

The rolling stock of the St. John's Electric Ry. consists of 6 cars, 32 ft. long, equipped with Westinghouse "12a" 30 h.p., series-parallel, 38 controllers. Four of the cars are double-enders. Two sweepers are provided for the winter season. The track is narrow gauge, to be in keeping with the Newfoundland Ry., which has a gauge of 3½ ft. Five miles of 50-lb. T. rails have been laid & cars are running over them every day; also, 5,700 ft. of 83-lb. girder rails on the principal street, which at present is being paved. The trolley wire is no. 0 & suspended from poles on either side of the street. Rails are bonded in the usual way & cross-banded every 400 ft., no. 0 bonds used for 50-lb. rails & oo for 83-lb. A number of very steep grades are encountered, one short grade of 14%, and several of 7 & 8%. Two or three curves of 45-ft. radius are also met with. As can be imagined, the cars, motors & trucks have had a severe test, but notwithstanding that they have stood it admirably.

The city has a population of 35,000, of which the majority are interested in the fishing industry. Quite a lot of manufacturing is done, & as coal is very expensive there is a good demand for electric power.

C. H. Massy is Consulting Engineer, W. A. McKay is Superintendent & Electrical Engineer, & F. H. Wing is Electrical Engineer in charge of the generating station at Petty Harbor; while R. F. Markill is in charge of the sub-station.

#### Grain Received at Lake Huron Ports.

Collectors of Customs report the grain received by water at the following ports during 1900 as follows:—

	Bushels.
At Depot Harbor, from Chicago.....	11,010,643
"    "    Duluth.....	2,305,371
"    "    Fort William.....	76,313
Total.....	13,392,327
At Midland, from Chicago.....	4,742,147
"    "    Duluth.....	2,229,048
"    "    Milwaukee.....	1,460,606
"    "    Fort William.....	1,783,040
Total.....	10,214,841
At Sarnia, from Chicago.....	2,536,680
"    "    Duluth.....	997,204
"    "    Fort William.....	423,195
Total.....	3,957,079
At Goderich, from Chicago.....	604,025
"    "    Duluth.....	151,106
"    "    Fort William.....	911,199
Total.....	1,666,330
At Owen Sound, from Chicago.....	78,179
"    "    Duluth.....	97,000
"    "    Fort William.....	1,014,637
Total.....	1,189,816
At Collingwood, from Duluth.....	153,108
"    "    Fort William.....	297,674
Total.....	450,782

#### Liverpool Marine Electric Railway.

There has recently been installed in Liverpool, N.S., an electric marine railway of quite a novel character. The equipment consists of a 30 h.p. induction motor, the motor shaft being geared to a heavy worm shaft & wheel; the worm wheel shaft carries a pinion wheel which gears into another large wheel, on the shaft of which is placed a large heavy sprocket wheel; over this sprocket wheel the heavy 2 in. chain meshes into heavy sprocket teeth. This chain hauls the vessel up on a cradle over a track projecting out into the River Mersey to a distance of 500 ft., on a grade of ½ in. to the foot. The track & cradle are built in a very solid & substantial manner, being constructed of heavy pine timbers. On Jan. 11 the first vessel was hauled up & lowered down again, all the apparatus & gear working in an entirely satisfactory manner.

Liverpool possessed the first marine rail-

way in the Maritime Provinces, the motive power used being horses. It formerly took from 4 to 5 hours to haul up a vessel, whereas the same work is now performed in 20 minutes. This railway is, without doubt, the first one in America, & probably the first one of its kind in the world to which electrical energy has been applied as the motive power.—Electrical News.

Rome will soon be connected with Paris by a telephone line. The work has been in progress for many months, & the Italian government has completed the installation of the wires on the Italian slope of the Alps. The French government is at work on the line on its side, & it is thought that communication between the two cities will be accomplished during the summer.

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Smoking Prohibited. No Admittance.  
Trespassers Prosecuted.

### NO ADMITTANCE

Size 10 x 2½ inches. Oblong, oval ends, white ground, blue letters, lined & tipped, hollowed:

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Luggage Room. Private.  
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Exit. Boarding House.  
Fire Escape. Private Board.  
Lavatory. Dressmaking.  
Ladies. Fresh to Day.  
Women. Teas Provided.  
Gentlemen. Please Shut the Gate.

Size 14 x 3 inches. Oblong, oval ends, white ground, blue letters, lined and tipped.

No Admittance.

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### PUSH PULL

Oval, size 2 x 3 inches, white ground, blue letters, tipped, hollowed, lettered **Push, Pull**, as above.

Oblong, square ends, size 3 x 1½ inches, white ground, blue letters, tipped, lettered **Push, Pull**, as above.

Perpendicular, square ends, size 12 x 3 inches, white ground, blue letters, lined & tipped, lettered perpendicularly, **Push, Pull**.

Oblong, square ends, size 12 x 3 inches, white ground, blue letters, lined and tipped, lettered horizontally, **Push, Pull**.

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