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130-Egg Incubator and Brooder for \$14.50

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Write on "WISCONSIN INCUBATOR CO., Box 224, Racine, Wis., U.S.A."

The Dairy Herds at the O.A.C.

(Continued from Page 7.)

record of nearly 600 lbs. fat in a year. With this foundation, and reasonable luck, the Jersey herd in a very short time will compare very favorably with the other breeds represented at the College.

In 1913 it was decided to give more attention to the question of improving the milking quality of the Shorthorn breed, which had somewhat deteriorated through the continued use of the high quality beef type Scotch Shorthorn in Canadian breeding operations for a considerable number of years. To this end, Professor George E. Day was commissioned to buy in England a number of the English Bates type Dairy Shorthorns. He made a selection of nine females and three bulls, with an importation were, with the exception of one bull, added to the Dairy herd at the College. Critical examination of these animals revealed that they are of an extremely serviceable order of beef conformation, and the records of most of them demonstrate that they are capable of good milk production.

Seven of these females up till September, 1918, have each completed a full lactation period. The seven, only two of which were over four years old, produced an average of 8,513 lbs. milk and 366 lbs. of fat, with an average test of 4.1 per cent. butter fat. Three of them produced over 10,000 lbs. milk, and two produced over 500 lbs. fat in the R.O.P. One cow in particular, Golden Bess, produced 12,400 lbs. milk and 560 lbs. butter fat. It is worthy of note that the cow showing the highest type of beef perfection is also one of the heaviest producers. She is now on her third lactation period. At the College, all three of which will average over 13,000 lbs. milk and 400 lbs. fat. This cow, Iford Waterloo Baroness, is also leader in the 4-year-old division. From the R. O. P. for the Shorthorn breed. The work of these cows it seems entirely feasible to combine in the one female

time, no definite results for publication have been obtained.

Investigation work along the line of the intensive method of stable feeding, or soiling, in summer as compared with pasturing, is now in progress, and so far indicates that the superiority of good pasture for the economical production of milk under existing farm conditions in Ontario.

Community Breeding in Successful Operation

(Continued from page 9.)

The main reason for the existence of pure bred dairy cattle is that they may form the basis of general improvement on the common or grade dairy herds. It is therefore imperative that superior productive ability, combined with the highest possible standard of individual excellence, be maintained in our pure bred herds, ensuring a constant supply of superior bulls for grading and improving the common dairy herds. How can this object be attained in the most direct and practical way? Good feeding and management of course counts up large here, but this is not enough. Selection is the foundation of improvement. For the past 12 or 15 years the high price available have almost prohibited any system of weeding out the undesirable females from the dairy herds of all the breeds. Practically all females have been retained for breeding purposes, whether coming up to a required standard or not. All this has resulted much to the detriment of all the dairy breeds.

In view of such conditions it is highly important that the herd sire be selected with the utmost care, for it is only through the very superior quality of the bull that general improvement can be made. The tendency in the absence of a rigid system of weeding or selection. The very best sire that money can buy is handicapped because of the difficulty of weeding out females that fail to conform to a reasonable standard of excellence, both as to production and type. I submit that only by securing a bull of most pronounced superiority by the medium of cooperation if necessary, and by utilizing their services to the fullest reasonable extent, can the real endeavor of all who are really endeavoring to push to the limit the opportunities open to breeders of possibly the most useful of domestic animals—the dairy cow.

Records Made by Cows of the Various Breeds at the O. A. C.

Name of Cow	Age	Breed	lbs. milk	lbs. fat
Young Springwood	5	Holstein	20,110	1,781
Blackie	14	Grade	17,419	639
Molly Rue Rattler	3	Holstein	16,976	640
Molly Rue	6	Holstein	16,466	602
Margaret Compucci	10	Holstein	14,978	554
Barbara	6	Grade	14,102	509
Waterloo Baroness	4	Shorthorn	10,410	381
Fairy Duchess	4	Shorthorn	9,536	384
Flora Hope	4	Shorthorn	7,772	318
O. A. C. Minnie	4	Ayrshire	10,306	407
Noblesse Tapon	4	Jersey	7,428	417

a high order of beef type and a fair ability to milk.

The continued use of cows for classroom work detracts somewhat from the ability to make large records, but in spite of this the records are fairly creditable ones, nor were they obtained through extravagant feeding methods, as practically every cow showed a good profit over cost of feed at market prices. In fact, it is the policy of the Farm Department to conduct its feeding operations along strict utility lines. This applies also to management, as one of the lines of investigation now under way is the possibility of good record from twice-a-day milking, rather than the more expensive three and four times per day, which is usually followed in most pure bred herds where R. O. P. work is being conducted. In this connection it is worthy of note that the following records have been made in the past year, by milking only twice a day.

With the exception of the Grade, Blackie, the above cows fulfilled all the requirements of the R. O. P. The milking machine is being used in an experimental way, but as the work laid out will cover three years

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If a Shetland pony would do our horse work, we should hardly want a Percheron with its increased cost of keep. On the other hand, the nature of the work itself is such that the big horse, with its increased cost of maintenance, would be more economical. This homely illustration may serve to make plainer what this Missouri teacher and practical dairyman has learned in his extensive studies of nutrients required for milk production.

The excellent beings being paid for hens should warrant a very close culling of overfat hens and those inclined to be broody. Overfat hens, as a rule, are poor layers and often succumb to the summer heat.

THE BISSELL DISK

has made a great record throughout all Canada. There are good reasons why it is so. Balanced Right—Does not bump up. Improved Plate—Cuts and turns soil over. Hitches well Back—Easy draught. This Disk has several insulators, but no equal. None genuine without the name "BISSELL." True trials given on hard land with anything that cultivates. Write Dept. R. for free Catalogue.

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See advt. also on page 19.

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