

In order to compare machine milking with experienced and inexperienced hand milkers, two of the ten cows were milked by a hand expert for the first eight days of November and two others were milked by an inexperienced person. At the end of eight days, hand milkers were reversed for seven days, i.e., the expert took the two cows milked by the inexperienced person and the inexperienced person took those milked by the expert. For the last fifteen days of November these cows were milked with the machine and each milking was weighed separately from each cow. The table shows that the average daily yield was increased by the expert during the second week by over two pounds daily with one cow and seven-tenths of a pound daily with the other. The two cows milked the first week by the expert and the second week by an inexperienced milker showed a loss of one pound of milk daily with one cow and practically the same with the other when milked by the inexperienced milker.

During the next two weeks, when these four cows should have maintained their milk flow, the results were downward with all four cows when milked with the machine.

Table Showing Daily Yield of Four Cows from Expert and Inexperienced Hand Milkers and Machine Milking, November, 1906.

Milker.	Cow 86.	Cow 87.	Cow 78.	Cow 90.
	Lbs.	Lbs.	Lbs.	Lbs.
Inexperienced hand milker, November 1-8.....	18.5	20.4		
Expert hand milker, November 1-8.....			34.4	25.7
Expert hand milker, November 9-15.....	20.8	21.1		
Inexperienced hand milker, November 9-15.....			34.5	24.7
Machine milking, November 16-23.....	18.7	18.7	32.5	23.2
Machine Milking, November 24-30.....	17.3	16.8	30.	32.5

ERROR INTRODUCED BY WEIGHING ONE DAY IN SEVEN.

Error in a two-weeks period. In the case of short test periods with the milking machine, where the milk is weighed every seventh day, a certain amount of error is introduced. In all the two-week tests, comparing hand and machine milking, the pounds of milk were calculated by taking the average of three daily weighings and multiplying this by 14 to get the pounds of milk given by each cow for two weeks. In a short period, if the weighings were made, say, on the first and eighth days of the period and the calculations for the following weeks be based