### Reduction in Fire Losses

Practical Results Obtained in Fire Protection Service by Railways.

Commission was not organized until the month of June, the railway fire statistics for Canada for the season of 1912 are not complete. Figures are however, available for all except the spring fires of 1912. The entire season of 1913 was covered, but the reports for 1914 have not yet been received from the field.

To give a general view of the situation in western Canada in 1912 and 1913, the statistics of the Canadian Pacific Western Lines. Canadian Northern, Grand Trunk Pacific and Great Northern Railways have been combined. These four lines include practically all the railway mileage in western

Canada

The total number of fires reported ·as having started within 300 feet of the railway track was 196 in 1912, and 462 in 1913. Of these, in 1912, 160, or 82 per cent, were reported as having been started by trains while in 1913, 295 fires or 64 per cent of the total for that year were reported as having been due to that cause. While the total number of fires reported in 1913 was greater than in 1912. the area burnt over was less: the figure for 1912 was 25,008 acres and for 1913 only 2,360 acres. The total area burned in 1913 was thus only 9.4 per cent of the area burned in 1912 by fires originating within 300 feet of the railway track. The total value of property destroyed by such fires in 1912 was \$83,380 and in 1913. \$12,250. It will thus be seen that in 1913 the railway fire situation showed a great improvement over that of 1912. There was a material reduction in the percentage of fires caused by trains as well as in the total from allowing the liquid portion area burned and value of property to drain off, from leaching by rain, destroyed

While the figures of 1914 are tion not vet available, it is known in increasingly efficient organization of the railway companies on the one hand and of the Fire Inspection Department of the Railway Board on the other, in 'the' handling of this work .- C.L.

white pine is important: the pulpthing in regard to the question of snow. by fire must be stopped.

## Farm Losses

### MANITRES

The manure problem is a fun-As the Fire Inspection Depart-damental problem for the farmers shown that a very light applica, which is not profitable for its our ment of the Dominion Railway of today and tomorrow. One of tion of barnyard manure in the the most important lessons for spring after sowing, as a top them to learn is how to obtain good dressing on soils having a tendbarnyard manure; and then, to ency to blow gives excellent care for it and use it intelligently, results, not only preventing blow-

In many parts of Canada, the ing but giving increased

covered shed where the manure necessity of keeping fields free from can be stored, where it will be weeds. It may even be profitable packed by stock tramping on it, to grow a crop which, valued by and where it will be kept moist, itself and without relation to the If it is kept tramped and moist, farm operations as a whole and if the shed has a cement/floor, produced at an apparent loss there will be very little loss ?

manure is simply thrown away. from the added plant food. -F.C.N

Cut No. 81 Saucer-shaped bottom to barnyard of concrete, preventing loss of valuable liquid ma

In Ontario, 186 farmers out of 200 Larger Profits visited exercised no care to prevent waste, and in Ouebec conditions are nearly as bad. In other places, notably in the west, it is burned; Temporary Advantage only Gained by and, in places where the manure has accumulated the stables have been Farming. accumulated, the stables have been moved away, instead of making use of the manure. produced in the United States every ear is worth nearly \$2,500,000,000. In 1908, the value of the whole corn crop in the United States was only \$1,601,000,000. These figures show the enormous importance of manure production.

The greatest sources of loss are and from heating and fermenta-

farmers arrange their stables to currence. Don't do it. drain off the liquid. In this way from \$10 to \$15 worth why he does not vary his crops, do not carry their resources of fertility, per cow, can be lost he would probably answer that he cash on hand, but have the mone annually

should be spread on the field as it so long as it yields him the the insurance companies must pro-Tree planting in the west is im- made. It saves handling twice, maximum return. It may be true vide money to meet them, an portant; the renewing of the and there is a greater tonnage then that wheat yields a higher net to do this they must of nec safe than at any other time. This can return per acre than any other crop dispose of these securities. With wood question is important; many be done provided the land is not and yet this does not justify the the stock exchanges closed the other phases of the question are so hilly as to cause the manure to raising of wheat on every available is a very serious problem important, but the all-essential be carried away by rain or melting field. The effect of green manforests is to get the community ure will be seen for a longer time return per acre, enter into the pro-reduces the amount in their land wakened up to the idea that at than that of rotted manure on blem of the selection of crops. One for the accommodation of the any cost the destruction of forests account of the decomposition tak- must consider the effect of a crop mercantile community and many

The report of the Commission This means a great of Conservation's Agricultural Surannual loss. At the present price vey for 1913, specially emphasizes of plant food, the amount of manure the absence of a systematic rotation but there is vet room for a further of crops in every province. In reduction. Seasonal causes we some of the older districts of On- responsible for a large number tario, the rotation followed ap- the fires. Defective flues, sparks proaches more nearly to the ideal over-heated stoves, furnaces and than in any other portion of the stovepipes, together with defective Dominion, but, even there, the wiring, caused 16 fires out of area in hoe crops is not large enough total of 35 fires reported in nor are the rotations arranged Canada, amounting to \$10,00 systematically, so as to cover the or over. All these fires could have whole tillable area of the farm been avoided. It is the duty within a reasonable length of time. every person to give special atter In Manitoba, practically no clover tion to the prevention of fin The liquid is much more valuable and no hoe crops are grown. Canada needs all her resources for a general way that there has been in plant food per pound than the continued improvement in the solid. In cow manure the total commonly practised, yet the struction by fires requires the particles. railway fire situation, due to the liquid portion is about the same as continual cropping of wheat from ment of large sums by insurans the total solid portion. Yet many the same field is of too frequent oc- companies, but which must, in the

grows wheat because it pays better invested in interest-bearing secur Where possible, the manure and that he will continue to grow ties. In the event of heavy loss

ing place in the soil. If this can- upon soil fertility, the demands it facturers.

not be done, by all means have a makes upon farm labour, and the Experiments in the west have a by-product, i.e., as something sake, but which gives adequate returns when produced as a par of a larger enterprise.

For instance, by varying crops it is possible to distribute the year's work more evenly and that to reduce the cost of labour saving so effected should be credited to the apparently unprofitable crop. Or again, it pays to grow a cros at a loss when it exercises a bene ficial effect upon the soil as in raising mangels for the sake of the cultivation or clover to plough under to supply nitrogen for future crops. It pays to put good when land into pasture for two or thin years to kill weeds and to obtain the The same principle an manure. plies to live-stock as well as to crops. Hogs may not pay themselves but they may give handsome returns in conjunction with cows. The principle which the farmer must keep in mind s to so combine his various enter prises that he utilizes his land labour and working equipment to the best advantage and thus secures the largest net return from the farm as a whole.

# as Final Result Fires and Some Results

According to the reports to the Monetary Times, the fire losses for October in Canada were, approximately, \$772,115, as against \$1,383,572 for October, This shows a considerable decrease end be paid by the policy-holden If a western farmer were asked Again, the insurance compani overcome it, the banks have Other factors, besides the net advance the money, and this aga