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The man whose home and barns are protected against damage by lightning by the DODD System of Lightning Protection enjoys absolute freedom from worry. He stands no possible chance of loss thru lightning.

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The dreaded season of disastrous storms is here. *Ask us today* what it will cost to put your property in the *"safe" class* by installing the DODD System.

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Yorkshires, Tamworths
Young Stock or Sale
For Breeding Purposes

Phone or write—GEO. W. ROSS
Osprey Tel. system Maxwell P. O

Boar for Service

The undersigned has a thoroughbred Yorkshire Boarfor service on lot 11, con. 8, Osprey. Terms $1.50.
FRED SPOFFARD

Boar For Service

Yorkshire Boar For Service—Lot 30, con. 4, Artemesia.
2 sn —WALLACE FISHER, Prop.

Bull For Service

Pure bred Durham bull, No 143013 for service on lot 162, S W T & S R, Artemesia. Terms—$2 for grades. $5 for thoroughbreds. —G. AKINS, Prop
m ay1

Boar For Service

Pure bred Yorkshire Boar for service on lot 37, con. 6, Artemesia. Terms $1.00. —JOHN HARGRAVE, Prop.

BUSINESSCARDS

SOCIETIES

PRINCE ARTHUR LODGE, No. 333, A.F.& A M, meets in the Masonic hall, Armstrong's Block Flesherton, every Friday on or before the full moon. Peter Muir, W. M R. G. Holland, Secretary.

DENTISTRY

Dr E. C MURRAY L. D. S, dental surgeon honor graduate of Toronto University and Royal College of Dental Surgeons of Ontario, Gas admisinistered for teeth eXtraction office at residence, Toronto Street, Flesherton.

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BUSINESS CARDS

W. KARTING, licensed Auctioneer for the counties of Grey and Simcoe. Farm and Stock sales a specialty. Terms moderate. satisfaction guaranteed. Arrangements for dates may be made at the Advance office, or Central telephone office Feversham or by addressing me at Feversham, Ont.

D. McPHAIL, Licensed Auctionee for the County of Grey. Terms moderate and satisfaction guaranteed. The arrangements and dates of sales can be made at THE ADVANCE office. Residence and P.O., Ceylon, Telephone connection.

DR. A. TURNBULL, B.A., M.B., graduate from the Faculty of Medicine, University of Toronto. Office—Richardson Block, Flesherton, Telephone 35.

HERE AND THERE

Dundalk is improving the race track at the fair ground with grader and tractor.

A number of Indians have been camping near Thornbury.

A number of farmers near Dundalk have been threshing from the stook.

A wagon struck a hydrant in Owen Sound, breaking it off below the ground. The street was flooded in no time.

Alex. Sim of Holstein fell off a bicycle on to a crosscut saw and cut his foot badly, severing an artery.

A small blaze in the roof of the Markdale creamery building was put out before much damage was done.

Markdale band will give their weekly street program on Wednesday instead of Thursday evenings as heretofore.

The farmers of Amaranth township want the hydro and are looking into the costs. They should take two looks and then some.

Bob Cook, a noted Orangeville man, was up before the Police Magistrate at Orangeville recently and fined $200 and costs for selling liquor. A Mulmur farmer is reported to have purchased the stuff that resulted in Robert being mulcted Chief Officer Ayerst of Toronto looked after the prosecution.

Frank Wansboro of Grand Valley had one of his legs broken by being trampled on by a steer. He and Robert Irvine were driving some cattle along the road when a steer got its horns tangled in a wire fence. In jumping around the animal knocked Frank down and broke his leg by trampling on it.

The editor of an exchange comes right out and flaunts his ignorance. He declares he can't help his son with his night work when the questions asked are like these: "If it takes a four months' old woodpecker with a rubber bill nine months and thirteen days to peck a hole through a cypress log that is large enough to make 117 shingles, and it takes 165 shingles to make a bundle worth 93 cents how long will it take a cross eyed grasshopper with a cork leg to kick all the seeds out of a dill pickle."

A tall, rather distinguished looking man, called on the Collingwood Enterprise on Saturday, says that paper, claiming his home town as Thornbury and announced that he is the only prophet since the time of Christ. He modestly asserted that he had predicted the great war and had also stopped the war. He had foreknowledge of the Japanese question and was now in constant communication with the Secretary of War of the United States. His visit to town was in connection with the shooting of Glory Whalen, which occurred a number of years ago. He has now definite information as to who committed the crime and will impart his information to the authorities at Toronto.

BOAR for SERVICE

Purebred Tamworth Boar for service on lot 167, S W T and S E, Artemesia. Terms—$1.50. Sows not returned will be charged same as those in pig.
Feb 15 —T. J. STINSON, Prop

For Service

One pure bred Shorthorn Bull on lot 36, con. 9, Artemesia. Terms $1.50 for grades. Must be paid within 9 months from date of service.
19.Jan.3 —R. O. TURNER.

Bull For Service

Pure bred Shorthorn Bull of the Village Family for service on lot 10, con. 10, Osprey. Terms $2.50 for grades, $5 for pure breds.
Jnly 15 —Mort. Sayers, Prop.

Cattle Came Astray

Came to my premises, lot 3, con 2, Euphrasia, on or about August 20, five young cattle. Owner describe property, pay expenses and take the same away.
—J. C. HUMBERSTONE
Sep13n Duncan P. O

Came Astray

Two year old heifer came to my premises about August 1st. Owner can have same by proving property and paying expenses. —W. PHILLIPS,
Lot 1, Con. 6, Artemesia
Flesherton P.O.

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HUGH KNOTT, Agent,
Markdale, Ont,

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R. J. COLQUETTE, Feversham, Ont.

FOR WINTERING BEES

Some Insulating Materials and Their Appreciation.

Cork Dust and Dried Forest Leaves Are Better Insulators Than Wood Shavings or Sawdust—Even Temperature In the Hive Important.

(Contributed by Ontario Department of Agriculture, Toronto.)

THE results of the relative non-conductivity of some beehive insulating materials are given below as the result of tests, 100 being the standard:

Very fine black regranulated cork (dust form), 100.

Chopped straw, 86.

Coarse black regranulated cork, 85.

Forest leaves (well dried), 84.

Granulated cork, light or natural color. This is the grade usually used as packing about imported Malaga grapes for instance, 84.

8-20 grade granulated cork (natural color). It looks similar to preceding one but it is a little coarser in grain and lighter in weight, 80.

Sawdust, very dry and from well seasoned and clean lumber, 68.

Excelsior—grade used in packing boxes, 60.

Planer shavings, 60.

The lesson of this table is that the fine black cork dust is the poorest conductor of heat or the best insulator so far as the resistance of the passage of heat is concerned, and planer shavings is the best conductor of heat, and therefore the poorest insulator of the nine substances tested. The fact should be emphasized that these results do not tell us anything about the substances except their power to conduct heat. It may be that if they were tried out as insulation for bee-hives we would arrange them differently than as given above. There are other properties besides conductivity of heat that figure in practice, and a consideration of these is my second purpose as announced at the beginning.

A good insulating material necessarily is a poor conductor of heat, but all non-conductors are not neecssarily good insulators in practice, or, at any rate, not always desirable or satisfactory. Next to non-conductivity is low mosture absorption or the ability to keep comparatively dry in moist weather conditions. Experts in beekeeping say that high moisture content in the hive is fatal to the bees since it causes dysentery among them. Let us assume that the air in a hive is very moist, say at a normal temperature, and the temperature goes down several degrees owing to inadequate protection or insulation about them, and see what happens. The result is exactly the same condition we all have often observed on the outside of a water jug filled with cold water and set in warm air. Moisture congeals on the outside of the jug, and it becomes cold and clammy and the water drips from it and makes everything else it touches wet. Likewise the dew is formed. The physical reason for these phenomena is the fact that cold air cannot hold in the invisible or vapor form as much moisture as warm air can..

Some of the moisture held at high temperature must appear as drops of water at the lower temperature, or in other words there is a rain, and a rain in a bee-hive is a serious matter, but it can be prevented by controlling the temperature inside the hive. Herein exists one of the most important uses of the insulation about the hive. Other reasons why an insulation should not absorb moisture are that moisture increases the conductivity of the insulation for heat and also makes it more liable to deterioration and decay. A good old maxim regarding success says, "Keep your powder dry." With equal emphasis it may be said: "Keep your insulation dry if you would protect your bees well and give them a fair chance to succeed."

Of the substances listed in the foregoing list granulated cork, forest leaves (if dried for one year ahead) and planer shavings are the poorest absorbers of moisture. Sawdust usually is too green and dirty to be very dry at the very best, and decay sets in rapidly, and chopped straw unless very well ripened and cured may be objectionable in the same way as sawdust. Then, too, rats and mice are apt to bother it seriously. The insulation must be odorless, else the bees may leave the hives. It must be readily available and reasonably cheap, and in these particulars forest leaves, chopped straw and planer shavings are foremost. It also should be easy and agreeable to handle and pack in position, and not subject to spontaneous combustion.

Thirdly, the main reason for insulating the hives, especially in the winter season under outside conditions, is to conserve the bees own warmth so that they can live comfortably and not have to eat an extraordinary amount of food in order to maintain a normal temperature. The bees get their warmth and energy from the food eaten, and it is the function of the hive and the extra insulation to keep this heat from being wasted in cold weather in the surrounding atmosphere. A second reason is to maintain an even temperature in the hive, and this pertains both to summer and winter, or to any season in fact. The insulation assists in preventing extremes of temperature in the hive as a large body of water does to the adjacent land areas. Another reason, and not the least because mentioned last, is that a good insulating around the hives provides a drier, and therefore a healthier and in all respects a better atmosphere for the bees than could be possible otherwise. Surely these are sufficiently good reasons why a hive should be protected by an efficient insulation. Flax chaff and a fine excelsior known as wood wool may also prove good insulations for bee-hives.—R. R. Graham, O. A. College, Guelph.

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Farm For Sale

Lot 7 and 8, con. 13, Osprey, consisting of 150 acres, 100 acres cleared, bal. hardwood and pasture. Good brick veneered 7 room dwelling with good cellar; good well, car house, hen house, good bank barn 50 x 52 on stone foundation, 1 acre orchard. For particulars apply to

—JOHN DAND,
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Property For Sale

Good property for sale in Eugenia, containing 19 acres. A good comfortable house with woodshed; good cellar and cistern; good pump in a drilled well handy to door; a good barn and straw shed on stone foundation, and good cement stables underneath, good land and well fenced. Apply to

James Walker, Eugenia.