0.8	0.7	.....
Water wheels and turbines.....	12.9	15.6	11.7	8.5	16.2

TABLE 9.—*Electric generating and subsidiary equipment, and output of stations, by geographic divisions and states: 1912.*—Attention has been called to the duplication involved in the combined total for current generated and purchased, but it is not relatively large. For 17 of the 49 states the quantity of current purchased exceeds the quantity generated, and for 5 of the states all of the current used by electric railways was purchased from central electric power stations.

TABLE 10.—*Employees, salaries, and wages of operating companies, by classes of occupation, by geographic divisions: 1912, 1907, and 1902.*

TABLE 11.—*Employees, salaries, and wages of operating companies, by classes of occupation, by geographic divisions and states: 1912.*—Of the total amount disbursed for salaries and wages in 1912—namely, \$200,890,939—13 per cent was for salaries, 47.5 per cent for wages of conductors and motormen, and 39.5 per cent for all other wage earners. In 1907 wages of conductors and motormen constituted 50.1 per cent of all salaries and wages, and in 1902, 55.1 per cent.

TABLE 12.—*Traffic statistics—Passengers, car mileage, and car hours, by geographic divisions and states: 1912, 1907, and 1902.*—Car mileage is given for all companies and car hours for 92.2 per cent of the companies in 1912, 77.7 per cent in 1907, and 47.7 per cent in 1902.

The ratios per mile of track are based upon the total trackage operated for passenger business. The ratios, as a rule, show an increase in density of traffic, the average number of passengers per mile of track being larger in most of the states in 1907 and 1912 than at the preceding censuses, and the number of passengers per car mile, or per car hour, in all but a few instances, is also larger.

TABLE 13.—*Condensed income account of operating companies, by geographic divisions and states: 1912, 1907, and 1902.*—The table gives the revenues from operating and miscellaneous sources, operating expenses and deductions from income, the net income, dividends paid, and surplus. It also shows the per cent ratio of operating expenses to operating revenues.

The per cent ratio of operating expenses to operating revenues range in 1912 from a minimum of 48.5 per cent for Oregon to a maximum of 84.9 per cent for New Mexico and Arizona, with an average for the United States of 59.7 per cent. In 1902 the average for the United States was 57.5 per cent, and the range from a minimum of 46.1 per cent for Minnesota to a maximum of 80.7 per cent for Vermont.

In Pennsylvania, Mississippi, Oklahoma, New Mexico, and Arizona the operating expenses and deductions from income exceeded gross income in 1912, and in addition, on account of dividends paid, there resulted a deficit in lieu of a surplus in New Hampshire, New Jersey, Illinois, Colorado, and Oregon. In 1907 a net income deficit appears only for one state—

New Jersey—and for 1902 no state shows a net income deficit. Surplus deficits are found in New York, New Jersey, Pennsylvania, Alabama, and California for 1907, and Vermont and Missouri for 1902.

The per cent distribution of the gross income of operating companies by accounts in 1912, 1907, and 1902 is given in the following tabular statement:

ACCOUNT.	PER CENT DISTRIBUTION, BY ACCOUNTS, OF GROSS INCOME OF OPERATING COMPANIES.		
	1912	1907	1902
Gross income.....	100.0	100.0	100.0
Operating revenues.....	96.9	97.3	98.8
Miscellaneous income.....	3.1	2.7	1.2
Operating expenses.....	56.8	58.5	56.8
Gross income less operating expenses.....	43.2	41.5	43.2
Deductions from income (taxes and fixed charges)...	32.6	32.1	31.0
Net income.....	10.6	9.4	12.2
Dividends.....	8.8	6.2	6.3
Surplus.....	1.8	3.2	5.9

TABLE 14.—*Income account of nonoperating or lessor companies, by states: 1912, 1907, and 1902.*

TABLE 15.—*Condensed income account of operating and lessor companies combined, by states: 1912, 1907, and 1902.*

TABLE 16.—*Operating revenues, by geographic divisions and states: 1912, 1907, and 1902.*—The increase in operating revenues from 1907 to 1912 was \$149,323,846, or at the rate of 35.7 per cent, and for the period 1902–1907 the increase was \$170,633,859, or 68.9 per cent.

In 1912 the transportation revenues were \$520,184,773, or 91.7 per cent of the operating revenues, as compared with \$390,276,347, or 93.3 per cent, in 1907, and \$235,997,005, or 95.3 per cent, in 1902. The following tabular statement shows the per cent distribution of operating revenues according to source for 1912, 1907, and 1902:

ACCOUNT.	PER CENT DISTRIBUTION OF OPERATING REVENUES.		
	1912	1907	1902
Operating revenues, total.....	100.0	100.0	100.0
Transportation.....	91.7	93.3	95.3
Passenger.....	88.6	91.4	94.5
Parlor, chair, and special car.....	0.2	0.2	0.1
Freight.....	1.8	1.3	0.4
Mail.....	0.1	0.2	0.2
Baggage, express, and milk.....	0.6	0.4	0.2
Other.....	0.3	—	—
Nontransportation.....	8.3	6.7	4.7
Sale of electric current.....	6.4	4.8	3.1
Other.....	1.9	1.9	1.6
Transportation revenues, total.....	100.0	100.0	100.0
Passenger, including parlor, chair, special car or chartered car.....	96.8	98.1	99.2
Freight, mail, baggage, or express, and other.....	3.2	1.9	0.8

TABLE 17.—*Revenue from sale of current and income of electric light and power departments, by class of service: 1912, 1907, and 1902.*—This table gives the statistics in detail, with per cent of increase for the census periods.

TABLE 18.—*Revenue from sale of current and income of electric light and power departments, by geographic divisions: 1912.*—Of the 975 railway companies in 1912, 169 operated light and power departments, and the statistics, not being separable from railway operations, are included with the statistics for electric railways. For the several geographic divisions, the income from the sale of electric current ranged from a maximum of 23.7 per cent of the total income for the Mountain division to a minimum of 1.8 per cent of the total income for the Middle Atlantic division, the percentage for the United States being 6.4 per cent.

TABLE 19.—*Operating expenses, by accounts, by geographic divisions and states: 1912, 1907, and 1902.*—The accounts for 1907 and 1902, as given in the report for street and electric railways, 1907, have been revised to conform to the schedule employed for the present census, and the classification prescribed by the Interstate Commerce Commission. The increase in operating expenses from 1907 to 1912 was \$81,587,104, or 32.5 per cent, and from 1902 to 1907, \$108,996,655, or 76.6 per cent.

The per cent distribution of operating expenses by accounts in 1912, 1907, and 1902 is shown in the following statement:

ACCOUNT.	PER CENT DISTRIBUTION OF OPERATING EXPENSES.		
	1912	1907	1902
Operating expenses, total.....	100.0	100.0	100.0
Way and structures.....	13.9	11.4	9.6
Equipment.....	12.0	12.5	11.7
Traffic.....	0.8	0.7	0.8
Conducting transportation.....	57.0	56.1	59.1
Superintendence of transportation.....	2.1	1.4	1.8
Power.....	18.2	17.5	16.2
Operation of cars.....	36.7	37.2	41.0
General and miscellaneous.....	16.3	16.8	17.3
Wages, supplies and expenses incident to electric service, not elsewhere included.....		2.4	1.5

TABLE 20.—*Operating expenses by detailed accounts, by geographic divisions and states: 1912.*—The table also shows the expense reported for the electric light and power departments of electric railways, which expense is included in the operating expense for the railway companies and enters into the various accounts.

Some companies, in their reports, included under the distributed accounts for way and structures, equipment, power, and general and miscellaneous expense, the expense of the light and power departments, while other companies reported the expense in lump for each of

these groups of accounts. The expense of the light and power departments, whether included under distributed accounts or separately reported, is shown as a total.

The per cent distribution of the accounts is given in the following tabular statement for the United States and the several geographic divisions:

DIVISION.	PER CENT DISTRIBUTION OF OPERATING EXPENSES: 1912.								Light and power department of electric railways.	
	Total.	Way and structures.	Equipment.	Traffic.	Conducting transportation.					
					Total.	Superintendence of transportation.	Power.	Operation of cars.		General and miscellaneous.
United States.....	100.0	13.9	12.0	0.8	57.0	2.1	18.2	36.7	16.3	4.3
New England.....	100.0	14.8	12.8	0.7	56.1	2.0	16.5	37.6	15.6	1.3
Middle Atlantic.....	100.0	14.0	12.8	0.5	56.5	2.7	16.5	37.3	16.2	0.7
East North Central.....	100.0	12.4	11.1	0.7	60.5	1.7	20.1	38.7	15.3	4.3
West North Central.....	100.0	16.0	12.7	0.7	54.0	1.8	18.1	34.2	16.5	3.6
South Atlantic.....	100.0	14.1	9.8	1.0	55.6	2.4	20.3	32.9	19.5	16.1
East South Central.....	100.0	13.3	12.2	0.6	52.4	2.3	18.6	31.6	21.5	9.6
West South Central.....	100.0	11.3	11.1	1.1	56.7	2.1	20.4	34.2	19.8	7.8
Mountain.....	100.0	13.3	10.6	1.5	58.8	1.3	24.7	32.8	15.8	18.0
Pacific.....	100.0	15.7	12.2	1.8	55.5	2.0	17.3	36.2	14.8	6.7

TABLE 21.—*Condensed balance sheet of operating and lessor companies combined, by geographic divisions and states: 1912, 1907, and 1902.*—The balance sheets furnished to the Census Bureau are supposed to show the financial condition of the companies at the end of the year covered by their reports. The very general adoption of a standard classification of accounts and forms of reports has tended toward uniformity in methods of bookkeeping. The account of "Other investments" includes the detailed accounts designated in other tables as "Stocks and bonds of other electric railway companies," "Stocks and bonds of companies, other than electric railways," "Treasury securities," and "Other permanent investments;" while "Current and other assets" comprise the balance of the detailed accounts. The table shows also the net surplus (or deficit) for the United States, the geographic divisions, and the states for each year. The net surplus is the difference between the aggregate surplus of the companies showing a surplus and the aggregate deficit of companies showing a deficit, this balance being a net deficit in a few cases. The states with net deficits in 1912 are New Hampshire, Pennsylvania, Mississippi, New Mex-

ico, and Arizona; in 1907, Vermont and Delaware; and in 1902, New Jersey, Illinois, Kansas, North Carolina, and District of Columbia.

TABLE 22.—*Net balance sheet, operating and lessor companies, with percentages of increase and distribution: 1912, 1907 and 1902.*—This table shows the statistics for the two classes of companies combined for the three census years and segregated for 1912 and 1907. Segregated statistics for operating and lessor companies for 1902 are not available.

TABLE 23.—*Net balance sheet, operating and lessor companies, by accounts: 1912.*—While it is necessary

to combine the statistics for operating and lessor companies in order to obtain aggregates for the industry, the financial transactions of the two classes of companies are quite different, and the detailed accounts for the United States are here shown separately. The table shows the assets and liabilities by accounts for operating and lessor companies separately and combined, the net surplus being the net surplus balance.

TABLE 24.—*Balance sheet of operating and lessor companies combined, by geographic divisions and states: 1912.*—This table gives the accounts in detail as reported for the census of 1912.

TABLE 1.—COMPARATIVE SUMMARY: 1890 TO 1912.

	1912	1907	1902	1890	PER CENT OF INCREASE. ¹		
					1907-1912	1902-1907	1890-1902
Number of companies.....	1,260	1,236	987	789	1.9	25.2	25.1
Operating.....	975	945	817	769	3.2	15.7	6.2
Lessor.....	285	261	170	20	-2.1	71.2	750.0
Miles of line.....	² 30,437.86	25,547.19	16,645.34	5,783.47	19.1	53.5	187.8
Miles of track.....	³ 41,064.82	⁴ 34,381.51	⁵ 22,576.99	8,123.02	19.4	52.3	177.9
Operated by—							
Electricity.....	40,808.39	34,037.64	21,901.53	1,261.97	19.9	55.4	1,635.5
Cable.....	56.41	61.71	240.69	488.31	-8.6	-74.4	-50.7
Animal power.....	57.52	136.11	259.10	5,661.44	-57.7	-47.5	-95.4
Steam.....	76.34	105.06	169.61	711.30	-27.3	-38.1	-76.2
Gasoline motor.....	66.16	40.99	⁶ 6.06		61.4		
Cost of construction and equipment.....	\$4,596,563,292	\$3,637,668,708	\$2,167,634,077	\$389,357,289	26.4	67.8	456.7
Number of employees.....	282,461	221,429	140,769	70,764	27.6	57.3	98.9
Number of passenger cars.....	76,162	70,016	60,290	32,505	8.8	16.1	85.5
Number of revenue passengers.....	9,545,554,667	7,441,114,508	4,774,211,904	2,023,010,202	28.3	55.9	136.0
Number of revenue passengers per mile of track.....	⁷ 232,556	⁸ 216,522	⁹ 212,217	249,047	7.4	2.0	-14.8
Per cent ratio of operating expenses to operating revenues..	58.7	60.1	57.5	68.4			

¹ A minus sign (-) denotes decrease.

² Exclusive of 19.73 miles not operated and 18.26 miles leased to steam railroad companies.

³ Exclusive of 23.49 miles not operated and 31.22 miles leased to steam railroad companies.

⁴ Exclusive of 17.05 miles not operated and 5 miles leased to steam railroad companies.

⁵ Exclusive of 17.60 miles of duplicated track but includes 4.47 miles not operated.

⁶ Compressed air.

⁷ Exclusive of trackage of two railways carrying freight only and of track not operated by electric railway companies.

⁸ Exclusive of trackage of one railway carrying freight only and of track not operated by electric railway companies.

⁹ Exclusive of trackage of two railways carrying freight only and of four companies not reporting revenue passengers.

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TABLE 2.—POWER-PLANT EQUIPMENT AND OUTPUT OF STATIONS: 1912, 1907, AND 1902.

	1912	1907	1902 ¹	PER CENT OF INCREASE. ²	
				1907-1912	1902-1907
Number of operating companies.....	975	945	817	3.2	15.7
Number of companies with power-plant equipments.....	495	576	577	-14.1	-0.2
Primary power:					
Number of units.....	2,695	3,637	2,811	-25.9	29.4
Horsepower, rated capacity.....	3,665,051	2,519,823	1,359,285	45.4	85.4
Steam power—					
Number of units.....	2,264	3,368	2,637	-32.8	27.7
Horsepower.....	3,169,554	2,411,527	1,308,207	31.4	84.3
Engines—					
Number.....	1,802	3,116	(³)	-42.2	(³)
Horsepower.....	1,706,754	1,876,123	(³)	-9.0	(³)
Turbines—					
Number.....	462	252	(³)	83.3	(³)
Horsepower.....	1,462,800	535,404	(³)	173.2	(³)
Gas and oil engines—					
Number.....	48	41	15	17.1	173.3
Horsepower.....	24,190	16,335	1,925	48.1	748.6
Water wheels and turbines—					
Number.....	383	228	159	68.0	43.4
Horsepower.....	471,307	91,961	49,153	412.5	87.1
Dynamos:					
Number.....	2,797	3,124	3,302	-10.5	-5.4
Kilowatt capacity.....	2,508,066	1,723,416	893,362	45.5	91.8
Direct current—					
Number.....	1,642	2,192	2,861	-25.1	-23.4
Kilowatt capacity.....	769,875	941,502	725,346	-18.2	29.8
Alternating and polyphase current—					
Number.....	1,155	932	441	23.9	111.3
Kilowatt capacity.....	1,738,191	781,914	173,016	122.3	351.9
Subsidiary equipment:					
Rotary converters and motor generator sets—					
Number.....	2,840	1,862	4,441	52.5	322.2
Kilowatt capacity.....	1,637,260	942,232	160,053	73.8	488.7
Boosters—					
Number.....	183	134	6,104	36.6	28.8
Kilowatt capacity.....	24,807	17,046	13,666	45.5	24.7
Storage batteries, number of cells.....	31,059	63,694	40,477	-51.2	57.4
Transformers—					
Number.....	8,436	5,274	6,657	60.0	218.3
Kilowatt capacity.....	2,357,397	1,133,161	212,569	108.0	433.1
Auxiliary generators—					
Number.....	144	311	771	-53.7	338.0
Kilowatt capacity.....	12,227	19,152	3,763	-36.2	409.0
Output of stations and current purchased, kilowatt hours for year:					
Generated.....	6,052,609,008	4,759,130,100	2,261,484,397	27.2	110.4
Purchased.....	2,967,318,781	(³)	(³)	(³)	(³)

¹ Totals do not include 1 electric motor of 150 horsepower reported as primary power.

² A minus sign (—) denotes decrease.

³ Not reported separately.

⁴ Exclusive of 8 rotary converters for which capacity was not reported.

⁵ Exclusive of 3 boosters for which capacity was not reported.

⁶ Exclusive of 23 transformers for which capacity was not reported.

⁷ Exclusive of 1 auxiliary generator for which capacity was not reported.

⁸ Figures not available.

GENERAL TABLES.

DIVISIONS AND STATES: 1912, 1907, AND 1902.

CLASSIFIED ACCORDING TO MOTIVE POWER.										Surface.	Elevated.	Subway and tunnels.	City and suburban lines.	Inter-urban lines.	On public thoroughfares.	On private right of way.	
Electric.					Cable.	Animal.	Steam.	Other.									
Total.	Line transmission.			Other.													
	Overhead trolley.	Third rail.	Conduit trolley.														
40,808.39	38,958.06	1,395.13	351.72	103.48	56.41	57.52	76.34	766.16	40,532.02	420.10	112.70	24,699.02	16,365.80	26,271.10	14,793.72	1	
34,059.60	32,501.71	1,209.78	322.70	25.50	61.71	136.11	105.06	740.99	33,966.40	366.59	70.57	(13)	(13)	23,431.72	10,971.84	2	
21,901.53	21,290.09	342.91	266.06	2.47	240.69	259.10	169.61	6.06	22,268.05	308.94	(20)	(13)	(13)	18,774.92	3,802.07	3	
5,280.01	5,246.05	33.96				3.10	10.24	1.20	5,249.52	26.58	18.45	3,906.14	1,388.41	4,414.70	879.85	4	
4,879.96	4,860.77					3.00	0.43		4,858.94	16.70	7.75			4,312.06	571.33	5	
4,009.79	3,942.45	67.34				3.00			3,996.77	16.02				3,646.97	365.82	6	
9,990.71	9,068.62	640.28	236.54	45.27	4.92	41.99	5.41		9,707.35	245.04	90.64	6,583.83	3,459.20	6,655.58	3,387.45	7	
8,714.80	7,828.43	659.81	226.56		5.94	93.30	15.94		8,548.64	219.54	61.80			6,084.17	2,745.81	8	
5,917.52	5,607.48	130.18	178.89	0.97	11.26	117.20	100.06	6.06	5,967.14	184.96				5,208.08	944.02	9	
11,764.76	11,301.67	463.09			0.61	2.45	15.87	26.00	11,663.62	144.20	1.87	4,616.92	7,192.77	6,188.72	5,620.97	10	
10,267.22	9,888.55	365.67		3.00	1.21	4.00	45.25	34.49	10,215.80	125.77	0.60			5,721.84	4,620.33	11	
5,962.57	5,815.39	145.39	0.29	1.50	92.31	19.72			5,966.64	107.96				4,655.41	1,419.19	12	
3,089.71	3,050.90			38.81	5.10	3.81			3,095.39	2.88	0.35	2,277.67	820.95	2,170.06	928.56	13	
2,459.85	2,437.85			22.50	3.60	17.02	24.89	3.00	2,504.76	3.18	0.42			1,846.12	662.24	14	
1,671.26	1,671.26				33.00	36.46			1,740.72					1,503.31	237.41	15	
2,922.00	2,787.51		115.18	19.40	0.76		15.08	24.35	2,960.88	1.40		2,106.07	856.21	1,942.71	1,019.57	16	
2,292.45	2,196.31		96.14			5.53	1.50	1.25	2,299.33	1.40				1,544.38	756.35	17	
1,656.47	1,569.69		86.88			13.68			1,670.15					1,221.12	449.03	18	
1,285.41	1,285.41				1.36	0.49			1,286.96		0.30	1,123.40	163.86	941.20	346.06	19	
1,052.81	1,052.81				0.88		11.00		1,064.69					817.96	246.73	20	
731.34	731.34				1.80	3.03	32.00		768.17					647.52	120.65	21	
1,363.05	1,363.05					5.68		7.50	1,376.23			1,054.50	321.73	1,016.48	359.75	22	
831.19	831.19					7.78		2.25	841.22					742.94	98.28	23	
539.09	539.09					15.19			554.28					495.22	59.06	24	
1,001.19	1,001.19						6.13		1,007.32			669.37	337.95	682.66	324.66	25	
601.39	601.39								601.39					488.31	113.08	26	
401.03	401.03					8.45			409.48					386.81	22.67	27	
4,111.46	3,853.66	257.80			43.66		23.61	7.11	4,184.75		1.09	2,361.12	1,824.72	2,258.99	1,926.85	28	
2,970.02	2,804.91	165.11			50.08	5.48	6.05		3,031.63					1,873.94	1,157.69	29	
1,012.46	1,012.46				102.32	42.37	37.55		1,194.70					1,010.48	184.22	30	
533.28	533.28					3.10			536.38			263.60	272.78	441.08	95.30	31	
421.06	421.06					3.00			424.06					356.27	67.79	32	
328.55	328.55					3.00			331.55					301.27	30.28	33	
246.26	246.26								246.26			139.56	106.70	199.20	47.06	34	
247.10	247.10								247.10					196.34	50.76	35	
167.65	167.65								167.65					163.10	4.55	36	
102.85	102.85								102.85			74.61	28.24	70.32	32.53	37	
124.31	124.31								124.31					86.67	37.64	38	
80.55	80.55								80.55					72.76	7.79	39	
3,009.28	2,975.32	33.96						1.20	2,965.45	26.58	18.45	2,214.69	795.79	2,717.08	293.40	40	
2,886.42	2,867.23	19.19					0.43		2,862.40	16.70	7.75			2,622.61	264.24	41	
2,526.65	2,484.20	41.45							2,509.63	16.02				2,347.90	177.75	42	
385.47	385.47						10.24		395.71			384.83	10.88	310.06	85.65	43	
419.92	419.92								419.92					312.67	107.25	44	
328.90	328.90								328.90					256.01	72.89	45	
1,002.87	1,002.87								1,002.87			828.85	174.02	676.96	325.01	46	
781.15	781.15								781.15					737.50	43.65	47	
578.49	552.60	25.89							578.49					505.93	72.56	48	

²² Includes 3.75 miles not operated and 26.50 miles leased from operating companies.
²³ Includes 1.49 miles leased from a manufacturing company.
²⁴ Includes 6.06 miles not operated.
²⁵ Includes 0.33 mile not operated and 19.21 miles leased from operating companies.
²⁶ Includes 7.21 miles on bridges owned by city of New York.
²⁷ Includes 5.79 miles leased from city of Cleveland and 1.52 miles leased from a bridge company.
²⁸ Includes 4 miles not operated.
²⁹ Includes 2.51 miles leased from operating company.
³⁰ Includes 0.63 mile leased from bridge company.
³¹ Gas-electric.
³² Includes 5 miles leased to a steam road.
³³ Includes 11.29 miles leased from operating company.
³⁴ Includes 4.18 miles leased from a manufacturing company and 0.58 mile leased from a bridge company.
³⁵ Includes 16.96 miles storage battery and 2.44 miles storage battery and gasoline motor.
³⁶ Includes 2 miles not operated.
³⁷ Includes 4.13 miles leased from bridge companies.
³⁸ Includes 1.64 miles not operated.
³⁹ Includes 8.51 miles leased from operating companies.
⁴⁰ Leased from a bridge company.
⁴¹ Includes 1.82 miles leased from operating companies.
⁴² Includes 1.46 miles not operated and 26.22 miles leased to steam road.
⁴³ Includes 0.18 mile not operated and 23.05 miles leased from operating companies.
⁴⁴ Leased from a manufacturing company.

GENERAL TABLES.

DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

CLASSIFIED ACCORDING TO MOTIVE POWER.															
Total.	Electric.				Cable.	Animal.	Steam.	Other.	Surface.	Elevated.	Subway and tunnels.	City and suburban lines.	Inter-urban lines.	On public thoroughfares.	On private right of way.
	Line transmission.			Other.											
	Overhead trolley.	Third rail.	Conduit trolley.												
4,563.45	43,802.08	496.66	236.54	° 28.17		41.99		4,292.42	230.80	82.22	2,988.92	1,616.52	3,027.31	1,578.13	49
3,788.24	3,145.82	415.86	226.56		1.15	93.30	2.05	3,623.95	204.61				2,683.46	1,201.28	50
2,590.16	2,280.12	130.18	178.89	0.97	3.96	115.17	94.56	2,624.95	184.96	56.18			2,402.65	1,407.26	51
1,310.85	1,310.29	9.56						1,315.48	4.37		1,052.15	267.70	936.93	382.92	52
1,324.12	1,191.07	132.45						1,316.86	7.26				921.35	402.77	53
858.66	858.66				1.40	1.22		861.28					763.15	98.13	54
4,107.41	3,956.25	134.06		° 17.10	4.92		5.41	4,099.45	9.87	8.42	2,542.76	1,574.98	2,691.34	1,426.40	55
3,692.44	3,490.94	111.50			4.79		13.89	3,607.83	7.67	5.62			2,479.36	1,141.76	56
2,468.70	2,468.70				5.90	0.81	5.50	2,480.91					2,042.28	438.63	57
4,067.06	3,995.88	71.18			0.61	1.45		4,069.12			1,321.70	2,747.42	2,179.61	1,889.51	58
3,723.04	3,651.94	71.10			0.61	1.45	42.00	3,767.10					2,109.88	1,657.22	59
2,351.32	2,351.32				0.61	1.50		2,353.43					1,716.96	636.47	60
2,298.27	2,298.27					1.00	2.07	2,301.34			524.40	1,776.94	705.47	1,595.87	61
1,928.68	1,928.68					1.00	3.25	1,932.93					636.99	1,295.94	62
643.87	643.87					2.79		646.66					468.74	177.92	63
3,080.04	2,832.71	253.33					13.80	2,979.77	144.20	1.87	1,783.15	1,342.69	1,864.58	1,261.26	64
2,739.82	2,623.38	213.44		3.00	0.60	1.55		2,650.09	125.77	0.60			1,727.16	1,049.30	65
1,528.07	1,417.81	108.76		1.50	91.70	15.43		1,527.24	107.93				1,420.83	214.37	66
1,507.26	1,368.68	138.58						1,507.26			595.83	911.43	970.38	536.88	67
1,275.03	1,193.90	81.13						1,275.03					831.86	443.17	68
1,022.81	985.89	36.63	0.29					1,022.81					700.93	321.88	69
806.13	806.13							806.13			391.84	414.29	468.68	337.45	70
590.65	590.65							590.65					415.95	174.70	71
416.50	416.50							416.50					347.95	68.55	72
552.55	513.74			° 38.81	2.63			555.18			516.37	38.81	453.51	101.67	73
456.02	456.02				1.13			457.15					401.21	55.94	74
338.17	338.17							338.17					324.59	13.58	75
803.87	803.87							803.87			376.88	426.99	454.96	348.91	76
619.45	619.45						20.39	639.84					331.32	308.52	77
374.43	374.43					3.82		378.25					298.78	79.47	78
993.53	993.53				2.47			992.87	2.88	0.25	913.43	82.57	774.31	221.69	79
919.20	919.20				2.47			918.07	3.18	0.42			744.63	177.04	80
719.48	719.48				33.00	5.90		758.38					629.51	128.87	81
26.02	26.02							26.02			22.43	3.59	24.08	1.94	82
16.09	16.09							16.09					16.09		83
21.59	21.59							21.59			21.59		19.94	1.65	84
5.00	5.00							5.00					5.00		85
						2.00		2.00					2.00		86
242.00	242.00					1.80		243.80			218.16	25.64	227.02	16.78	87
211.01	211.01					3.22	4.60	218.73					195.66	23.07	88
110.55	110.55					3.11		113.66					111.33	2.33	89
450.15	450.15					2.01		452.06		0.10	208.81	243.35	216.24	235.92	90
233.08	210.58			22.50		13.80		249.88					152.21	97.67	91
128.63	128.63					21.63		150.26					137.10	13.16	92
90.37	79.57			° 10.80				90.37			79.57	10.80	67.17	23.20	93
95.93	95.93							95.93					71.19	24.74	94
85.61	85.61							85.61					58.31	27.30	95
685.08	682.52			° 3.16			6.83	691.11	1.40		458.88	233.63	459.61	232.90	96
536.18	536.18							534.78	1.40				306.25	229.93	97
437.84	437.84							437.84					223.02	214.82	98
214.23	99.94	111.85		° 2.44				214.23			214.23		163.84	50.39	99
176.03	83.17	92.86						176.03					138.34	37.69	100
161.97	76.89	85.08						161.97					125.16	36.81	101
554.88	551.55	3.33			0.76		6.22	561.86			429.70	132.16	301.87	259.99	102
515.54	512.26	3.28					2.00	515.54					286.85	228.69	103
357.30	355.50	1.80						359.30					275.72	83.58	104
404.98	404.98							404.98			147.76	257.22	245.77	159.21	105
266.41	266.41							266.41					223.26	43.15	106
140.00	140.00							140.00					116.70	23.30	107
188.23	188.23						2.03	190.26			138.13	52.13	137.60	52.66	108
104.19	104.19						1.50	106.94					79.93	27.01	109
46.32	46.32							46.32					35.59	10.73	110
202.60	199.60			° 3.00				202.60			112.65	89.95	105.23	97.37	111
129.76	129.76					1.50		131.26					73.06	58.20	112
73.80	73.80					3.18		76.98					58.85	18.13	113

° Gas-electric.

¹⁰ Includes 4 miles not operated.

¹¹ Includes 2.51 miles leased from operating company.

¹² Includes 0.63 mile leased from bridge company.

¹³ Storage battery and gasoline motor.

¹⁴ Leased from a manufacturing company.

¹⁵ Includes 11.29 miles leased from operating company.

¹⁶ Includes 0.58 mile leased from a bridge company.

STREET AND ELECTRIC RAILWAYS.

TABLE 5.—TRACK MILEAGE, BY GEOGRAPHIC

STATE.	Census.	Total.	MAIN TRACK.			Sidings and turn-outs.	Owned by operating company.	LEASED.			OPERATED UNDER TRACK-AGE RIGHTS.		
			Total.	Road or first track.	Second (including third, etc.), tracks.			Total.	From electric companies.	From steam companies.	Total.	From electric companies.	From steam companies.
SOUTH ATLANTIC—Contd.													
114	Georgia.....	1912	440.63	428.63	340.51	88.12	12.00	¹ 246.85	198.78	198.78		6.00	6.00
115		1907	354.18	342.85	264.29	78.56	11.33	354.18				3.01	3.01
116		1902	300.38	294.40	222.18	72.22	5.98	300.38				3.00	3.00
117	Florida.....	1912	164.84	152.22	140.61	11.61	12.62	152.47				12.37	12.37
118		1907	118.26	113.54	106.82	6.72	4.72	117.26	1.00		1.00		
119		1902	61.75	59.07	57.43	1.64	2.68	61.75					
EAST SOUTH CENTRAL:													
120	Kentucky.....	1912	493.21	475.37	356.74	118.63	17.84	490.02	3.19		² 3.19	32.80	32.80
121		1907	389.13	375.35	268.28	107.07	13.78	385.36	3.77		3.77	4.88	4.88
122		1902	283.95	280.45	188.56	91.89	3.50	283.95				12.41	12.41
123	Tennessee.....	1912	370.28	350.16	259.05	91.11	20.12	369.34	0.94		² 0.94	5.60	5.60
124		1907	297.50	276.38	198.90	77.48	21.12	297.50					
125		1902	254.20	246.50	199.87	46.63	7.70	254.20					
126	Alabama.....	1912	306.63	290.44	225.62	64.82	16.19	³ 303.91	3.80	3.30	0.50	0.92	0.92
127		1907	291.66	265.87	214.73	51.14	25.79	291.16	0.50		0.50		
128		1902	204.72	189.45	167.70	21.75	15.27	204.72					
129	Mississippi.....	1912	117.14	109.14	107.04	2.10	8.00	117.14					
130		1907	86.40	81.32	79.82	1.50	5.08	86.40					
131		1902	25.30	24.31	23.74	0.57	0.99	25.30					
WEST SOUTH CENTRAL:													
132	Arkansas.....	1912	122.92	116.14	95.15	20.99	6.78	122.25	0.67		² 0.67		
133		1907	87.39	83.03	63.45	19.58	4.36	87.39					
134		1902	52.49	50.00	38.01	11.99	2.49	52.49					
135	Louisiana.....	1912	285.10	268.40	198.67	69.73	16.70	155.55	129.55	129.55		4.61	4.61
136		1907	238.52	226.54	161.76	64.78	11.98	119.24	119.28	119.28		0.32	0.32
137		1902	198.52	193.58	134.07	58.91	4.94	198.52					
138	Oklahoma.....	1912	251.56	232.17	214.48	17.69	19.39	⁴ 251.61	0.27	0.27		0.26	0.26
139		1907	100.44	96.47	89.00	7.47	3.97	100.44					
140	Texas.....	1912	716.65	679.52	597.32	82.20	37.13	⁶ 713.41	12.81	⁶ 12.43	² 0.38	22.25	22.25
141		1907	414.87	393.57	335.23	58.34	21.30	414.87				8.93	8.93
142		1902	303.27	294.36	254.55	39.81	8.91	303.27				6.08	6.08
MOUNTAIN:													
143	Montana.....	1912	99.22	94.05	82.37	11.68	5.17	99.22					
144		1907	69.24	67.55	57.85	9.70	1.69	69.24					
145		1902	63.21	62.36	55.19	7.17	0.85	63.21					
146	Colorado.....	1912	467.97	429.36	348.43	80.93	38.61	434.68	11.68	⁷ 3.50	8.18	54.07	30.64
147		1907	317.37	295.11	206.36	88.75	22.26	317.37	2.18			2.18	2.18
148		1902	234.53	223.53	154.17	69.36	11.00	232.98	1.55	1.55			
149	New Mexico.....	1912	10.60	10.00	10.00		0.60	10.60					
150		1907	10.10	9.40			0.70	10.10					
151		1902	2.10	2.00	2.00		0.10	2.10					
152	Arizona.....	1912	46.24	45.32	44.19	1.13	0.92	46.24					
153		1907	30.75	29.42	28.42	1.00	1.33	30.75					
154		1902	17.10	16.00	15.00	1.00	1.10	17.10					
155	Idaho.....	1912	88.93	87.83	87.83		1.10	12.39	76.54	76.54			
156		1907	44.24	43.00	43.00		1.24	44.24					
157		1902	3.50	3.33	3.33		0.17	3.50					
158	Wyoming.....	1912	22.91	20.80	20.80		2.11	22.91					
159	Nevada.....	1912	11.27	10.73	10.73		0.54	11.27				0.50	0.50
160		1907	7.15	7.00	7.00		0.15	7.15					
161	Utah.....	1912	260.18	239.66	189.61	50.05	20.52	260.18					
162		1907	122.54	116.28	82.79	33.49	6.26	114.79	7.75	7.75			
163		1902	89.04	88.20	58.00	30.20	0.84	89.04					
PACIFIC:													
164	Washington.....	1912	1,035.92	923.16	739.07	184.09	112.76	⁸ 1,015.47	39.71	⁹ 39.71	6.19	24.90	19.47
165		1907	764.73	659.34	563.48	125.86	75.39	744.80	19.93	13.74		12.17	12.17
166		1902	228.93	211.53	181.89	29.64	17.40	228.93					
167	Oregon.....	1912	544.64	463.59	389.11	74.48	81.05	544.64				9.59	9.59
168		1907	253.41	228.35	169.28	59.07	25.06	253.41					
169		1902	156.67	131.30	94.40	36.90	5.37	156.67				3.81	3.81
170	California.....	1912	2,605.28	2,382.24	1,765.83	616.41	223.04	¹⁰ 2,498.74	99.78	60.27	39.51	46.81	13.83
171		1907	2,013.49	1,902.91	1,264.10	638.81	110.58	2,002.81	263.02	263.02		5.36	5.36
172		1902	829.10	819.95	551.40	268.55	9.15	829.10				10.85	10.85

¹ Includes 5 miles leased to steam road.² Leased from a bridge company.³ Includes 2 miles not operated.⁴ Includes 0.58 mile not operated.⁵ Includes 1.06 miles not operated.

GENERAL TABLES.

DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

CLASSIFIED ACCORDING TO MOTIVE POWER.																
Electric.					Cable.	Animal.	Steam.	Other.	Surface.	Elevated.	Subway and tunnels.	City and suburban lines.	Inter-urban lines.	On public thoroughfares.	On private right of way.	
Total.	Line transmission.			Other.												
	Overhead trolley.	Third rail.	Conduit trolley.													
428.53	428.53						12.10	440.63				375.31	65.32	351.56	89.07	114
351.28	351.28					2.90		354.18						279.40	74.78	115
296.63	296.63					3.75		300.38						266.39	33.99	116
152.59	152.59							164.84				149.84	15.00	110.06	54.78	117
117.13	117.13					1.13		118.26						86.10	32.16	118
57.00	57.00					4.75		61.75						61.88	0.87	119
493.21	493.21							493.21				366.31	126.90	313.25	179.96	120
389.13	389.13							389.13						269.64	119.49	121
283.95	283.95							283.95						253.53	30.42	122
360.31	360.31				0.97			369.98		0.30		342.40	27.88	313.99	56.29	123
296.62	296.62				0.88			297.50						273.80	23.70	124
248.40	248.40				1.80		4.00	254.20						235.04	19.16	125
306.63	306.63							306.63				306.63		216.04	90.59	126
280.66	280.66							281.06						194.56	97.10	127
173.60	173.69					3.03	11.00	204.72						134.39	70.33	128
116.26	116.26				0.39	0.49		117.14				108.06	9.08	97.92	19.22	129
86.40	86.40							86.40						79.96	6.44	130
25.30	25.30							25.30						24.56	0.74	131
121.04	121.04					0.98		122.92				122.92		118.45	4.47	132
86.41	86.41					0.98		87.39						86.67	0.72	133
49.83	49.83					2.66		52.49						51.39	1.10	134
285.10	285.10							285.10				271.60	13.50	257.09	28.01	135
238.52	238.52							238.52						228.64	11.88	136
192.86	192.86					5.66		198.52						193.96	4.56	137
251.56	251.56							251.56				143.06	108.50	119.77	131.79	138
100.44	100.44							100.44						69.76	30.68	139
704.45	704.45				4.70		7.50	716.65				516.92	199.73	521.17	195.48	140
405.82	405.82				6.80		2.25	414.87						359.87	55.00	141
296.40	296.40				6.87			303.27						249.87	53.40	142
99.22	99.22							99.22				91.34	7.88	75.53	23.69	143
69.24	69.24							69.24						53.86	15.38	144
63.21	63.21							63.21						54.79	8.42	145
467.97	467.97							467.97				333.92	134.05	315.42	152.55	146
317.37	317.37							317.37						261.18	56.19	147
233.28	233.28					1.25		234.53						223.66	10.87	148
10.60	10.60							10.60				9.50	1.10	10.35	0.25	149
10.10	10.10					2.10		10.10						9.85	0.25	150
								2.10						2.10		151
46.24	46.24							46.24				28.82	17.42	24.54	21.70	152
30.75	30.75							30.75						22.75	8.00	153
12.00	12.00					5.10		17.10						14.10	3.00	154
88.93	88.93							88.93				20.14	68.79	17.09	71.84	155
44.24	44.24							44.24						14.44	29.80	156
3.50	3.50							3.50						3.50		157
22.91	22.91							22.91				11.91	11.00	11.91	11.00	158
11.27	11.27							11.27				3.30	7.97	11.27		159
7.15	7.15							7.15						6.49	0.66	160
254.05	254.05						6.13	260.18				170.44	89.74	216.55	43.63	161
122.54	122.54							122.54						119.74	2.80	162
89.04	89.04							89.04						88.66	0.38	163
1,026.31	963.30	63.01			9.61			1,035.92				608.04	427.88	617.39	418.53	164
743.64	693.23	50.41			15.04		6.05	764.73						410.82	353.91	165
214.33	214.33				14.60			228.93						141.33	87.60	166
521.03	521.03						23.61	543.85		0.79		243.24	301.40	254.90	289.74	167
252.39	252.39					1.02		253.41						166.47	86.94	168
132.17	132.17				2.00		2.50	136.67						116.51	20.16	169
2,564.12	2,369.33	194.79			34.05		7.11	2,604.98		0.30		1,509.84	1,095.44	1,386.70	1,218.58	170
1,973.99	1,859.29	114.70			35.04	4.46		2,013.49						1,296.65	716.84	171
665.96	665.96				85.72	42.37	35.05	829.10						752.64	76.46	172

⁶ Includes 8.51 miles leased from operating companies.

⁷ Includes 1.82 miles leased from operating companies.

⁸ Includes 1.46 miles not operated.

⁹ Includes 0.18 mile not operated and 23.05 miles leased from operating companies.

¹⁰ Includes 26.22 miles leased to steam roads.

TABLE 6.—ROLLING STOCK—CARS (NUMBER AND KIND) AND ELECTRIC LOCOMOTIVES, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

DIVISION AND STATE.	Cen-sus.	CARS.				Cars equipped with motors.	Elec-tric loco-motives.	DIVISION AND STATE.	Cen-sus.	CARS.				Cars equipped with motors.	Elec-tric loco-motives.
		Total.	Revenue cars.		Serv-ice cars: Work cars, snow-plows, sweep-ers, etc.					Total.	Revenue cars.		Serv-ice cars: Work cars, snow-plows, sweep-ers, etc.		
			Pas-senger.	Ex-press, freight, mail, and baggage.							Pas-senger.	Ex-press, freight, mail, and baggage.			
SOUTH ATLANTIC—Con.							MOUNTAIN:								
Georgia.....	1912	730	645	29	56	667	1	Montana.....	1912	160	139	1	20	128	.....
	1907	618	549	33	36	532	.....		1907	126	108	4	14	96	.....
	1902	497	454	17	26	408	.....		1902	109	90	9	10	79	.....
Florida.....	1912	269	228	22	19	227	.....	Colorado.....	1912	785	551	163	71	460	2
	1907	221	189	25	7	181	.....		1907	631	474	98	59	418	1
	1902	111	101	6	4	85	.....		1902	393	352	1	40	345	.....
EAST SOUTH CENTRAL:							New Mexico.....								
Kentucky.....	1912	1,010	850	30	130	879	.....		1912	11	10	.....	1	11	.....
	1907	879	808	11	60	750	.....		1907	13	12	1	.....	13	1
	1902	976	889	2	85	704	.....		1902	8	8	.....	.....	.....	.....
Tennessee.....	1912	872	806	2	64	722	1	Arizona.....	1912	41	37	.....	4	35	.....
	1907	747	684	5	58	649	.....		1907	27	27	.....	.....	24	.....
	1902	575	555	3	17	470	.....		1902	19	17	.....	2	12	.....
Alabama.....	1912	596	475	55	66	388	.....	Idaho.....	1912	42	37	3	2	41	.....
	1907	596	488	35	73	405	.....		1907	28	22	6	.....	23	.....
	1902	370	311	21	38	233	.....		1902	3	3	.....	.....	3	.....
Mississippi.....	1912	197	155	28	14	141	2	Wyoming.....	1912	22	20	.....	2	12	.....
	1907	139	124	2	13	114	2	Nevada.....	1912	11	9	.....	2	11	.....
	1902	49	47	.....	2	37	.....		1907	7	6	.....	1	7	.....
WEST SOUTH CENTRAL:							Utah.....								
Arkansas.....	1912	287	250	4	33	236	1		1912	454	261	73	120	218	8
	1907	212	202	1	9	182	.....		1907	198	151	.....	47	156	3
	1902	135	130	2	3	89	.....		1902	158	149	.....	9	132	.....
Louisiana.....	1912	747	681	2	64	722	.....	PACIFIC:							
	1907	631	599	1	31	556	.....	Washington.....	1912	1,904	976	816	112	1,336	28
	1902	670	626	.....	44	595	.....		1907	1,762	791	837	134	719	19
Oklahoma.....	1912	300	257	8	35	226	3		1902	431	312	14	105	268	.....
	1907	146	117	8	21	112	1	Oregon.....	1912	1,400	722	494	184	662	22
	1902	.....	.....	.....	.....	.....	.....		1907	670	466	179	25	433	7
Texas.....	1912	1,159	1,058	15	86	952	1		1902	279	250	5	24	200	.....
	1907	827	779	5	43	799	.....	California.....	1912	4,652	2,791	1,507	354	2,809	49
	1902	474	449	4	21	366	.....		1907	3,760	2,406	971	383	2,387	15
									1902	2,056	1,850	48	158	1,139	.....

STREET AND ELECTRIC RAILWAYS.

TABLE 7.—ROLLING STOCK—CARS (NUMBER, KIND, AND EQUIPMENT IN DETAIL)

DIVISION AND STATE.	CARS.										
	Aggregate number.	Revenue.									Express, freight, mail, and baggage.
		Total.	Passenger.					Included with passenger.			
			Total.	Closed.	Open.	Combination.		Prepayment.	Parlor, sleeping, dining, and private.		
						Closed and open.	Passenger with baggage, express, freight, or mail.				
1 UNITED STATES.....	94,016	88,956	76,162	48,123	18,993	7,985	1,061	10,012	149	7,794	
2 GEOGRAPHIC DIVISIONS:											
3 New England.....	13,845	11,958	11,618	5,479	5,580	535	24	104	10	340	
4 Middle Atlantic.....	30,507	27,456	26,821	17,381	6,498	2,725	217	5,471	19	635	
5 East North Central.....	21,686	19,042	16,286	12,185	3,064	511	526	4,815	64	2,756	
6 West North Central.....	6,405	5,804	5,291	4,342	758	147	44	2,046	11	513	
7 South Atlantic.....	6,923	6,410	6,061	3,195	1,921	867	78	971	9	349	
8 East South Central.....	2,675	2,401	2,286	1,558	493	208	27	912	2	115	
9 West South Central.....	2,493	2,275	2,246	1,580	323	330	13	628	2	29	
10 Mountain.....	1,526	1,304	1,064	454	176	413	21	28	3	240	
Pacific.....	7,956	7,366	4,489	1,949	180	2,249	111	1,037	29	2,817	
11 NEW ENGLAND:											
12 Maine.....	794	599	519	223	260	35	1		2	80	
13 New Hampshire.....	368	308	304	139	164	1				4	
14 Vermont.....	155	127	119	55	55	6	3			8	
15 Massachusetts.....	9,116	7,998	7,877	3,650	3,731	487	9	104	8	121	
16 Rhode Island.....	1,219	1,060	976	525	447	5	4			84	
Connecticut.....	2,193	1,866	1,823	887	923	6	7			43	
17 MIDDLE ATLANTIC:											
18 New York.....	18,073	16,523	16,095	9,810	3,590	2,587	108	2,290	16	428	
19 New Jersey.....	3,061	2,704	2,697	1,960	716	15	6	1,113	2	7	
Pennsylvania.....	9,373	8,229	8,029	5,611	2,192	123	103	2,068	1	200	
20 EAST NORTH CENTRAL:											
21 Ohio.....	6,283	5,488	5,122	3,267	1,259	352	244	1,241	19	366	
22 Indiana.....	2,408	1,940	1,612	845	550	1	216	47	3	328	
23 Illinois.....	8,843	8,189	6,272	5,539	685	21	27	2,791	32	1,017	
24 Michigan.....	2,822	2,406	2,268	1,649	470	127	22	477	7	138	
Wisconsin.....	1,330	1,019	1,012	585	100	10	17	259	3	7	
25 WEST NORTH CENTRAL:											
26 Minnesota.....	1,130	1,071	1,044	1,026	11		7	6	1	27	
27 Iowa.....	1,465	1,360	1,362	629	302	7	24	162	1	398	
28 Missouri.....	2,683	2,352	2,325	2,021	177	123	4	1,513	9	27	
29 North Dakota.....	64	57	57	21	35		1				
30 South Dakota.....	29	25	25	11	5		9				
31 Nebraska.....	548	500	490	353	134		3	271		10	
Kansas.....	477	439	388	281	94		5	94		51	
32 SOUTH ATLANTIC:											
33 Delaware.....	200	184	183	90	80	10	3	10		1	
34 Maryland.....	2,186	2,055	1,892	593	574	696	29	185	6	163	
35 District of Columbia.....	1,454	1,361	1,353	902	451			416		8	
36 Virginia.....	946	827	794	513	218	47	16	173	2	33	
37 West Virginia.....	537	497	473	265	157	25	26	2		21	
38 North Carolina.....	325	303	279	149	120	10		8		24	
39 South Carolina.....	276	259	214	167	86	9		33		45	
40 Georgia.....	730	674	645	423	157	64	1	100	1	29	
Florida.....	269	250	228	93	128	6	1	44		22	
41 EAST SOUTH CENTRAL:											
42 Kentucky.....	1,010	880	850	599	80	146	25	426	2	30	
43 Tennessee.....	872	808	806	530	269	7		435		2	
44 Alabama.....	596	530	475	353	110	12		4		55	
Mississippi.....	197	183	155	76	34	43	2	47		28	
45 WEST SOUTH CENTRAL:											
46 Arkansas.....	287	254	250	123	75	50	2	62		4	
47 Louisiana.....	747	683	681	647	24	9	1		2	2	
48 Oklahoma.....	300	265	257	151	66	32	8	72		8	
Texas.....	1,159	1,073	1,058	659	158	239	2	494		15	
49 MOUNTAIN:											
50 Montana.....	160	140	139	98	38	3		15		1	
51 Colorado.....	785	714	551	88	72	387	4	8	3	163	
52 New Mexico.....	11	10	10	7		2	1				
53 Arizona.....	41	37	37	10	9	15	3				
54 Idaho.....	42	40	37	26	1	3	7			3	
55 Wyoming.....	22	20	20	16	4			5			
56 Nevada.....	11	9	9	9							
Utah.....	454	334	261	200	52	3	6			73	
57 PACIFIC:											
58 Washington.....	1,904	1,792	976	630	16	285	45	131	4	816	
59 Oregon.....	1,400	1,216	722	574	112	16	20	140	6	494	
California.....	4,652	4,298	2,791	745	52	1,948	46	766	19	1,507	

GENERAL TABLES.

AND ELECTRIC LOCOMOTIVES, BY GEOGRAPHIC DIVISIONS AND STATES: 1912.

CARS—continued.														
Cars classified according to equipment.														
Service cars: Work cars, snowplows, sweepers, etc.	Brakes.		Motors: number of cars equipped with—										Electric loco- motives.	
	Hand brakes ex- clusively.	Other types of brakes, including air brakes.	Electric motors.						Included with preceding.		Gasoline motors.	Cable.		
			Total.	One motor.	Two motors.	Three motors.	Four motors:	More than four motors.	Storage battery.	Gas- electric.				
10,060	40,304	53,360	73,758	1,207	45,996	749	25,784	22	98	9	21	268	277	1
1,887	8,080	5,758	12,786	960	7,364	9	4,449	4			2		22	2
3,051	13,327	17,085	24,090	70	17,882	585	6,163	10	92			18	39	3
2,644	7,107	14,445	15,527	41	8,416	113	6,951	6			3	4	56	4
601	1,931	4,457	5,258	5	2,222	9	3,022			9		9	32	5
513	4,832	2,031	5,518	30	4,210	42	1,236					2	11	6
274	1,653	998	2,130	20	1,466	6	638		6		6	26	3	7
218	1,675	814	2,131	37	1,749		345					5	5	8
222	474	1,045	916	22	465	5	422	2					10	9
650	1,225	6,727	4,802	22	2,222		2,558				5	209	99	10
195	553	241	570	2	342		226						8	11
60	160	208	347	30	167	3	145	2					2	12
28	102	53	137		95		42						2	13
1,118	5,042	3,107	8,445	927	5,191	6	2,319	2			2		5	14
159	476	743	1,420	1	501		618						5	15
327	847	1,346	2,167		1,068		1,099						5	16
1,550	8,512	9,480	14,177	40	11,452	447	2,229	9	88				30	17
357	1,286	1,773	2,600	11	1,020	6	1,563						1	18
1,144	3,529	5,823	7,913	19	5,410	112	2,371	1	4			18	8	19
795	2,319	3,941	5,172	16	3,108	30	2,012	6				4	16	20
468	1,042	1,347	1,546	5	1,002	21	518						6	21
654	2,459	6,370	5,774	14	2,362	58	3,340				3		28	22
416	489	2,246	2,119	3	1,691	3	422						3	23
311	798	532	916	3	253	1	659						3	24
68	124	1,006	1,080	2	77	1	1,000			9		4		25
105	617	848	828		614		214						22	26
331	548	2,127	2,429	2	750	5	1,042					5	7	27
7	62	2	34		31	2	1							28
4	29		25		24		1							29
48	267	281	485		414		71						2	30
38	284	193	377	1	282	1	93						1	31
16	174	26	200		191		9		1					32
131	1,452	734	1,600		1,091	1	598		1					33
93	1,265	189	1,020	2	863	23	132		1		1		2	34
119	522	401	763		593	4	166						1	35
40	237	294	461		309		152						1	36
22	272	53	270	1	232	14	23						2	37
17	269	12	225	21	172		32		3				4	38
56	497	231	653	3	573		87				4		1	39
19	160	91	226	3	166		37				1			40
130	633	377	879	18	549	1	311							41
64	576	296	722		547		175				2		1	42
66	352	204	388	2	254		132							43
14	112	61	141		116	5	20					24	2	44
33	214	72	236	5	216		15						1	45
64	517	229	722	8	692		22							46
35	185	113	226	1	167		58						3	47
86	759	400	947	23	674		250				5		1	48
20	37	123	128	5	97	1	25							49
71	223	555	460	12	209	4	233	2					2	50
1	11		11		10		1							51
4	22	19	35	3	25		7							52
2	10	32	41		14		27							53
2	13	9	12		8		4							54
2	4	7	11	2	9									55
120	154	300	218		93		125						8	56
112	518	1,386	1,336	2	233		1,101					77	28	57
184	89	1,311	662		515		147						22	58
354	618	4,030	2,804	20	1,474		1,310				5	132	49	59

STREET AND ELECTRIC RAILWAYS.

TABLE 11.—EMPLOYEES, SALARIES, AND WAGES OF OPERATING COMPANIES,

DIVISION AND STATE.	Number of companies.	TOTAL.		SALARIED EMPLOYEES.			
		Number.	Salaries and wages.	Total.		Salaried officers of corporation.	
				Number.	Salaries.	Number.	Salaries.
1 UNITED STATES.....	975	282,461	\$200,890,939	23,271	\$26,128,786	1,927	\$5,708,553
GEOGRAPHIC DIVISIONS:							
2 New England.....	91	34,224	23,285,975	1,991	2,329,050	144	457,562
3 Middle Atlantic.....	246	93,811	66,387,065	6,895	8,071,708	511	1,656,386
4 East North Central.....	222	66,721	47,607,646	5,414	5,774,907	576	1,466,386
5 West North Central.....	83	20,930	15,986,008	1,659	1,925,201	138	487,538
6 South Atlantic.....	107	19,958	12,501,028	2,158	2,231,507	209	555,166
7 East South Central.....	45	9,375	5,824,724	780	953,189	102	298,183
8 West South Central.....	79	8,393	5,717,503	810	901,842	72	162,055
9 Mountain.....	40	4,498	3,997,836	494	614,107	51	129,304
10 Pacific.....	60	24,551	19,583,154	3,070	3,327,280	124	495,973
NEW ENGLAND:							
11 Maine.....	16	1,771	1,302,347	175	164,700	26	50,068
12 New Hampshire.....	13	837	512,100	68	68,599	13	14,855
13 Vermont.....	9	268	175,609	43	38,286	12	17,429
14 Massachusetts.....	43	23,169	15,680,837	1,259	1,566,180	72	321,314
15 Rhode Island and Connecticut.....	10	8,179	5,615,022	446	491,285	21	53,896
MIDDLE ATLANTIC:							
16 New York.....	101	55,683	40,315,540	3,878	4,661,467	243	979,084
17 New Jersey.....	24	9,436	6,105,245	918	1,091,295	53	149,423
18 Pennsylvania.....	121	28,602	19,966,280	2,099	2,318,941	215	527,879
EAST NORTH CENTRAL:							
19 Ohio.....	75	21,245	14,500,590	1,973	2,052,444	201	520,920
20 Indiana.....	34	8,553	5,444,020	797	855,057	95	214,568
21 Illinois.....	67	23,661	18,769,450	1,544	1,916,307	179	475,796
22 Michigan.....	22	9,500	6,304,409	756	628,649	76	182,242
23 Wisconsin.....	24	3,762	2,589,177	344	322,450	25	72,860
WEST NORTH CENTRAL:							
24 Minnesota.....	9	4,267	3,782,870	485	710,790	15	157,418
25 Iowa.....	24	4,034	2,830,358	376	419,513	31	83,296
26 Missouri.....	19	9,550	7,230,808	515	462,619	32	130,489
27 North Dakota and South Dakota.....	5	133	98,507	14	19,197	3	6,358
28 Nebraska.....	7	1,579	1,159,065	108	173,705	12	59,899
29 Kansas.....	21	1,367	884,402	161	139,377	45	50,078
SOUTH ATLANTIC:							
30 Delaware, Maryland, and District of Columbia.....	25	8,553	5,513,163	792	875,670	55	191,792
31 Virginia.....	18	3,563	2,040,345	482	428,080	52	150,588
32 West Virginia.....	21	1,939	1,192,759	154	174,261	18	42,125
33 North Carolina.....	13	1,282	775,076	175	152,238	30	44,376
34 South Carolina.....	6	794	436,369	105	67,961	17	15,457
35 Georgia.....	14	2,852	1,936,434	337	425,380	31	102,516
36 Florida.....	10	975	606,382	113	117,917	6	8,312
EAST SOUTH CENTRAL:							
37 Kentucky.....	10	3,591	2,142,523	181	245,007	36	108,883
38 Tennessee.....	12	3,304	2,062,317	306	383,928	40	107,929
39 Alabama.....	11	1,973	1,317,365	230	265,460	18	69,124
40 Mississippi.....	12	507	302,519	63	58,794	8	12,247
WEST SOUTH CENTRAL:							
41 Arkansas.....	10	755	533,151	91	83,065	9	22,380
42 Louisiana.....	13	3,236	1,986,691	119	147,397	13	47,253
43 Oklahoma.....	17	701	594,006	151	167,490	22	39,755
44 Texas.....	39	3,611	2,603,655	449	503,890	28	52,667
MOUNTAIN:							
45 Montana.....	6	390	471,777	39	68,118	3	10,072
46 Colorado.....	16	2,498	2,089,255	226	272,008	25	77,950
47 Idaho, Wyoming, Utah, and Nevada.....	12	1,448	1,318,544	210	251,342	20	40,547
48 New Mexico and Arizona.....	6	462	118,260	19	22,549	3	735
PACIFIC:							
49 Washington.....	19	4,761	3,716,543	624	606,629	25	64,528
50 Oregon.....	6	3,041	2,541,897	698	689,298	34	116,088
51 California.....	35	16,749	13,324,714	1,748	2,031,353	65	315,357

STREET AND ELECTRIC RAILWAYS.

TABLE 12.—TRAFFIC STATISTICS—PASSENGERS, CAR MILEAGE, AND CAR HOURS,

DIVISION AND STATE.	Census.	Number of operating companies.	Miles of track operated.	NUMBER OF PASSENGERS CARRIED.			
				Total.	Revenue.	Transfer.	Free.
MOUNTAIN:							
142 Montana.....	1912 *	6	99.22	17,430,364	15,351,219	1,605,849	473,296
143	1907	5	69.24	14,089,649	13,862,231	145,231	82,187
144	1902	5	63.21	6,917,002	6,858,502	58,500	.....
145 Colorado.....	1912	16	467.97	107,502,972	86,597,205	18,813,014	2,092,753
146	1907	11	317.37	93,683,653	73,458,468	18,362,433	1,862,752
147	1902	8	234.53	52,327,717	42,371,590	9,956,127	.....
148 New Mexico.....	1912	2	10.60	1,040,367	951,347	77,000	12,020
149	1907	2	10.10	1,074,598	1,029,048	27,300	18,250
150	1902	1	2.10	73,000	73,000	.....	.....
151 Arizona.....	1912	4	46.24	4,762,518	4,553,831	126,354	82,333
152	1907	4	30.75	2,058,861	1,901,861	128,000	29,000
153	1902	2	17.10	799,710	797,970	1,740	.....
154 Idaho.....	1912	3	88.93	4,600,507	4,169,451	276,204	154,852
155	1907	2	44.24	1,507,335	1,326,904	157,246	23,125
156	1902	1	3.50	314,340	314,340	.....	.....
157 Wyoming.....	1912	2	22.91	1,412,927	1,399,330	2,647	10,950
158 Nevada.....	1912	2	11.27	750,000	750,000	.....	.....
159	1907	1	7.15	661,025	620,000	31,025	10,000
160 Utah.....	1912	5	260.18	47,883,465	40,451,865	6,829,417	602,183
161	1907	3	122.54	26,430,993	21,105,491	5,055,462	270,040
162	1902	3	89.04	13,799,819	11,493,501	2,306,318	.....
PACIFIC:							
163 Washington.....	1912	19	1,035.92	163,717,821	126,686,767	30,226,149	6,804,905
164	1907	14	764.73	142,496,001	110,506,620	29,951,966	2,037,415
165	1902	8	228.93	42,533,743	41,544,228	989,515	.....
166 Oregon.....	1912	6	544.64	101,194,838	75,842,324	21,916,726	3,435,788
167	1907	8	253.41	63,930,947	49,459,483	12,146,734	2,324,730
168	1902	6	136.67	23,666,753	18,729,442	4,937,311	.....
169 California.....	1912	35	2,005.28	683,326,934	520,741,159	150,298,412	12,287,363
170	1907	41	2,013.49	441,895,205	327,977,151	109,230,255	4,687,799
171	1902	35	829.10	241,325,720	182,196,999	59,128,721	.....

GENERAL TABLES.

BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

REVENUE CAR MILES.			COMPANIES REPORTING REVENUE CAR HOURS.					AVERAGE NUMBER OF REVENUE PASSENGERS—			
Total.	Passenger cars.	Express, mail, and freight cars.	Number of companies.	Revenue passengers carried.	Revenue car hours.			Per mile of track.	Per revenue passenger car mile.	Per revenue passenger car hour.	
					Total number.	Passenger cars.	Express, mail, and freight cars.				
2,001,240	2,001,240	-----	5	6,685,653	170,387	170,387	-----	154,719	5.29	39.24	142
2,432,477	2,432,477	-----	3	2,995,763	84,337	83,487	-----	200,206	6.70	35.88	143
1,354,822	1,313,942	40,880	2	1,288,675	55,070	55,070	-----	108,503	5.22	23.40	144
17,202,137	17,162,190	39,947	16	86,597,205	1,770,191	1,766,461	-----	185,049	5.05	49.02	145
14,596,838	14,297,798	299,040	5	62,793,479	1,294,187	1,262,884	-----	231,460	5.14	49.72	146
8,925,060	8,924,560	500	3	36,888,082	910,004	910,004	-----	183,865	4.75	40.54	147
308,665	308,665	-----	2	951,347	34,439	34,439	-----	89,750	3.08	27.62	148
249,050	248,450	600	1	760,000	24,090	24,090	-----	101,886	4.14	31.55	149
61,320	61,320	-----	-----	-----	-----	-----	-----	34,762	1.19	-----	150
1,019,012	1,019,012	-----	4	4,553,831	114,784	114,784	-----	98,483	4.47	39.67	151
918,054	918,054	-----	3	1,793,808	90,155	90,155	-----	61,849	2.07	19.90	152
306,600	306,600	-----	2	797,970	37,740	37,740	-----	46,665	2.60	21.14	153
1,419,984	1,355,667	64,317	3	4,169,451	129,691	125,379	-----	46,885	3.08	33.25	154
385,965	378,585	7,380	1	154,185	9,889	8,659	-----	29,995	3.51	17.81	155
164,250	164,250	-----	-----	-----	-----	-----	-----	89,811	1.91	-----	156
380,885	380,885	-----	2	1,399,330	38,221	38,221	-----	61,079	3.67	36.61	157
270,000	270,000	-----	-----	-----	-----	-----	-----	66,548	2.78	-----	158
250,000	250,000	-----	1	620,000	28,400	27,400	-----	86,713	2.48	22.63	159
6,647,903	6,499,817	148,086	3	3,983,415	104,249	102,907	-----	155,476	6.22	38.71	160
4,540,085	4,453,398	86,687	1	51,279	6,570	6,570	-----	172,233	4.74	7.81	161
3,047,222	3,047,122	109	-----	-----	-----	-----	-----	129,082	3.77	-----	162
29,516,695	27,096,799	2,419,896	18	114,176,627	2,661,946	2,499,897	-----	122,294	4.68	45.67	163
24,364,214	22,943,472	1,420,742	14	110,506,620	3,008,217	2,820,150	-----	144,504	4.82	39.18	164
8,378,420	8,285,417	93,003	7	36,667,399	900,038	876,471	-----	181,471	5.01	41.84	165
19,509,670	17,792,258	1,717,412	4	73,637,168	1,835,077	1,835,077	-----	139,252	4.26	40.13	166
15,025,037	10,470,327	4,554,710	7	49,404,733	1,229,794	1,225,414	-----	195,176	4.72	40.32	167
4,781,105	4,719,355	61,750	4	12,991,398	480,979	477,379	-----	137,041	3.97	27.21	168
116,553,876	110,418,499	6,135,377	31	518,013,837	11,085,679	11,032,773	-----	199,879	4.72	46.05	169
74,785,472	71,219,670	3,565,802	31	311,250,076	7,764,511	7,642,355	-----	162,890	4.61	40.73	170
41,512,788	41,217,496	295,292	10	34,181,395	1,132,375	1,128,646	-----	219,753	4.42	30.29	171

STREET AND ELECTRIC RAILWAYS.

TABLE 13.—CONDENSED INCOME ACCOUNT OF OPERATING COMPANIES, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

DIVISION AND STATE.	Cen- sus.	Num- ber of com- pan- ies.	Gross income.	OPERATING ACCOUNTS.				Miscella- neous income.	Gross in- come less operating expenses.	Deductions from income (taxes and fixed charges).	Net income. ¹	Divi- dends.	Surplus. ¹
				Revenues.	Expenses.	Net reve- nues.	Per cent ratio; expen- ses of reve- nues.						
MOUNTAIN:													
Montana.....	1912	6	\$1,065,597	\$1,055,283	\$770,586	\$284,697	73.0	\$10,314	\$265,011	\$224,729	\$70,282	\$30,000	\$40,282
	1907	5	902,621	760,201	551,933	205,265	72.6	142,420	350,688	120,851	229,837	35,530	194,307
	1902	5	492,023	492,023	365,073	126,950	74.2		126,950	74,633	52,317		52,317
Colorado.....	1912	10	6,650,480	5,829,146	3,264,753	2,564,393	56.0	801,834	3,365,727	2,106,967	1,258,760	1,339,285	50,625
	1907	11	4,483,254	4,130,962	2,039,421	2,031,541	50.8	352,292	2,383,833	1,273,024	1,110,509	307,124	803,685
	1902	7	2,227,765	2,227,286	1,300,606	926,630	58.4	480	927,160	536,005	391,155	180,000	211,155
All other Mountain states.....	1912	18	4,254,659	4,218,190	2,390,886	1,827,304	56.7	36,469	1,363,773	1,397,370	466,403	31,000	435,403
Idaho, Wyoming, Nevada, and Utah.....	1912	12	3,894,371	3,873,085	2,097,899	1,775,186	54.2	21,286	1,796,472	1,302,819	493,653		493,653
New Mexico and Arizona.....	1912	6	360,288	345,105	292,987	52,118	84.9	15,183	67,301	94,551	27,250	31,000	58,250
All other Mountain states.....	1907	12	2,313,518	2,284,737	1,448,129	836,608	63.4	28,781	865,389	517,452	347,937		347,937
	1902	6	612,988	587,705	374,269	213,436	63.7	25,283	238,719	176,723	61,996	3,000	58,996
PACIFIC:													
Washington.....	1912	19	13,590,933	12,706,499	7,116,198	5,590,301	56.0	884,434	6,474,735	4,033,973	2,440,762	2,232,514	208,248
	1907	14	8,402,560	7,896,743	5,140,501	2,758,242	65.1	503,817	3,202,059	1,788,314	1,473,745	556,543	917,202
	1902	8	2,542,906	2,542,906	1,576,018	966,888	62.0		966,888	463,101	503,787	150,028	353,759
Oregon.....	1912	6	7,856,471	7,700,119	3,736,259	3,963,860	48.5	156,352	4,120,212	3,050,248	1,069,964	2,334,200	1,261,296
	1907	8	3,627,990	2,781,674	1,638,271	1,093,403	60.0	896,316	1,989,719	992,748	996,971	535,000	461,971
	1902	6	1,042,895	1,042,895	653,912	388,983	62.7		388,983	146,519	242,464	54,048	188,410
California.....	1912	35	34,845,771	34,080,579	21,684,312	12,396,267	63.6	765,192	13,161,459	10,696,969	2,464,490	1,122,846	1,341,644
	1907	41	21,545,797	20,691,713	14,578,367	6,113,346	70.5	854,084	6,967,430	6,732,705	234,725	1,172,800	938,075
	1902	35	9,967,838	9,967,288	5,402,245	4,565,043	54.2	550	4,565,593	2,112,959	2,452,634	653,412	1,799,222

¹ Italic figures indicate deficits.

GENERAL TABLES.

TABLE 14.—INCOME ACCOUNT OF NONOPERATING OR LESSOR COMPANIES, BY STATES: 1912, 1907, AND 1902.

STATE.	Census.	Number of companies.	INCOME.			DEDUCTIONS FROM INCOME.			Net income. ¹	Dividends.	Surplus. ²
			Gross income.	Rentals from operating companies.	Miscellaneous.	Total.	Interest.	Taxes and miscellaneous.			
United States.....	1912	285	\$35,005,367	\$35,144,521	\$460,846	\$16,090,372	\$15,234,132	\$856,240	\$19,514,995	\$19,342,101	\$172,894
	1907	291	47,913,249	47,500,933	412,316	19,465,984	18,030,522	1,435,462	28,447,265	28,030,542	416,723
	1902	^a 158	26,138,899	26,116,884	22,015	8,779,294	8,376,569	402,735	17,359,605	17,157,061	202,544
California.....	1912	7	252,995	252,858	137	253,674	236,301	17,373	679	.....	679
Illinois.....	1912	5	260,202	252,311	7,891	135,682	97,929	37,753	124,520	187,273	68,758
	1907	16	2,628,488	2,628,488	.....	2,082,798	1,887,758	195,040	545,690	533,500	12,190
	1902	8	3,758,762	3,758,762	.....	1,323,507	1,323,507	.....	2,435,255	2,435,255	.....
Indiana.....	1912	11	1,726,807	1,725,231	1,576	1,215,716	1,063,781	151,935	511,091	504,622	6,469
	1907	10	1,945,781	1,945,781	.....	1,382,797	1,374,870	7,927	562,984	558,560	4,424
Massachusetts.....	1912	17	1,050,882	1,048,894	1,988	900,047	845,854	54,193	150,835	148,550	2,285
	1907	19	2,128,500	2,119,919	8,581	758,271	741,811	16,460	1,370,229	1,368,633	1,596
	1902	18	1,986,774	1,986,774	.....	705,967	695,678	10,289	1,280,807	1,272,395	8,412
New Jersey.....	1912	19	3,109,034	3,073,300	35,734	1,862,343	1,836,258	26,085	1,246,691	1,259,457	12,766
	1907	17	2,166,850	2,166,765	85	1,374,619	1,364,360	10,259	792,231	780,970	11,261
	1902	4	1,586,217	1,586,217	.....	1,165,747	1,160,560	5,187	420,470	369,220	51,250
New York.....	1912	33	9,540,387	9,457,292	83,095	2,889,616	2,813,773	75,843	6,650,771	6,495,213	155,558
	1907	46	18,882,040	18,870,857	11,183	7,206,569	7,101,331	105,238	11,675,471	11,689,769	14,298
	1902	23	5,703,608	5,697,399	6,209	1,987,801	1,908,060	20,741	3,765,807	3,747,209	18,598
Ohio.....	1912	13	3,376,083	3,365,315	10,768	1,508,286	1,468,049	40,237	1,867,797	1,865,697	2,100
	1907	17	3,178,599	3,178,599	.....	1,340,120	1,317,587	22,533	1,838,479	1,838,479	.....
	1902	4	1,059,814	1,059,814	.....	55,425	55,425	.....	1,004,389	988,956	15,433
Pennsylvania.....	1912	138	9,650,103	9,620,676	29,427	3,777,583	3,611,740	165,843	5,872,520	5,804,039	68,481
	1907	140	13,937,422	13,631,311	306,111	3,698,671	2,709,769	988,902	10,238,751	9,914,220	324,531
	1902	86	9,608,918	9,593,112	15,806	1,821,203	1,497,969	323,234	7,787,715	7,529,069	258,646
All other states ³	1912	42	6,638,874	6,348,644	290,230	3,547,425	3,260,447	286,978	3,091,449	3,077,250	14,199
	1907	26	3,045,569	2,959,213	86,356	1,622,139	1,533,036	89,103	1,423,430	1,346,411	77,019
	1902	15	2,434,806	2,434,806	.....	1,769,644	1,735,360	34,284	665,162	814,957	149,796

¹ Italic figures indicate deficits.

² Exclusive of 12 companies which failed to furnish this information.

³ Includes states as follows: 1912—Alabama, 1; Colorado, 1; Connecticut, 4; Delaware, 4; Georgia, 1; Idaho, 1; Iowa, 2; Louisiana, 2; Maine, 1; Maryland, 3; Michigan, 1; Nebraska, 3; North Carolina, 2; Oklahoma, 1; Rhode Island, 6; South Carolina, 1; Texas, 1; Virginia, 2; Washington, 1; West Virginia, 3; Wisconsin, 1. 1907—California, 1; Connecticut, 3; Delaware, 3; Iowa, 2; Louisiana, 1; Maryland, 2; Nebraska, 2; New Hampshire, 2; North Carolina, 1; Rhode Island, 3; Utah, 1; Virginia, 1; Washington, 1; West Virginia, 3. 1902—Colorado, 1; Connecticut, 4; Maine, 1; Maryland, 2; Missouri, 1; New Hampshire, 6.

STREET AND ELECTRIC RAILWAYS.

TABLE 15.—CONDENSED INCOME ACCOUNT OF OPERATING AND

	STATE.	Census.	NUMBER OF COMPANIES.			Gross income.	Rentals from operating companies.	OPERATING ACCOUNTS.		
			Total.	Operating.	Lessor.			Revenues.	Expenses.	Net revenues.
1	United States.....	1912	1,260	975	285	\$621,535,884	\$35,144,521	\$567,511,704	\$332,896,356	\$234,615,348
2		1907	² 1,230	939	291	477,657,503	47,500,933	418,187,858	251,309,252	166,878,606
3		1902	³ 957	799	158	276,643,526	26,116,884	247,553,999	142,312,597	105,241,402
4	States having operating and lessor companies.	1912	1,096	811	285	549,894,475	35,144,521	497,223,521	291,731,077	205,492,444
5		1907	971	680	291	388,634,051	47,500,933	332,350,677	202,432,908	129,917,769
6		1902	641	483	158	215,210,400	26,116,884	186,390,383	107,331,024	79,059,359
7	California ⁴	1912	42	35	7	35,098,766	252,858	34,080,579	21,684,312	12,396,267
8	Illinois.....	1912	72	67	5	56,159,746	252,311	54,588,533	29,822,058	24,766,475
9		1907	86	70	16	43,580,140	2,628,488	40,448,084	25,597,996	14,850,088
10		1902	56	48	8	28,788,019	3,758,762	24,164,965	14,103,211	10,061,754
11	Indiana ⁵	1912	45	34	11	17,868,882	1,725,231	15,718,651	9,132,539	6,586,112
12		1907	43	33	10	13,442,549	1,045,781	11,224,545	6,308,152	4,916,393
13	Massachusetts.....	1912	60	43	17	38,541,586	1,048,894	36,841,475	24,889,596	11,951,879
14		1907	81	62	19	33,202,462	2,119,910	30,925,503	21,179,642	9,745,861
15		1902	92	74	18	25,620,184	1,986,774	23,617,570	16,403,667	7,213,903
16	New Jersey.....	1912	43	24	19	21,430,517	3,073,300	18,081,276	10,552,653	7,528,623
17		1907	41	24	17	15,249,508	2,166,765	12,895,532	7,905,138	4,990,394
18		1902	29	25	4	9,763,140	1,586,217	8,137,477	4,324,112	3,813,365
19	New York.....	1912	134	101	33	133,063,763	9,457,292	118,672,650	66,401,113	52,271,537
20		1907	147	101	46	110,567,713	18,870,857	89,856,329	50,928,855	38,927,474
21		1902	119	96	23	66,585,388	5,697,399	59,315,606	33,677,724	25,637,882
22	Ohio.....	1912	88	75	13	44,082,121	3,365,315	39,437,574	24,543,633	14,893,941
23		1907	90	73	17	34,453,500	3,178,599	30,392,675	18,479,609	11,913,066
24		1902	66	62	4	17,659,665	1,059,814	16,587,093	9,132,480	7,455,213
25	Pennsylvania.....	1912	259	121	138	65,844,150	9,620,676	54,922,898	31,702,938	23,219,960
26		1907	262	122	140	59,044,408	13,631,311	44,054,130	26,003,748	18,650,382
27		1902	184	98	86	39,966,645	9,593,112	30,319,211	15,024,813	14,694,398
28	All other.....	1912	353	311	42	137,804,044	6,348,644	124,879,885	73,002,235	51,877,650
29		1907	221	195	26	78,468,771	2,959,213	71,953,879	40,029,768	25,924,111
30		1902	95	80	15	26,827,359	2,434,806	24,247,861	14,065,017	10,182,844
31	States having operating companies only.....	1912	164	164	.....	71,641,409	.....	70,288,183	41,165,279	29,122,904
32		1907	259	259	.....	89,023,452	.....	85,837,181	48,876,344	36,960,837
33		1902	316	316	.....	61,433,120	.....	61,163,616	34,981,673	26,182,043

¹ Italic figures indicate deficits.

² Exclusive of 6 companies which failed to furnish this information.

³ Exclusive of 30 companies which failed to furnish this information.

GENERAL TABLES.

LESSOR COMPANIES COMBINED, BY STATES: 1912, 1907, AND 1902.

Miscellaneous income.	Gross income less operating expenses.	DEDUCTIONS FROM INCOME (TAXES AND FIXED CHARGES).				Net income.	Dividends.	Surplus. ¹	
		Total.	Interest.	Rent of leased lines and terminals.	Miscellaneous, including taxes.				
\$18,879,659	\$288,639,528	\$207,213,780	\$113,259,470	\$44,784,521	\$49,169,789	\$81,425,748	\$70,992,218	\$10,433,530	1
11,965,712	226,348,251	157,560,700	81,771,266	48,022,596	27,766,838	68,787,551	54,485,274	14,302,277	2
2,972,643	134,330,929	86,374,347	46,462,470	25,518,225	14,393,652	47,956,582	33,039,171	14,917,411	3
17,525,433	258,163,398	187,653,673	99,154,459	44,756,910	43,742,304	70,509,725	62,506,034	8,003,691	4
8,782,441	186,201,143	133,001,619	63,387,517	48,007,850	21,606,252	53,199,524	45,653,682	7,545,842	5
2,703,133	107,879,376	71,802,227	34,828,503	25,493,441	11,480,283	36,077,149	27,660,793	8,416,356	6
765,329	13,414,454	10,950,643	7,716,862	255,416	2,978,365	2,463,811	1,122,846	1,340,965	7
1,318,902	26,337,688	21,038,975	12,280,523	494,136	8,264,316	5,298,713	5,596,908	298,195	8
503,568	17,982,144	12,751,308	7,795,393	2,648,012	2,307,903	5,230,836	2,870,629	2,360,207	9
864,292	14,684,808	9,776,698	4,361,337	3,875,007	1,540,354	4,808,110	4,745,965	162,145	10
425,000	8,736,343	6,943,685	4,281,053	1,744,017	918,615	1,792,658	1,429,352	363,306	11
272,223	7,134,397	5,860,332	3,258,142	1,966,943	635,247	1,274,065	707,058	567,007	12
651,217	13,651,990	9,947,826	4,115,136	2,542,459	3,290,231	3,704,164	3,670,015	34,149	13
157,040	12,022,820	7,819,610	3,352,738	2,145,639	2,321,233	4,203,210	3,789,689	413,521	14
15,840	9,216,517	5,814,586	2,219,926	1,967,540	1,627,120	3,401,931	3,182,455	219,476	15
275,941	10,877,864	9,095,230	4,569,033	3,229,045	1,297,152	1,782,634	1,913,862	131,228	16
187,211	7,344,370	7,130,015	4,205,064	2,272,148	652,803	214,355	953,898	789,543	17
39,446	5,439,028	4,701,487	2,733,971	1,586,217	471,299	647,541	447,640	199,901	18
4,933,821	66,662,650	46,058,337	24,352,988	12,684,642	9,020,707	20,604,313	18,724,990	1,879,323	19
1,840,527	59,638,858	42,560,656	16,832,136	19,279,392	6,449,128	17,078,202	17,255,433	177,231	20
1,572,383	32,907,664	21,490,756	12,241,187	5,719,589	3,529,980	11,416,908	6,880,864	4,536,044	21
1,279,232	19,538,488	13,143,680	6,897,178	3,390,165	2,856,337	6,394,808	5,012,596	1,382,212	22
832,226	15,973,891	10,555,703	5,930,019	3,155,380	1,470,304	5,415,188	4,154,167	1,264,021	23
12,158	8,527,185	4,193,291	2,513,009	1,066,636	613,646	4,333,594	2,633,554	1,700,340	24
1,300,576	34,141,212	28,662,780	10,019,675	13,995,098	4,648,007	5,478,432	7,068,922	1,590,490	25
1,358,967	33,640,660	23,042,694	7,029,513	13,554,786	2,458,390	10,597,966	10,891,448	293,432	26
54,322	24,841,832	14,689,489	3,554,135	8,902,431	2,282,923	9,652,343	8,150,880	1,501,463	27
6,576,415	64,802,709	41,812,517	24,922,011	6,421,932	10,468,574	22,990,192	17,966,543	5,023,649	28
3,580,679	32,464,003	23,281,301	14,984,507	2,985,550	5,311,244	9,182,702	5,031,360	4,151,342	29
144,692	12,762,342	11,045,920	7,204,938	2,376,021	1,464,961	1,716,422	1,619,435	96,987	30
1,353,226	30,476,130	19,560,107	14,105,011	27,611	5,427,485	10,916,023	8,486,184	2,429,839	31
3,186,271	40,147,108	24,559,081	18,383,749	14,746	6,160,536	15,588,027	8,831,592	6,755,435	32
269,510	26,451,553	14,572,120	11,633,967	24,784	2,913,369	11,879,433	5,378,378	6,501,055	33

⁴ Included in "All other" in 1907 and with "States having operating companies only" in 1902.

⁵ Included with "States having operating companies only" in 1902.

STREET AND ELECTRIC RAILWAYS.

TABLE 16.—OPERATING REVENUES, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

DIVISION AND STATE.	Census.	Number of companies.	Total operating revenue.	Passenger.	Parlor, chair, and special car. ¹	Freight.	Mail.	Baggage, express, and milk. ²	Other transportation revenue. ³	Sale of electric current.	Other nontransportation revenue. ⁴
MOUNTAIN—Continued.											
Colorado.....	1912	16	\$5,829,146	\$4,521,013	\$22,273	\$47,915	\$2,144	\$10,486	\$13,915	\$1,064,247	\$147,153
	1907	11	4,130,962	3,696,500	15,887	55,856	1,584			344,468	16,667
	1902	7	2,227,286	2,091,824	8,106		2,000			111,104	14,252
All other Mountain states... Idaho, Wyoming, Nevada, and Utah.....	1912	18	4,218,190	2,739,694	4,361	77,201	2,807	40,397	6,871	1,321,721	25,138
	1912	12	3,873,085	2,458,252	4,181	76,203	2,557	39,902	6,261	1,266,588	19,141
	1912	6	345,105	281,442	180	998	250	495	610	55,133	5,997
All other Mountain states ⁵	1907	12	2,284,737	1,316,604	6,883	17,801	1,138	1,503		921,526	19,282
	1902	6	587,705	572,970	1,197		800			2,216	10,522
PACIFIC:											
Washington.....	1912	19	12,706,499	7,282,685	33,001	677,472	19,842	51,753	20,763	4,422,080	198,903
	1907	14	7,898,743	6,070,685	15,980	529,567	9,150	16,060		1,182,423	74,878
	1902	8	2,542,906	1,813,156	3,233	63,501	1,883			641,800	19,333
Oregon.....	1912	6	7,700,119	4,578,419	14,322	511,634	6,744	57,398	29,171	2,327,822	174,609
	1907	8	2,731,674	2,529,990		164,551	6,690	600			29,843
	1902	6	1,042,895	969,231	507	17,287	2,904	168		33,522	19,281
California.....	1912	35	34,080,579	31,013,722	50,379	1,661,278	37,288	207,901	323,928	75,817	710,266
	1907	41	20,691,713	19,233,083	75,059	600,818	26,283	97,346		366,566	292,558
	1902	35	9,967,288	9,464,723	3,637	47,625	20,116	3,576		279,216	148,395

¹ Reported as "chartered cars" in 1907 and 1902.
² Reported as "express" in 1907 and 1902.
³ Included with revenues from "miscellaneous sources" in 1907 and 1902.
⁴ Reported as revenues from "miscellaneous sources" in 1907 and 1902.
⁵ Includes states and territories as follows: 1907—Arizona, Idaho, Nevada, New Mexico, and Utah. 1902—Arizona, Idaho, New Mexico, and Utah.

TABLE 17.—REVENUE FROM SALE OF CURRENT AND INCOME OF ELECTRIC LIGHT AND POWER DEPARTMENTS, BY CLASS OF SERVICE: 1912, 1907, AND 1902.

CLASS OF SERVICE.	1912	1907	1902	PER CENT OF INCREASE. ¹	
				1907-1912	1902-1907
Revenue from sale of current for light and power.....	\$36,500,030	\$20,093,302	\$7,703,574	81.7	160.8
Companies with light and power departments.....	\$30,984,555	\$16,576,555	\$6,271,815	86.9	164.3
Other companies.....	\$5,515,475	\$3,516,747	\$1,431,759	56.8	145.6
<i>Light and power departments.</i>					
Number of companies with light and power departments.....	169	177	118	-4.5	50.0
Income of light and power departments.....	\$31,515,582	\$17,291,824	\$6,469,726	82.3	167.3
Electric service.....	30,984,555	16,576,555	6,271,815	86.9	164.3
Commercial.....	20,102,077	13,778,714	4,847,200	89.4	184.3
Municipal street lighting.....	2,682,524	2,254,957	1,417,985	19.0	69.0
Municipal building lighting.....	134,894	(²)	(²)		
Sale of electric current to other public service corporations.....	2,065,060	542,884	6,630	280.4	
Profit on merchandise sales.....	140,820	240,704	(²)	-41.5	
Income of light and power departments from other sources.....	390,207	474,565	197,911	-17.8	139.8
Estimated value of free service furnished municipalities (not included under income)...	65,951	33,697	(²)	95.7	

¹ A minus sign (-) denotes decrease. ² Figures not available.

TABLE 18.—REVENUE FROM SALE OF CURRENT AND INCOME OF ELECTRIC LIGHT AND POWER DEPARTMENTS, BY GEOGRAPHIC DIVISIONS: 1912.

GEOGRAPHIC DIVISION.	Revenue from sale of electric current for light or power: all companies.	Number of operating companies.	ELECTRIC RAILWAYS OPERATING ELECTRIC LIGHT AND POWER DEPARTMENTS.								Estimated value of free service furnished municipalities (not included under income).
			Income of light and power departments.								
			Aggregate.	Electric service.					Profit on merchandise sales.	Income from other sources for this department.	
				Total.	Commercial.	Municipal street lighting.	Municipal building lighting.	Sale of electric current to other public-service corporations.			
United States.....	\$36,500,030	169	\$31,515,582	\$30,984,555	\$26,102,077	\$2,682,524	\$134,894	\$2,065,060	\$140,820	\$390,207	\$65,951
New England.....	1,384,764	6	1,074,634	1,045,325	924,134	105,029	10,205	5,957	3,093	26,216	
Middle Atlantic.....	3,381,090	12	986,755	976,535	521,623	259,538	55,843	139,526	5,544	4,676	11,892
East North Central.....	8,330,313	49	7,233,153	7,080,285	5,413,936	670,634	7,241	988,474	48,897	103,971	13,560
West North Central.....	2,233,356	22	1,740,740	1,623,265	1,437,585	174,029	6,911	4,740	9,862	107,613	8,018
South Atlantic.....	7,089,358	35	6,901,540	6,825,292	5,931,476	686,015	33,447	174,354	36,049	40,199	6,354
East South Central.....	2,766,420	14	2,664,354	2,660,372	2,428,230	207,647	840	23,655	2,198	1,784	3,150
West South Central.....	1,860,737	14	1,480,764	1,460,115	1,297,846	108,824	5,069	48,376	4,766	15,883	1,983
Mountain.....	2,628,273	7	2,616,307	2,566,892	2,330,949	155,336	11,149	69,458	16,408	33,007	22,494
Pacific.....	6,825,719	10	6,817,335	6,746,474	5,816,298	315,472	4,184	610,520	14,003	56,858	

TABLE 19.—OPERATING EXPENSES, BY ACCOUNTS, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

DIVISION AND STATE.	Census.	Number of operating companies.	Total operating expenses.	Way and structures.	Equipment.	Traffic.	CONDUCTING TRANSPORTATION.				General and miscellaneous.	Wages, supplies, and expenses incident to electric service not elsewhere included.
							Total.	Superintendence of transportation.	Power.	Operation of cars.		
MOUNTAIN:												
Montana.....	1912	6	\$770,586	\$79,593	\$65,655	\$53,715	\$413,141	\$4,316	\$120,769	\$288,056	\$158,482	-----
	1907	5	551,933	56,905	55,058	47,594	277,692	1,695	58,182	217,815	70,356	\$44,328
	1902	5	365,073	45,118	28,317	39,150	193,160	600	58,983	133,577	37,588	21,740
Colorado.....	1912	16	3,264,753	411,901	318,575	32,981	1,938,760	47,281	753,168	1,138,311	562,536	-----
	1907	11	2,099,421	191,227	258,731	23,293	1,210,218	25,479	354,025	830,714	339,814	76,138
	1902	7	1,300,606	198,662	128,618	32,959	760,376	16,032	240,298	504,046	175,721	4,270
All other Mountain states Idaho, Wyoming, Nevada, and Utah, New Mexico and Arizona.....	1912	18	2,390,886	364,060	295,602	10,576	1,424,651	32,832	711,616	680,203	295,977	-----
	1912	12	2,097,899	304,643	247,713	9,004	1,274,500	27,820	636,951	609,729	262,039	-----
	1912	6	292,987	59,417	47,889	1,572	150,151	5,012	74,665	70,474	33,958	-----
All other Mountain states. ¹	1907	12	1,448,129	269,958	188,604	7,606	758,590	24,082	314,597	419,911	183,801	39,570
	1902	6	374,269	57,923	42,063	982	229,444	7,100	61,296	161,048	43,857	-----
PACIFIC:												
Washington.....	1912	19	7,116,198	1,083,540	905,733	54,347	3,576,314	114,831	1,370,862	2,090,621	1,496,264	-----
	1907	14	5,140,501	504,539	546,373	23,765	2,447,832	55,379	595,131	1,797,322	996,966	621,026
	1902	8	1,576,018	193,774	155,767	32,957	782,791	9,980	274,662	498,149	278,333	152,396
Oregon.....	1912	6	3,736,259	428,537	394,687	47,977	1,998,388	83,835	540,771	1,373,782	866,670	-----
	1907	8	1,638,271	183,500	201,920	6,517	973,244	10,452	169,846	792,946	273,090	-----
	1902	6	653,912	74,905	86,486	2,310	396,906	9,405	108,877	278,624	85,278	8,027
California.....	1912	35	21,684,312	3,590,217	2,676,209	480,357	12,491,777	457,122	3,706,213	8,328,442	2,445,752	-----
	1907	41	14,578,367	2,157,799	2,647,681	160,229	7,991,616	199,203	2,389,993	5,402,420	1,605,976	15,066
	1902	35	5,402,245	567,788	621,653	35,547	3,603,788	73,246	878,716	2,651,826	573,469	-----

¹Includes states and territories as follows: 1907—Arizona, 4; Idaho, 2; Nevada, 1; New Mexico, 2; Utah, 3. 1902—Arizona, 1; Idaho, 1; New Mexico, 1; Utah, 3.

STREET AND ELECTRIC RAILWAYS.

TABLE 20.—OPERATING EXPENSES, BY DETAILED

DIVISION AND STATE.	Number of companies.	Total operating expenses.	WAY AND STRUCTURES.						
			Total.	Superintendence of way and structures.	Maintenance of way.	Maintenance of electric lines.	Buildings and structures.	Depreciation of way and structures.	Other operations. ¹
1 UNITED STATES.....	975	\$332,896,356	\$46,371,685	\$2,579,774	\$30,162,653	\$5,513,272	\$2,674,899	\$3,705,511	\$1,735,576
GEOGRAPHIC DIVISIONS:									
2 New England.....	91	37,316,197	5,512,046	281,762	3,987,658	734,101	422,002	16,184	70,339
3 Middle Atlantic.....	246	108,656,704	15,196,953	985,262	10,312,190	1,723,244	1,114,138	947,224	114,895
4 East North Central.....	222	78,747,118	9,782,125	551,309	6,879,162	1,216,188	548,038	196,828	390,600
5 West North Central.....	85	27,363,397	4,390,762	163,037	2,185,481	359,609	165,552	1,475,552	41,531
6 South Atlantic.....	107	21,591,731	3,044,858	168,748	1,517,413	437,509	94,976	333,906	492,306
7 East South Central.....	45	9,867,378	1,308,182	42,757	819,438	229,460	50,165	105,461	60,901
8 West South Central.....	79	10,390,837	1,178,911	71,568	750,464	164,167	41,900	76,755	74,057
9 Mountain.....	40	6,426,225	855,554	58,431	450,920	82,195	52,108	29,833	182,067
10 Pacific.....	60	32,536,769	5,102,294	256,900	3,259,927	586,799	186,020	523,768	308,880
NEW ENGLAND:									
11 Maine.....	16	2,002,617	284,734	7,637	167,938	38,632	13,180	12,000	45,347
12 New Hampshire.....	13	987,934	159,640	6,037	129,878	16,745	6,980		
13 Vermont.....	9	345,268	61,141	3,574	41,596	5,569	2,375		8,027
14 Massachusetts.....	43	24,889,596	3,618,816	204,463	2,617,553	500,484	278,618	4,184	10,514
15 Rhode Island and Connecticut.....	10	9,090,782	1,390,715	60,051	1,030,693	172,671	120,849		6,451
MIDDLE ATLANTIC:									
16 New York.....	101	66,401,113	9,101,193	645,060	5,949,966	1,030,853	772,114	662,235	40,945
17 New Jersey.....	24	10,552,653	1,733,090	127,862	1,128,416	145,793	62,982	222,615	45,422
18 Pennsylvania.....	121	31,702,938	4,362,670	212,340	3,233,808	546,598	279,042	62,374	28,508
EAST NORTH CENTRAL:									
19 Ohio.....	75	24,543,633	3,655,805	261,944	2,407,239	478,757	126,304	137,973	248,588
20 Indiana.....	34	9,132,539	1,491,836	75,270	1,102,585	210,915	71,228	2,752	29,086
21 Illinois.....	67	29,822,058	2,505,728	103,904	1,734,316	296,779	257,175	25,123	88,431
22 Michigan.....	22	11,142,975	1,731,826	85,570	1,366,595	156,822	70,214	29,748	22,877
23 Wisconsin.....	24	4,105,913	396,930	24,621	268,427	77,915	23,117	1,232	1,618
WEST NORTH CENTRAL:									
24 Minnesota.....	9	5,882,755	851,488	20,368	325,719	45,294	33,228	411,223	15,656
25 Iowa.....	24	4,520,635	448,766	24,408	316,492	71,797	17,898	316	17,855
26 Missouri.....	19	13,070,500	2,600,031	91,664	1,324,148	187,403	97,592	899,224	
27 North Dakota and South Dakota.....	5	162,123	8,466	240	6,298	1,477	441		
28 Nebraska.....	7	2,021,647	297,362	12,915	89,349	25,817	9,481	159,800	
29 Kansas.....	21	1,705,737	184,659	13,442	123,475	27,821	6,912	4,989	8,020
SOUTH ATLANTIC:									
30 Delaware, Maryland, and District of Columbia.....	25	8,718,499	1,222,116	83,501	674,833	156,553	48,240	257,171	1,818
31 Virginia.....	18	3,875,733	637,131	40,086	278,992	98,396	14,959	62,858	191,890
32 West Virginia.....	21	1,910,770	304,645	20,413	209,159	57,799	8,505	2,439	6,330
33 North Carolina.....	13	1,416,802	137,689	6,843	54,454	16,726	6,551	11,438	41,077
34 South Carolina.....	6	914,391	87,812	4,236	59,579	19,832	4,165		
35 Georgia.....	14	3,600,445	476,127	10,845	190,744	67,484	7,063		199,391
36 Florida.....	10	1,155,091	129,288	2,824	49,652	20,719	4,893		51,200
EAST SOUTH CENTRAL:									
37 Kentucky.....	10	3,556,537	622,648	18,113	483,569	56,955	17,441	46,570	
38 Tennessee.....	12	3,257,823	288,028	13,520	174,478	63,567	20,573	9,250	6,640
39 Alabama.....	11	2,401,152	307,934	8,905	124,860	37,096	10,137	37,667	39,269
40 Mississippi.....	12	651,866	89,572	2,219	36,531	21,842	2,014	11,074	14,992
WEST SOUTH CENTRAL:									
41 Arkansas.....	10	1,001,342	84,576	2,654	34,468	12,996	2,405	6,903	25,150
42 Louisiana.....	13	3,232,460	419,819	16,488	263,374	72,272	20,487	40,487	6,711
43 Oklahoma.....	17	970,447	105,923	8,508	65,574	11,947	2,720	15,141	2,033
44 Texas.....	39	5,186,588	568,593	43,918	387,048	66,952	16,288	14,224	40,163
MOUNTAIN:									
45 Montana.....	6	770,586	79,593	3,618	50,831	5,847	1,305	11,587	6,315
46 Colorado.....	16	3,264,753	411,901	34,810	217,805	41,527	27,639	499	89,021
47 Idaho, Wyoming, Utah, and Nevada.....	12	2,097,899	304,643	17,575	144,292	28,043	21,780	6,242	86,131
48 New Mexico and Arizona.....	6	292,987	59,417	2,428	37,992	6,178	1,314	11,505	
PACIFIC:									
49 Washington.....	19	7,116,198	1,083,540	44,296	494,491	85,524	20,430	183,757	255,042
50 Oregon.....	6	3,736,259	428,537	22,301	257,495	72,972	17,616	4,315	53,838
51 California.....	35	21,684,312	3,590,217	190,303	2,507,941	408,303	147,974	335,696	

¹ Expenses of light and power departments not distributed among prior accounts.

STREET AND ELECTRIC RAILWAYS.

TABLE 20.—OPERATING EXPENSES, BY DETAILED

DIVISION AND STATE.	CONDUCTING TRANSPORTATION—continued.							
	Power—Continued.					Operation of cars.		
	Fuel for power.	Other power supplies and expenses.	Power purchased.	Power exchanged—balance.	Other operations. ¹	Total.	Conductors, motormen, and trainmen.	Miscellaneous transportation expenses.
1 UNITED STATES.....	\$20,145,466	\$2,021,521	\$24,546,530	\$150,117	\$5,464,581	\$122,077,311	\$98,185,596	\$23,891,715
GEOGRAPHIC DIVISIONS:								
2 New England.....	3,194,864	319,326	1,424,171	1,348	221,917	14,032,277	10,933,511	3,098,766
3 Middle Atlantic.....	6,603,815	713,603	7,795,789	6,112	57,565	40,564,776	32,545,208	8,019,570
4 East North Central.....	5,223,268	444,541	6,651,143	14,802	1,431,398	30,460,598	23,991,958	6,468,640
5 West North Central.....	2,099,004	150,432	1,809,505	.....	200,077	9,346,232	7,779,376	1,566,816
6 South Atlantic.....	1,084,457	111,151	1,375,750	.....	1,234,428	7,106,572	5,961,818	1,144,754
7 East South Central.....	783,135	114,035	376,236	.....	353,077	3,114,253	2,638,470	475,783
8 West South Central.....	355,008	62,270	640,589	3,651	286,232	3,553,128	3,142,144	410,984
9 Mountain.....	279,355	29,220	557,620	.....	569,160	2,106,570	1,802,316	304,254
10 Pacific.....	86,960	76,238	3,915,727	124,204	1,015,679	11,792,845	9,390,797	2,402,048
NEW ENGLAND:								
11 Maine.....	78,393	6,326	167,442	.....	143,758	642,086	497,501	144,585
12 New Hampshire.....	8,833	2,415	224,436	.....	.....	279,625	231,758	47,867
13 Vermont.....	.....	5,313	29,871	.....	3,935	98,929	83,573	15,356
14 Massachusetts.....	2,263,919	222,115	567,163	1,348	28,964	9,589,607	7,349,707	2,239,900
15 Rhode Island and Connecticut.....	843,719	83,157	435,259	.....	45,260	3,422,030	2,770,972	651,058
MIDDLE ATLANTIC:								
16 New York.....	4,243,890	496,285	4,446,174	4,477	46,245	24,115,024	18,520,323	5,594,701
17 New Jersey.....	217,167	18,956	1,399,485	.....	.....	3,871,748	3,269,139	602,609
18 Pennsylvania.....	2,142,755	200,367	1,950,130	1,635	11,320	12,578,004	10,755,744	1,822,260
EAST NORTH CENTRAL:								
19 Ohio.....	2,006,935	171,379	941,839	6,932	755,375	8,824,678	7,095,072	1,729,606
20 Indiana.....	705,691	43,433	607,537	.....	219,765	2,743,156	1,939,438	803,718
21 Illinois.....	1,402,328	145,134	4,029,543	.....	347,018	13,047,637	10,397,616	2,650,021
22 Michigan.....	602,105	31,925	922,443	2,706	77,443	4,229,923	3,206,198	963,725
23 Wisconsin.....	506,209	43,270	149,781	5,164	31,807	1,615,204	1,293,634	321,570
WEST NORTH CENTRAL:								
24 Minnesota.....	397,637	13,304	343,025	.....	46,889	2,177,622	1,754,145	423,477
25 Iowa.....	385,755	22,182	273,336	.....	170,699	1,531,748	1,220,216	311,532
26 Missouri.....	967,969	82,388	912,975	.....	.....	4,220,489	3,614,190	606,299
27 North Dakota and South Dakota.....	3,120	1,528	33,683	.....	.....	67,451	59,814	7,637
28 Nebraska.....	243,491	19,328	19,456	.....	301	793,327	678,063	115,264
29 Kansas.....	101,632	11,702	222,030	.....	42,188	555,655	452,948	102,707
SOUTH ATLANTIC:								
30 Delaware, Maryland, and District of Columbia.....	476,257	36,883	620,521	.....	5,155	3,449,845	2,904,073	544,872
31 Virginia.....	175,625	19,589	62,552	.....	414,809	1,121,376	887,437	233,939
32 West Virginia.....	155,551	17,899	108,685	.....	36,357	637,755	553,616	84,139
33 North Carolina.....	36,975	7,892	145,716	.....	191,203	308,509	259,775	48,734
34 South Carolina.....	95,518	17,650	110,872	.....	.....	267,347	218,559	48,788
35 Georgia.....	8,483	5,579	317,385	.....	511,188	970,088	832,868	137,220
36 Florida.....	66,048	5,659	10,019	.....	125,714	351,652	304,590	47,062
EAST SOUTH CENTRAL:								
37 Kentucky.....	233,980	21,946	156,260	.....	.....	1,219,856	1,041,138	178,718
38 Tennessee.....	233,971	17,527	109,665	.....	189,927	1,011,372	877,979	133,393
39 Alabama.....	191,942	58,976	66,041	.....	134,756	718,266	574,949	143,317
40 Mississippi.....	78,242	15,586	44,270	.....	33,394	164,759	144,404	20,355
WEST SOUTH CENTRAL:								
41 Arkansas.....	102,003	16,068	25,233	.....	65,418	305,104	261,626	43,478
42 Louisiana.....	338,524	22,277	189,181	.....	30,137	1,281,258	1,228,961	52,297
43 Oklahoma.....	88,435	5,190	70,820	.....	13,693	335,534	278,206	57,328
44 Texas.....	326,046	18,735	355,355	3,651	157,034	1,631,232	1,373,351	267,881
MOUNTAIN:								
45 Montana.....	.....	4,426	92,263	.....	17,911	288,056	265,415	22,641
46 Colorado.....	252,422	18,554	157,313	.....	231,814	1,138,311	963,380	174,931
47 Idaho, Wyoming, Utah, and Nevada.....	17,336	3,091	253,374	.....	319,435	609,729	509,006	100,723
48 New Mexico and Arizona.....	9,597	3,849	54,670	.....	.....	70,474	64,515	5,959
PACIFIC:								
49 Washington.....	4,344	49,617	429,574	.....	733,984	2,090,621	1,730,067	360,554
50 Oregon.....	5,350	514	148,693	89,178	281,695	1,373,782	1,072,327	301,455
51 California.....	77,266	26,107	3,337,460	35,026	.....	8,328,442	6,588,403	1,740,039

¹ Expenses of light and power departments not distributed among prior accounts.

STREET AND ELECTRIC RAILWAYS.

TABLE 21.—CONDENSED BALANCE SHEET OF OPERATING AND LESSOR COMPANIES COMBINED, BY GEOGRAPHIC DIVISIONS AND STATES: 1912, 1907, AND 1902—Continued.

DIVISION AND STATE.	Cen- sus.	Num- ber of com- panies.	ASSETS.				Total— Assets or liabilities.	LIABILITIES.				Net surplus. ¹
			Cost of con- struction, equipment, and real estate.	Other invest- ments.	Current and other assets.	Profit and loss deficit for com- panies showing a deficit.		Capital stock.	Funded debt.	Unfunded debt, re- serves, and current and other liabilities.	Profit and loss surplus for com- panies show- ing a sur- plus.	
MOUNTAIN:												
Montana.....	1912	6	\$5,957,245	\$1,014,356	\$337,111	\$5,637	\$7,314,349	\$3,632,532	\$2,514,220	\$544,871	\$622,726	\$617,060
	1907	5	3,191,227	1,582,097	174,745	1,639	4,949,708	2,781,275	1,550,000	138,988	479,445	477,806
	1902	5	3,228,532	.....	453,999	65,565	3,748,096	2,045,613	1,275,000	260,290	167,193	161,628
Colorado.....	1912	17	45,575,992	15,610,613	2,415,920	333,174	63,935,699	24,903,550	31,280,130	4,911,014	2,841,605	2,507,831
	1907	11	28,039,230	11,841,272	1,380,009	38,996	41,299,507	17,998,500	19,450,000	2,125,432	1,725,575	1,686,579
	1902	7	16,174,735	210,062	425,882	9,967	16,820,646	7,362,804	8,295,560	797,222	365,000	355,033
All other Mountain states.....	1912	19	39,001,499	1,963,346	2,182,726	294,790	43,442,361	19,668,045	12,220,109	8,951,158	2,602,449	2,307,650
Idaho, Wyoming, Nevada, and Utah.....	1912	13	34,049,694	1,625,614	1,355,075	173,850	37,204,233	15,478,945	10,614,309	8,569,137	2,541,842	2,367,992
New Mexico and Ari- zona.....	1912	6	4,951,805	337,732	827,651	120,940	6,238,128	4,189,700	1,605,800	382,021	60,607	60,333
All other Mountain states. ²	1907	13	19,348,142	1,101,028	1,613,768	209,394	22,272,332	9,652,676	8,699,600	3,077,372	842,684	633,290
	1902	6	4,508,012	1,682,600	237,039	14,783	6,442,434	3,218,100	2,811,150	284,279	128,905	114,122
PACIFIC:												
Washington.....	1912	20	136,195,547	10,176,670	13,377,442	577,813	160,327,472	79,319,508	56,926,500	21,227,988	2,853,476	2,275,663
	1907	15	64,863,788	6,445,689	6,287,263	514,195	78,110,935	40,454,900	23,414,000	10,909,697	3,332,338	2,818,143
	1902	8	18,574,439	191,793	1,277,594	.....	20,043,826	10,636,400	7,747,813	1,104,228	555,385	555,385
Oregon.....	1912	6	76,935,219	2,821,462	4,001,809	538,408	84,296,898	25,226,800	43,209,776	14,216,321	1,644,001	1,105,593
	1907	8	21,485,428	17,943,670	2,437,757	.....	41,866,855	22,428,900	16,599,000	2,181,847	657,108	657,108
	1902	6	6,235,570	.....	306,486	21,737	6,563,793	2,788,550	2,737,000	383,878	654,365	632,628
California.....	1912	42	394,521,712	31,504,789	52,010,518	3,142,704	481,179,723	276,322,796	164,957,750	36,622,850	3,276,327	133,623
	1907	42	251,692,790	13,637,939	26,104,021	2,165,529	293,600,279	147,734,600	96,812,400	44,087,329	4,965,950	2,800,421
	1902	35	74,624,168	1,805,168	6,167,463	5,751	82,602,550	46,022,099	30,529,500	4,239,902	1,811,049	1,805,293

¹ Italic figures indicate deficits.² Includes states as follows: 1907—Arizona, 4; Idaho, 2; Nevada, 1; New Mexico, 2; Utah, 4. 1902—Arizona, 1; Idaho, 1; New Mexico, 1; Utah, 3.

GENERAL TABLES.

TABLE 22.—NET BALANCE SHEET, OPERATING AND LESSOR COMPANIES, WITH PERCENTAGES OF INCREASE AND DISTRIBUTION: 1912, 1907, AND 1902.

	Census.	Number of companies.	ASSETS.			Total—Assets or liabilities.	LIABILITIES.			
			Cost of construction, equipment, and real estate.	Other investments.	Current and other assets.		Capital stock.	Funded debt.	Unfunded debt, reserves, and current and other liabilities.	Net surplus.
Operating and lessor companies.	1912	1,260	\$4,596,563,292	\$465,250,414	\$348,731,487	\$5,410,545,193	\$2,384,344,513	\$2,324,223,628	\$606,690,400	\$95,286,652
	1907	¹ 1,230	3,637,668,708	374,664,197	251,528,687	4,263,861,592	2,031,986,366	1,672,959,930	488,471,004	70,444,292
	1902	² 967	2,167,634,077	152,513,997	213,699,184	2,533,847,258	1,266,883,289	974,112,422	252,145,435	40,706,112
Per cent of total.....	1912	.....	85.0	8.6	6.4	100.0	44.1	43.0	11.2	1.8
	1907	.....	85.3	8.8	5.9	100.0	47.7	39.2	11.5	1.7
	1902	.....	85.5	6.0	8.4	100.0	50.0	38.4	10.0	1.6
Per cent of increase:										
1907-1912.....		2.4	26.4	24.2	38.6	26.9	17.3	38.9	24.2	35.3
1902-1907.....		27.2	67.8	145.7	17.7	68.3	60.4	71.7	93.7	73.1
Operating companies.....	1912	975	\$3,867,215,202	\$385,973,185	\$331,692,759	\$4,584,881,146	\$1,957,300,149	\$1,999,417,874	\$553,451,347	\$74,711,776
	1907	¹ 939	2,719,051,703	329,803,587	172,213,837	3,221,069,127	1,508,759,290	1,264,504,062	406,256,041	41,549,734
Per cent of total.....	1912	.....	84.3	8.4	7.2	100.0	42.7	43.6	12.1	1.6
	1907	.....	84.4	10.2	5.3	100.0	46.8	39.3	12.6	1.3
Per cent of increase:										
1907-1912.....		3.8	42.2	17.0	92.6	42.3	29.7	58.1	36.2	79.8
Lessor companies.....	1912	285	\$729,348,090	\$79,277,229	\$17,038,728	\$825,664,047	\$427,044,364	\$324,805,754	\$53,239,053	\$20,574,876
	1907	291	918,617,005	44,860,610	79,314,850	1,042,792,465	523,227,076	408,455,868	82,214,963	28,894,558
Per cent of total.....	1912	.....	88.3	9.6	2.1	100.0	51.7	39.3	6.4	2.5
	1907	.....	88.1	4.3	7.6	100.0	50.2	39.2	7.9	2.8
Per cent of increase: ³										
1907-1912.....		-2.1	-20.6	76.7	-78.5	-20.8	-18.4	-20.5	-35.2	-28.8

¹ Exclusive of 6 companies which failed to furnish this information.

² Exclusive of 20 companies which failed to furnish this information.

³ A minus sign (-) denotes decrease.

TABLE 23.—NET BALANCE SHEET, OPERATING AND LESSOR COMPANIES, BY ACCOUNTS: 1912.

ACCOUNT.	Total—All companies.	Operating companies.	Lessor companies.	PER CENT OF TOTAL.	
				Operating companies.	Lessor companies.
Number of companies.....	1,260	975	285	77.4	22.6
Total—Assets or liabilities.....	\$5,410,545,193	\$4,584,881,146	\$825,664,047	84.7	15.3
<i>Assets.</i>					
Cost of construction, equipment, and real estate.....	4,596,563,292	3,867,215,202	729,348,090	84.1	15.9
Stocks and bonds of other electric railway companies.....	266,962,339	206,298,309	60,664,030	77.3	22.7
Stocks and bonds of companies other than electric railways.....	57,774,666	53,238,280	4,536,386	92.1	7.9
Treasury securities.....	93,142,825	81,718,194	11,424,631	87.7	12.3
Stock.....	30,875,789	28,467,510	2,408,279	92.2	7.8
Bonds.....	62,267,036	53,250,684	9,016,352	85.5	14.5
Other permanent investments.....	47,370,584	44,718,402	2,652,182	94.4	5.6
Cash and current assets, including supplies.....	178,853,733	171,839,163	7,014,570	96.1	3.9
Stock and bond discount.....	67,754,310	67,271,214	483,096	99.3	0.7
Sinking and other special funds.....	27,781,430	26,203,287	1,578,143	94.4	5.6
Sundries.....	74,362,014	66,379,095	7,982,919	89.3	10.7
<i>Liabilities.</i>					
Capital stock.....	2,384,344,513	1,957,300,149	427,044,364	82.1	17.9
Common.....	1,970,385,003	1,606,071,539	364,313,464	81.5	18.5
Preferred.....	413,959,510	351,228,610	62,730,900	84.8	15.2
Funded debt.....	2,324,223,628	1,999,417,874	324,805,754	86.0	14.0
Real estate mortgages.....	6,097,245	5,593,168	504,077	91.7	8.3
Floating debt.....	296,161,797	279,910,481	16,251,316	94.5	5.5
Reserves.....	80,775,824	77,275,608	3,500,216	95.7	4.3
Accounts payable.....	86,715,392	81,617,168	5,098,224	94.1	5.9
Interest and taxes due and accrued.....	54,079,730	52,882,137	1,197,593	97.8	2.2
Dividends due.....	4,164,748	4,011,405	153,343	96.3	3.7
Sundries.....	78,695,664	52,161,380	26,534,284	66.3	33.7
Net surplus.....	95,286,652	74,711,776	20,574,876	78.4	21.6

STREET AND ELECTRIC RAILWAYS.

TABLE 24.—BALANCE SHEET OF OPERATING AND LESSOR

Table with columns: DIVISION AND STATE, Cost of construction, Stocks and bonds of other electric railway companies, Stocks and bonds of companies other than electric railways, Treasury securities (Total, Stock, Bonds), Other permanent investments, Cash and current assets, Stock and bond discount, Sinking and other special funds, Sundries, Profit and loss deficit for companies showing a deficit.

1 Italic figures indicate deficits.

