Fire Loss from Lightning ^{- \$400,000} a year could be saved if Ontario's barns were all rodded A S a comprehensive conclusion from Ontario Department of Agricultures investigations we have found that, if all the buildings in rural Ontario were roded more than 95% of the annual damage to buildings by light-ning would be prevented. The method by which this conclusion was arrived at was as follows: In 1912, eighteen insurance companies in Ontario kept special records for us; from their reports we learned that out of every 7,000 medded buildings insured by them, 37 were struck by lighting, while in every 7,000 medded one only two were struck by lighting. The rods prevented damage in 35 case cut of an enable the efficiency of 94.7%, since that we have deter-ported by even bills 1914 and 1915. The results for the four-years are as follows: years are as follows: Efficiency of Rods Year. Year. 1912 94.7 92.0 1914 99.9 Average for four years 07.0

1. Barn protected against lightning.

July 4, 1918

To apply these figures: The report of

To apply these figures: The report of the Superior apply these figures report of the Superior the figures in the Superior and the superior apply of the superior apply of

\$400,000 Annual Fire Losses

In 1913 the insurance paid on lightning losses to buildings was \$305,104, which means a total s of \$400,000 or more. Ninety-two per cent, of this shows a saving of \$368,000 if the buildings had been rodded.

had been rodded. Similar computations might be made for the other years, if the lightning losses were at hand. Investigations along similar lines in lows have shown an efficiency of 98.7% for rods in that State, based on the report of 55 mutual companies each year for eight years. In Michigan the efficiency of lightning rods has been shown to be from 98% to 99%. In this State may companies keep their rodded and unrodded risks in two separate classes, and ascess each for its own losses. The reports of eight of these companies for the years 1913, 1914 and 1915 show that In unrodded class the average assessment per

\$1,000 risk 21 22

\$1,000 risk In rodded class, the average assessment per \$1,000 risk 2 28 The only possible cause for the difference is the reds

on the buildings.

Rods Even Better Than Insurance

These few facts, which are all matters of record in published reports, establish beyond question the con-clusion first gives, that if all buildings in rural Ontario were rodded, 55% of the annual lightning damage to build-ings would be eliminated.

For the individual, lightning rods are a better investment than insurance. When they say a building, the farmer's only loss is the interest on the price of his rods. Under insurance, case of fire, he loses at least one-third the value of his buildings, together with his premiuma. When they save

Kind of Rods

.Copper rods are the most durable and, therefore, the best, although any metal will do the work, as long as in proper condition. But iron rusts off at the ground, and aluminum alion cor-rodes under certain conditions. A rod composed of two metals, one wrapped around the other, is especially objectionable

How to Rod

All rods should be grounded 8 ft. deep. From the ground the cable should run up the corner

he cable aboutd run up the corner of the building, over the eave, up the edge of the roof to the peak, along the peak, down to the opposite eave and into the piaced every 20 or 25 feet along the peak, also on ehimneys, dormers, etc. On more complicated buildings more groundings theough the posite part of the second end of the second end of the second end parts of the second end of the second end of the end of the piaced every 20 or 25 feet along the peak, also on ehimneys, dormers, etc. On more complicated buildings more groundings should be made, and all parts of the second end of the second end of the end of the piaced every and the second end of the end of the end of the second end parts of the second end of the second end of the end of the subject of lightning rode, will be found in Builletin 220. It will be sent free on application.

application.

application. If there is any special information you would like to have on the sub-ject of lightning rods, or if you have any questions you would like an-swered, kindly send us full particulars and we will send you a prompt roply. Address the office of the Commissioner of Agriculture, Parliament Buildings, Toronto.



3. Making a grounding. The same cable as hanging down silo, sunk 8 feet in ground by drill. The square hole is only a foot deep, just enough to pour in a pail of water to soften the ground for the drill.



TARIO





2. Rodding a silo. Note the cable hang ing down side.

FARM AND DAIRY

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