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is a very variable factor. is simplified by using the forms supplied by the Government. Write to the Dairy Commissioner, Government.
Ottawa, for samples of the record forms for three days per month, and those for daily weights. It will be still better to take samples as well as to learn by the test how much fat each cow gives.

Individual Cow Records Pay.

Editor "The Farmer's Advocate"

The slogan "Production more than usual" is particularly applicable to dairy cattle in Canada, particularly appropriate to daily cattle in Canada, not only in the year 1915 but for all succeeding The dairy farmer has reached the crisis of producing milk at high cost, and receiving of producing and often less than cost for the same. Unly two ways are open for the correction of this difficulty, namely, that the consumer appreciate conditions and pay more for the milk, and that the farmers increase production at a lower cost. The increasing of production is necessary not only from patriotic, international and national viewpoints, but also as dairy farmers, for our self-preservation. A great deal is being written regarding this subject of increased production, but little apparent attention has been given to the subject of more profitable production. Our most careful statistics show that at the present time fully thirty-three per cent. of cows in Canada are producing milk at a loss to the owner. This is due partly to the lack of dairy qualities in the cow, and partly to the lack of intelligent feeding on the part of the farmer.

One of the surest ways of eliminating this vast waste of time and money is the keeping of individual cow records. During the past few years many Canadian farmers have adopted such methods. The Animal Husbandry Division of the Central Experimental Farm, Ottawa, has for years distributed free of charge co-operative milk and feed record forms. Many users of these records attribute their success to the knowledge of both the cows and the methods of feeding thus gained by keeping such records. Many of these farmers have more than doubled their production per cow in five years, due to the elimination of the "boarder" and the more economic feeding of the good cows. The profitable dairy cow must give at least five thousand pounds per year in order to show any profit over feed, labor, interest, and depreciation. Only by the weighing of each individual cow's milk can we hope to distinguish the profitable from the unprofitable animals.

Successful breeders of dairy cattle must devote all their attention to the development of good foundation stock, yet a majority of Canadian dairy farmers are losing money and wasting in the handling of at least some poor foundation animals. Little time is necessary in order to make individual weighings of milk. Spring-balance scales are cheap and record forms are supplied free, yet it is all too evident that many farmers do not appreciate the value of Many types of forms are available to suit the size of herd or the individual methods of the

The work of the Cow Testing Associations of the Dairy Branch, Department of Agriculture, Ottawa deals largely with the communities where a large percentage of the farmers are weighing their milk, while the Central Experimental Farm co-operative milk record work is aimed to assist individual farmers in any district where the more favorable methods are not available.

These same co-operative forms are used in the record keeping at the Central Experimental Farm and at all Dominion Government Farms in Canada. A few of the benefits from their use definitely proven on the Dominion Farms are as follows

(1) The weeding out of unprofitable cows. Many thousands of dollars have been saved on the Central Experimental Farm alone by the weeding out of all cows which will not leave a margin of profit over and above feed, labor, interest, and depreciation. Probably even more money has been saved for the farmers purchasing foundation stock from these herds, since only males and females from profitable producers have been sold. It is well to mention that some of the very promising individuals and the best looking cows have been eliminated as unprofitable. By feeding fewer head in which all were profitable greater gross returns and profits have accrued.

(2) Feed is saved. The feed bill to the dairy farmer is a most important question at the present time. By knowing the production of each cow, feed should be given proportionately. This means the occasional weighing of feeds, but this procedure is found a jobly remunerative. Many cows were more . thle on less feed per hundred

pounds of milk and than were others (3) Better pr tion of cows for lactation periods. The e of the cow's milk for each lactation has shown a marked advantage in the in preparation of a com or heifer for hor ling year's work.

(4) The in. he hired men in the in

dividual production, feed bills, and profit from each cow in the herd immediately follows the starting of individual cow records. This interest would otherwise be lost as there would be no

basis for comparison or calculation. Let me illustrate the difference in production of good and poor cows even in pure-bred herds with a few tabulated comparisons of the records at Ottawa. It must be remembered that only cows promising a profitable production were maintained in the herd and all were given the best possible care and feeds for best results. breed is here given, not with the intention of making comparison between breeds as this would be impossible owing to different ages of herds, dates of calving, etc., but rather to illustrate the value of record keeping within each herd. In the following tabulations attention is drawn to the fact that butter is valued at twenty-six to thirty cents per pound and skim-milk at twenty cents per hundredweight, Silage and roots are valued at \$2 per ton, straw at \$4 per ton, green feed at \$3 per ton, and hay at \$7 per ton, these representing approximately the cost of their production. For further details see annual reports of the Central Experimental Farm. Attention is also drawn to the fact that the profit column represents profit per cow only above cost of feed, while the labor, value of the calf, value of manure, interest and depreciation on cow, buildings and implements are not included.

These tables in full show a ten-year average for the three best and three poorest cows as well as the pounds of milk, per cent. of fat, pounds of butter and the amount of meal consumed for all the cows but space will not permit of their

appearance in this abbreviated table.

Sore Teats.

Editor "The Farmer's Advocate":

I notice that several readers have lately been asking for advice on sore teats through the columns of "The Farmer's Advocate." Perhaps this short article may contain a few hints for those who are in doubt as to what to do to cure their cows.

The commoner teat troubles may be divided into three divisions. Warts, Sore Teats, and Blocked Teats. Warts on the teats of a milking cow do not generally cause much trouble at first, but after they are well developed they tend to make the teat tender to handle.

Wherever possible, the easiest way of getting rid of warts is to tie a piece of waxed silk tightly around the wart as close to the teat possible. After a few days the wart will drop off, and should cause no more trouble. It is as well to treat for warts while the cow is dry. For the warts that are too small to tie round with silk, an easy way of removing them is to touch them with a feather dipped in butter of antimony. This is very strong, and care should be taken not to touch the cow's teat at all.

Sore teats are a much more difficult proposition, as milking opens the sores, and a cow in full milk cannot be laid off for a week to enable her teats to heal up. Many sore teats start by the cows being turned out into the pasture with wet teats, and the result is that the wind chaps and cuts the teat. Always be sure and dry the Oxide of zinc ointment apteat after milking. plied after each milking is one good remedy. Here is a way that we have tried and found very

appearance in this abbreviat	CH (WIII)					
	Days in Milk.	Value of Butter and Skim-milk		Cost of 100 lbs. Milk.		Cow.
Ayrshires:-		\$	\$	С.	c.	\$
Three best Three poorest Best Cow Poorest Cow	262 395	$ \begin{array}{r} 151.89 \\ 80.71 \\ 192.35 \\ 76.12 \end{array} $	68.10 53.36 84.88 53.32	73, 101.3 69.2 96.5	15.2 22.7 15.1 24.4	83.79 27.35 107.47 22.80
Guernseys:— Three best Three poorest Best Cow Poorest Cow	324 615	169.46 94.85 171.78 94.43	90.10 49.37 86.18 58.46	104.9 108.7 106.1 131.4	17.4 17.2 16.5 20.4	79.36 45.48 85.60 35.97
Holsteins:— Three best Three poorest Best Cow Poorest Cow	$\frac{402}{340}$	173.13 149.69 211.86 90.91	77.78 82.26 91.65 52.04	65.8 75.7 66.3 80.9	15.6 18.8 14.8 19.9	95.35 67.43 120.21 38.87
Jerseys:— Three (average) Best Cow Poorest Cow	. 508	144. 199.32 98.14	64.31 85.15 51.07	91.3 89. 132.	14.9 14.1 16.8	79.69 114.17 47.07
Shorthorns:— Three best Three poorest Central Experimental Far	. 236	81.17 46.55 wa.	50.44 45.12	80. 134.	17.2 27.7 E. S. ARCHIE	30.73 1.43 BALD.

The Norfolk Holstein Sale.

The second annual consignment sale of purebred Holsteins, held by the Norfolk Holstein-Friesian Club, took place in Simcoe on Thursday, Feb. 11, 1915. Forty-six individuals in all were sold. The highest priced animal was Leone Pietertje Mercedes, which went to Lloyd Taylor This cow is grandam of Mercedes for \$190. Lady Mechthilde, which won the sweepstakes at the Ottawa Winter Fair in 1915. Twenty-five selling for over \$100 made the grand total of \$3,330, or an average for the 25 of \$133.20. Those selling for less than \$100 were young stock and averaged in the vicinity of \$65.50. Following is a list of those selling for \$100 and over with the purchaser's name:

Madora De Kol 3rd, Wm. Mullree	\$1	115
Cornelia Tensen De Kol, Jno. F. Rushton		
Daisy Elgin De Kol, Lloyd Taylor		130
Kate Springbrook, A. Cridlard		150
Mona Sylvia, A. E. Hulet		100
Daysons Posch John Moote		115
Eileen Mercena Posch, Wm. Cogholt		105
Flora Mercena Abberkerk, W. Burt		175
Distortio Calamity, W. J. Diggar.		165
Torra Dietertie Mercedes, Lloyd 18,101		190
Moreodos Clara R. Burnoby		115
Margadae Rosa 2nd, W. J. Diggai.		115
. Disas Dandrah Chas. Fr. Decelor		125
A .: Clare's Minnte John Ruston		11(
Attack Class C E Smith		120
The Colomity Princess, R. HILLYCO		155
The Machthilde of Mooti		115
The test and in Abbakark 2nd, I'. S. I'des		
		18.
Proposition Proposition Proposition		100
The boys David Waterbury		150
rank that was the trank that the trank		120
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T. L. I Crant Spencer.		110
Valentine of Forstererest, A: F. Hulet		115
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successful. To one ounce of glycerine add one dram of boracic acid. Mix this in about onehalf pint of warm water, and put in a narrow jam jar. After milking put the teat in this mixture, holding the jar close up to the cow's udder, and let the affected teat soak for a few minutes. This mixture may be kept, and warmed up and used again and again.

A little touch with a crystal of alum after this bath will help the more obstinate sores to heal, but care must be taken not to use anything that will cause the skin of the teat to wrinkle and pucker up when it heals.

Blocked teats are caused by a little ball of flesh inside. In nature these growths are very like the warts on the outside of the teat. are only attached to the lining of the skin by a little string, and can be pushed out of the way Sometimes by the insertion of a teat syphon. they break off, and come away of their own accord. They are always a bother, as they interfere with the flow of the milk, and moreover, make it very hard to strip the quarter clean. I have seen the more obstimate ones removed by the use of a large-sized milk syphon, with one side filed to a sharp edge, in exactly the same manner as an apple is cored with a patent After being introduced into the teat, it is slowly turned round, with the sharp edge against the lump. It is as well to do this with the right hand and to hold the teat extended in the left hand. It is a simple little operation, and yet it is very easy to lose the quarter in performing it. The syphon must be sterilized in boiling water before insertion, and every precaution should be used to insure absolute cleanliness. There will be a little blood come from the teat, and this should be milked out and the teat syringed out with a seven per cent, mixture of boracic acid and warm water. It is best to remove the lump while the cow is dry. The lining of the teat will soon heal so long as it is kept free from germs. Unless everything is spotless-