

**THE WATERDOWN REVIEW**

Issued Every Thursday morning from the office, Dundas Street, Waterdown

G. H. GREENE  
Editor and Publisher  
Member C. W. N. A.

THURSDAY, OCTOBER 13, 1921

**USING LIGHTNING RODS**

**Erroneous Opinions Corrected by Statements of Expert.**

**Why Buildings Should Be Rodded—When Metal Roofs Are Safe—Shelter of Trees Unsafe During Thunder Storms.**

(Contributed by Ontario Department of Agriculture, Toronto.)

The many direct questions concerning lightning rods or cables, methods of installing, etc., sent to the Department of Physics, O. A. C., Guelph, are often accompanied by statements of the views of those submitting these questions. The following list of corrected views, or impressions, will prove helpful to those who are at all interested in the protection of their property from lightning discharges.

E. denotes an erroneous view of statement.

C. denotes correct explanations or statements of facts.

E. Lightning rods attract the electric charge on the cloud and then allow the flash to travel down the system of lightning rods to the ground where it disappears.

C. The rodding system forms a connecting link between the charge on the cloud and the charge on the earth and structure protected. The charges on the cloud and on the earth are of opposite polarity, and the induced charge on the earth or structure is quietly neutralized by the rodding system including the ground rod, the cable, and the points on the ridge. The neutralizing of the charge takes place in the form of an almost silent discharge from the points placed on the ridge, or on prominences at various parts of the building. It is in this "preventing" the sudden flash from the cloud that the chief efficiency of the rodding system consists. The system helps to avoid destruction by fires even in cases where a flash cannot be prevented, but these flashes are almost unheard of to-day with the efficient rodding systems being installed by lightning rod dealers. "Rodding systems properly installed do protect."

E. Any kind of rodding "system" is satisfactory if the proper kind of rod or cable is used. It all depends on the rod.

C. Rather say any durable rod, copper over three ounces per foot, and iron 4 1/2 ounces per foot is good enough "if properly installed." Emphasis cannot be too strongly laid on the "method" of installations.

E. If the ground rod or cable is placed in the ground a distance of six feet, it is considered satisfactory.

C. Ground rods must be down to perpetual moisture, or (where this is impossible) special arrangements must be made to provide the best grounding, more ground rods being necessary and special advice must be sought as to the best method in each special case.

E. A building with metal roof is safe from electrical discharges.

C. A metal roof grounded at the corners, and with a "sharp" ridge-board or points, makes an excellent system for fire protective purposes. The chief metal parts in the building must, however, be connected to the main system as suggested in rodding specifications, Bulletin No. 229 of the Department of Agriculture for Ontario.

E. Even properly rodded buildings are sometimes struck.

C. Although the above is true, the chances of their being injured if struck, or struck at all, are so few that one is safe to challenge the statement as "misleading." When hundreds of thousands of dollars' worth of property is being destroyed annually in the Province of Ontario there are on record spaces of twelve months' duration where no single properly rodded building was burned, and practically none even injured.

E. The safest place in a thunder-storm is a sort of distance from a tall tree, but lightning is liable to strike anything, or anywhere.

C. Keep as far away as possible from trees. All things are not equally liable to be struck. There are no freaks in the case of lightning discharges. Some things are never struck, other things are almost invariably struck if a discharge takes place near them.

E. Our buildings are insured. Then why rod them at extra expense?

C. No one has any right to take a chance on destroying life and property even if the life of the individual or the property is insured. How

**Farm Bookkeeping**

Our three months' course on Farm Bookkeeping is purposely made for young men on the farm who cannot devote the time to one of our longer courses. It will cover Bookkeeping as planned for practical use—it is written by the Dean of one of the largest Agricultural Colleges on this continent.

Let us send you free literature pertaining to this course.

**Canada Business College**  
Hamilton, Ontario

R. E. Clemens Principal

**NOTICE OF APPLICATION FOR DIVORCE**

NOTICE IS HEREBY GIVEN that Mildred Emma Blackford, of the City of Hamilton, in the County of Wentworth, in the Province of Ontario, will apply to the Parliament of Canada at the next Session thereof for a Bill of Divorce from her husband, Albert Charles Blackford, of the City of Detroit, Michigan, in the United States of America, Editor, on the ground of adultery.

Dated at Hamilton, Province of Ontario, the 22nd day of August, 1921.  
SNIDER, MORGAN & WALSH,  
Solicitors for Applicant.  
ANDREW T. THOMPSON, K.C.,  
Ontario Agent.

**VOTERS' LIST, 1921**

MUNICIPALITY OF THE Township of East Flamboro

Notice is hereby given that I have translated or delivered to the persons mentioned in Sec. 3 of the Ontario Voters' List Act, the copies required by said section to be so translated or delivered of the list made pursuant to said act, of all persons appearing by the last revised Assessment Roll of the said municipality, to be entitled to vote in the said municipality at elections for members of the Legislative Assembly, and at Municipal elections; and that the said List was first posted up at my office at Waterdown, on the 30th day of September 1921, and remains there for inspection.

And I hereby call upon all voters to take immediate proceedings to have any errors or omissions corrected according to law.

L. J. MULLOCK,  
Clerk of Said Municipality.

**More Eggs**

Make Your Hens Lay By Feeding

**BEEF SCRAP**

60% Proteen

**Beef and Bone Scrap**

40% Proteen

**Parina Laying Mash**  
**Monarch Scratch Feed**

For Sale by

**H. A. Drummmond**  
Phone 141 Waterdown

about reduction of insurance premiums when buildings are rodded?

E. All rodding companies are trustworthy. Therefore buy the cheapest cable and installation.

C. All rodding companies in the country are not equally trustworthy even if honest and conscientious in their work. There is such a thing as lack of knowledge of the proper method of installation. Therefore deal only with those companies who know their business and guarantee good workmanship. The best is none too good when human lives are at stake.

Conclusion.—All valuable farm buildings, unless of steel structure throughout or entirely enclosed in metal, should be rodded or partly rodded, as the case may demand. Only the work of the most reputable firm should be considered "good enough." If in doubt seek advice from the Ontario Department.—W. C. Blackwood, O. A. Guelph, Guelph.

All vegetables should be harvested in the early morning and put in a cool place until desired for use. None eat places until desired for use. None eat places until desired for use.

**For Sale**

A Square Piano in good condition, \$50, and 1 Hotblast Stove, coal or wood, also a quantity of stove pipe at half price. Mrs. A. L. Henry, Mill street.

**Wanted**

To purchase a lot in Waterdown Apply at Review Office

**For Sale**

4 Young Fresh Milch Cows. Apply to J. B. Poole, R. R. No. 2, Dundas.

**For Sale**

About 4 acres of cabbage, cauliflower, turnips and beets, mostly stock feed, some waste, examine and make me an offer. F. W. Van Loven, Inksetter farm.

**For Sale**

Good Bed, springs and mattress Apply to Blake Binkley, Mill St Waterdown.

**For Sale**

Baby Carriage in A 1 condition Apply at Review Office.

**For Sale**

6 Young Pigs 10 weeks old. Apply to O. L. Miles, Waterdown

**Don't Wait For Weeks**

to get your watch back when you want it repaired, but have it done promptly and at much less cost by

**Nelson Zimmerman**

"The Fine Watch Specialist"

Opposite Post Office, Waterdown

**Harry Hamer**

PIANO TUNER

86 Kent St. Hamilton

Orders can be left at Review

**Syke's Bread**

For Sale At

**Dougherty's MEAT MARKET**

Try it and be convinced of the quality

**All Kinds**

**Of No. 1 Wood and Coal for Sale At Reasonable Prices**

**H. SLATER**

Waterdown Ontario

**C. W. DRUMMOND**

Agent for the

**Gray-Dort Motor Cars**

WATERDOWN, ONT.

**D. S. ATKINS**

District Agent for the

**Jewel Line of Stoves, Ranges, Furnaces and Scales**

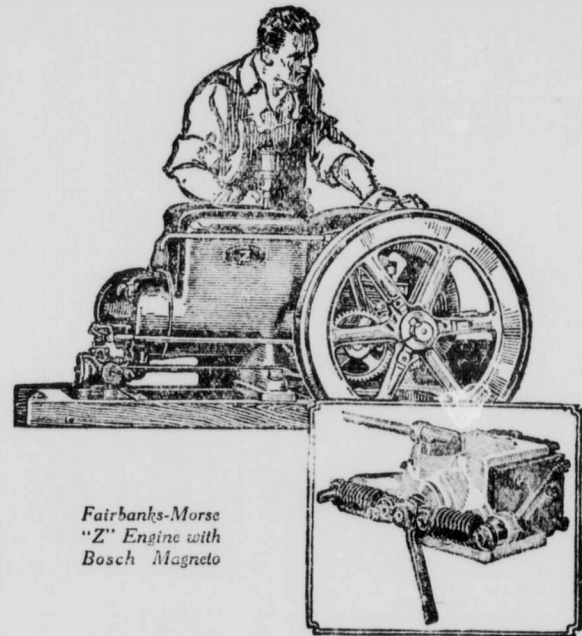
Will allow good price on your old stove Range or Furnace

Stoves Repaired and Set Up. Leave orders at Review Office

Over 20 Years Experience

Phone 171

Waterdown



Fairbanks-Morse "Z" Engine with Bosch Magneto

**The Greatest Combination**

WHEN the full meaning of this "Z" message is realized—mighty few farmers in this community will fail to at once call on us. This example of master engine-building—must be seen. Type and pictures can but suggest this value establishing achievement. This one possible betterment—Bosch high tension, oscillating magneto—completes a rare engine service, fully maintained by us in co-operation with a nearby Bosch service station

**W. W. Livingstone**

**Carlisle**