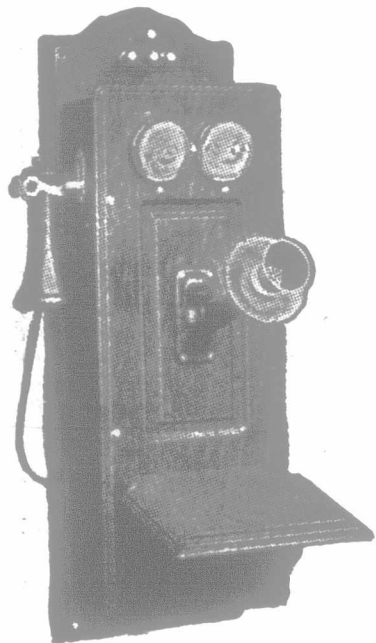


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Four years ago there were only about 75 independent telephone systems in Canada. To-day there are over 400, with a combined capital of \$2,500,000. That is your proof of the huge success of the Independent Telephone Movement.

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Make a start now by sending for our book "Canada and the Telephone." It contains some information of what has been and is being done.

QUESTIONS AND ANSWERS. Miscellaneous.

WEIGHT OF BUSHEL OF LIME.

1. What is the standard weight of a bushel of lime? Some tell me it is 80 lbs., and others say it is 70, or 72.

2. State also the number of feet in a stone wall under building 64x68 feet, and 9 feet high, no allowance being made for doors or windows. C. J. R.

Ans.—1. There is no official standard weight of a bushel of lime. Different weights are given in different sections of the country, but generally it is measured, not weighed. In London, 70 lbs. is given for a bushel.

2. One very important factor in calculating the cubical contents of wall is omitted, viz., the thickness of it. But, assuming that the wall is 18 inches thick, and of the other dimensions given, it would contain 2,483 cubic feet.

TANK CAPACITY — CALM OR WINDY FOR SPRAYING.

1. If a spray tank is 100 inches long, 35 inches wide at the top, and 25 inches deep over all, 8 inches from top to half-circle line, how many imperial or wine gallons will it hold?

2. If a stick, with marks four inches apart, was inserted from the top of the tank, how many gallons, imperial or wine, would each four inches contain?

3. Is it as satisfactory to spray on a calm day as on a windy day?

ONE INTERESTED.

Ans.—1 and 2. Enquire of the manufacturers.

3. A day of light wind is better for spraying than either a calm or very windy one. A calm day is favorable for spraying small trees, while for large trees, a wind is an advantage, in that the spray is carried farther through the trees.

METALLIC ROOF FOR LIGHTNING PROTECTION—CHERRY TREES UNFRUITFUL.

1. I have a barn roofed with metallic roofing. How could I fix it so as to act as lightning protection? Would it need wire attached to the roof, and run down to the ground?

2. I have a small cherry orchard of about eight trees. About half of them bear fruit nearly every year, and the other half blossom out same as the rest, but never have any cherries. They are all healthy young trees, well cultivated.

3. Should I spray these trees, and about what time? What is the best stuff to use?

4. When is the best time for pruning these trees?

5. About what kind of a spray should I get for this number of trees? L. B.

Ans.—1. Make a cable of galvanized wire at least half an inch thick. Have a length of 2 feet or more laid on the roof and descending down the wall and into the ground for five feet at each corner, and your building will be protected from lightning better than by any ordinary system of lightning rods.

2. You should have mentioned the variety, age, etc., of the trees.

3. Yes; see Spray Calendar.

4. Pruning to shape the cherry tree is much the same as for the apple, but after the tree becomes well shaped, the less pruning done the better.

5. A milk-cooler-can style of sprayer, which is carried under the arm, would answer, if equipped with an extension rod. A small pump mounted on a barrel or wheelbarrow, can be procured, which would be better.

TRADE TOPIC.

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