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1000

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Another matter that does not appear to be sufficiently dwelt upon in connection with railways, is the almost absolute safety of railway travel under present conditions. The old stage coaches of England killed 1 in 1,000 of their passengers. The railway companies of Canada kill only 1 in 1,000,000. This is nearly as safe as the position of United States generals in the Philippine war. But we kill a great many walking on the track. Ninety people lost their lives this way in Canada last year, & 40 more were killed in jumping or falling off the train whilst in motion. The railway companies can hardly be blamed for killing people of this description. If they have not sense enough to get off the track when the whistle blows, or to remain in their seats till the train stops, they are evidently out of place in this world of sin & misery, & may possibly be happier somewhere else.

We often hear a good deal about the excellencies of our Ontario system of education, & due credit is given to the memory of Dr. Ryerson & other distinguished gentlemen concerned in its development. But no credit is ever given to the railway companies for the revolution they have effected in the science of geography. In the old maps it was a laborious process to trace the way from one point to an-The surveyors seemed to have no other. idea of order or system, but put the towns & villages promiscuously all over the map in a most disorderly & irregular manner. But all this has been changed by the railway companies, & now we have the towns & cities in a straight line " towns & cities in a straight line direct from every man's doorstep to wherever he may want to go. The value of this improvement can scarcely be over-estimated, & I think it is but fitting that at a meeting like this steps should be taken to have the services of our railway geographers properly recognized by the Minister of Education.

Railway Cattle Guards in Ontario.

At the instigation of the municipal council of North Dumfries, the various township councils in Ontario were invited to send delegates to a meeting which was held in Galt recently, the object as stated in the notice being "to consider the best means of forcing the railway companies to construct more effective cattle guards than the new kind recently devised and now being substituted for the old on nearly all the lines of railway." Twenty-four delegates were present. In the discussion nearly all the speakers condemned the cattle guards now in use, but did not suggest any-thing better, though some of them expressed a preference for the old pit guards. The most practical remarks were made by J. D. Moore, M.L.A., who said that before going before the Railway Committee of the Privy Council he advised that the deputation should acquaint themselves with all the facts, for the committee would be sure to be confronted with such questions as-in what particular are the present cattle guards ineffective? If they are ineffective, why did the railway com-panies, which usually move forward in improvements, change from the old style? Railway companies are generally careful about such matters, as one accident might cost them more than the cost of all their cattle guards. It was resolved, "that as it is clearly manifest from the expressed views of the delegates that the cattle guards now being

constructed by the railway companies are grossly inefficient & totally unfit for the purpose for which they are designed, freely admitting cattle to the railway tracks as well as constituting a grave source of danger to the travelling public, that a committee be appointed to convey the sentiments of the meeting to the Railway Committee of the Privy Council & urge the necessity for compelling the railway companies to ob-serve the Railway Act by building guards that will effectively safeguard the interests of the farmers & the travelling public."

The Railway Act 1888, sec. 194, &c., provides that when a municipal corporation for a township has been organized, & the whole or any portion of the township has been surveyed & divided into lots for settlement, fences shall be erected & maintained on each side of the railway with gates, &c., & cattle guards shall be provided at all railway crossings, suitable & sufficient to prevent cattle & other animals from gettling on the railway. In New Brunswick, Nova Scotia, & P. E. Island, wherever a county municipality has not been subdivided into local municipalities, each improved or occupied lot of land is to be protected by fences & cattle guards, &c. After such fences, gates & guards have been provided, & while they are duly maintained, no liability shall accrue for any damages, unless the same are caused wilfully or negligently by the company or its employes.

Section 271 of the same act provides that no horses, sheep, swine or other cattle shall be permitted to be at large upon any highway within $\frac{1}{2}$ a mile of its intersection by any railway at rail level, unless such cattle are in charge of some person to prevent their loitering or stopping on the highway at the intersection. If cattle at large contrary to the provisions of this section are killed or injured by any train at a crossing the owner shall not have any right of action against any company in respect of the cattle being killed or injured.

The pit cattle guards which were formerly almost entirely in use were a menace to the safety of every train, as in case of a wheel getting off the track & running into the pit a wreck would inevitably result. They are also objectionable from a sanitary standpoint, especially in and near towns & villages, owing to their holding stagnant water, dead animals, etc., etc.

The surface cattle guard now used by the G.T.R. is made of 14 inch dressed oak, 8 ft. long, set on edge & kept in position by $3\frac{3}{4}x3\frac{1}{4}$ ins. oak blocks. We are informed that it is of a pattern that has been generally adopted by the trunk lines in the U.S., after inspection & approval by various state boards of railway commissioners & that it is considered just as effective for turning cattle as the old pit guards, without the consequent danger to trains.

The standard cattle guard now in use on the C.P.R. lines east of Fort William is made of wooden slats, cut in triangular shape, from 6x6 inch timber, the slats being laid on their sides, paralled with the rails, and spiked to the ties about 2 ins. apart. The management is considering the use of a more effective wooden surface cattle guard, or the adoption of some metallic cattle guard.

The surface cattle guards now in use by the G.T.R., the C.P.R. & other lines in Ontario are undoubtedly quite sufficient to stop cattle etc., which may be driven over the crossings. Probably no guard is sufficient to prevent stray animals determined to walk the track from getting there. But these animals should not be at large & before asking the railways to provide more efficent guards the municipal councils should enforce the statutory law prohibiting animals from straying on the highways. Going to the Railway Committee of the Privy Council at this stage is starting at the wrong end.