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7 GEORGE V

SESSIONAL PAPER No. 20f

A. 1917

# TELEGRAPH STATISTICS

OF THE

## DOMINION OF CANADA

FOR THE

### YEAR ENDED JUNE 30

# 1916

*PRINTED BY ORDER OF PARLIAMENT*



OTTAWA

PRINTED BY J. DE L. TACHÉ  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY

1917

[No. 20f--1917]



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*To His Excellency the Duke of Devonshire, K.G., P.C., G.C.M.G., G.C.V.O., etc.,  
etc., Governor General and Commander in Chief of the Dominion of Canada.*

MAY IT PLEASE YOUR EXCELLENCY:

The undersigned has the honour to present to Your Excellency the Annual Report of the Comptroller of Statistics in relation to the telegraph interests of the Dominion of Canada for the year ended Juné 30, 1916.

F. COCHRANE,  
*Minister of Railways and Canals.*



To the Honourable F. COCHRANE,  
Minister of Railways and Canals.

SIR,—I have the honour to submit the Report of the Comptroller of Statistics in relation to the telegraph interests of the Dominion of Canada for the year ended June 30, 1916.

I have the honour to be, sir,  
Your obedient servant,

A. W. CAMPBELL,  
*Deputy Minister of Railways and Canals.*



## OFFICE OF THE COMPTROLLER OF STATISTICS,

OTTAWA, March 5, 1917.

A. W. CAMPBELL, Esq., C.E.,  
Deputy Minister of Railways and Canals.

SIR.—I have the honour to submit herewith Telegraph Statistics for the year ended June 30, 1916.

Reports were received from all the organizations within the jurisdiction of the department.

The returns disclose operating results above those of last year. Earnings were the highest of any year since statistics in relation to the telegraph interests of Canada were required.

## ORGANIZATION.

*Anglo-American Telegraph Company, Limited.*—Chairman of the Board, Francis A. Bevan; Directors, Messrs. Francis A. Bevan, Robert H. Benson, and Sir Herbert S. Leon, Bart.; Secretary, William Miles, Winchester House, Old Bond Street, London, England. The company has leased its whole undertaking to the Western Union Telegraph Company, of New York, for 99 years from 1st April, 1911.

*Canadian Northern Telegraph Company.*—The operating interests of this company have been taken over by the Great North Western Telegraph Company and the results of operation are included in the report of the latter corporation.

*Canadian Pacific Railway Company's Telegraph.*—President, Right Honourable Lord Shaughnessy, K.C.V.O.; Vice-Presidents, G. Bury, I. G. Ogden, G. M. Bosworth, E. W. Beatty, K.C., and G. Hall; Directors, Right Honourable Lord Shaughnessy, Sir Thomas Skinner, Bart., Sir Edmund B. Osler, K.C., Sir Herbert S. Holt, Colonel Frank S. Meighen, Hon. Robert Mackay, Hon. James Dunsuir, R. B. Angus, A. M. Nanton, E. W. Beatty, K.C., W. D. Matthews, C. R. Hosmer and G. Bury; Secretary, W. R. Baker, C.V.O.; Treasurer, H. E. Suckling; Comptroller, J. Leslie; General Auditor, F. E. Shrimpton; Manager, J. McMillan.

*Dominion Government Telegraph Service.*—This service is administered by the Department of Public Works, Ottawa. Mr. D. H. Keeley is the general superintendent. Operations are carried on in those outlying sections of the Dominion which are not served by commercial telegraph organizations.

*Grand Trunk Pacific Telegraph Company.*—President, E. J. Chamberlin; Vice-Presidents, M. Donaldson and W. H. Ardley; Directors, Messrs. E. J. Chamberlin, W. H. Biggar, W. H. Ardley, M. Donaldson, Howard G. Kelley, and H. Hulatt; Secretary, Henry Phillips; Treasurer, Frank Scott; General Counsel, W. H. Biggar, K.C.; Auditor, W. H. Ardley; Manager, H. Hulatt. Headquarters, Montreal.

*Great North Western Telegraph Company.*—President, Z. A. Lash; Vice-President, Adam Brown; Directors, Messrs. Adam Brown, James Hedley,

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Z. A. Lash, Hon. J. K. Kerr, A. Jarvis, F. B. Hayes, D. B. Hanna, George D. Perry and R. P. Ormsby; Secretary, A. C. McConnell; Treasurer, D. E. Henry; General Manager, George D. Perry.

*North American Telegraph Company.*—President, C. F. Sise; Vice-President, Hon. Robert Mackay; Directors, Messrs. C. F. Sise, Hon. Robert Mackay, C. F. Sise, jr., Hugh Paton, Charles Cassils, L. B. McFarlane, and W. H. Black; Secretary-Treasurer, J. H. Hoppes, Kingston, Ontario.

*Temiskaming and Northern Ontario Railway Commission.*—Chairman of the Board, J. L. Englehart; Commissioners, Denis Murphy and George W. Lee; Secretary-Treasurer, W. H. Maund; Accountant, T. J. Gracey; Superintendent, W. J. Kelly. Headquarters, Toronto.

*Western Union Telegraph Company.*—President, Newcomb Carlton; Vice-Presidents, G. W. E. Atkins, Rush Taggart, J. C. Williver, W. N. Fashbaugh, G. M. Yorke and E. Y. Gallaher; Treasurer, Lewis Dresdner; Secretary, W. H. Baker; General Auditor, H. W. Ladd; General Attorney, A. T. Benedict; Directors, Messrs. Oliver Ames, William Vincent Astor, Henry A. Bishop, Newcomb Carlton, Robert C. Clowry, Henry W. DeForest, Chauncey M. Depew, William Fahnestock, Donald G. Geddes, Geo. J. Gould, Chauncey Kepp, Robert S. Lovett, Edwin G. Merrill, Percy A. Rockefeller, Jacob H. Schiff, Mortimer L. Schiff, James Stillman, William H. Truesdale, Joseph J. Sloeum, W. K. Vanderbilt, jr., and Albert H. Wiggin; Comptroller, E. Y. Gallaher; General Attorney, A. T. Benedict. Headquarters, 195 Broadway, New York.

*Halifax and Bermudas Cable Company, Limited.*—President, Sir Thomas Skinner, Bart.; Directors, Sir Thomas Skinner, Bart., George Gray Ward, Frederick Ward, Thomas Hewitt-Skinner, and William Morrey Kent; General Manager and Secretary, Joseph Rippon, 33 Old Broad Street, London, England.

*Pacific Cable Board.*—Chairman, Sir H. Babington Smith, K.C.B., C.S.I.; Board, Sir William H. Mereer, K.C.M.G., (Crown Agent for the Colonies), Sir G. S. Gibb, (Chairman of the Road Board), Hon. Sir George H. Perley, A. Lang, C.M.G., (Representing the Dominion of Canada), Right Hon. Andrew Fisher, P.C., Sir T. A. Coghlan, K.B., I.S.O., (Representing the Commonwealth of Australia) and Hon. Sir T. Mackenzie, K.C.M.G., (Representing the Dominion of New Zealand); Secretary F. J. Adye; Manager in the Pacific, J. Milward, Sydney, Australia.

*Marconi Wireless Telegraph Company.*—President, Andrew A. Allan; Vice-President, Guglielmo Marconi, D.Sc., LL.D.; Directors, J. N. Green-shields, K.C., Robert Bickerdike, M.P., G. M. Bosworth, and Godfrey C. Isaacs; Secretary-Treasurer, Alex. E. Reoch; General Manager, J. H. Lauer. Headquarters, Montreal.

#### CAPITALIZATION AND COST.

The situation with respect to both capitalization and cost is somewhat confusing. There are a number of organizations which have neither stocks nor bonds outstanding, and which are unable to report the cost of their telegraph systems. The Canadian Pacific Railway Company's telegraph is a case in point. Primarily, many of the lines were built as a part of the railway system of the Company, and the cost was wrapped up with capital expenditures for purely railway purposes. Many stretches of wire are also used for both train

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despatching and the transmission of commercial messages. The case of the Pacific Cable Board illustrates another aspect of the matter. This cable line is owned jointly by the United Kingdom and the several British Dominions concerned, and the cost for the purposes of these statistics is the cost of equipment within the Dominion of Canada. With these explanations the facts given will be understood.

Following is the capitalization of companies having headquarters in Canada:—

|  | Stocks.   | Bonds.  |
|--|-----------|---------|
|  | \$        | \$      |
| Canadian Northern Telegraph Company.....   | 500,000   | 800,000 |
| Grand Trunk Pacific Telegraph Company..... | 100,000   |         |
| Great North Western Telegraph Company..... | 500,000   |         |
| Marconi Wireless Telegraph Company.....    | 5,000,000 |         |
| North American Telegraph Company.....      | 200,000   |         |
| Total.....                                 | 6,300,000 | 800,000 |

The figures of cost relating to Canadian companies were as follows:—

|   |                     |
|---|---------------------|
| Canadian Pacific Railway Company's Telegraph..... | \$6,696,421         |
| Dominion Government Telegraph Service.....        | 2,762,076           |
| Marconi Wireless Telegraph Co.....                | 527,466             |
| North American Telegraph Company.....             | 56,675              |
| Pacific Cable Board.....                          | 60,000              |
| Temiskaming and Northern Ontario.....             | 75,218              |
| Total.....  | <u>\$10,177,856</u> |

## EARNINGS AND OPERATING EXPENSES.

Gross receipts from operation amounted to \$6,255,740.16 in 1916, as compared with \$5,536,337.46 in 1915.

It should be explained that the earnings of the Western Union Telegraph Company include an arbitrary assignment of a certain amount for such business as is merely relayed across certain portions of Canada from the cable station at Canso, N.S., to points in the United States.

The sources and amounts of gross revenue, on a comparative basis, for 1916 and the four years preceding, were as follows:—

|                        | 1912.        | 1913.        | 1914.        | 1915.        | 1916.        |
|------------------------|--------------|--------------|--------------|--------------|--------------|
|                        | \$ cts.      |
| Local messages.....    | 2,751,490 21 | 3,187,127 53 | 2,859,101 22 | 2,562,563 60 | 3,023,655 52 |
| Conjoint messages..... | 1,385,586 01 | 1,400,449 78 | 1,358,194 12 | 1,187,638 24 | 1,258,721 14 |
| Press reports.....     | 158,839 88   | 123,568 89   | 143,798 85   | 122,422 04   | 95,409 16    |
| Market reports.....    | 98,437 70    | 103,710 58   | 90,638 33    | 40,723 86    | 91,737 22    |
| Cablegrams.....        | 484,713 68   | 682,456 78   | 711,326 89   | 806,309 23   | 959,960 85   |
| Money Orders.....      | 40,770 61    | 49,730 08    | 56,416 96    | 39,975 56    | 37,069 06    |
| Leased wires.....      | 288,009 44   | 297,083 40   | 305,746 19   | 279,018 76   | 297,542 73   |
| Miscellaneous.....     | 151,339 39   | 242,085 84   | 448,981 48   | 497,686 17   | 491,644 48   |
| Total.....             | 5,359,188 92 | 6,095,212 90 | 5,983,204 04 | 5,536,337 46 | 6,255,740 16 |

It will be observed there has been a substantial increase in receipts from cablegrams since 1912, and particularly since the outbreak of the European war.

Operating expenses:—

|                              | 1912.        | 1913.        | 1914.        | 1915.        | 1916.        |
|------------------------------|--------------|--------------|--------------|--------------|--------------|
|                              | \$ ets.      |
| Salaries and wages.....      | 2,583,887 50 | 2,884,590 20 | 2,908,697 07 | 2,735,956 57 | 2,823,400 52 |
| Stationery and printing..... | 31,060 14    | 29,442 65    | 39,133 22    | 40,979 18    | 55,833 98    |
| Line and equipment.....      | 372,344 25   | 402,149 33   | 674,086 18   | 762,658 14   | 689,560 95   |
| Buildings.....               | 229,046 58   | 241,486 31   | 271,155 67   | 257,427 28   | 251,959 86   |
| Legal expenses.....          | 2,177 40     | 3,918 59     | 2,858 35     | 743 19       | 2,016 00     |
| Insurance.....               | 3,960 37     | 2,448 24     | 5,186 25     | 7,856 93     | 8,283 67     |
| Commissions.....             | 143,070 03   | 141,854 06   | 130,877 51   | 114,840 14   | 127,091 66   |
| Taxes.....                   | 23,665 25    | 20,539 05    | 30,971 86    | 31,257 87    | 34,470 46    |
| Miscellaneous.....           | 138,610 44   | 308,072 00   | 179,573 62   | 177,446 52   | 211,897 91   |
| Total.....                   | 3,527,821 96 | 4,034,480 43 | 4,242,539 73 | 4,129,165 82 | 4,204,515 01 |

The following statement shows how gross earnings in 1916 and three years preceding were distributed among the various companies:—

|  | 1913.        | 1914.        | 1915.        | 1916.        |
|--|--------------|--------------|--------------|--------------|
|  | \$ ets.      | \$ ets.      | \$ ets.      | \$ ets.      |
| Canadian Northern Telegraph Company.....         | 276,739 70   | 264,615 03   | 149,785 67   | .....        |
| Canadian Pacific Railway Company.....            | 3,286,508 95 | 2,991,273 06 | 2,504,241 50 | 2,748,819 63 |
| Dominion Government Telegraph Service.....       | 215,526 11   | 253,112 57   | 225,944 27   | 181,227 04   |
| Grand Trunk Pacific Telegraph Company.....       | 72,126 80    | 81,975 51    | 75,268 01    | 100,175 20   |
| Great North Western Telegraph Company.....       | 1,244,302 67 | 1,252,930 14 | 1,295,774 91 | 1,828,639 69 |
| Halifax and Bermuda Cable Company.....           | 69,710 00    | 77,465 00    | 87,930 00    | 99,975 00    |
| Marconi Wireless Telegraph Company.....          | 218,660 00   | 239,006 70   | 306,615 47   | 296,139 82   |
| North American Telegraph Company.....            | 22,023 49    | 23,849 95    | 19,843 40    | 18,854 46    |
| Pacific Cable Board.....                         | 85,166 60    | 98,558 25    | 113,657 52   | 179,381 76   |
| Temiskaming and Northern Ontario Commission..... | 36,297 73    | 32,165 17    | 24,912 01    | 29,460 36    |
| Western Union Telegraph Company.....             | 568,150 85   | 668,252 66   | 732,364 70   | 773,067 20   |
| Total.....                                       | 6,095,212 90 | 5,983,04 04  | 5,536,337 46 | 6,255,740 16 |

Operating expenses in 1916 and the three years preceding were distributed among the reporting units as follows:—

|  | 1913.        | 1914.        | 1915.        | 1916.        |
|--|--------------|--------------|--------------|--------------|
|  | \$ ets.      | \$ ets.      | \$ ets.      | \$ ets.      |
| Canadian Northern Telegraph Company.....         | 141,742 68   | 153,603 95   | 80,693 28    | .....        |
| Canadian Pacific Railway Company.....            | 1,691,953 38 | 1,613,687 64 | 1,382,507 16 | 1,339,161 02 |
| Dominion Government Telegraph Service.....       | 491,550 80   | 623,755 29   | 632,674 98   | 661,982 34   |
| Grand Trunk Pacific Telegraph Company.....       | 62,236 13    | 93,870 12    | 105,405 76   | 89,920 49    |
| Great North Western Telegraph Company.....       | 911,884 98   | 947,964 56   | 993,495 52   | 1,198,700 13 |
| Halifax and Bermuda Cable Company.....           | 25,695 00    | 20,403 00    | 25,200 00    | 24,110 00    |
| Marconi Wireless Telegraph Company.....          | 218,597 00   | 231,848 08   | 285,552 85   | 226,051 99   |
| North American Telegraph Company.....            | 21,084 55    | 21,607 59    | 21,640 24    | 16,760 57    |
| Pacific Cable Board.....                         | 69,649 69    | 76,146 92    | 85,753 07    | 118,907 44   |
| Temiskaming and Northern Ontario Commission..... | 12,495 34    | 11,150 00    | 13,190 72    | 9,987 20     |
| Western Union Telegraph Company.....             | 387,590 88   | 448,502 58   | 494,052 24   | 518,873 83   |
| Total.....                                       | 4,034,480 43 | 4,242,539 73 | 4,129,165 82 | 4,204,515 01 |

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## INCOME ACCOUNT.

Following is a summary of table 4 in relation to the Income Account of telegraph organizations:—

|                                   |                 |
|-----------------------------------|-----------------|
| Gross revenue.....                | \$ 6,057,127 81 |
| Operating expenses.....           | 3,518,203 64    |
| Net operating revenue.....        | \$ 2,538,924 17 |
| Additions—                        |                 |
| From outside operations.....      | \$ 743 21       |
| Rents.....                        | 11,003 44       |
| From securities held.....         |                 |
| Other items.....                  | 5,638 66        |
|                                   | 17,385 31       |
| Gross corporate income.....       | \$ 2,556,309 48 |
| Deductions—                       |                 |
| Taxes.....                        | \$ 21,329 03    |
| Interest on bonds.....            | 130,000 00      |
| Other deductions.....             | 122,451 44      |
|                                   | 273,780 47      |
| Net corporate income.....         | \$ 2,282,529 01 |
| Disposal of net corporate income— |                 |
| Dividends.....                    | \$ 226,914 00   |
| Reserves.....                     | 18,015 20       |
|                                   | 244,9 9 20      |
| Balance.....                      | \$ 2,037,599 81 |

## EQUIPMENT.

For the first time, reporting units were required in 1916 to submit the facts with respect to physical equipment over and above pole and wire mileage. Table 10 will afford details of this new feature.

Following are the facts with respect to pole and wire mileage, by provinces, for 1916 and the three years preceding.

| Province.             | Pole Mileage. |           |           |           | Wire Mileage. |            |            |            |
|-----------------------|---------------|-----------|-----------|-----------|---------------|------------|------------|------------|
|                       | 1913.         | 1914.     | 1915.     | 1916.     | 1913.         | 1914.      | 1915.      | 1916.      |
| Nova Scotia.....      | 2,907·25      | 2,931·75  | 2,944·00  | 2,962·40  | 9,412·49      | 10,912·23  | 11,474·45  | 11,318·79  |
| New Brunswick.....    | 2,251·25      | 1,910·25  | 2,000·25  | 2,269·75  | 7,297·34      | 8,444·79   | 8,690·80   | 9,488·31   |
| Quebec.....           | 7,035·25      | 6,851·00  | 6,836·25  | 7,284·00  | 25,242·20     | 22,296·25  | 22,579·00  | 24,447·89  |
| Ontario.....          | 11,166·90     | 11,258·40 | 11,164·40 | 7,630·75  | 47,682·55     | 66,245·55  | 66,183·35  | 24,096·50  |
| Manitoba.....         | 3,808·00      | 3,908·75  | 4,210·40  | 12,161·40 | 13,697·10     | 19,377·80  | 21,884·75  | 69,166·05  |
| Saskatchewan.....     | 5,863·65      | 6,749·10  | 6,947·85  | 4,124·40  | 19,499·80     | 26,830·40  | 27,062·05  | 20,582·00  |
| Alberta.....          | 3,476·05      | 4,050·50  | 4,194·20  | 6,981·60  | 16,193·05     | 19,286·70  | 22,494·75  | 26,182·30  |
| British Columbia..... | 5,838·14      | 6,699·64  | 7,319·31  | 5,015·20  | 13,192·46     | 19,181·72  | 21,866·25  | 22,905·50  |
| Yukon.....            | 688·00        | 688·00    | 586·00    | 7,111·99  | 688·00        | 588·00     | 586·00     | 21,654·38  |
| Newfoundland.....     | 14·00         | 14·00     | 14·00     | 710·00    | 14·00         | 14·00      | 14·00      | 710·00     |
|                       | 43,048·49     | 45,061·39 | 46,971·66 | 49,251·49 | 152,918·99    | 193,277·44 | 202,835·40 | 206,551·72 |

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The wire mileage in 1915 and four preceding years was distributed, by classes, as follows:—

|                         | 1912.   | 1913.   | 1914.   | 1915.   | 1916.   |
|-------------------------|---------|---------|---------|---------|---------|
|                         | Miles.  | Miles.  | Miles.  | Miles.  | Miles.  |
| Galvanized.....         | 116,974 | 122,168 | 126,886 | 132,343 | 136,299 |
| Copper—overhead.....    | 50,100  | 29,417  | 21,606  | 27,812  | 27,927  |
| Copper—underground..... | 254     | 698     | 737     | 748     | 910     |
| Copper—submarine.....   | 689     | 636     | 653     | 649     | 580     |
| Multiple.....           | 36,218  | 39,794  | 43,395  | 41,233  | 40,836  |

"Multiple" must be understood as applying to wire used for the duplex and quadruplex systems. Each mile of wire is, however, capable of serving the purpose of from two to four miles under ordinary conditions. The count is based on actual mileage of wire.

#### Physical equipment:—

|  |        |
|--|--------|
| Cells of gravity battery, main.....            | 23,878 |
| "        local.....                            | 7,878  |
| Cells of storage battery, 20 ampere hours..... | 4,401  |
| "        "       160.....                      | 122    |
| Motor generators, generator side:              |        |
| 8 volts.....                                   | 21     |
| 28 ".....                                      | 24     |
| 100 to 135 ".....                              | 35     |
| 200 ".....                                     | 43     |
| 350 to 400 ".....                              | 20     |
| Single instruments.....                        | 7,014  |
| Single repeaters.....                          | 134    |
| Duplex instruments.....                        | 174    |
| Quadruplex instruments.....                    | 81     |
| Circuits of printing telegraphs.....           | 17     |

#### PUBLIC SERVICE.

Larger earnings are reflected in an increase of land messages, as shown in the following comparative statement:—

|           |            |           |            |
|-----------|------------|-----------|------------|
| 1912..... | 9,252,540  | 1914..... | 11,980,869 |
| 1913..... | 11,176,753 | 1915..... | 9,952,135  |

#### Cablegrams:—

|           |         |           |         |
|-----------|---------|-----------|---------|
| 1912..... | 768,559 | 1914..... | 983,061 |
| 1913..... | 877,534 | 1915..... | 977,389 |

#### 1916.....

1,134,905

#### EMPLOYEES.

The number of employees increased from 6,243 in 1915 to 6,581 in 1916.

Of the foregoing employees, 4,414 were operators, of whom 3,935 were males and 479 females.

Other officers and employees had a total of 2,167, showing a decline of 66 for the year.

Salaries and wages amounted to \$2,898,229.83, as compared with \$2,946,-327.14 for 1915.

The aggregate of salaries and wages was equal to 68·94 per cent of operating expenses. The ratio in 1915 was 71·3 and in 1914 it was 75·8.

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## NUMBER OF OFFICES.

Following are the facts with respect to the number of offices, and their distribution by provinces:—

|                           | — | 1915. | 1916. |
|---------------------------|---|-------|-------|
| Nova Scotia.....          |   | 288   | 306   |
| New Brunswick.....        |   | 159   | 156   |
| Prince Edward Island..... |   | 2     | 30    |
| Quebec.....               |   | 817   | 847   |
| Ontario.....              |   | 1,246 | 1,209 |
| Manitoba.....             |   | 420   | 242   |
| Saskatchewan.....         |   | 610   | 545   |
| Alberta.....              |   | 296   | 316   |
| British Columbia.....     |   | 643   | 682   |
| Yukon.....                |   | 17    | 17    |
| In United States.....     |   | 37    | 37    |
| Total.....                |   | 4,535 | 4,387 |

## FINANCIAL PAPER.

The volume of financial paper handled was as follows:—

|           |           |
|-----------|-----------|
| 1915..... | \$665,255 |
| 1916..... | 559,360   |

I have the honour to be, sir,

Your obedient servant,

J. L. PAYNE,  
*Comptroller of Statistics.*

TABLE 1.—Capital Liability, Cost, Gross Revenue, and Operating Expenses.

| Name of Company  | Address.           | Capital Stock. | Funded Debt.  | Cost of Real Property and Equipment. | Revenue from Operation. | Operating Expenses. | Net Operating Revenue. | Net Operating Loss. |
|--|--------------------|----------------|---------------|--------------------------------------|-------------------------|---------------------|------------------------|---------------------|
|  |                    | \$ cts.        | \$ cts.       | \$ cts.                              | \$ cts.                 | \$ cts.             | \$ cts.                | \$ cts.             |
| Anglo-American Telegraph Co., Ltd.....                   | London, Eng.....   | 34,066,666 66  | .....         | 34,066,666 66                        | .....                   | .....               | .....                  | .....               |
| American Telegraph and Cable Co.....                     | New York.....      | 14,000,000 00  | .....         | .....                                | .....                   | .....               | .....                  | .....               |
| Canadian Pacific Railway Co.....                         | Montreal.....      | .....          | .....         | 6,696,421 40                         | 2,748,819 63            | 1,339,161 02        | 1,409,658 61           | .....               |
| Direct United States Cable Co.....                       | London, Eng.....   | 5,909,106 66   | .....         | 5,909,106 66                         | .....                   | .....               | .....                  | .....               |
| Dominion Government Telegraphic Service                  | Ottawa.....        | .....          | .....         | 2,762,076 00                         | 181,227 04              | 661,982 34          | .....                  | 480,755 30          |
| Grand Trunk Pacific Telegraph Co.....                    | Montreal.....      | 100,000 00     | .....         | .....                                | 100,175 20              | 89,920 49           | 10,254 71              | .....               |
| Great North Western Telegraph Co. of Canada.....         | Toronto.....       | 500,000 00     | .....         | .....                                | 1,828,639 69            | 1,198,700 13        | 629,939 56             | .....               |
| Halifax and Bermudas Cable Co., Ltd.....                 | London, Eng.....   | 250,000 00     | .....         | 757,740 00                           | 99,975 00               | 24,110 00           | 63,728 00              | .....               |
| Marconi Wireless Telegraph Co. of Canada Ltd.....        | Montreal.....      | 5,000,000 00   | .....         | 527,466 13                           | 296,139 82              | 226,051 99          | 70,087 83              | .....               |
| North American Telegraph Co.....                         | Kingston, Ont..... | 200,000 00     | .....         | 56,675 13                            | 18,854 46               | 16,760 57           | 2,093 89               | .....               |
| Pacific Cable Board.....                                 | London, Eng.....   | .....          | 8,723 168 00  | *60,000 00                           | 179,381 76              | 118,967 44          | 60,414 32              | .....               |
| Temiskaming and Northern Ontario Railway Commission..... | Toronto.....       | .....          | .....         | 75,217 53                            | 29,460 36               | 9,987 20            | 19,473 16              | .....               |
| Western Union Telegraph Co.....                          | New York.....      | 99,817,100 00  | 32,102,000 00 | 142,086,709 33                       | 773,067 20              | 518,873 83          | 254,193 37             | .....               |
| Totals.....  | .....              | 159,842,873 32 | 40,825,168 00 | 192,998,078 84                       | 6,255,740 16            | 4,204,515 01        | 2,519,843 45           | 480,755 30          |

\* In Canada only.

TABLE 2.—Gross Revenue and the Sources Thereof.

| Name of Company.                                       | Local<br>Messages. | Conjoint<br>Messages. | Press<br>Reports. | Market<br>Reports. | Cablegrams | Money<br>Orders. | Leased<br>Wire. | Miscel-<br>laneous. | Total<br>Gross<br>Revenue. |
|--|--------------------|-----------------------|-------------------|--------------------|------------|------------------|-----------------|---------------------|----------------------------|
|  | \$ cts.            | \$ cts.               | \$ cts.           | \$ cts.            | \$ cts.    | \$ cts.          | \$ cts.         | \$ cts.             | \$ cts.                    |
| Canadian Pacific Railway Co.                           | 1,806,484 37       | 415,012 30            | 18,795 69         | 5,573 11           | 207,081 45 | 12,835 24        | 262,594 78      | 20,442 69           | 2,748,819 63               |
| Dominion Government Telegraph Service                  |                    | 181,227 04            |                   |                    |            |                  |                 |                     | 181,227 04                 |
| Grand Trunk Pacific Telegraph Co.                      | 91,928 70          | 6,128 58              |                   |                    |            |                  |                 | 2,117 92            | 100,175 20                 |
| Great North Western Telegraph Co. of<br>Canada         | 767,738 18         | 624,471 64            | 63,609 64         | 85,075 25          | 156,797 42 | 16,330 31        | 31,249 74       | 83,367 51           | 1,828,639 69               |
| Halifax and Bermudas Cable Co., Ltd.                   |                    |                       | 2,380 00          |                    | 88,351 00  |                  |                 | 9,244 00            | 99,975 00                  |
| Marconi Wireless Telegraph Co. of Canada,<br>Ltd.      | †40,795 71         |                       |                   |                    | 100,046 12 |                  |                 | †155,297 99         | 296,139 82                 |
| North American Telegraph Co.                           | 3,541 96           | 13,539 15             |                   |                    | 863 47     | 144 17           | 743 21          | 22 50               | 18,854 46                  |
| Pacific Cable Board                                    |                    |                       |                   |                    | 179,381 76 |                  |                 |                     | 179,381 76                 |
| Temiskaming and Northern Ontario Railway<br>Commission | 7,292 13           | 18,342 43             | 805 00            |                    | 65 80      |                  | 2,955 00        |                     | 29,460 36                  |
| Western Union Telegraph Co.                            | 305,874 47         |                       | 9,818 83          | 1,088 86           | 227,373 83 | 7,759 34         |                 | *221,151 87         | 773,067 20                 |
| Totals   | 3,023,655 52       | 1,258,721 14          | 95,409 16         | 91,737 22          | 959,960 85 | 37,069 06        | 297,542 73      | 491,644 48          | 6,255,740 16               |

\* Includes \$219,656.20 Cable Expenses at relay stations.

† Ship's messages.

‡ Includes subsidies.

TABLE 3.—Operating Expenses.

| Name of Company.  | Salaries.    | Stationery<br>and<br>Printing. | Mainte-<br>nance<br>of Line<br>and<br>Equipment. | Mainte-<br>nance<br>of<br>Buildings,<br>etc. | Legal<br>Expenses. | Insurance. | Commis-<br>sions. | Taxes.    | Miscel-<br>laneous. | Operating<br>Expenses. |
|---|--------------|--------------------------------|--|--|--------------------|------------|-------------------|-----------|---------------------|------------------------|
|   | \$ cts.      | \$ cts.                        | \$ cts.  | \$ cts.                                      | \$ cts.            | \$ cts.    | \$ cts.           | \$ cts.   | \$ cts.             | \$ cts.                |
| Canadian Pacific Railway Co.....                              | 1,087,687 28 | .....                          | 35,521 64  | 215,952 10                                   | .....              | .....      | .....             | .....     | .....               | 1,339,161 02           |
| Dominion Government Telegraph Service..                       | 400,479 86   | 9,471 02                       | 252,031 46                                       | †  | .....              | .....      | .....             | .....     | .....               | 661,982 34             |
| Grand Trunk Pacific Telegraph Co.....                         | 23,335 32    | 3,053 68                       | 48,265 25  | .....  | .....              | 11,251 18  | 977 78            | 3,037 28  | 89,920 49           | .....                  |
| Great North Western Telegraph Co. of<br>Canada.....           | 676,667 47   | 33,950 41                      | 199,721 31                                       | 2,280 76                                     | 2,013 00           | 2,448 50   | 101,157 01        | 20,441 52 | 160,020 15          | 1,198,700 13           |
| Halifax and Bermudas Cable Co., Ltd.....                      | 18,358 00    | 864 00                         | 249 00   | .....  | .....              | 80 00      | .....             | 2,705 00  | 1,854 00            | 24,110 00              |
| Marconi Wireless Telegraph Co. of Canada,<br>Ltd.....         | 141,664 43   | .....                          | 65,323 56  | .....  | .....              | 5,498 37   | .....             | 2,530 50  | 11,035 13           | 226,051 99             |
| North American Telegraph Co.....                              | 3,272 46     | 55 84                          | 688 76   | 118 33                                       | 3 00               | 256 80     | 7,421 79          | 887 51    | 4,056 08            | 16,760 57              |
| Pacific Cable Board.....                                      | 88,057 67    | 3,607 19                       | .....  | 4,652 63                                     | .....              | .....      | .....             | 181 33    | 22,468 62           | 118,967 44             |
| Temiskaming and Northern Ontario Rail-<br>way Commission..... | .....        | .....                          | 1,428 57   | 8,558 63                                     | .....              | .....      | .....             | .....     | .....               | 9,987 20               |
| Western Union Telegraph Co.....                               | 383,878 03   | 4,831 84                       | 86,331 40  | 20,397 41                                    | .....              | .....      | 7,261 68          | 6,746 82  | 9,426 65            | 518,873 83             |
| Totals.....   | 2,823,400 52 | 55,833 98                      | 689,560 95                                       | 251,959 86                                   | 2,016 00           | 8,283 67   | 127,091 66        | 34,470 46 | 211,897 91          | 4,204,515 01           |

† Included in Maintenance of Line.

TABLE 4.—Income Account for the Year ended June 30, 1916.

20F—2

| Name of Company.   | Gross Revenue. | Operating Expenses. | Net Operating Revenue. | ADDITIONS.          |           |                       |               |           | GROSS CORPORATE INCOME. |         |
|--|----------------|---------------------|------------------------|---------------------|-----------|-----------------------|---------------|-----------|-------------------------|---------|
|  |                |                     |                        | Outside Operations. | Rents.    | From Securities Held. | Other Income. | Total.    | Income.                 | Loss.   |
|  | \$ cts.        | \$ cts.             | \$ cts.                | \$ cts.             | \$ cts.   | \$ cts.               | \$ cts.       | \$ cts.   | \$ cts.                 | \$ cts. |
| Canadian Pacific Railway Co.....                         | 2,748,819 63   | 1,339,161 02        | 1,409,658 61           | .....               | .....     | .....                 | .....         | .....     | 1,409,658 61            | .....   |
| Grand Trunk Pacific Telegraph Co.....                    | 100,175 20     | 89,920 49           | 10,254 71              | .....               | .....     | .....                 | .....         | .....     | 10,254 71               | .....   |
| Great North Western Telegraph Co. of Canada.....         | 1,812,020 09   | 1,178,258 61        | 633,761 48             | .....               | 10,980 94 | .....                 | 5,638 66      | 16,619 60 | 650,381 08              | .....   |
| Halifax and Bermudas Cable Co., Ltd.....                 | 99,975 00      | 24,110 00           | 75,865 00              | .....               | .....     | .....                 | .....         | .....     | 75,865 00               | .....   |
| Marconi Wireless Telegraph Co. of Canada.....            | 296,139 82     | 226,051 99          | 70,087 83              | .....               | .....     | .....                 | .....         | .....     | 70,087 83               | .....   |
| North American Telegraph Co.....                         | 18,088 75      | 12,873 06           | 5,215 69               | 743 21              | 22 50     | .....                 | .....         | 765 71    | 5,981 40                | .....   |
| Pacific Cable Board.....                                 | 179,381 76     | 118,967 44          | 60,414 32              | .....               | .....     | .....                 | .....         | .....     | 60,414 32               | .....   |
| Temiskaming and Northern Ontario Railway Commission..... | 29,460 36      | 9,987 20            | 19,473 16              | .....               | .....     | .....                 | .....         | .....     | 19,473 16               | .....   |
| Western Union Telegraph Co.....                          | 773,067 20     | 518,873 83          | 254,193 37             | .....               | .....     | .....                 | .....         | .....     | 254,193 37              | .....   |
| Totals.....  | 6,057,127 81   | 3,518,203 64        | 2,538,924 17           | 743 21              | 11,003 44 | .....                 | 5,638 66      | 17,385 31 | 2,556,309 48            | .....   |

TABLE 4.—Income Account (*Concluded*).

| Name of<br>Telegraph Company.                      | DEDUCTIONS. |                       |                      |                      | NET CORPORATE<br>INCOME. |             | DISPOSAL OF NET CORPORATE INCOME. |                     |                  |            |              | BALANCE TO<br>PROFIT AND LOSS. |     |
|--|-------------|-----------------------|----------------------|----------------------|--------------------------|-------------|-----------------------------------|---------------------|------------------|------------|--------------|--------------------------------|-----|
|  | Taxes.      | Interest<br>on Bonds. | Other<br>Deductions. | Total<br>Deductions. | Income.                  | Loss.       | Dividends.                        |                     | Sinking<br>Fund. | Reserve.   | Total.       | Cr.                            | Dr. |
|  |             |                       |                      |                      |                          |             | Common<br>Stock.                  | Preferred<br>Stock. |                  |            |              |                                |     |
| Canadian Pacific Ry.<br>Co.                        |             |                       |                      |                      | 1,409,658 61             |             |                                   |                     |                  |            |              | 1,409,658 61                   |     |
| Grand Trunk Pacific<br>Telegraph Co.               |             |                       |                      |                      | 10,254 71                |             |                                   |                     |                  |            |              | 10,254 71                      |     |
| Great North Western<br>Telegraph Co. of<br>Canada. | 20,441 52   | *130,000 00           | †119,451 44          | 269,892 96           | 380,488 12               | ‡211,914 00 |                                   |                     | 18,015 20        | 229,929 20 | 150,558 92   |                                |     |
| Halifax and Bermudas<br>Cable Co., Ltd.            |             |                       |                      |                      | 75,865 00                |             | 15,000 00                         |                     |                  |            | 15,000 00    | 60,865 00                      |     |
| Marconi Wireless Tel.<br>Co. of Canada.            |             |                       |                      |                      | 70,087 83                |             |                                   |                     |                  |            |              | 70,087 83                      |     |
| North American Tele-<br>graph Co.                  | 887 51      |                       | 3,000 00             | 3,887 51             | 2,093 89                 |             |                                   |                     |                  |            |              | 2,093 89                       |     |
| Pacific Cable Board.                               |             |                       |                      |                      | 60,414 32                |             |                                   |                     |                  |            |              | 60,414 32                      |     |
| Temiskaming and<br>Northern Ontario<br>Ry. Com.    |             |                       |                      |                      | 19,473 16                |             |                                   |                     |                  |            |              | 19,473 16                      |     |
| Western Union Tele-<br>graph Co.                   |             |                       |                      |                      | 254,193 37               |             |                                   |                     |                  |            |              | 254,193 37                     |     |
| Totals.  | 21,329 03   | 130,000 00            | 122,451 44           | 273,780 47           | 2,282,529 01             |             | 226,914 00                        |                     | 18,015 20        | 244,929 20 | 2,037,599 81 |                                |     |

\*Bonds of Canadian Northern Telegraph Co.

†\$107,789.03 proportion of profits of Can. Northern Tel. Co.

‡Rental of leased lines.

TABLE 5.—Pole Mileage and Wire Mileage by Classes.

| Name of Company.                                 | Address.           | POLE MILEAGE.              |                                       | Galvanized. | WIRE MILEAGE. |                   |            | Multiple. |  |  |
|--|--------------------|----------------------------|---------------------------------------|-------------|---------------|-------------------|------------|-----------|--|--|
|  |                    | Operated<br>by<br>Company. | Operated<br>by<br>Another<br>Company. |             | Copper Wire.  |                   |            |           |  |  |
|  |                    |                            |                                       |             | Overhead.     | Under-<br>ground. | Submarine. |           |  |  |
|  |                    | Miles.                     | Miles.                                | Miles.      | Miles.        | Miles.            | Miles.     | Miles.    |  |  |
| Canadian Pacific Railway Co.....                 | Montreal.....      | 14,137·00                  |                                       | 46,013·00   | 17,644·00     | 512·00            | 114·00     | 37,046·00 |  |  |
| Dominion Government Telegraph Service.....       | Ottawa.....        | 10,699·25                  |                                       | 11,115·50   | 346·00        |                   | 361·25     |           |  |  |
| Grand Trunk Pacific Telegraph Co.....            | Montreal.....      | 5,190·75                   |                                       | 12,589·00   | 7,208·00      | 25·00             | 1·50       |           |  |  |
| Great North Western Telegraph Co. of Canada..... | Toronto.....       | 15,692·60                  | 75·00                                 | 46,141·90   | 2,728·80      | 372·70            | 103·00     | 3,790·00  |  |  |
| North American Telegraph Co.....                 | Kingston, Ont..... | 44·00                      |                                       | 664·00      |               |                   |            |           |  |  |
| Temiskaming and Northern Ontario Ry. Com.....    | Toronto.....       | 330·00                     |                                       | 1,670·00    |               |                   |            |           |  |  |
| Western Union Telegraph Co.....                  | New York.....      | 3,082·89                   |                                       | 18,106·07   |               |                   |            |           |  |  |
| Totals.....                                      |                    | 49,176·49                  | 75·00                                 | 136,299·47  | 27,926·80     | 909·70            | 579·75     | 40,836·00 |  |  |

TABLE 6.—Messages, Employees, Remuneration, etc.

| Name of Company.                                    | Address.           | Number<br>of<br>Land<br>Messages. | Number<br>of<br>Cable-<br>grams. | Number of Operators. |         | Number<br>Other<br>Officers<br>and<br>Employees. | Salaries<br>and<br>Wages. | Amount<br>of<br>Financial<br>Paper<br>Handled. |
|---|--------------------|-----------------------------------|----------------------------------|----------------------|---------|--|---------------------------|--|
|   |                    |                                   |                                  | Male.                | Female. |  |                           |  |
| Canadian Pacific Railway Co.                        | Montreal.....      | 4,148,202                         | 292,721                          | 445                  | 121     | 1,068  | 1,087,687 28              | 497,853 74                                     |
| Dominion Government Telegraph Service               | Ottawa.....        | 371,833                           | .....                            | 795                  | 137     | 172  | 400,479 86                | .....  |
| Grand Trunk Pacific Telegraph Co.                   | Montreal.....      | 218,600                           | .....                            | 310                  | 5       | 53   | 45,907 74                 | .....  |
| Great North Western Telegraph Co. of Canada         | Toronto.....       | 5,167,052                         | 413,903                          | 1,921                | 152     | 541  | 725,145 36                | 61,506 71                                      |
| Halifax and Bermudas Cable Co., Ltd.                | London, Eng.....   | .....                             | .....                            | .....                | .....   | .....  | 18,358 00                 | .....  |
| Marconi Wireless Telegraph Co. of Canada            | Montreal.....      | 56,583                            | 161,382                          | 163                  | .....   | 101  | 141,664 43                | .....  |
| North American Telegraph Co.                        | Kingston, Ont..... | 93,884                            | 5,150                            | 38                   | 16      | 3  | 3,272 46                  | .....  |
| Pacific Cable Board                                 | London, Eng.....   | .....                             | .....                            | 50                   | .....   | 8  | 88,057 67                 | .....  |
| Temiskaming and Northern Ontario Railway Commission | Toronto.....       | 132,331                           | 578                              | 3                    | 1       | 4  | 3,779 00                  | .....  |
| Western Union Telegraph Co.                         | New York.....      | 647,445                           | 261,161                          | 210                  | 47      | 217  | 283,878 03                | .....  |
| Totals.....   | .....              | 10,835,936                        | 1,134,905                        | 3,935                | 479     | 2,167  | 2,898,229 83              | 559,360 45                                     |

TABLE 7.—Pole Mileage by Provinces.

| Name of Company.   | Nova Scotia. | New Brunswick. | Prince Edward Island. | Quebec.  | Ontario.  | Manitoba. | Saskatchewan. | Alberta. | British Columbia. | Yukon.. |
|--|--------------|----------------|-----------------------|----------|-----------|-----------|---------------|----------|-------------------|---------|
|  | Miles.       | Miles.         | Miles.                | Miles.   | Miles.    | Miles.    | Miles.        | Miles.   | Miles.            | Miles.  |
| Canadian Pacific Railway Co.....                         | 558·00       | 476·00         | .....                 | 1,246·00 | 3,978·00  | 1,650·00  | 2,775·00      | 1,711·00 | 1,743·00          | .....   |
| Dominion Government Telegraph Service.....               | 847·00       | 91·75          | *14·00                | 2,154·25 | 28·50     | .....     | 982·50        | 1,433·00 | 4,438·25          | 710·00  |
| Grand Trunk Pacific Telegraph Co.....                    | 255·00       | .....          | .....                 | 784·50   | 1,337·00  | 300·50    | 1,107·00      | 689·00   | 717·75            | .....   |
| Great North Western Telegraph Co. of Canada.....         | 455·00       | .....          | .....                 | 3,398·00 | 6,345·40  | 2,173·90  | 2,117·10      | 1,182·20 | 96·00             | .....   |
| North American Telegraph Co.....                         | .....        | .....          | .....                 | .....    | 44·00     | .....     | .....         | .....    | .....             | .....   |
| Temiskaming and Northern Ontario Railway Commission..... | .....        | .....          | .....                 | .....    | 330·00    | .....     | .....         | .....    | .....             | .....   |
| Western Union Telegraph Co.....                          | 1,557·40     | 992·00         | 270·00                | 48·00    | 98·50     | .....     | .....         | .....    | 116·99            | .....   |
| Totals.....  | 2,962·40     | 2,269·75       | 284·00                | 7,630·75 | 12,161·40 | 4,124·40  | 6,981·60      | 5,015·20 | 7,111·99          | 710·00  |

\* In Newfoundland.

TABLE 8.—Wire Mileage by Provinces.

| Name of Company.   | Nova Scotia. | New Brunswick. | Prince Edward Island. | Quebec.   | Ontario.  | Manitoba. | Saskatchewan. | Alberta.  | British Columbia. | Yukon. |
|--|--------------|----------------|-----------------------|-----------|-----------|-----------|---------------|-----------|-------------------|--------|
|  | Miles.       | Miles.         | Miles.                | Miles.    | Miles.    | Miles.    | Miles.        | Miles.    | Miles.            | Miles. |
| Canadian Pacific Railway Co.....                         | 2,607.00     | 2,916.00       | .....                 | 9,362.00  | 35,411.00 | 10,157.00 | 15,004.00     | 14,322.00 | 11,550.00         | .....  |
| Dominion Government Telegraph Service.....               | 993.50       | 125.25         | *14.00                | 2,407.50  | 45.75     | .....     | 1,069.50      | 1,449.50  | 5,007.75          | 710.00 |
| Grand Trunk Pacific Telegraph Co.....                    |              | 517.00         | .....                 | 1,584.00  | 3,833.00  | 1,808.00  | 3,932.00      | 3,818.50  | 4,331.00          | .....  |
| Great North Western Telegraph Co. of Canada.....         |              | 456.00         | .....                 | 10,695.00 | 23,684.10 | †8,617.00 | 6,176.80      | 3,315.50  | 192.00            | .....  |
| North American Telegraph Co.....                         |              |                | .....                 |           | 664.00    | .....     | .....         | .....     | .....             | .....  |
| Temiskaming and Northern Ontario Railway Commission..... |              |                | .....                 |           | 1,670.00  | .....     | .....         | .....     | .....             | .....  |
| Western Union Telegraph Co.....                          | 7,718.29     | 5,474.06       | 433.89                | 48.00     | 3,858.20  | .....     | .....         | .....     | 573.63            | .....  |
| Totals.....  | 11,318.79    | 9,488.31       | 447.89                | 24,096.50 | 69,166.05 | 20,582.00 | 26,182.30     | 22,995.50 | 21,654.38         | 710.00 |

\* In Newfoundland.

† 596.80 miles in State of Minnesota.

TABLE 9.—Number of Offices by Provinces.

| Name of Telegraph Company.                               | Nova Scotia. | New Brunswick. | Prince Edward Island. | Quebec. | Ontario. | Manitoba. | Saskatchewan. | Alberta. | British Columbia | Yukon. | Total. |
|--|--------------|----------------|-----------------------|---------|----------|-----------|---------------|----------|------------------|--------|--------|
| Canadian Pacific Railway Co.....                         | 28           | 18             | .....                 | 229     | 526      | 112       | 282           | 168      | 137              | .....  | 1,500  |
| Dominion Government Telegraph Service....                | 187          | 34             | *2                    | 190     | 9        | .....     | 43            | 60       | 500              | 17     | 992    |
| Grand Trunk Pacific Telegraph Co.....                    | .....        | .....          | .....                 | .....   | 40       | 11        | 59            | 32       | 14               | .....  | 156    |
| Great North Western Telegraph Co. of Canada.....         | .....        | 39             | .....                 | 411     | 555      | 119       | 161           | 55       | 16               | .....  | †1,393 |
| Halifax and Bermudas Cable Co.....                       | 1            | .....          | .....                 | .....   | .....    | .....     | .....         | .....    | .....            | .....  | 1      |
| North American Telegraph Co.....                         | .....        | .....          | .....                 | .....   | 44       | .....     | .....         | .....    | .....            | .....  | 44     |
| Marconi Wireless Telegraph Co.....                       | 6            | 2              | 1                     | 11      | 8        | .....     | .....         | .....    | 1                | .....  | 29     |
| Pacific Cable Board.....                                 | .....        | .....          | .....                 | 1       | 1        | .....     | .....         | 1        | 2                | .....  | 5      |
| Temiskaming and Northern Ontario Railway Commission..... | .....        | .....          | .....                 | .....   | 26       | .....     | .....         | .....    | .....            | .....  | 26     |
| Western Union Telegraph Co.....                          | 134          | 63             | 27                    | 5       | .....    | .....     | .....         | .....    | 12               | .....  | 241    |
| Totals.....  | 306          | 156            | 30                    | 847     | 1,209    | 242       | 545           | 316      | 682              | 17     | 4,387  |

\*In Newfoundland.

†Includes 37 offices in United States.

TABLE 10.—Physical Equipment.

| Name of Company.                                    | CELLS<br>OF GRAVITY<br>BATTERY. |        | CELLS<br>OF STORAGE<br>BATTERY. |                         | MOTOR GENERATORS,<br>GENERATOR SIDE. |              |                         |               |                         |       | Single<br>Instru-<br>ments. | Single<br>Re-<br>peaters. | Duplex. | Quad-<br>ruplex. | Circuits<br>of<br>Printing<br>Tele-<br>graphs. |
|---|---------------------------------|--------|---------------------------------|-------------------------|--------------------------------------|--------------|-------------------------|---------------|-------------------------|-------|-----------------------------|---------------------------|---------|------------------|--|
|   | Main.                           | Local. | 20<br>Amperc<br>Hours.          | 160<br>Amperc<br>Hours. | 8<br>Volts.                          | 25<br>Volts. | 100<br>to 135<br>Volts. | 200<br>Volts. | 350<br>to 400<br>Volts. |       |                             |                           |         |                  |  |
|   |                                 |        |                                 |                         |                                      |              |                         |               |                         |       |                             |                           |         |                  |  |
| Canadian Pacific Railway Co.                        | 12,180                          | 3,380  | 3,520                           | 104                     | 16                                   | 9            | 13                      | 19            | 16                      | 3,720 | 68                          | 129                       | 58      | 4                |  |
| Dominion Government Telegraph Service               | 4,500                           | 2,000  |                                 |                         |                                      |              |                         |               |                         | 900   | 5                           |                           |         |                  |  |
| Grand Trunk Pacific Telegraph Co.                   | 3,740                           | 739    |                                 |                         |                                      |              |                         |               |                         | 505   | 7                           |                           |         |                  |  |
| Great North Western Telegraph Co. of Canada         | 3,108                           | 1,539  | 881                             | 18                      | 5                                    | 15           | 12                      | 24            | 4                       | 1,740 | 54                          | 45                        | 23      | 13               |  |
| North American Telegraph Co.                        |                                 | 50     | 121                             |                         |                                      |              |                         |               |                         | 67    |                             |                           |         |                  |  |
| Temiskaming and Northern Ontario Railway Commission |                                 | 300    | 98                              |                         |                                      |              |                         |               |                         | 82    |                             |                           |         |                  |  |
| Western Union Telegraph Co.                         |                                 |        |                                 |                         |                                      |              |                         |               |                         |       |                             |                           |         |                  |  |
| Totals  |                                 | 23,878 | 7,877                           | 4,401                   | 122                                  | 21           | 24                      | 25            | 43                      | 20    | 7,014                       | 134                       | 174     | 81               | 17   |

\*Sets (key, relay and sounder).

†Including apparatus at both ends.

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