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# DAIRY

#### Air Treatment for Caked Udder.

Dr. Peters, of the Nebraska Experiment Station, treats caked udder in cows in this way.

"I have here an ordinary milk tube, with a little bibb at the end of it. I use a rubber tube something like an ordinary hand bicycle pump. that is affected and fill it up with air. I do not probe in there with darning needles and other kinds of instruments, but I fill up this spongy organ with air, and it is like filling a sponge with water. If the udder is caked, you put in as much air as you can. Then you massage or work with your hand, and work that air all through the quarter, and you will hear the bursting of these little vesicles—these little tubes. You can burst all of them in two or three applications of that kind, and you will generally restore the udder. have treated several hundred very bad cases, and I know it works all right, and any one of you can easily do it.

"Now, where the entire udder soon after calving has become caked, we use what is known as the compress. We take a piece of heavy cloth and put it on so that it lifts up the entire udder, and tie it on top. We usually use straw with it, so that we do not chafe the back of the animal. That is to relieve the pressure. You will notice that the udder is very heavy, and that the pressure must be relieved before anything else is done. If you want to assist, take several small, five or ten pound bags and fill them with bran, keep them hot, and apply them to the udder. That is the treatment we use where there is a very great amount of congestion. Now, these are about the simplest methods of treating disease of the udder that I can explain—the massage for the diseased quarter, and the compress for the whole udder.

### Dairy Research.

#### SWEET-CREAM BUTTERMAKING.

Bulletins Nos. 13, 14 and 15, from the Dairy cream by gravity process in deep cans. and Cold-storage Commissioner's Branch of the Department of Agriculture, Ottawa, deal with between percentage of fat and quantity of cream, A. Scott, Winnipeg, 95 points; Carse O' Gowrie "Sweet-cream Butter," "Apparatus for the is a very good guide to the operator of a separator Creamery, Birtle, 942; T. C. Gerrard, Shellmouth,

Dairy Department of the O. A. C., except that we some very good paragraphs that have been quoted Morris, 94½; Mrs. R. Garnet, Carman, 94; G. F. should qualify conclusion 1 by saying, "If the con- last week in this department. ditions are just right, there is no greater loss of

fat by churning sweet cream," but the tendency, as indicated by the experiments detailed in the unless the buttermaker be very careful in his

## TESTING BUTTER FOR FAT AND MOISTURE.

The tests of apparatus for fat and water deter-Now I insert this tube carefully into the quarter eter. Speaking of the test bottle, the author of the contents of the bottle when the fat column moisture in butter.

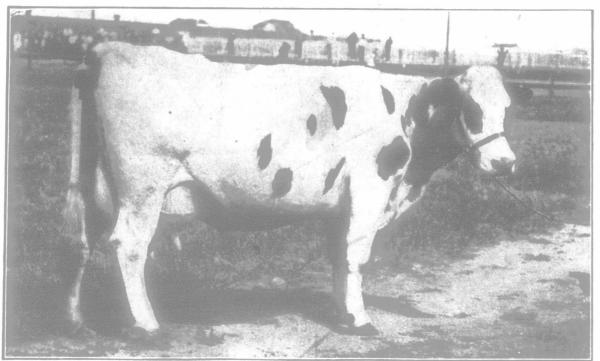
Trying to approach the 16 per cent. limit is a smaller. very dangerous practice, and should not be resorted to." This warning is one that may well a few were off in flavor, rather suggesting dirty be given to Ontario buttermakers. We recently whey tanks. If I might make a criticism it would heard a creamery-owner say that he was going to be that the finishing needs improvement. Banput all the water into his butter that the law will dages should not be left with more than three allow. In trying to get all the water in butter quarters of an inch to lap and then a cap cloth which the law will allow, some of our butter- used. This would give the cheese a smarter makers are likely to get more than the law allows. appearance. Judging by the collars on some of Someone is likely to suffer.

#### GATHERED CREAM.

for improving the results at the cream-gathering exhibit since my last visit. I am surprised, creamery. It is illustrated with plans for water however, that more people do not go in for dairya separator or for setting mlik in; to raise the profitable than wheat raising.

The table on page 10, showing the relation by Prof. Shutt, of the Experimental Farm, fat his cream contains, thus saving the trouble of Assorted creamery packages (14, 28, and 56 lbs.) Ottawa, regarding sweet-cream butter, are: (1) weighing milk and cream. The table is of little —Carse O' Gowrie Co., 96; A. Scott, 95½; W. B. By the sweet-cream process there is no greater or no value unless the fat in milk is known. Then, Gilroy, 94½; C. D. Shannon, 94½. loss of butter-fat than in the ordinary method too, it should have been qualified, by saying that prints.—T. C. Gerrard, 97½; A. Scott, 96½; C. D. with ripened cream. (2) The keeping qualities of the table is correct, assuming that there is no loss Shannon, 96; W. B. Gilroy, 93½. The sweepthe butter by the sweet-cream butter are dis- of fat in the skim milk, nor in handling the milk. stakes in the creamery section was won by T. C tinctly superior to those of the ripened-cream As there is always some loss in both, the table, in any case, is only approximately correct.

H. H. D.



FIRST PRIZE HOLSTEIN COW AT WINNIPEG EXHIBITION, OWNED BY MUNROE PURE MILK Co.

### Dairy Products at Winnipeg Fair.

That interest in dairying in Manitoba is increasbulletin, is for a greater loss of fat when churning ing was evidenced by the large number of the sweet cream, as compared with ripened cream, entries made in the dairy section at the Winnipeg Fair, and by the crowds that visited the space in the arts building allotted to demonstrations of the various processes of butter and cheese-making. The judging of dairy products was done by Prof. Dean of Guelph Agricultural College, and we cannot do better mination in butter were also made by Prof. than quote his summing-up of the features of Shutt. The apparatus consisted of the Wagner this exhibit. He said: "It is some three years butter-test bottle, and the Wagner butter hygrom- since I judged dairy products here before, and the improvement in quantity and quality is gratifying. Considering that Manitoba is not a says: "The reliability of the results from this dairy province I would say that the size of the test bottle depends largely upon the temperature exhibit was very creditable indeed. Taking butter first, though there were some few exhibits is read." The bottle gave results consonant with slightly off in favor, and mottled in appearance, those obtained by gravimetric analysis, by using the exhibit as a whole was very fine. In the I c. c. acid (sulphuric), and reading the fat column creamery section the finish was good, though as after placing the bottle (direct from the usual there were a few dirty boxes. The dairy machine) for ten minutes in water that had a butter was excellent throughout and I really temperature of 122 degrees F. Of the butter think that the section for dairy prints contained hygrometer, the writer speaks as follows: "After the most uniformly good butter of the show. considerable experience, we cannot speak in The first prize butter with a score of 98 was unqualified terms as to its general satisfactori- almost perfect. I think that Manitoba has ness." In other words, he does not recommend proved beyond a doubt that she can produce it for practical purposes in determining the quite as good butter, both creamery and dairy, as the province of Ontario. Certainly the best In this connection, it is interesting to note the of the exhibit here were equal to the best in following recent warning from Prof. G. L. McKay: Ontario shows, though of course the quantity is

"The cheese made a very good showing, though the cheese exhibited the followers do not fit properly. These are small matters, but they bulk largely in the marketable value of cheese, espec-The bulletin on "Gathered Cream," by Messrs. ially for export. I congratulate the dairymen of Ruddick and Barr, is full of practical suggestions Manitoba on the marked improvement in their tanks to hold cream cans for cooling cream from ing, as I am sure it would be in the end more

The prizes were awarded as follows: Creamery Butter. Two packages for export.— Determination of Water and Fat in Butter," and "Gathered Cream for Buttermaking." who has a Babcock tester or facilities elsewhere for testing milk; but he may as well have the cream tested, also, and know what percentage of Lundar, 91; W. B. Gilroy, 89; J. T. Baxter, 87½. Gerrard, Shellmonth

Dairy Classes. Packages of 40 lbs. or over.— These results agree with those obtained at the The summary of important points includes John Gorrell, Carberry, 95; Mrs. Robt. Coates, Allison, Elkhorn, 93½. Packages of 10 lb. prints.
—Mrs. Coates, 98; G. F. Allison, 96¾; John Gorrell, 96½; Mrs. W. Lewis, Plympton, 96¾. Packages of 20 lb. prints.—Mrs. Gorrell, 97; Miss A. Smith, Portage la Prairie, 943; R. D. Lang, Stonewall, 94½; Mrs. T. Goggin, Carberry,  $93\frac{1}{2}$ .

Cheese. Two colored cheese made before June 15th.—H. Frechette, 93½; F. W. Armstrong, 93; J. A. Belisle, 90½; J. P. O. Allaire, 90¼. White cheese made before June 15th.—W. F. Armstrong,  $94\frac{1}{2}$ ; J. A. Belisle, 93; J. P. O. Allaire,  $92\frac{1}{4}$ ; H. Frechette, 92. Colored cheese made after June 15th.—J. A. Belisle, 95½; E. Dubors, 931; D. Verille, 903; F. W. Armstrong, 902. White cheese made after June 15th.—J. A. Belisle. 93½; D. Verille, 92; J. A. Reghr, 91½; N. Lemieux, 90½. Twin white cheese made after June 15th.-F. W. Armstrong, 94; E. Dubois,  $92\frac{1}{2}$ ; J. A. Belisle,  $92\frac{1}{4}$ .

Mr. J. A. Belisle won the sweepstakes in this exhibit; also the gold medal, the exhibition diploma, and, for the second time in succession,

the Northern Bank silver cup.

The butter-making competition was held on Tuesday, Wednesday, Thursday, and Friday, 16th, 17th, 18th and 19th. Milk was supplied the competitors; also separators, churns, butterworkers, pails, salt, etc. The milk was separated and the cream ripened and churned out the following day. The competitors were judged according to the following points: Method of