61. Clean all dairy utensils by first rinsing them with a brush and hot water, and lastly rinse with boiling water and allow them to dry where the air is pure and the sun shining. The as will allow the sun to shine down into them.

62. Never use a cloth or dish rag the first scoring is here given: in washing dairy utensils. A brush serves the purpose very much better and is more sanitary.

63. Use only pure water in which to wash the utensils. A good cleanser such as sal soda is helpful.

## A Method of Grading Cream.

At the Manitoba Dairyman's Convention last winter and we suppose at other gatherings of dairymen, the question of grading cream received at creameries was discussed at length and the principle endorsed, but no actual plan was adopted and so far as we are aware no creamery in Western Canada attempts to grade the cream it receives according to its quality and value. Some makers protest that there has been no system devised for the purpose and have asked for a method of scoring. In answer to this demand we publish rather fully from a bulletin of the New Hampshire Experimental Station.

During the past few years but little improvement has been made in the quality of creamery butter; this, too, in spite of the fact that creamery butter makers, as a class, have never before been so well informed regarding their work. Never before have they been able to make us of as good determining the quality of milk and cream are machinery and special apparatus, and never described as follows: before has a fine quality of butter been more eagerly sought after by the consuming public.

mentioned improved conditions.

change which has taken place in the methods placed a clean cloth strainer, through which the employed by dairy farmers in delivering their patron of the creamery pours his milk or cream. product to the creameries. This change has Any coarse or undissolved dirt or foreign matter resulted in the acceptance and use by creamery contained in the milk or cream will be caught and the quality of milk and cream received has been men of a poorer grade of milk, and more partic- held by the strainer as the milk or cream passes slowly but constantly improving. ularly, a poorer grade of cream for butter-making. from the patron's cans to the tank on the scales. For several years creameries, as a rule, received A clean strainer cloth is used for each patron's formly high grade product, others were surprised whole milk only from their patrons, separating milk or cream. By this method the milk or to know that their product was in any way bad, and retaining the cream at the creamery. With cream from each farm can be easily, accurately and quickly and cheerfully improved its quality. the invention, development and distribution of and quickly examined for dirt or foreign matter. Others, of course, were slow to recognize anysmall cream separators operated by hand or other The general condition of cans, covers or stop- thing wrong, and slow also to remedy the matter. light power, there occurred a gradual change or pers should be watched carefully and the use of drifting away from the so-called whole milk dirty or rusty cans prohibited. Churned milk, the condition of his milk or cream plainly des-

Under present conditions, a very large percent- conditions for which low scores may be given. properly to care for a cream separator. It some- and should be carefully considered it is of uncertain age when delivered at the allowed.

creameries or between city milk contractors and Upon the flavor of the milk or cream received a creamery, and in order to prevent patrons of a at the creamery largely depends the quality of creamery leaving it for another, or for a city mar- the finished butter. A few bad flavored lots of ket, creameries sometimes make a practice of milk or cream may materially injure the quality allowing or compelling their managers to accept of the day's product. By tasting a sample from old cream and milk of an inferior quality. It is each lot of milk or cream delivered, a good dairyevident, therefore, that no material improvement man, after some practice, will be able to recognize can be made in the quality of creamery butter the various flavors in different lots and give to be accepted at the creamery. until some improvement is caused to be made in each its proper rating of score. As the flavor or the care of milk and cream on the farm, and the taste of milk or cream is easily changed when and scored at least twice each month; the average condition of milk and cream when delivered to brought in contact with the various substances, of these scores has been accepted as a basis for

It is evidently not wholly the lack of know- be pointed out and a remedy suggested. delivery of a perishable food product.

before any great progress can be made in securing score card's greatest usefulness is the service it be painstaking, or to make an attempt to further a better product from the farm.

With this object in view,

them in warm water, then thoroughly wash A PLAN FOR GRADING OR SCORING MILK AND CREAM at the time of receiving at the creamery, and grading the price paid patrons has been worked out and put in successful operation at the New utensils should be placed to air in such a position Hampshire College creamery. The system was inaugurated July 1st, 1906, and the record of

Patron No.		Acidity, 25 points.	Condition, 25 points.	Score	Remarks.
1	40	23	25	88	
1 2 3 4 5 6 7 8 9	35	20	24	79	Foreign matter.
3	42	25	24	91	Foreign matter.
4	40	24	25	85	2 0101811
5	40	25	23	88	Foreign matter.
6	35	20	25	80	2 0100811
7	43	25	24	92	Foreign matter.
8	43	25	24	92	Foreign matter.
9	43	25	24	92	Foreign matter.
10	42.	25	24	91	Foreign matter.
11	43	24	24	91	Foreign matter.
	10				Lumpy cream
12	38	25	23	86	rusty cans:
1 4					foreign matter.
13	40	25	24	89	Foreign matter
14	35	22	22	79	Foreign matter
15	36	20	9.4	80	
16	42	25	24	91	Foreign matter
17	42	24	24	90	Foreign matter
18	42	25	24	91	Foreign matter
19	38	24	24	86	Foreign matter
20	35	24	20	79	Foreign matter
21	35	20	22	77	Foreign matter
22	35	20	25	80	Foreign matter
23	40	20	25	85	Foreign matter
24	32	20	25	77	Foreign matter
25	35	20	25	80	Foreign matter
26	45	25	25	95	Excellent.
27	42	24	24	90	Foreign matter
28	45	25	25	95	Excellent.

The apparatus and methods employed in

A wooden frame is placed on top of the weigh can at the creamery, and is held in place by short In many instances, the quality of creamery wooden pegs on the under side. This frame is to butter has become poorer in spite of the above- support a tin funnel about fifteen inches in diameter at the top and seven inches at the bot-The reason is seemingly found in the gradual tom. On the top and inside of this funnel is

frozen milk, thick or clotted cream are some of the cribed knows better how to remedy existing

age of cream used for butter-making is separate Too often milk or cream is delivered at a cream- or grading milk or cream, it will be necessary also, from the milk on farms. Many farmers are not ery in a condition altogether too sour for use in if the plan is to be effective, to adopt a definite as yet familiar with the principles of dairy bacteri- making the finest grade of butter. The acidity scale of prices to be paid for butter-fat or cream ology, and some do not fully understand how or sourness of milk or cream is an important item of various grades. times happens that separators are used several mine the approximate acidity of the various that there will be a strong incentive for each times without being properly cleaned, and in samples, Farrington's Alkaline Tablet Test is some instances they are placed and used in some particularly convenient. The outfit may be secured following arrangement of prices for butter-fat in convenient but dark and dirty corner of the barn. from any dairy supply house, with full directions various grades of milk and cream has thus far Cream separated under the above mentioned confor use. A standard for acidity should be estabditions is brought into contact with many unde- lished, which will be safe for cream trade or for has been paid patrons for butterfat in milk or sirable bacteria, and bad flavors are the natural butter-making, and yet not be unjust to the milk cream scoring 95 points or over. The usual result. It frequently happens that cream is not or cream producer. A standard of .20% acid will cooled to a low temperature and properly cared doubtless be high enough for any purpose. In fat in milk of cream scoring 90 and under 95 for after it is separated on the farm, and often some cases, however, a standard of .25% may be points.

In some localities competition exists between scoring or grading milk or cream is its flavor, cream scoring 85 points and under 85 points. the nature of the difficulty should, when possible, grading the price per pound for butter-fat.

ledge on the part of the dairy farmer that is After considering the various points, a score who produce clean milk or cream of excellent responsible for the condition of his product. It card has been arranged by this department quality become disgusted when on delivering at is more often due to habitual carelessness, and a which has proven to be very useful in describing the creamery they receive the same price per failure to fully realize his responsibility in the in detail and recording the condition of milk and pound for butter-fat as does the patron who matter of cleanliness, low temperature and prompt cream. The score card is also a particularly furnishes an inferior product from some neigh-It seems necessary to overcome this condition information to the creamery patron. In fact, the but little incentive for a producer to continue to renders in presenting to the milk and cream pro- improve the quality of his product.

ducers a comprehensive and accurate idea regarding the condition and quality of his product.

As will be noted, fifty points are given to flavor and taste, as the flavor of milk and cream, more than any other condition, determines the flavor or quality of the butter; twenty-five points are given to acidity, that is, the amount of acid or degree of sourness which has developed. Twentyfive points are also given to the general condition of cans and contents. It therefore becomes possible to discourage, by means of the score cards, the presence of foreign matter and various things which in one way or another get inside the milk cans of careless patrons. It can also be used to discourage the use of milk containers of a questionable nature and condition.

SCORE CARD FOR  Name of Patron		CREAMERY PATRONS.	RY PATRONS.
Flavor 50 points.	Acidity 25 points.	General condition of cans and contents 25 points.	Perfect score 100 points
			Judge's score.
PA	ULTS ARE I	PAULTS ARE INDICATED BELOW.	
Flavor.	Acidity.	General condition.	Remarks.
Bitter Silage Manure Weedy Bad ; unable to describe Vegetable.	High	Lumpy cream  Rusty cans  Dirty cans Churned milk or cream Frozen milkor cream	
Date190.	190.	Signature	Judge.

During the time this method has been on trial,

While some patrons always furnished a uni-

A creamery patron receiving a score card with difficulties. In adopting the system of scoring

patron to furnish a high scoring product. The proved satisfactory: One cent extra per pound

One cent less than the usual price per pound The most important thing to be considered in has been paid patrons for butter-fat in milk or

Three cents less than the usual price per pound has been paid patrons for butter-fat in milk or cream scoring 75 and under 80 points.

Patrons furnishing milk or cream scoring under 75 points have at once been notified that they must improve the product or it would no longer

Each patron's milk or cream has been sampled

It is a well-known fact that many dairymen valuable agency for presenting such detailed boring farm. Under such conditions there can be

the ind real the L sup com If on ther faste be 1 purc of st

d€

th

to

de

my

W1

SO1

get

lng pre

thi nut

req

It rubb whic. is do of th Want a. dis make