

It is yet too soon to draw definite conclusions from our work, but so far it would indicate:

1. An increased percentage of fat in the milk gives an increased yield of cheese, though not in the same proportion.

2. That a pound of butter-fat in milk ranging from 3.2 to 3.7 per cent. will make more cheese than a pound of fat in milk ranging from 3.6 to 4.5 per cent. of fat.

3. That there need not necessarily be more loss of fat in whey from rich milk up to 4.5 per cent. fat than from poor milk, though we did notice a little more "grease" on the hoops, press and shelves from the rich milk cheese (4.5 per cent. fat).

4. That milk containing the same per cent. of fat, does not always give the same yield of cheese, especially when comparing one day with another or one month with another. April 30th, 300 lb. of 3.9 per cent. milk made 28½ lb. cured cheese; May 1st, same quantity and quality of milk made 27½ lb.; June 9th it made 28½ lb. May 1st, 300 lb. of 3.60 per cent. milk made 24½ lb. cured cheese; May 2nd, 27½ lb.; June 6th, 28 lb. May 4th both vats tested 3.7 per cent. and each made 27½ lb. cured cheese. June 8th, 3.7 per cent. milk made 28½ lb. cheese.

This question has been a vexing one in factories, where payment by test has been adopted. It has been found that the yield of cheese does not always increase with the fat, and the discrepancy is doubtless due to differences in conditions of milk, methods of making, and state of the weather.

As some of our factories are still in doubt as to the advisability of distributing proceeds among patrons according to the percentage of fat in the milk, perhaps the following table will throw some light on the question:

| Patron. | lb. milk. | Per cent. fat in milk. | Wt. cheese. lb.              | Amount of money each would receive if cheese sold for 10c. per lb. |                   |                            |                            |                        |
|---------|-----------|------------------------|------------------------------|--------------------------------------------------------------------|-------------------|----------------------------|----------------------------|------------------------|
|         |           |                        |                              | Pay- ing by wt. of milk.                                           | By per cent. fat. | By Read- ing + 1 per cent. | By Read- ing + 2 per cent. | By wt. of cheese made. |
|         |           |                        |                              | \$ c.                                                              | \$ c.             | \$ c.                      | \$ c.                      | \$ c.                  |
| May:    |           |                        |                              |                                                                    |                   |                            |                            |                        |
| H. .... | 2,100     | 3.80                   | 194.75                       | 18.90                                                              | 19.73             | 19.54                      | 19.44                      | 19.475                 |
| L. .... | 2,100     | 3.48                   | 183.25                       | 18.90                                                              | 18.06             | 18.25                      | 18.37                      | 18.325                 |
| June:   |           |                        |                              |                                                                    |                   |                            |                            |                        |
| H. .... | 1,800     | 4.18                   | 183.75                       | 17.685                                                             | 19.01             | 18.73                      | 18.56                      | 18.37                  |
| L. .... | 1,800     | 3.60                   | 170.00                       | 17.685                                                             | 16.36             | 16.64                      | 16.81                      | 17.00                  |
| July:   |           |                        |                              |                                                                    |                   |                            |                            |                        |
| H. .... | 1,800     | 3.84                   | 184.00                       | 17.41                                                              | 18.91             | 18.58                      | 18.37                      | 18.40                  |
| L. .... | 1,800     | 3.23                   | (green)<br>164.25<br>(green) | 17.41                                                              | 15.91             | 16.24                      | 16.45                      | 16.42                  |