The Pairn.

The Best Depth of Milk for Cream.

Experiments made to ascertain the best depth for setting milk for cream, gave the following results. A lactometer of the usual width, 101 inches high, gave 12 degrees of cream, A glass vessel 23 inches wide with 33 inches depth of milk gave 31 degrees of cream. Another vessel of glass with 2 inches depth of milk, and 103 mehes wide, yielded not quite 2 degrees of cream. The milk was not a mixture. but all from the same cow, and stood 36 hours. This would warrant the opinion that cream is not cast up in greater quantity when not placed in very shallow vessels. The cream was carefully taker off the two latter vessels, and the skimmed milk put into a lactometer; that from the widest vessel gave two degrees of cream, and that from the second in width, about half a degree. A thermometer, placed near the vessels, ranged from a little above 47' to nearly 50° the whole time.

A Handy Cream-Gauge.

Mr. Douglas, of Vermont, suggests a plan for testing the say, are twenty inches deep by eight inches in diameter | year old, Perhan A strip of glass six or eight inches long, and two or three inches wide, will be sufficient. If grooves are made in the tin, and the glass inserted with white lead or some other

cattle. Long-continued experiments on the effects of feeding salt, the right quantity, the time and the manner of paint.

The cheese tib should be so graduated that it may be gore this point when the institution is fairly under way. Means the pointed with the individual experiment of farmers, on this as on other points. A correspondent of the Western Rural, who has been a darrynnan from his youth up, furnishes his quots of information, without salt for about four months. They did well as to flesh but a majority of the wintered twenty cows one season without salt for about the calves dropped that spring never got a full breath of air into their longs, having an enlargement of each salt. It periment satisfied him that it was best to feed salt. It periment satisfied him that it was best to feed salt. It is a solution of the milk in the manner of paint.

The cheese tib should be so graduated that it may be correctly known what quantity of milk is used. This is a white specks occur from several causes. The first cause white specks occur from several causes. The first cause white specks occur from several causes. The first cause white specks occur from several causes. The first cause white specks occur from several causes. The first cause of the near that the proper proportions, by the net that it may be used. The temperature Experience of the matter and remet, may be used. The temperature of the temperature at which to run the milk will be found to vary with the process is apt to proceed the process that the speck is formed. Then a httle gas generated and the process continues the cream by a minute germ. Any cause that pipe milk rapidly will produce the germ. When the garm the coloring matter and remet, may be used. The temperature of the large at the milk is feverish, this process is apt to proceed the process of the proces cattle. Long-continued experiments on the effects of common mode of application is to dissolve it in hot milk feeding salt, the right quantity, the time and the manner and add at the time of putting in the rennet. It may be to give it, any urgently needed. We look to our Untarrel periment satisfied him that it was heat to field salt. It died and twenty degrees, was the universal practice, continues the correspondent, when I was a boy, to salt cattle, occasionally dropping in the field, letting each animal do the best should toward getting her share. Observation led to a requisite proportion of rennet; and, having arrived at the change in practice, and the other extreme followed. A tub formation of a good curd, which will be the invariable or kettle was placed in the field or yard, and salt kept result of a strict adhesion to the foregoing rules, let it be therem, the cattle having free access thereto, and this carcille cut up with three-bladed knives, as fine as posphan is still advocated and practised to a large extent, solle; then dip off half the whey, and heat a portion of it My experience and observations have convinced me that to the temperature of ninety-five degrees, and return it to this is not the most profitable way. I have known cows, it he whey and curds, then, after stirring it for five minutes, My experience and observations have convinced me that, to the temperature of ninety-five degrees, and return it to this is not the most profitable way. I have known cows, i the whey and curds, then, after stirring it for five minutes, under the management of the most careful, to be entirely allow the curd to sink, and as quickly as possible dip off dried in their milk and sick for days by getting too mach, the whey. Having done this, press the curd by placing salt, probably by drinking brine from the salt tub. There, on it a board weighted with from three to five fifty-pound are usually some cows in every dairy that will cat more than is good for their health, and these are kept continually under the influence of a cathartic which is destructive to the gradually street flow of milk.

now advocate; that of feeding in small quantities and often. I feed every third day, not more than a table-spoonful each, always in the barn, that each may have her share, and it never lessens the next flow of milk, but in-

creases it, and satisfies the appetite also.

It is a little more labor to feed in this way than to put a half bushel in the tub every few days, but when the neigh-bors who meet you at the factory each morning begin to inquire, "How much behind am I to-day?" it shows that close attention to details will tell.

More about Cheese-Making on a Small Scale.

In last month's issue the CANADA FARMER gave directions for the making of cheese on a small scale. The subjoined, from the Massachusetts Ploughman, will supplement it excellently, being more in detail on several points upon which we touched but lightly:

It is important that rennet enough should be prepared at once for the whole season, in order to secure as great a uniformity in strength as possible. The object should be to produce a prompt, complete, and firm or compact co-agulation of all the cheesy matter. To obtain a good quality of rennet that will effect this, the animal should be in perfect health, and the stomach should be emptied of its contents, salted and dried without any scraping or rinsing, and kept in a dry place for one year, when it is fit for use, but if it is allowed to accumulate dampness, it will lose its strength. In Cheshire, so celebrated for its superior cheese, the contents of the stomach are frequently quantity of cream to a given quantity of milk, which is at salted by themselves, and after being a short time exposed to the air, are nt for use; while the well-known and highly once simple; ad convenient. He takes one of the common pails or cans used in the deep setting or pool system, and has the timman cut out a slot, inserting in its place a strip of glass. These pails or cans, it is, perhaps, needless to remet, as usually prepared, is not fit to use till nearly a vear old.

Perhaps the plan of making a liquid rennet from new and fresh stomachs, and keeping it in bottles corked tight till wanted for use, would tend still further to secure this end.

The use of annatto to color the cheese artificially is somecement, so as to be water-tight—leaving no places for the milk to accumulate, and so that it may be readily cleaned—the vessel is now ready for marking. The graduation—the vessel is now ready for marking. The graduation is made from the red pulp of the seeds of an evergreen tree of the same name, found in the West Indies and in -the vessel is now ready for marking. The graduation should be marked on the tin, alongside of the str p of class, so as to show the percentage of cream for a given quantity of milk. The milk being placed in the can up to a given mark, is then set aside in the pool, for the cream to rise. When all the cream is up to it will rise, the division because the percentage will be castly real if firm the graduation marks on the tin along the side of the glass.

Salt for Dairy Cows.

Salt for Dairy Cows.

Probably there are few things among the many unsettled problems of agricultural science, upon which so much diversity of opinion exists, as upon the subject of salting the coloring by the consumer, might well be discontinued. The diversity of opinion exists, as upon the subject of salting to coloring by the consumer, might well be discontinued. The difficulty was not afterward to consider the properties of the same name, found in the West Indies and in the warnet to each surface in cakes of the day small be kept clean, as well as their surroundings. In produce 4,000. All cows should be kept clean, as well will produce 4,000. All cows should be kept clean, as well will produce 4,000. All cows should be kept clean, as well will produce 4,000. All cows should be well than small ones.

The surroundings In the light will produce 4,000. All cows should be kept clean, as well will produce 4,000. All cows of the surroundings. In produce 4,000. All cows of the wil diversity of opinion exists, as upon the subject of salting coloring by the consumer, might well be discontinued. The

the greatest flow of milk.

I took to measuring each cow her mess of salt, feeding in the barn. Some would cat it as greedily as meal and the barn. Some would cat it as greedily as meal and the teat with a compound composed of grafting wax not be satisfied; others would like a little and want no (softened by the addition of a little lard) and cayenne more, but the amount of milk sent to the factory the next day would be below the average. The second and third days would be above the average. This unsteadiness in effectually broken as to render further applications unnecessary.

Profits from Dairying.

For the benefit of farmers in neighborhoods where it is proposed to establish cheese factories for next season, it may be well to give some general statements as to what may be expected. Annual receipts of from \$50 to \$100 per cow are reported, and truthfully, by some dairymen, but such returns as this are not to be expected by farmers generally, especially at the first. The following is probably a fair average, for average cows, on common or poor grass, and with only ordinary care during winter. The cheese a fair average, for average cows, on common or poor grass, and with only ordinary care during winter. The cheese factory should be kept in operation at least six months, say from May 1, to Oct. 31,—or say 180 days. During this time the cow should give 3,000 pounds of milk, making 300 pounds of cheese. For this milk the farmer will receive from \$27 to \$30. During three months more the cowall give say 1,000 regards of bulk—pushing from thicty to will give say 1,000 pounds of milk—making from thirty to thirty-five pounds of butter—worth from \$6 to \$10. Much better than this is done by many; but the receipts

of many fall considerably below these figures. - Western

THE MANUFACTURE of butter and cheese in 1840 was represented by 202,410,440 pounds, in 1870 by 677,018,095

A CORRESPONDENT of the Country Gentleman states that thirty cows yielded 94,525 quarts of milk in a year—3,150 quarts per cow—60 quarts per week for each cow—or 8.57 quarts per day. The greatest monthly yield was in May—9,946 quarts from the thirty.

To Avoid Greasy Butter,—I. B. Arnold says:—
"Churn with pressure instead of friction.—The dash churn brings butter by pressure, and makes better butter than most other kinds of churns for that reason. Butter should also be worked by pressure instead of friction. The ladle or worker should not be drawn across the butter, but pressed down upon it."

AVERAGE FRED OF COWS .-- At a meeting of milk pro-Average Fied of Cows.—At a meeting of milk producers in Massachusetts some time since, a Mr. Wetherell stated that cows upon an average need forty-five pounds of hay per day or its equivalent whilst giving milk. That large cows produce more milk for the amount of feed given than small ones. That scrub cows will give annually 1,400 quarts of milk, whilst the Holstein and some other breeds will produce 4,000. All cows should be kept clean, as well as their surroundings. In producing winter milk, cows without grain will do nothing.

perly, the extreme sensitiveness of mink to the least imports in the almosphere, and its rapid power of absorption. The difficulty was entirely removed by putting in a tin ventilating tube, leading from the top of the chimney to the outside of the root. The butter was not afterward complained of.—Practical Farmer.

EFFECT OF OIL-MEAL UPON BUTTER. To a correspondent who enquired if Inseed meal fed to cows will have any effect on the butter, the Lige Stock Journal replies that it will, but the effect will be bencheal, generally, when fed in winter. The flavor of all butter is derived from the food. When the cow has a variety of grasses, such as white and red clover, and the sweet-scented varieties of old pastures, the butter has, when well made, a fine aromatic flavor. If you feed upon one kind of hay in winter, your butter will not have so fine a flavor as when fed upon a greater variety. Add oil-meal, and the flavor will be your butter will not have so fine a flavor as when fed upon a greater variety. Add oil-meal, and the flavor will, he improved; add to these carrots and corn-meal, and a still finer flavor will result. There is nothing about oil-meal to injure the keeping qualities of butter; unless fed in too large quantity, when it would affect the health of the cow, being too laxative to be used as a principal food. Not more than 2 to 4 pounds should be fed to a cow per day, and that is better given with coarse fodder. Oil-meal, given in small quantity, say one quart per day, will have an excellent effect upon the health of the cow, quality and quantity of butter.