1913

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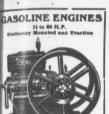
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July 31, 1913.

WINDMILLS

Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Mte. COOLD, SHAPLEY & MUIR CO., LTD.

FALL AND WINTER Milk or Cream WANTED

WANTED Tog have got to feed your cowe in the winter time whether they are milk-ing or not, so why not arrange to have most of them earning the high price most of them earning the high price of the second second second furthin cans for milk-way on the BH of each month-winter Contracts start November 1st. Make up your mind at once We are receiving appleations now.

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Regardia A, Wead A book prepared primarily for schools, but raduable to any one desiring to ob-tain a general knowledge of elementary agriculture. Table of contents following will serve to give some ideal of the atrangement, sope, completeness and general char-acter of the work.

er of the work.
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11. Classes of Soils
III. Water in the Soil
IV. Drainage
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FARM AND DAIRY

Creamery Department Butter makers are invited to send out the send of the send of the send out of the send

Production of Good Cream *

The dairy farmer who has provided himself with the requisites for the pro-duction of pure milk and who has in-telligently directed his efforts to that tenigently directed his efforts to that end will have taken the first step in the production of good cream. The second step is equally as important as the first and consists chiefly in the separation of the milk and in caring

separation of the milk and in caring for the cream. A sanitary milk house especially arranged for the handling of dairy products should be provided, to which the milk can be taken immediately after milking. This milk house or dairy should be equipped with a cream construct a cream cooler as dairy should be equipped with a cream separator, a cream cooler, a cream storage tank, hot and cold wa-ter or facilities for furnishing these, and various utensils necessary for a well equipped dairy. The separator as well as all other dairy utensils must be thoroughly cleaned each time it has been in use.

All apparatus should be sterilized af-ter each washing. This is best done by the use of steam but where this is not available use boiling water.

COOLING THE CREAM

COOLING THE GRAM Immediately after separation the cream should be cooled to a tempera-ture of 45 degrees F, if possible but if ice is not available fairly good re-sults may be obtained if the cream is cooled with cold well water to the lowest temperature possible under such circumstances, which is generally to within two degrees of the water. In the case of small dairies, a cream cooler is not absolutely necessary if

cooler is not absolutely necessary if other provisions for cooling the cream obtained by the use of a small water tank divided into two compartments. The first compartments. The first compartment, or that divi-sion of the tank into which the well water first enters, is used for the stor-ing of the cream and the second for ing of the cream and the second for the cooling. Arrangements should be made for the water to flow automatic-ally through overflow pipes from the first to the second compartment and then finally to the drain. On farms where water is pumped for the stock, the overflow from the cool-ing tank becault be discharged by the cool-ing tank becaute the cool-

ing tank should be discharged into a ing tank should be discharged into a tank or reservoir to which the shock has access, thus making the water serve two purposes, that of cooling the cream and supplying the animals. The depth of the water in the tank should be one inch less than the height of the cream containers.

FREQUENT DELIVERY

PERQUENT DELIVERY When the dairy farmer has done all the work necessary for the production of good cream it would be folly on his part to defeat his own efforts by keep-ing the cream until it becomes old part to defeat his own efforts by keep-ing the cream until it becomes old and stale. Cream is a perishable pro-duct, therefore, to obtain the best rev fresh. No one can make first class butter out of old, stale cream even though he be even so expert or has at his command the best evaluated of creameries. Hence frequent deliveries of the cream must be made. The dairy farmer should realize that much of the responsibility for the quality of our creamery butter rests upon him and that the losses on account of a poor product will finally, in most instances, fail upon him. It is, therefore, to his imme-diats solf-interest to produce a grade of cream from which first-class butter can be made.

can be made.

"A circular letter sent out by the United States Dairy Division.

Creamery Picnics

Now is the time to arrange for the creamery picnic, which in many places has become a regular annual event. Its main value to a creamery and a community lies in its promotion of a spirit of cooperation and good fellow-ship, hence in arranging for an affair of this kind it is well to have the idea of a picnic in mind rather than a farm-ers' institute.

There should be speakers to discuss There should be speakers to discuss dairy and creamers subjects, but they should be few in number and their addresses brief, unless they happen to be exceptionally good and entertain-ing speakers. A picnic in not a course of lectures, but an occasion for relaxa-tion, entertainment and pleasure. Hence, music, singing, basket dinner, games and the like are just as im-portant as the speech-making. As usual angeakers may be secured

As usual, speakers may be secured from the agricultural schools, the dairy and food departments, dairy-men's associations and like agencies at little or no expense, but it is necessary to decide on the date and ar range for speakers as early as possible as the supply of the latter is limited limited and the demand great at this time of the year. Don't forget that it is a of the year. Don't forget that it is a picnic and not a school house meeting you are arranging for, and be sure that it is well advertised, by hand bills and in the local papers, through-out the community. Without advertising the attendance will be disappointing.

A successful creamery picnic means a lot of work for those in charge, but as a stimulator of interest in dairying and the local creamery and a promotand the local creatmery and a promot-er of the right sort of feeling there is nothing to equal it. Managers and buttermakers who never have tried it should do so this year.—Dairy Record.

"Good Rich Milk"

C. F. Whitley, In Charge of Records, Ottawa.

The critical consumer of milk may The critical consumer of milk may give a snap verdict on the glass of "good rich milk" given him in the restaurant or at home, and may vaguely wonder what percentage of fat the milk is supposed to contain. Certain standards of richness are fix ed by various countries, and by muni-cipalities, while some purchasing com-panies and dealers also set a standard

below which the milk must not fall. The knowledge of the average test of the herd, interesting as it is, is not of the herd, interesting as the is, is not as valuable to the progressive dairy-man as a knowledge of what each cow's milk tests. Whether it is 2.9, 3.4, 4.5, or 5.6 per cent. of fat de-pends on various factors, and can output be ascertained after systematic only be ascertained after systematic sampling and testing. Such testing sometimes reveals curious facts. A pet cow whose "good rich milk" was reserved for table use was recently disarded by a farmer when cow-test-ing proved to his dismay that her milk was nearly the poorest in the head

herd The average test of the herd is a

vital matter to every dairyman whose milk is paid for at the cheese factory milk is paid for at the cheese factory by the test; it is of decided import-ance to both creamory manager and patron when considering the by-pro-duct of akim-milk for feeding, and the loaded wagon for the cream-hauler. For two loss each of 16.500 points for normal milk may contain either 500 or 900 pounds of fat; one lot is scarcely the best for cheesemaking, while the other would be "good rich milk."

True the cows are now on clean pas True the cows are now on clean pas-ture: but the necessity for precau-tions to maintain a clean milk supply are not less than in cold weather. For instance, all pails, cans, or brushes that are used in connection with the milk must be perfectly clean as bac-toria multiply rapidly in a warm tem-remented to the second se perature



The March of Mechanism

ONCE perfected, a mech-anical device inevitably overcomes every barrier against its use. The invention of the reaper swept away ten centuries of the scythe.

Mechanical progress is wift and certain.

Men have milked by hand since the dawn of husbandry. Yet in four years over 2,000 Sharples Milkers have been installed. This is prophecy of the new era in dairy science.

That such progress should be made in so short a time is largely due to the universal confidence of the dairymen in the Sharples product. For thirty-two years the name of Sharples has stood for correct principles and sturdy quality.

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