

milkers, the results were 133 and 103 pounds respectively. The previous day (18th) when these cows were milked with the machine operated by an expert the weights of milk were 134 and 92 pounds, from the two groups respectively.

The table shows the result from hand milking for the 21st and 22nd, in which the quantity of milk remained fairly uniform for each cow, though there was a tendency towards an increase. On October 23rd these cows were milked in the morning with the machine operated by our own men, and in the evening by hand. The general tendency for the day was downward. The total pounds of milk given by the ten cows on October 22nd, when hand milked, was 247 pounds. Next day when milked in the morning with the machine, and in the evening by hand, the total pounds of milk were 235, an apparent loss of 12 pounds on the ten cows. On October 24th, all these ten cows were milked with the machine operated by our own men. The total yield of milk for the day was 232 pounds—another drop of three pounds from the previous day. The cows were now milked regularly with the machine, two cows in one pail in the usual way, until October 30th, when they were milked separately, and the milk weighed morning and evening. Nine out of ten of the cows gave less milk than they did October 24th. The total yield for the day was 205 pounds—a drop of 27 pounds from the previous weighing on October 24th. At this weighing special note was made of the weight of “strippings” given by each cow after milking as dry as possible with the machines. Three cows gave no “strippings” after the machine either morning or evening; four cows gave from one to two pounds of strippings at night; two cows gave 1 pound of “strippings” each at both night and morning milkings; and one cow gave 5 pounds in the morning and 3 at night in the form of “strippings,” out of a total yield for the day of 27 pounds milk for this one cow.

We are aware that these frequent changes from hand to machine milking, and change of milkers by hand, is not good for the cows, but we considered this was about the only way to get some data on the points at issue. The evidence all seems to point in the direction of greater milk yields by hand, but not much difference between inexperienced hand milking as compared with the machine. The weight of evidence also seems to indicate that “manipulation” of the udder tends to prevent the securing of the strippings by hand milking. However, this is a point very difficult to determine.

MACHINE VS. HAND MILKING DURING OCTOBER AND NOVEMBER, 1906

From November 1st to 15th, inclusive, ten cows in the herd were milked by hand. From November 16th to 30th, inclusive, they were milked by machine. In order to compare the milking previous to and after hand milking with the fifteen days of hand milking, we have calculated the yield of milk for the last fifteen days in October based on two weighings made