## The Farmer's

The Benefits to be Derived From an Ice Supply-Ice House and Dairy Plans

One of the natural resources of Canada, and one which is of great benefit to humanity, is the annual ice crop. While in towns and cities, almost universal advantage is taken of the ice supply, such is not the case with farmers

A good supply of ice is more important in the country home than in the city home. People in the



city can purchase perishable food supplies as needed, while, in the country, it is often necessary to use canned, corned or smoked meat products during the summer, when the table should be supplied with fresh meats. Ice could be used to preserve meat, butter, and other perishable products for the table. The production of high grade dairy products on the farm is almost impossible without ice. Many markets require that, before shipment, the milk be cooled to a degree attainable only with ice. are many excellent and healthful dishes that may be prepared for the farm table if a supply of ice on the farm. Now is the time to termed waste current, or, in other were at hand

In many sections of the country, the luxury of an ice supply can be the year. had for the gathering; the cost of harvesting and storing is small. compared with the utility.

Farmers in the neighbourhood of summer resorts may, with considerable profit, undertake to supply ice to the residents during the summer months, or, when harvesting their own supplies, may fill private ice houses in the winter.

In selecting a stream or pond from which the supply is to be taken, care should be exercised to obtain ice free from contamas the ice melts, it will be left in amounts to \$2.50 for every man, the ice box, rendering it filthy woman and child in the country, and dangerous to health.

For the proper storing of ice vented by known means."

several points must be carefully considered. (1) Expose as small Heating by a surface as possible to the air or Ice Harvest a surface as possible to the air of to the packing material, that is, have the ice piled so as to form as nearly as possible, a cube; for Price Reduction and Storage Faciexample, a mass of ice 12x12x12 feet exposes less surface than the same tonnage piled so as to cover a larger area. (2) Good insulation ences such as heat and air. (3) There should be good drainage because the lack of it interferes with insulation. (4) The ice should be packed so as to prevent the circulation of air through the mass.

The more solid the mass of ice can be made, the better will it be Canada is far ahead of European preserved. An expensive struc- countries, and for this reason we ture is unnecessary for the pur- are not prosecuting research into advantage of this property. pose of storing the ice crop. accompanying illustrations show the construction of a simple ice by some of the countries of Europe house, as also a combination of ice house and refrigerator room, way of solving the house-warming These are very simple and may be problem, but before it can become erected by any farmer.

On many farms, there are places difficulties have to be overcome. in the buildings which could be used for storing ice. A silo which electrical energy used for heating has been emptied by February purposes might be used. Ice can usually be reduced. stored at a time of the year when duction it will be necessary

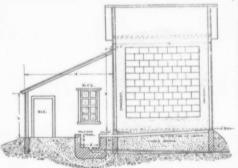
## Electricity

lities Necessary for its Economical Use

is necessary; that is, the ice should ... Heating of homes in Canada, on be protected from external influ-account of our severe winter cli-Heating of homes in Canada, on mate, is a matter for serious consideration. Little advance can be looked for at present in appliances for heating, as, with the fuel in use, the methods of converting it into heat are numerous and, on the whole. satisfactory. The the field of newer methods of heating with the same eagerness shown

Heating by electricity is one profitable in Canada, two important

In the first place the price of must be enormously To secure this price rethere is little other pressing work utilize what at present may be reduction in rates has evidently



and view of combined ice house and cairy. For ice house only the lean-to section and lower drain may be omitted.

prepare for laying in a supply of words, to use electrical energy at ice for use in the hot season of certain times during the day or

Full particulars regarding ice cold storage on the farm are contained in bulletin 207 of the Cnario Department of Agriculture, and may be had by applying for same to the Department at Toronto.-F.C.N

State, in his last annual clean-up proclamation, said. "It takes the wheat crop of the United States to pay for the fire waste of the ination or pollution, and free from country, as the net gain to the decaying vegetable matter. The nation barely offsets the average latter is very objectionable because, annual fire loss. The fire waste and 65 per cent of it can be pre- hours of 4 and 7 p.m., that both the and also a constant reminder of

night when it is not being used for other purposes which justify a higher price being paid for power, a bucket of water at the start of lighting, etc.

A further drawback to the profitable use of electrical heating is gained headway. Fire bucks the absence of a practical and satisfactory means of storing either heat or electrical energy to carry service over the time when Ex-Governor Glynn, of New York the electric current is being used on more profitable work.

In this connection it is of interest to note some of the initial their being kept full. To preven steps now in progress in certain European cities. At Stavanger, calcium chloride to the pail may Norway, with a population of 38,000, so much of the city's avail-purpose for all temperatures don't have been prepared to the pail may be used. This will suffice for the pair of the able electric power goes to waste to zero. If the buckets are painted or is unused, except between the red, they will be more conspicuo city and the prospective purchasers the danger of fire.

of electric energy for heating look forward to electric heating as as economical proposition. While this purpose has not been defindetermined, that propose is \$6.70 per h.p. per year

Considerable interest has also been aroused in Sweden by the results of experiments to olive electric heating at a reasonable cost. The ordinary heating system now used in that country sists of large tile stoves, built in almost every room and designed to burn wood. The heat-retain ing properties of these stoves is great that, although the wood burn out very quickly, the heat from single firing is retained from 12 15 hours. It is proposed to take means of portable electric-heating elements, inserted in the ordinar combustion chamber, which w produce during the night sufficient heat to last throughout the following day. In one localis the cost of electrical energy stated to be \$8.80 per h.p. per ve plus some minor charges: while in other localities the energy we for heating is as low as 2-3 cem per kilowatt-hour.

of

In these countries, a sufficient been made and they are now turning their attention toward convenient means of storage - L.S.D.

## Fire Protection

In autumn and early winter, fires are more frequent on the farm than at any other time of the year Much of the work in stables and barns is done by artificial light and, no matter how careful the owner may be, accidents will happen; or, hired help, regardless of consequences, may smoke some where on the sly, with the possible result of a fire. During October, according to the Monetary Tima reports, 23 homes and 21 stables

and barns were destroyed by fire No matter how adequate the fire-fighting appliances may be one of the first and most useful is a bucket of water at hand when wanted. A buckect of water a the right time and in the right place may save your barn or house Few farmers think of this. Bette fire than the resources of a ci fire department when the fire ha bottoms which, on account their shape, are inconvenient freneral use. These may be place general use. in a round hole cut in a shelf of They should be cover bench. and regularly inspected to assu freezing, two pounds of calcium chloride to the pail may

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