NOTES.

Duirymen simply turn their pocket books wrong side out every time they take poor milk to the factory, and

take poor milk to the factory, and get it accepted. Dou't forget that milk can be kept on the farm overnight pure and sweet without the use of ice. All you have to do is to acrate it and acrate it and acrate it thoroughly. No half way bushness, remember. By taking good care of your milk you are carning money just as fast as by making your cows yield more of it.

of it

as by making your cows yield more of it. We often meet dairymen who pro-fess to have no faith in the Babcock test. They are generally owners of poor cows, who patronize creameries where there is talk of paying for the milk according to the test. Their very argument against it proves that it is a good thing. Any dairyman who had a fourth or third more cream in his milk -than his neighbor does not like to divide it up with him by taking a common share from the factory returns. The Bahe ek test provents unjust rob-hery, and no truty honest dairyman can find fault with it. We often hear it advised, 'Milk your cows regularly, or they may shrink in yield." That statement should be put a little more positively. You mast milk them regularly or they will shrink every time. Dairymen often imagine that it is optional with them to do thus and so. They should all understand that there is a right way and a wrong way, and that the first always means profit and the latter always means loss.

profit and the latter always means

Did you ever think that when milk Did you ever think that when mik is once tainted or in any way spol-ed you can no more make it good milk again than you can rotten ap-ples sound? A chemical change takes place that ruins the milk forever. That is the reason why all intelli-gent butter and cheese makers lay such stress on its care.—Exchange.

AS TO ACIDITY.

Addity is a natural change, and one necessary in certain parts of cheese and butter making. However, dairy-men should not take it upon fiem-welves to ripen milk for the manufac-turer. turer

That is the last thing that rnat is the last thing that the cheese and butter maker requires. Mik must be delivered sweet, and then the manufacturer can ripen it to just the degree necessary to produce the best results.

PURIFYING MILK.

Our personal practice for some years in preparing milk for bottling showed corclu i rely that the passing of a current of cold pure air, washed in the way suggested from every par-ticle of dust or impurity, did have a good result, which was proved by the fact that milk is air washed, as we might say, kept sweet, in the equally well prepared for four days longer than the unacrated milk. This prac-tical evidence of the advan-tarm of projer aeration and than the unaerated milk. This prac-tical evidence of the advan-tage of projer aeration and cooling, by pure, cold air, goes to show that if well done, in a scientific manner, the aeration of milk is use-ful for this purpose at least.; and if so, it may well be belived that it will be found useful for the buttermaker. -Country Gentleman.

The cheesemaker can make a pound of cheese from one-half pound less milk if the milk is promptly aerated and cooled by the farmer. At least \$500 a year can be thus saved to a factory making up one million of pounds of milk, and such cheese is hetter flavored, longer keeping, and higher priced.

there all, farmers must understand that good butter and cheese cannot be made from dirty or tainted or unaerated milk. This is the law and the prophets.

"Prevention is better than cure." It is better to keep dirt out of the silk than to strain it out, however arefully done.

Points Most Needful of Care in Handling Milk for the Factory.

Canadian Dairy Commissioner in His Third Annual Report.

(By PROF. J. W. ROBERTSON.)

3. An abundant supply of cheap, suc-

culent, easily diggestible, wholeson nutritions food should be provided 4. Pure cold water should be some. al-

nutritions food should be provided. 4. Pure cold water should be al-lowed, in quantities only limited by the cow's capacity and desire to drink. 5. A box, or trough, containing sait, to which the cows have access every day, is necessary for the keeping of cows profitably. 6. Cows should be prohibited from drinking stagnant, impure water, the responsibility for giving effect to that beneficial prohibition rests entirely with each individual farmer. 7. Cows should be treated with in-variable kindness, and should not be driven fast. 8. All the vessels used in the hand-ling of milk should be cleaned thor-oughly immediately after their use. A washing in tepid or cold water, to which has been added a little soda, and a subsequent scalding with boli-ing, water, will prepare them for air-ing, that they may remain perfectly sweet. 9. Cows should be milked with dry

to the evening and morning means the milk. Neglect to air it will increase the quantity of milk required to make a pound of fine choese. It has been found to be impracticable to make strictly first-class cheddar cheese, from milk that has not been uerated.

14. In warm weather all milk should be cooled to the temperature of the atmosphere after it has been aired,

but, not before. 15. Milk is better by being kept in small quantities over night, rather than in a large quantity in one ves-

sel. 16. Milk stands should be construct-16. Milk stands should be construct-ed to shade the cans or vessels contain-ing milk, as well as to shelter them from the rain. Swine should not be fed near the milking stand. 17. Only pure, clean, honest milk should be offered, and it should be paid for according to its quality and quan-tity.

tity.

TURNIPS, RYE, RAPE, AND APPLES

1. Only the milk from cows in good the other stock on the farm and not health and apparent contentment should be used. 2. Until after the eighth milking it should not be offered to a cheese fac-tory in the should and be offered to a cheese fac-tory in the should and be offered to a cheese fac-tory in the should and be offered to a cheese fac-tory in the should and be offered to a cheese fac-I know of at least forty factories at which cheese have been rejected, and then resold at a reduced price of all the way from 1-2 cent to 2 1-2 cents per pound b causathe patrons of those factories would persist in sending to the factory milk from cows which had been fed some of the above-named foods. All patrons of cheese factories are manufacturers, inasmuch as our factories are co-operative; and it should be to their interest to stop, such practices, which injure our good reputation for fine cheese and reduce or lessen their profits.—A. F. McFar-lane.

or yards, their u.:der parts become considerably solled with excrement. That a large amount of solled mat-ter falls into the milk can be easily proved by allowing the milk to re-main for some few hours in the pail, when a deposit will be found at the bottom. Of course, all milk is gen-erally passed through a strainer, and this process removes most of the solids, but the germs introduced with the solids into the milk are washes off by the fluid that cannot be re-tained by any strainer. Much can be done toward lessening this source of contamination, by keeping the udder. flanks and under part of the body gen-erally well brushed, thus removing most of the loose huir and dirt. but this grooming alone is not sufficient. So long as the surface is dry, particles of dust are easily dislodged, and a con-tinual shower of them falls into the milk pail. If, however, the udder is washed and the under parts of the body moistened, the misplacement of dirt and its accompanying germs will be reduced almost to a minimum from a rolet service, except by very vio-ient movements." a rolst service. except by very vio-lent movements.

EFFECT OF RUSTY TINWARE.

TURNIPS, RYE, RAPE, AND APPLES A CAUSE OF LOSS. I now want to draw attention to some important features of our bush-ness in regard to which I think a great many improvements may be made upon our last season's work. I cannot for my life understand why made upon our last season's work. I cannot for my life understand why made upon our last season's work. I cannot for my life understand why match is will he had a half rotten smell and a horrible, tallowy taste. Ho went to the creamery and examined the cheese factories and butter factories will persist in feeding improper food to mlich cows, knowing at the time they are doing so that the finror of the butter or cheese male in the fac-rape, apples, etc., etc., cheese will de-if will be impaired thereby; and that with such food as turnips, ryc, tape, apples, etc., etc., cheese will de-a turnips, rye, apples, or anything w alch will jour to flavor in milk, butter, or cheese, why not feed it to butter, or cheese, why not feed it to

milk was perfect in the new can, and as bad as before in the old rusty one. When the dary couns for wanted to borrow the old can for further ex-perimenting he was refused, and had to buy it at the price of a new one. He then continued his experiments with milk from other farms, and got the same result—a beastly smell and a tallowy taste. Analysis showed the milk to contain considerable iron, and the trouble was worse when the can was half full than when full. Butter made from this milk was "tallowy." The can had been cleaned in the usual manner on the farm, with boll-ing (?) water, and to prove that the trouble was not in "spores" left in the can—it was steamed and re-steamed before using, but the result was the same. A city milkman in Copenhagen had

city milkman in Copenhagen had A city milkman in Copenhagen had similar trouble, and there can be no doubt that here is the danger which we must be on the lookout for. Many hundreds of rusty cans have we seen in use, and he demand for cheap cans has induc 4 manufacturers to use poor the. Will we readers heed the warn-ing? This is t 7 one of the most im-portant "p ers" given to dairy-men.

A FEW HINTS.

A FEW HINTS. First of all banish the dog. He has no place in the dairy. He is a relic of brutal barbarism, and no civilized cow will tolerate his dogoned non-sense. For kindness must reign in the dairy . next the stables must be warm, well lighted and properly ven-tilated. For the cow must be com-fortable at all times. Then be regular in all things about the dairy, feel regular at the same time and in the same way. Milk regu-lar and in the same way. Milk regu-lar and in the same order, for the dairy cow is a very orderly animal. And the dairyman who takes an in-terest in his occupation and reads a good dairy paper and tr's to improve himself, depend upon it, his herd will improve, and when you find a man of this fort you will find that he has "Corn in the corn-crib.

"Corn in the corn-crib, Chickens in the yard, Meat in the smoke-house, A tub full of lard.

Cream in the cream pitcher, Molasses in the mug, Honey on the buckwheats, And cider in the jug."

Milk in the dairy. Butter by the load, Coffee in the hox, And sugar in the gourd."

E. O. Adee, in Monrad's Dairy Messenger.

Hauling the milk requires also some care. The cans should be full, and in warm weather they should be covered with a wet blanket, with a dry one on top. In cold weather cover them to prevent freezing. Promptness in delivering the milk is highly desirable, if it is done by a hired milk hauler. The milk producer should visit the creamery now and then to consult with the butter maker.

Fifteen or twenty minutes spent on taking the proper care of the milk may improve the butter or cheese to the tune of thousands of dollars at a factory during the year. Where the combined aerators and coolers are used the only time lost is in cleaning them.

The Butter Maker can do much to-ward improving the flavor of his but-ter by the prompt accretion and cool-ing of his milk. Accretion removes strong food odors, and the reduced temperature checks the growth of the common scouring bacteria, thus allow-ing the flavor making bacteria to de-velop, making perfect flavored high priced butter.

Wishing some of these Bulletins on the case of milk, so give to their pat-rous, will be furnished them at the following rates: 10 for 10c.; 20 for 15c.; 30 for 20c.; 40 for 25c.; 100 for 40c.

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