and the not peration applie.1 ffectualit tem neede l al with. ed" and needed. to keep uss has

ED 1866

for the ARRIERS can be e in the atin de-; betray er writhimself mateur.

p made and rub A scar es. The ne nitric otion, of n hand. ts risks, t. For ploved, peration : weeks proves 1 in the

navel is rend itreme-

rdinary

reliable y need

be so wind a l it, or n it, or e in a od has .d very which stopper wards, ng the escape usualrgeons is well of our ies but

for so doing. Special care should be might begin by getting their best pattaken to milk in a clean place and in as rons to adopt the best system of caring cleanly a manner as possible; for partion their cream and use these as a means cles of dirt which fall into the milk at of leavening the whole lump. milking time are laden with organisms which produce the worst flavors with

which we have to contend, and while thus harmful at any time, are doubly so under the cream-gathering creamery system where the cream is held for some time before it is sent to the factory. The milk should be creamed as soon as possible after milking, and for this purpose we strongly favor the use of a hand separator over any method of setting the milk, as it provides the most efficient and thorough method of creaming the milk, it enables us to make a cream of any desired richness-we recommend making a cream testing about 30 per cent.—the quantity to be cooled is greatly reduced, and the cream if properly cooled will be one of superior quality. Care should be taken to set the separator in a clean place and to stand it on a floor that can be kept clean and not on an earth or ground floor which is sure to get into bad condition sooner or later through milk being spilled upon and soaking into it, and thus causing bad odors. We would again admonish those who have hand separators to keep them thoroughly clean. We have met more separators than one in such a condition that they themselves would contaminate milk put through them. The separator bowl and its parts should not only look clean but should have a clean smell as well.

order to keep the milk and cream as free as possible from the organisms which work so much mischief. The next step is to cool the cream as soon as possible after it comes from the separator in order to prevent the development of those organisms that do gain access to it, for be as careful as we may milk and cream are never free of germ life. The warm cream should be put into a vessel than of milk, and it is equally so to by itself and thoroughly cooled before being added to the cold cream. The three most common mistakes made in handling and cooling cream are, that warm cream is mixed with the cold, the cream is frequently left too long before being cooled, and it is not cooled to and through frequent heating in summer held at a low enough temperature. Cool weather they are likely to get into a it below 50 degrees as soon as possible very bad condition, a condition unfit after it comes from the separator and for insuring a thoroughly reliable test. hold it well under that temperature until sent to the creamery. Send it to the samples in a suitable place in the cream-

If giving off any bad odors, examine all

tubes and crevices about the bowl, for

this is evidence in itself that there is

dirt being harbored somewhere.

STORING OF ICE.

of ice for cooling the cream is an abso- fording the butter-maker an opportunlute necessity, and any substitute is at ity of examining each patron's cream best little more than a make-shift. Ice and of enabling him to keep his commay be stored in a cheaply constructed posite samples in good condition. building, and a small lean-to, with a Some makers meet with considerable tank for holding ice and water will probuilding, and a small lean-to, with a vide an efficient means of cooling the samples, on account of the mould that cream. Some farmers who formerly forms on and in them. A few drops stored ice for use in creaming their of formalin-say four or five drops milk have given up doing so since pur- put into the composite sample bottle chasing hand separators. This is a at the beginning of the test period will serious mistake. While a good separator will cream milk more efficiently than will any method of setting, yet it exercises no hypotoci influence over the with mould in the samples, and the organisms that cause the souring of the cream or that bring about other undesirable changes. We must store ice for kept in as cool a place as possible in cooling the cream and holding it at a order that they be in good condition low temperature, so as to numb these for testing.

organisms and prevent or check their In some sparsely populated districts

cream, and the cream does not arrive at the creamery sufficiently sweet and clean in flavor for making butter of the lished to the decided advantage of the gathering creamery system, on account amount of it must go onto the market has to offer, let our patrons pay the creamery where a large quantity of price demanded for these advantages butter of uniformly good quality can and so get the full benfit of the system. be manufactured. Creamery and not facilities for caring for their cream, that must depend upon to build up the

DELIVERY OF CREAM.

The cream should be collected and delivered sufficiently often to insure its arrival at the creamery in good condition. This should not be less than three times per week during the greater portion of the season. Frequently cream is seriously injured in delivering it to the creamery. We have even seen collectors using ordinary milk cans in summer for this purpose. Cream received from the patron in the best condition would not, under such circumstances, reach the creamery in a condition fit for making good butter. The tanks or cans should be well insulated, and where the latter, in particular, are used they should be protected from the sun by means of a good canvas cover over the wagon. One of the most disagreeable flavors imparted to cream is that due to the sun's rays striking directly upon and heating the walls of a can, and this flavor is invariably passed on to the butter. Where the cream is delivered by individual patrons the can should be covered with a blanket.

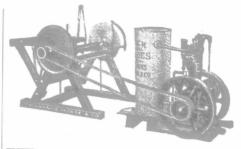
Provision should be made for pro-

perly caring for the cream at the creamery, and in this connection we would specially mention the importance of having suitable vats, vats with plenty of space at the sides and end for water and ice for quickly cooling the cream in warm weather. We should like to see our butter-makers make freer use of the acidimeter than they have been making in the past, and in ripening the cream we would advise them to err on the safe So much for cleanliness. This is in side, shat it, to under-ripen rather than over-ripen it. For a 30 per cent. cream .5 (5-10) per cent, of acid is quite

SAMPLING AND TESTING CREAM.

Too great care cannot be exercised in the sampling of cream and the testing of it. It is much more difficult to obthan of milk. and it is equally so to prepare and test the composite samples. We do not favor the idea of sending creamery both sweet and clean in flavor. ery and supply separate bottles for the cream-collector to bring samples of cream to the creamery in. This plan With but rare exceptions, the storing possesses the double advantage of af-

where they are now making dairy but-At the present time the great majority of our creamery patrons have not the facilities for properly cooling their herds are small and it would take a finest quality, as it is frequently over- people of the community and of our ripe and over-fermented. Since we dairy industry. Where butter is made have decided to adopt the cream- in sufficient quantities that quite an of the many substantial advantages it it is much better that it be made in a The chief demand is that they provide home dairy butter-making is what we butter side of our dairy industry. We managers of our creameries have a training of their patrons, and they in its stead — I. W MITCHELL, B. A grapple with it in earnest. They before Ontario Dairymen's Association



For Farm Use

A Fairbanks-Morse 2 H. P.

Jack-of-all-Trades **GASOLINE ENGINE**

will saw wood as fast as two men can handle it. It also pumps water, shells corn, grinds feed, makes butter, runs cream separator, in fact furnishes power for all farm purposes. Every farmer should have one.

Cut out this complete advertisement and send it to The Canadian Fairbanks Company, Ltd., 92-94 Arthur St., Winnipeg, Man. Please send me (without charge) particulars about Jack-of-all-Trades Engine for farm use, Catalog E. 102.

I may want a..... H. P. Name

Engine for Address

The Provincial Mutual Hail Insurance Company of Manitoba

(Incorporated 1891)

Season 1906

Paid all losses last year in full, \$6 per acre.

Has done this for eleven years of its existence at an average cost of 21c. per acre.

Has no liabilities.

Returned 10 per cent. of all premium notes to policy holders last year, and one year before it returned fifty per cent. (50%).

> Economical Management Honest Appraisements and Satisfactory Settlements

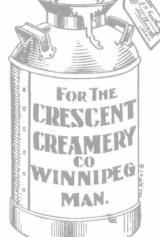
Strictly a Farmers' Company. Managed by Farmers only. Insure with us and feel Secure.

THE OLD RELIABLE.

C. J. THOMSON, Farmer, Virden Manager-Sec.-Treas.

Head Office: 449 MAIN STREET, WINNIPEG

Less Work and More Money For the Farmer



Is the Policy that Makes Our Business a Success.

Our business methods give the farmer Quicker Returns and More Money than he ever made before in dairy farming.

WE GUARANTEE

Highest Prices

Prompt Payments Accurate Tests

WRITE FOR HANDBOOK A

Crescent Creamery Co., Ltd., - - Winnipeg, Man.

Mention THE FARMER'S ADVOCATE when answering adverti ements.