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CANADIAN CEREAL AND MILLING CO., LIMITED Toronto, Ontario

-Cheese Department

Makers are invited to send control.

Makers are invited to send control.

buttons to this department, to sak of questions on matters relating to the control of the control

Harvesting the New Ice Crop

By L. C. Corbett in U. S. Bulletin. In order to keep so perishable a commodity as ice it is necessary in the construction of a storage struc-ture to consider carefully those physical and mechanical principles which underlie its preservation. (1) To keep well, ice must have a minimum surface exposed to the air or to the packing material. This is most easily accomplished by piling the ice in the accomplished by piling the ree in the form of a cube. A mass of ice 12 by 12 feet exposes less surface than the same tonnage piled in any form less nearly that of a cube or of a globe. (2) The keeping of good ice depends upon the completeness of tion, whereby it is protected from external influences, such as heat and external influences, such as heat and air. (3) Drainage is important because the lack of it interferes with the insulation. (4) the ice itself must be packed so as to prevent as completely as possible the circulation of air through the mass. The more nearly the mass of ice approaches that

of a solid cube, both in shape and latexture, the easier, with good drainage and insulation, will be the keeping problem. The keeping of ice,
then, depends upon the shape of the
mass, its insulation, its drainage, and CLEARING THE ICE FIELD

If the ice field is covered with snow the formation of ice will be retarded, as the snow acts as a blanket and raises the temperature, thus retarding the ice formation. If the ice sheet is sufficiently thick and snow falls upon it, the snow must be re-moved before harvesting can proceed; or if, on the other hand, it is desiror if, on the other hand, it is desirable to increase the thickness of the ice after the snew falls, the field may be flooded and the snow saturated with water, which is allowed to freeze, with water, which is allowed to freeze, power.

Thosding a layer of anow ice.

Flooding of small fields may be accomplished in either of two ways: large areas until near the channel, (1) By "overflowing," which censists then barred ff and carried by hoistmerely in conducting water to the indied, or by piercing the ice field here small fields, where the quantity storand there with a bar or auger, to al- | ed is 50 tons or less, the cakes are cut

harvest is an extensive one and the harvest is an extensive one and the water is of considerable depth, after the field is plowed at right angles to the first plowing the ice may be barthe first plowing the ice may be par-red off in large masses or strips and floated to the shore or loading place, where it can easily be broken by an ice spud or bar inte cakes of the di-mensions outlined by the plow. The large of a play is not confined to large mensions outlined by the plow. The use of a plow is not confined to large fields or to ice that will bear the weight of a horse. In fact, ice fields on bedies of water too shallow to peron bedies of water too shallow to permit the use of a saw can be harvested by means of the plow by attaching to it a light wire cable or rope and operating it from the bank by horse

On fields where ice is stored com-



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Dr. William S. Myers Director Chilean Nitrate Propaganda 17 Madison Ave., New York No Branch Offices

New Zealand is steadily and surely enlarging its export trade in dairy produce. New Zealand cheese, a few years ago a negligible quantity on the British market. See the second of the

low the water to force itself to the or barred off, floated to the loading surface and gradually to saturate the platform, and placed upon it by hand

Snow may be removed from small fields, when necessary, by means of shovels, but upon large fields it will be economical to use horsepower scrapers. A simple plank scraper will

HARVESTING THIN AND THICK ICE Ice not over four inches thick and ice from six to 15 inches in thickness require very different methods of procedure. The thin ice in general will be broken into more or less regu-lar cakes, which will be loaded as best as they may into sleds or wagons and hauled to the shorehouse, where they may be arranged in layers and adjusted as closely as possible, the spaces between the cakes being filled with crushed ice or snow in such a manner as to cause the whole mass to freeze into as nearly a solid block of ice as possible. It is more difficult to store and keep ice of this character than

that harvested in regular cakes.

Harvesting ice from six to 15 or more inches in thickness permits the use of tools and implements that find no place in harvesting thin ice. field may be laid off so as to cut the cakes to standard dimensions of 22 by 22 inches or 22 by 32 inches. Oblong cakes have some advantages over square cnes, as they can be lapped so as to break joints as they are stored, thus reducing the possibility of the formation of air passages in the ice heap.

TO GET REGULAR CAKES

In order to obtain cakes square or in order to obtain cases square or rectangular in form a square made from light strips of beards with straight edges may be used. A square with sides 12 to 16 feet long will serve the purpose nicely. Draw a line across the ice field parallel with each side of the square and with a hand marker with a saw accurately follow this

platform, and placed upon it by hand or by horse power. The extent to which labor-saving devices may be introduced is measured by the cost of labor, the extent of the harvest, or the dispatch desired.

The Salary of the Maker C. W. Norval, Dundas Co., Ont.

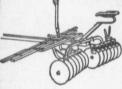
I am not habitually a knocker, but I would like to register one knock just the same. It concerns the salaries or cheese makers. I don't believe that a brainy young fellow can afford to be a cheese maker now-a-days. make more money in almost any owner line of work. As a result toc many of the boys now going into the business are of a distinctly inferior class.

Some of them spend a couple of years arcund a cheese factory without pay-ing any particular attention to the business business and then call themselves cheese makers. There are the fellows who are making cheese in our small factories, turning out a poor article that will do little to establish a good reputation for our cheese.

The same applies to the salaries of The same applies to the salaries of our dairy instructors. I don't complain myself as I have a syndicate in which the factories are in a comparatively small area and I can reach them all from my home without undue expense. Some of the other induces the salaries of the comparatively small area and I can reach them all from my home without undue expense. structors, however, in districts where structors, however, in districts where dairying is not a specialty, have to cover parts of three ccunties, travel-ling a great deal by train and their expenses must be tremendous. When we ask for an increase in pay we are told that there are lots of men to fill the nesitions. But

we are told that there are lots of mon to fill the positions. But are they the best men? The dairy instructors have a great big influence on the dairy industry and only the best men should be employed, and to got good men for the cheese factory and for the road the nice must be read. road the price must be paid.

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