Additional Cars for Montreal Tramways Company.

As stated in Canadian Railway and Marine World for April, the Montreal Tramways Co. has ordered 100 cars to be built in the United States to be operated in pairs, the first car in each pair to be equipped with four motors, and the trailer car to be equipped with two motors. The value of the new equipment is placed at \$1,250,000, and delivery is ex-pected to commence in June. Following are the chief details:

| Weight, total | Motor, 43,800 lb. |
|-----------------------|--|
| | Trailer, 36,740 lb. |
| Capacity | Trailer, 45 |
| Bolster centres | Motor 21 ft |
| Bolster centres | Trailor 21 ft |
| Length over bumpers | Motor 45 ft 3 in |
| Length over bumpers | Trailer, 44 ft. 3 in. |
| Length over vestibule | Motor 44 ft. 3 in. |
| Length over vestibule | Trailer, 43 ft. 3 in. |
| Width over all | 8 ft. 5 in. |
| Rail to trolley base | 11 ft. 41/2 in. |
| Body | Steel with wood posts. |
| Interior trim | Cherry. |
| Headlining | Agasote. |
| Roof | Arch. |
| Air brakes | Westinghouse. |
| Fare boxes | Coleman stationary. |
| Heaters | Consolidated car. |
| Lightning arresters | Westinghouse. |
| MotorsWestinghouse | 533-T-4, motor cars, 4; |
| ControlWest | ailers, 2; outside hung. |
| ControlWesti | inghouse P.K. multiple. |
| Couplers | Tomlinson. |
| Designation signs | |
| Seating upholstery | |
| Trolley retrievers | |
| Trucks, type | ······································ |

Wheels Standard cast iron, 30 in. The cars will also be equipped with fen-The cars will also be equipped with Ien-ders, hand brakes, sanders, heat regula-tors, etc., and the door signal will be in-terlocked with the control circuit. The lighting will be by 94 watt lamps with reflectors and automatic compensating

device for burned out lamps. In a recent interview, J. E. Hutcheson, General Manager, stated that the coup-ling up of single car units into two-car trains is the most effective way to relieve traffic congestion. The factors controlling the transportation of passengers by cars are: speed between stops, number of stops, interference of vehicular and pedestrian traffic, delays at street intersec-tions, time for loading, spacing between car units. The greatest time saving is effected by the use of two-car trains, in the last three mentioned factors. There is no more delay at intersections, two cars can be loaded as quickly as one, and the free headway is doubled, enabling every motorman to move more quickly between stops. The total power of motors per train is 330 h.p., but 600 h.p. can safely be developed for short periods, and 400 h.p. is necessary to operate on the heavier cross town grades. The air brakes are so designed as to provide a high degree of safety, and so that they can be applied to all the wheels of both cars by either conductor or motorman. In case of the accidental separation of the cars, the brakes are automatically applied. The Westinghouse type P.K. control has the advantage of removing from car platforms all heavy current carrying parts, éliminating controller burnouts and circuit breaker flashes, and giving increased space on the platform by the use of a small master controller, and inci-dentally reducing the weight of the plat-forms, less car wiring, greater ease for the motorman properly to manipulate the small master controller, thereby avoid-ing abuse of the motors, greater ease of ing abuse of the motors, greater ease of application of automatic emergency features on master controllers, etc. The control is especially adapted to meet the requirements of service in congested dis-The doors are interlocked with tricts.

the power system, so that the car cannot be started until all doors are closed. All automatic features on the cars are operated from storage batteries so that their normal operation continues if the power is off, or the trolley leaves the wire. The electric heaters are controlled by a thermostat, and an automatic switch is installed to maintain an even heating in the cars

In addition to the 25 double equipments of type 533 40 h.p. motors equipped with the P.K. control, required for the fore-mentioned cars, the company has ordered 25 P.K. control equipments for use with some motors supplied previously by the Canadian Westinghouse Co. Canadian Westinghouse Co.

Nipissing Central Railway Annual Report.

Following are extracts from the annual report of this railway for the year ended Oct. 31, 1916, issued by the Timiskaming and Northern Ontario Ry. Commission, which operates it for the Ontario Government.

| Assets. | |
|---------------------------------|--------------|
| Cost of road | \$306,338.12 |
| Cost of equipment | 74,290.98 |
| Townsite property, North Cobalt | 242,700.20 |
| Working assets | 45,383.53 |
| Deferred debit items | 2,064.13 |
| Value of franchise | 141,383.32 |

Y

\$812,160.28

| Lia Diffues. | |
|---------------------------------------|--------------|
| Capital stock | \$530,000.00 |
| Advance from T. & N.O.R. | 247,639,50 |
| Working liabilities | 33,101.35 |
| Deferred credit | 4.30 |
| | |
| Profit and loss balance | 1,415.13 |
| | \$812,160.28 |
| Transportation revenue | |
| | 1.460.61 |
| Non-transportation revenue | 1,400.01 |
| Total operating revenue | \$110,397.95 |
| Maintenance of way and | + |
| structures \$11,248.74 | |
| Maintenance of equipment. 4.998.11 | |
| | |
| Power 18,556.07 | |
| Conducting transportation. 28,821.55 | |
| Traffic 531.40 | |
| General and miscellaneous . 10,578.76 | |
| | |
| Total operating expenses | 74,734.63 |
| Net operating expenses | \$35,663.32 |
| Other income | 499.95 |
| | 100.00 |

 Total income
 \$36,163.27

 Deductions from income
 13,965.82
13,965,82

Net \$22,197.45

Compared with the year ended Oct. 31, 1915, transportation revenue increased \$3,478.85; and the other than transportation revenue increased \$208.48, while the expenditures increased \$183.17, giving a net increased revenue from operation of \$3,504.16. The "other income" increased \$3,304.16. The "other income" increased \$281.95, making a total increased income of \$3,786.11. The deductions from in-come, which represent rental paid for leased line, increased \$6,710.84. The "net result" shows \$27.19 less than the previous year. Out of profit and loss \$20,000 was paid to the T. and N. O. Ry. Commission.

| Traffic Statistics. | |
|---|-----------|
| Passenger car hours | 26,785 |
| Passenger car miles | 274.241 |
| Total passengers carried | 1.439.896 |
| Average daily receipts | \$297.64 |
| Average receipts per car hour-passenger | \$3,55 |
| Average receipts per car mile-passen- | |
| ger, cents | 0.34.7 |
| Earnings per passenger, cents | 0.061/2 |
| | 12 |

The Board of Railway Commissioners, on April 17, heard complaints of residents of Chambly and St. Hubert and other points complaining of the fares charged and the service given on the Montreal & Southern Counties Ry. The commission will make an investigation into the com-nany's acquirement and facilities for heard pany's equipment and facilities for handling traffic before making any order.

How Car Fares are Distributed in Winnipeg.

The accompanying diagram was used by the Winnipeg Electric Ry. recently, in one of a series of advertisements which it has been running in Winnipeg papers, with the following reading matter appended: "Take a look at the circle! It tells an



interesting story, for it represents 4c, or one white car ticket — the average amount paid by Winnipegers for a car ride. And, further, it tells graphically and truthfully just how we spend that 4c, in order that the people of Winnipeg may be served. The darkened portion is the amount of that 4c which the company earns as profit on its service." earns as profit on its service."

Electric Railway Finance, Meetings, Etc.

British Columbia Electric Ry. and allied companies:

8 mths. to 8 mths. to Feb. 1917 Feb.1916 Feb.28,'17 Feb.29,'17 3,839,642 565,388 Toronto Ry., Toronto & York Radial Ry. and allied companies:

| | Feb. 1917 | Fab 1016 | 2 mths. to Feb.28,'17 | Feb.23, |
|---------|-------------------|-----------|--------------------------|-------------|
| Gross | \$932,567 491.351 | \$846,256 | \$1,935,036 1.023,019 | \$1,752,832 |
| Net | 441,216 | | | 820,774 |
| Toronto | Rv.: | | | |

| | 1917 | City percentage | 1916 p | City ercentage |
|-----|-------------|--------------------|-------------|-------------------|
| Jan | \$510,053 | \$ 76,508 | \$473,784 | \$68,847 |
| Feb | 473,184 | 70,976 | 470,704 | 70,614 97,237 |
| Mar | 531,080 | 105,875 | 518,555 | |
| | \$1.514.317 | \$253,359 | \$1.463.043 | \$236,698 |

Winnipeg Electric Ry.:

| | | 107 182 | 2 mths. to Feb.28,'17 | 2 mths. 19 |
|------------|-----------|-----------|--------------------------|----------------------|
| | Feb. 1917 | Feb.1916 | Feb.28,'17 | Feb.29, 10 |
| Gross | \$280,717 | \$293,250 | \$600,662 | \$590,810 374,085 |
| Expenses . | 202,207 | 185,000 | | |
| Net | 78,510 | 108,250 | 167,032 | 210,1- |

The New Brunswick Power Co., owning the St. John Ry, informed the St. John, N.B., City Council, April 11, that it could not supply 8 workmen's tickets for 25c as requested by the council but that it was considering the propriety of abolish-ing the sale of 6 tickets for 25c in favor of a straight 5c fare, and of doing away with certain transfer points with certain transfer points.

Windsor, Essex & Lake Shore Rapid Ry. Fire.—A fire in the Kingsville, Ont., car barn, on April 25, badly damaged an electric locomotive and three passenger cars, among other things.