



CALVES REARED IN PASTURE (LEFT) BETTER DEVELOPED THAN THOSE REARED IN BARN (RIGHT)

Pasture rearing better Ayrshire test indicates

Calves raised on pasture last year at the Experimental Farm weighed 30 per cent more than those kept in the barn, when they were weighed recently at the Experimental Farm, where a charge from A.D. Gorriell, who is in charge of livestock there.



MR. GORRIELL

"The pasture calves were put out at one week. The others were kept in the barn until 15 weeks of age. After that they received the same treatment. Pasture rearing is much better for calves born young in the spring. Mr. Gorriell believes, though eggs must be clipped, they clip it once a week in the early part of the grazing season at the farm, it doesn't have to be clipped nearly so often later in the season, it was explained.

A total of 34 Ayrshire male calves were used in the test which goes into its third year this season. Calves were fed on whole milk and on milk replacer, both indoors and on pastures. Other calves were fed varying amounts of starter. For example, in 1961 one group of calves was fed three pounds per day and the other four. Last year the starter was reduced to two pounds for one group and four for the other.

stuffs than calves reared in the barn. Pasture rearing, in general, produced healthier, thriftier looking animals. The fact that the calves did so well on pasture during 1962, gives a good indication of their ability to adapt to adverse weather conditions.

Some of the experiment's results to date include:

Calves on pasture gained practically one and one-half pounds per day with a whole milk diet compared to 1.12 pounds indoors last year. The figures for 1961 were 1.49 pounds daily on pasture, 1.14 pounds indoors.

WEATHER POOR

Mr. Gorriell observed that during the 1962 experiments the weather was most unfavorable, with the young calves grazing while soaking wet, and under an exceedingly heavy rain much of the time.

Calves fed milk replacer also showed better gains on pasture. The gain was 1.15 pounds daily compared to .88 of a pound indoors. Calves fed the daily consumption of starter in 1961 was 2.91 pounds for calves on pasture, 3.45 for calves indoors last year. There wasn't a great deal of difference in estimated rearing costs, although the pasture calves had the edge with a total cost of \$15.56 for pasture and \$15.79 indoors last year for a calf fed on whole milk and \$11.56 for pasture calves and \$12.33 for indoor calves on milk replacer the figures in all cases are up to 15 weeks.

Gains prior to weaning were

Before work begins best time to sanitize

Canada's frozen vegetable producers must observe strict sanitation practices if they are to market high quality products warns microbiologist W.E. Ferguson of the Plant Research Institute, Canada department of agriculture.

He reports that some producers are buying bulk frozen products on the basis of bacteria counts to ensure quality when manufacturing or repackaging under their own labels.

And, he adds, while most producers are now providing a high quality product, plants whose products continue to show high bacteria counts will find it increasingly difficult to compete.

Failure to develop or maintain effective sanitary techniques can lead to products with high bacteria content. This can be accompanied by off-odor and off-flavor in the stored products, with consequent loss to consumers and the trade.

Mr. Ferguson says a single weakness in the processing chain can nullify what otherwise might be excellent sanitation practice. He considers that sanitation in vegetable freezing plants falls into three categories: (1) cleanliness of plant and equipment; (2) processing practices; and (3) hygiene habits of the food handlers.

Feeding experiments will test growth and development of calves indoors fed three-pounds of starter daily, calves on pasture with no grain, and the other test will be with calves on pasture fed three pounds of whole oats daily.

This year's tests will determine, for example, if gains can be realized with calves on pasture without grain, to compare with calves indoors fed concentrates, it was explained.

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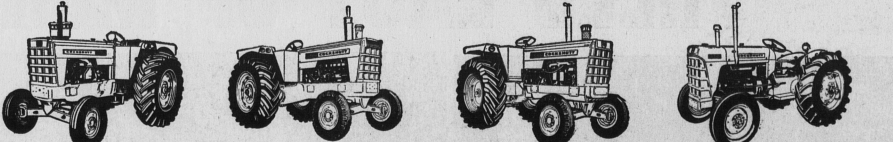
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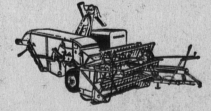
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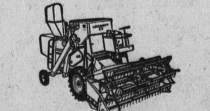
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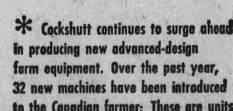
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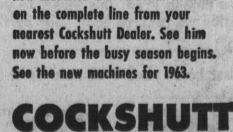
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