Table whowing relation of fat in milk to yield of oheese.

| Date. | Per cont. of fat in milk. |  | ounds of B.- Jn chesso made from 300 pounda of milk. | Ratio of fat to green cheone. |
| :---: | :---: | :---: | :---: | :---: |
| Juine 4 | 8.080 | 9.240 | 28.25 | 1:3.0 |
| May 7........ | 3.193 | 9.579 | 27.60 | 1:2.8. |
| L ........ $\left\{\begin{array}{l}\text { June 6........ }\end{array}\right.$ | 3.194 | ${ }^{9.682}$ | 29.75 | 1:3.1 |
| $\left\{\begin{array}{l}\text { May } 2 . . . . . . . \\ \text { June 8....... }\end{array}\right.$ | 3.482 8.664 | 10.446 10.692 | 27.75 31.00 | $1: 2.8$ $1: 2.8$ |
| Tol | ... | 49.539 | 144.25 | 1 : 2.9 |
| June | 3.655 | 10965 | 32.75 | $1: 2.9$ |
| May $\mathbf{3}$......... | 8.685 | 11.065 | 29.25 | 1:2.6 |
|  | 3.899 | 11.697 | 29.75 | $1: 2.5$ |
|  | 4.000 4.388 | 12.000 13.014 | 38.00 88.75 | $1: 2.7$ $1: 2.5$ |
| To |  | 58.781 | 168.00 | 1:2.6 |

From the milk having more casein for each pound of fat, more cheese for each pound of fat would be expected, than from the milk having less casein for each pound of fat. What are the facts? Fiftoen hundred pounds of milk L., containing an average of 3.302 per cent. of tat or a total of 49.639 pounds, yields 144.25 pounds of green cheese, being 2.9 pounds of oheese for each pound of fat. The same weight of milk H., containing an average of 3.919 per cent. of fot or a total of 88.731 pounds, gields 158 pounds of green cheese, being 2.6 pounds of cheese for each pound of fat. Under exactly similar conditions of handling, the rich milk yields $13 \frac{9}{4}$ pounds more cheese than the poor milk, but the poor. milk makes $\frac{3}{10}$ of one pound of cheese more for every pound of fat than does the rich milk.

Suppose L. and H. to represent two patrons, each supplying 1,500 pounds of milk. L's milk yields 144.25 pounde of cheess and H.'s milk 158. Then, if the oheese nets 9 cents, patron $L$. should receive $144.25 \times 9$ or $\$ 12.98$; and H, $158 \times 9$ or $\$ 14.22$. Had these patrons been paid according to weight of milk alone, each would have received equal shares In all, 302.25 pounds of cheeno were made, netting 9 cents a pound, $302.25 \times 9=\$ 27.20$ would bo, divided equally; bach patron receiving $\$ 13.60$. Accordingly, patron L, supplying the poor milk, would be paid 62 cents too munh, and pitron H. 62 cente too little.

