

to extreme points, the average being 2.11 per cent. lower. Had an 18-gramme sample been used, the difference would be only half.

Read from Extreme Points.	With Alcohol.	Read from Extreme Points.	With Alcohol.	Read from Extreme Points.	With Alcohol.
52	50	43	42	37	35
46	44	32	30	47	45
32	31	53	51	35	33
28	26	33	31	42	40
53	51	29	27	50	49
47	45	47	45	36	33
33	31	43	39	37	35
29	27	50	47	39	36
36.5	34	36	33	47	45
38.5	36	35	33	35	33
36	35	37	34	39	36

A study of these figures does not show any apparent relation between the variation and the fat-content, a high test in some cases having the same small difference as a low one, and *vice versa*. The whole of these samples were held in a warm bath until read off, and were carefully checked by the managers of the respective factories at which they were done. Measurements were taken by the dividers.

It is absolutely necessary to maintain the temperature of the test-bottles between 130° and 140°. If they are allowed to cool, the alcohol and fat will be inclined to mix, which will defeat the object for which the alcohol is used. It will also cause a shrinkage of the "fat" column, and a consequent low reading.

All the tests quoted in this paper were weighed on a sensitive chemical balance, and fat-saturated alcohol used in reading, except where otherwise mentioned. The greatest care has been taken to ensure accuracy.

During the month of April the Moumahaki Experimental Farm was inspected by 230 farmers, and 180 letters of advice were despatched. Waerenga Experimental Farm was visited by 108 fruitgrowers and others. At Ruakura Farm of Instruction there were 500 visitors, 398 letters were received, and 337 letters were despatched. This farm was inspected by 704 people in March.

The calves of the dairy herds at Weraroa Experimental Farm are looking exceptionally well, and have exhibited no indications of scouring, a trouble experienced in former seasons. The improved condition is attributed to the use of chaff and pollard, the feeding of which was commenced when the calves were from two to three months old. This mixture was taken greedily by the calves, which were quite indifferent as to their milk ration at weaning-time. Shelter-sheds are being erected in the fields at this farm for the heifer calves during winter.