# In the Dairy

## A Large New Zealand Cheese

New Zealand has lately shipped a cheese to London weighing one ton. In spite of the long transportation it arrived in good shape and, when cut after being on show for eleven weeks, showed an excellent quality.

# Butter Preservatives

In regard to the use of preservatives for distant butter shipment there is this to be said: Their prevalence in British importes—not only from dynamic present in the said member of the said of the prevalence from a trade demand which taily instifies it. Some years ago the use of preservatives in butter was violently agaitated in Great British; many of the goods were, apparently, overloaded, and many precatitons were made by the authorities. At that time British importers from Canada and this country were demanding guarantees of freedom from preservatives and there was also a law in this state prohibiting their use. In view of this we argued against any use of preservatives in our butter product, not because of any conviction that such use was deleterious, but simply to meet the trade demands then exclusing. But the agateritates of the necessity for the moderate use of preservatives in butter brought from distant blaces, and court 11,830 up to 16,788 lbs., and the average cow's yield varies from 4,167 lbs. up to 5,799 lbs., using from 25.3 lbs. up to 26,3 lbs. of milk to 1 lb. butter

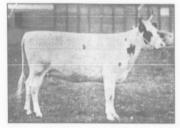
The prices at which the butter sold at the various creameries varied from 2579c. up to 2541c. per Danish pound (all pounds given are Danish and are about to per cent. heavier than curs). The net return per 100 lbs. of milk with skim and buttermilk returned free, varied from 59.33c. up to 08.50c.

10 98.9cc. 10 98.9cc. The vertrage expense per 1.000 lbs. of milk for salaries varied from 16.2cc to 21.4cc, with an average of 10.2sc; for fuel, from 11.0ac to 13.5c., with an average of 11.2sc. for maintenace of building, from 1.3ac to 2.9ac, with an average of 1.6c.; for maintenance and renewal of machinery and apparatus, from 5.33c. to 1.36c, with an average of 8c. The total expenses without hauling varied from 54.4c. to 69.87c., with an average of 62.1c. per 1,000 points of milk.

total expenses without hauling varied from 54,4c. to 69,37c, with an average of 62.1c, per 1,000 pounds of milk. The hauling averaged in large creameries, with over six million pounds of milk, 40.27c, per 1,000 Bs; in the medium sized, with two to four million pounds, 4.2.1c, and in the small, with less than two million pounds, 4.4.2c.

As regards the lighting system, 71 creameries had electric lights, 15 acetylene and 434 kerosene, etc.; and finally as regards payment by test, 409 or 78.2 per cent do so, while 97 The Cream Gathering Creamery

The cream gathering system undoubtedly possesses many real merits and these are of such a nature as to readily and forcibly appeal to both the patron and the proprietor of the creamery. I shall state them in as few words as possible. It can be successfully adopted in sparsely populated districts, where no other form of co-operative dairying is practicable and this we thought at one time to constitute its limit. The introduction or statute its innit. The introduction of co-operative dairying is not as invading what was supposed to be the exclusive field of the other forms of co-operative dairying, and has come to be regarded, in this province at least, as the "yellow peril" of the separator creameries and some of our cheese factories. Again, skim-milk from a hand separator is in an ideal condition for the feeding of young stock, and this the farmer rightly prizes very highly. The cost per part of the inter of maling the creamery or a cheese factory, and larger territory than either a separator creamery or a cheese factory and for this and other reasons the cost of manufacturing is very considerably reduced. These features all commend themselves so strongly to the farmer that we believe that the cream-gathering creamery system has gained strong



Two typical Scotch Ayrshires, owned by A. Mitchell, Barcheskie.

practice there has for some time past recognized 5 per cett. of boric acid preservative as harmless and permisstible. As a result the British import trade has generally advised the use of preservative to that extent and it has become the practice in nearly all supplying countries where the use of preservative is not prohibited by local laws.

Under these circumstances the use of preservative in butter intended for export to Great Britain can fairly be left to the instructions of the importers, and no reasonable objection can be made to it. Certainly its presence in our exported butter is no evidence whatever of inferiority.—N. Y. Produce Review.

### What the Danish Creameries Do

We are indebted to the N. Y. Produce Review and American Creamery for the following statistics of creamery work in Denmark: There are 17 local creamery associations with from g to 63 creameries, station and the treameries in

There are 17 local creamery associations with from 9 to 65 creamerics, 523 in all. The creamerics in the various associations average from 133 up to 320 patrons and from 720 up to 1.22 cows. They are insured for an average of from \$\$\$,409 up to \$\$0,06. The daily milk receipt averages in the various districts from

or 18.5 per cent. do not, and 17 or 3.3 per cent. did not answer.

#### English Butter Control

The following table shows the result of a number of English Government analysis of samples of butter brought into Great Britain from various countries showing the proportion of these samples that contained boric acid and coloring matter:

	Samples Taken.	Found Preserva- tives in	Found Artificial Color in
Holland	680	413	356
Denmark	271	I	124
Australia	232	230	74
	227	224	91
Sweden	212	4	60
	152	4	61
Norway	79	0	9
Canada	77	26	18
United States	69	54	43
Belgium	57	57	54
South America .	31	29	T
New Zealand	14	12	0
Germany	5	5	5
Iceland	4	2	4
Tetel		1	0.00

and lasting hold upon the affections of those to whom our dairy industry really belongs.

The system undoubtedly has its defects, as it now operates, as well as its merits, and while the latter effect a saving and enhance the patron's profits at the manufacturing end they are swallowed up at the other through the making of an inferior article which cannot command the highest price. What may be regarded as the detect of the system is that it robs the butter-maker of the control over the ripening and flavor of the cream and the keeping qualities of the butter which has for years struggled to gain in our separator creameries through careful examination of each patron's milk, the pasteurization of the milk or cream and the use of a culture or "starter" to ripen the cohere that, in may creameries, bads with several patrons' cream bads with several patrons' cream bads with several patrons' cream insed together in a tank or can and the cream sampled into oil-test tubes by the cream collector, the buttermaker has little or no opportunity to examine the individual patron's cream or to give him advice as to the care

Unless these difficulties can be overcome, the system can, at best,