THE FARMER'S ADVOCATE

oss from Lightnin RR 400,000 a year could be Ontario's barns were al 400,000 a PO000

S a comprehensive conclusion from Ontario Department of Agriculture investigations, we have found that if all the buildings in rural Ontario were rodded more than 95 per cent. of the annual damage to buildings by lightning 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 unrodded buildings insured by them, 37 were struck by lightning, while in every 7,000 rodded ones only 2 were struck by lightning. The rods prevented damage in 35 cases out of an expectancy of 37, showing an efficiency of 94.7%. Since that we have determined the efficiency for the years 1913, 1914 and 1915. Efficiency

1912

1913

1914

1915

Average for four years

The results for the four years are as follows Year



Rods Even Better Than Insurance

These few facts, which are all matters of record in published reports, establish beyond question the conclusion first given, that if all buildings in rural Ontario were redded 95% of the annual lightning damage to buildings would be eliminated.

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

Barn protected against lightning.

by lightning was \$262,282. No doubt the actual loss exceeded the insurance by perhaps one-third or one-half. If so, the actual loss was \$350,000 or over. 94.7% of this equals \$331,450, which represents the saving that would have been effected that

In 1913 the insurance paid on lightning losses to buildings was \$305,104, which means a total loss of \$400,000 or more. 92% of this shows a saving of \$368,000 if the buildings

Similar computations might be made for the other years if the lightning losses were at hand.

Investigation along similar lines in Iowa has shown

In Michigan the efficiency of lightning rods has been shown to be from 98% to 99%. In this State many companies keep their rodded and unrodded risks in two separate classes, and assess 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 In rodded class the average assessment per \$1,000 risk is

that in 1912 the insurance paid on losses caused year if all the buildings had been rodded.

\$400,000 Annual Fire Loss

had been rodded.

of Rods

94.7

92.0

99.8

99.9

97.2

To apply these figures: The report of

the Superintendent of Insurance shows

an efficiency of 98.7% for rods in that State, based on the report of 55 mutual companies each year for 8 years.



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

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

JULY 4, 1918

Rodding a Silo. Note the cable hanging down side assessment per \$1,000 risk is \$3.15. \$2.28. The only possible cause for the difference is the rods on the buildings.

