CENSUS OF ELECTRICAL INDUSTRIES,

1932;

ELECTRIC RAILWAYS AND MOTOR-BUS OPERATIONS OF AFFILIATES AND SUCCESSORS,

Bureau of the Census

Library

UNITED STATES

GOVERNMENT PRINTING OFFICE

WASHINGTON : 1934
FOREWORD

The following report on the Census of Electric Railways and Motor-Bus Operations of Affiliates and Successors is one of a series which also includes reports on central electric light and power stations, telephones, and telegraphs.

The census of electrical industries has been taken quinquennially, beginning with the inquiry for the year 1902, under provisions of the acts of Congress approved March 6, 1902, and July 7, 1906.

The collection of the data, the compilation of the statistics, and the preparation of the text for this report were under the supervision of Z. R. Pettet, chief statistician in charge of electrical industries, and S. S. Slick, assistant chief statistician, assisted by Owen L. Briggs and John A. McKnight.

II
CONTENTS

INTRODUCTION AND GENERAL EXPLANATIONS

Classes of railways and motor-bus operations of affiliates and successors covered .................................................. 1
Areas covered ........................................................................................................................................ 1
Period covered .................................................................................................................................. 1
Types of roads classified by motive power ................................................................................................. 1
Electrically operated divisions and tunnels of steam roads ............................................................................ 1
Auxiliary operations of electric-railway companies ..................................................................................... 2
Classification of companies as operating and lessor .................................................................................... 2
Holding companies .................................................................................................................................. 2
Classification according to income from railway operations .................................................................... 2
Classification according to character of business ....................................................................................... 2
Classification according to character of roadway ..................................................................................... 2
Municipal railways and motor-bus lines ....................................................................................................... 2
Classification of subject matter presented in tables .................................................................................. 2
Growth and decline of the electric-railway industry .................................................................................. 2
Track ................................................................................................................................................... 3
Rolling stock............................................................................................................................................ 3
Traction.................................................................................................................................................. 3
Financial operations ................................................................................................................................. 3
Employees, salaries, and wages .................................................................................................................... 3
Power equipment, output of stations, fuel, and disposal of energy ................................................................ 3
Motor-bus operations ............................................................................................................................... 3

GROWTH AND DECLINE OF THE ELECTRIC RAILWAY INDUSTRY

TABLES

1. Summary—electric railways: 1922 to 1932 ............................................................................................. 4
2. Principal statistics—electric railways: 1932, 1927, and 1922 .................................................................. 5
3. Trolley-bus operations of electric railway companies: 1932 .................................................................. 6
4. Number of companies and line mileage classified according to miles of line per company: 1907 to 1931 ........................................................................................................................................... 6
5. Retirements of electric-railway companies: 1932, 1927, and 1922 ....................................................... 7
6. Track mileage, by class of track, motive power, ownership, and location: 1932, 1927, and 1922 ....... 8
7. Miles of track—companies classified by income from railway operations: 1932, 1927, and 1922 .... 9
8. Electric-railway systems other than overhead-trolley—number of companies and track mileage, by States: 1932, 1927, and 1922 ............................................................................................................. 10
9. Mileage of track operated by companies allocated to each State, classified by type of motive power and ownership; and trackage actually in each State; by geographic divisions: 1932, 1927, and 1922 ................................................................................................................. 11
10. Miles of electric track, including track of electrified divisions of steam railroads and electrified tunnels, by type of motive power: 1932, 1927, and 1922; and by class and system: 1932 ........................................................................................................................................ 12
11. Total trackage and trackage operated, inside and outside each State, by companies operating in more than one State: 1932 .................................................................................................................. 14
12. Track mileage, classified by type of track and by motive power, by geographic divisions: 1932, 1927, and 1922 ........................................................................................................................................... 15
13. Track mileage—operated by reporting companies, classified by location: miles owned by operating companies; and miles owned but not operated, by geographic divisions: 1932, 1927, and 1922 ........................................................................................................................................ 18
14. Track leased and track operated under trackage rights or contract, by divisions and States: 1932 ........................................................................................................................................ 19
15. Miles of single track located on public thoroughfares and on private right of ways, by geographic divisions: 1932 and 1927 ........................................................................................................................................ 20
17. Passenger cars, percent distribution by type: 1932, 1927, and 1922 .................................................. 20
18. Brake equipment for passenger cars, by divisions and States: 1932 .................................................. 21
20. Rolling stock—detailed statistics, cars, electric locomotives, and trolley busses; by divisions and States: 1932 ........................................................................................................................................ 22
21. Electric locomotives, by divisions and States: 1932 ............................................................................ 28
22. Number of cars by type of service and number of electric locomotives, by divisions and States: 1932 and 1927 ........................................................................................................................................ 29
23. Rolling stock—companies classified by income from railway operations: 1932, 1927, and 1922 .... 30
24. Passenger traffic and track and car mileage—companies classified by income and location groups: 1932, 1927, and 1922 ........................................................................................................................................ 30
25. Passengers carried by car lines and trolley-bus lines, by class of passengers, by divisions and States: 1932 ........................................................................................................................................ 32
26. Passenger traffic, track, and car mileage, and car hours, by divisions and States: 1932 .................. 33
27. Casualties, with ratios to car mileage, for the United States, 1932, 1927, 1922, and 1917; and by classification groups and divisions and States: 1932 ............................................................................................................. 34
28. Car hours: 1932, 1927, and 1922 ........................................................................................................ 38
29. Nonoperating or lessor companies—Number and condensed income account: 1932, 1927, and 1922 .... 38
30. Operating income account—Elevated and subway and surface groups of companies: 1932, 1927, and 1922 ........................................................................................................................................ 39

111
TABLES—Continued

31. Operating revenues, by source, for companies classified by income groups: 1932, 1927, and 1922. 39
32. Operating revenues, by source—Companies classified by character of business: 1932, 1927, and 1922. 40
33. Percent distribution of operating revenues, by income groups of companies and by source: 1932, 1927, and 1922. 41
34. Operating revenues, by source—Companies, by geographic divisions: 1932, 1927, and 1922. 42
35. Railway-operating revenues, by source, by geographic divisions: 1932, 1927, and 1922. 43
36. Income from freight, mail, baggage, express, and milk traffic on electric-railway lines, by geographic divisions: 1932, 1927, and 1922. 44
37. Revenues from operating railway operations (other than transportation and from auxiliary operations, by divisions and States, 1932. 45
38. Operating revenues and expenses and net operating revenue per mile of track, per car-mile, and per revenue passenger, companies classified by income groups: 1932, 1927, and 1922. 46
39. Railway-operating expenses, by income groups of companies and by source: 1932, 1927, and 1922, by divisions and States. 47
40. Income account, nonoperating or lessor companies, by States: 1932, 1927, and 1922. 48
41. Operating revenues and expenses and net operating revenue per mile of track, per car-mile, and per revenue passenger, companies of elevated and subway and surface groups: 1932, 1927, and 1922. 49
42. Operating expenses, by accounts, with percent distribution: 1932, 1927, and 1922. 50
43. Operating expenses, by accounts, for companies classified by income groups, with percent distribution, 1932. 51
44. Operating expenses, by accounts, for companies grouped as elevated and subway and surface, 1932. 52
45. Taxes assignable to railway operations, by geographic divisions: 1932, 1927, and 1922. 53
46. Ratio (expressed as a percent) of operating expenses to operating revenues, by States: 1932, 1927, and 1922. 54
47. Operating expenses, by geographic divisions: 1932, 1927, and 1922. 55
48. Operating expenses, by income groups of companies and by character of business: 1932, 1927, and 1922. 56
49. Principal statistics for companies engaged exclusively in the operation of electric railways: 1932, 1927, and 1922. 57
50. Employees, salaries, and wages, by occupational classes, for operating companies, by geographic divisions: 1932, 1927, and 1922. 58
51. Employees, salaries, and wages, by classification groups, for operating companies: 1932, 1927, and 1922. 59
52. Employees, salaries, and wages, by occupational classes, for operating companies: 1932, 1927, and 1922. 60
53. Percent distribution of salaries and wages for operating companies: 1932, 1927, and 1922. 61
54. Percent increase 5-year and 10-year periods, employees, salaries, and wages, for operating companies, by geographic divisions: 1922 to 1932, and 1912 to 1922. 62
55. Average number of employees per operating company, by geographic divisions: 1932, 1927, and 1922. 63
56. Employees, salaries, and wages, by occupational classes, for operating companies, by divisions and States, 1932. 64
57. Average trip length per passenger, by divisions and States, 1932. 65
58. Ratio (expressed as a percent) of salaries and wages combined to operating expenses, for operating companies, by States: 1932, 1927, and 1922. 66
59. Prime movers, generators, and output of stations, electric railways, by geographic divisions, 1932. 67
60. Power-plant equipment and output of stations, for electric-railway companies, by income groups, 1932. 68
61. Power-plant equipment, horsepower, by type and horsepower groups, for electric railways, by geographic divisions, 1932. 69
62. Electric energy for disposal—Generated, by type of prime mover: and purchased, according to source: by geographic divisions, 1932. 70
63. Federal statistics of stations, electric railways and electrified divisions of steam railroads, and the percent distribution and average capacity per unit for electric railways, 1932. 71
64. Prime movers, by types and by horsepower groups, for electric railways, 1932. 72
65. Principal statistics for companies engaged exclusively in the operation of electric railways, by geographic divisions: 1922 to 1932. 73
66. Energy for disposal by electric light and power departments of electric-railway companies—Class of service, number of customers, output of energy, and revenue, 1932. 74
67. Number of bus lines: 1932, 1927, and 1922. 75
68. Total passengers and revenue passengers per bus operated and per car mile of track operated, by divisions and States, 1932. 76
69. Motor-bus lines, by operating classes, 1932. 77
70. Passenger traffic, bus mileage, and bus hours, by divisions and States, 1932. 78
71. Motor-bus passengers—Number, by class, by divisions and States: 1932 and 1927. 79
72. Motor-bus mileage and hours, by divisions and States: 1932 and 1927. 80
73. Motor-bus lines, by full year and part year period of operation, and character of business, 1932. 81
74. Operating revenues, motor-bus, by divisions and States, 1932. 82
75. Operating revenues, motor-bus, by divisions and States, 1932. 83
76. Operating revenues, operating expenses, and net operating revenues, per bus operated and per bus mile, by divisions and States, 1932. 84
77. Income statement, motor-bus lines, by divisions and States, 1932. 85
78. Condensed income account, motor-bus lines—All operating companies, those reporting net surplus, and those reporting net deficit, by geographic divisions, 1932. 86
79. Income account of motor-bus lines—Operating companies reporting net income and those reporting net deficit, 1932. 87
80. Employees, salaries, and wages, motor-bus lines, by occupational classes, by divisions and States, 1932. 88
81. Casualties, motor-bus lines—Revenue passengers, and average fare per revenue passenger, by divisions and States, 1932. 89
82. Motor-bus passenger revenue, revenue passengers, and average fare per revenue passenger, by divisions and States, 1932. 90
83. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 91
84. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 92
85. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 93
86. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 94
87. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 95
88. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 96
89. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 97
90. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 98
92. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 100
94. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 102
95. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 103
96. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 104
100. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 108
102. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 110
103. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 111
104. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 112
105. Summary—Federal statistics of principal electric railways: 1932, 1927, and 1922. 113

Appendix—Schedules used in securing data for electric railways and motor-bus operations of affiliates and successors, 1932. 114