

the latter part of October, and using the monthly test for October in calculating the pounds of fat. This is not strictly correct, but is near enough for the purpose of comparison. During the last fifteen days of November the cows were milked individually with the machine and the weights and samples of milk were taken daily through the half month, the same as in hand milking. This plan gives a more exact method of comparison.

Table Showing Relative Yield of Milk and Fat for Two-week Periods during October and November, of ten cows.

No. of Cow.	Machine Milking, 15 days, Oct. (calculated.)			Hand Milking, Nov. 1-15th.			Machine Milking, Nov. 16-30th.		
	Lbs. M.	% Fat.	Lbs. Fat.	Lbs. M.	% Fat.	Lbs. Fat.	Lbs. M.	% Fat.	Lbs. Fat.
66.....	442	3.5	15.49	429	3.6	15.44	382	3.4	12.98
69.....	217	3.3	7.18	220	3.6	7.92	201	3.5	7.01
70.....	300	5.1	15.30	301	5.	15.05	263	5.2	13.67
78.....	457	3.	13.73	517	3.2	16.54	470	3.1	14.57
86.....	255	3.4	8.67	294	3.6	10.58	271	3.6	9.75
87.....	285	3.1	8.84	311	3.2	9.95	267	3.1	8.27
90.....	345	3.	10.35	378	3.2	12.10	344	3.0	10.32
96.....	285	3.9	11.12	288	3.8	10.94	262	3.6	9.43
97.....	435	4.2	18.27	435	3.8	16.53	359	4.0	14.36
102.....	255	3.7	9.44	268	3.7	9.92	238	4.0	9.52
Totals and averages..	3,276	3.61	118.39	3,441	3.54	124.97	3,057	3.59	109.92

The foregoing table shows an increase of 165 pounds milk and 6.58 pounds fat for the ten cows in the two weeks when milked by hand, from November 1st to 15th, inclusive, as compared with the previous fifteen days in October when milked with the machine. From November 16th to 30th, when milked with the machine, these ten cows gave 384 pounds less milk and 15.05 pounds less fat than they did the previous fifteen days when milked by hand.

If we average the milk and fat yields for the last fifteen days of October and the last fifteen days of November, we get 3,166 pounds milk and 114.14 pounds milk fat as the average production of the ten cows during fifteen days when milked with the machine. Comparing this with the intermediate period, November 1st to the 15th, when milked by hand, we have a difference of 275 pounds milk and 10.83 pounds fat, in favor of hand milking, for the ten cows in fifteen days.

The average percentages of fat were practically the same in all three periods.