



Milk recording reform in Finland – was it worth it?

Juho Kyntäjä, Senior Specialist, Mtech Digital Solutions Ltd.
juho.kyntaja@mtech.fi

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Introduction to Finnish Milk Recording



- **5500 recorded herds, 42 cows in average**
- **800+ robotic herds**
- **93% farmer recording (B)**
- **75% of data capture done by farmers**
- **Milk meters mainly owned by farmers**



Goals for the reform

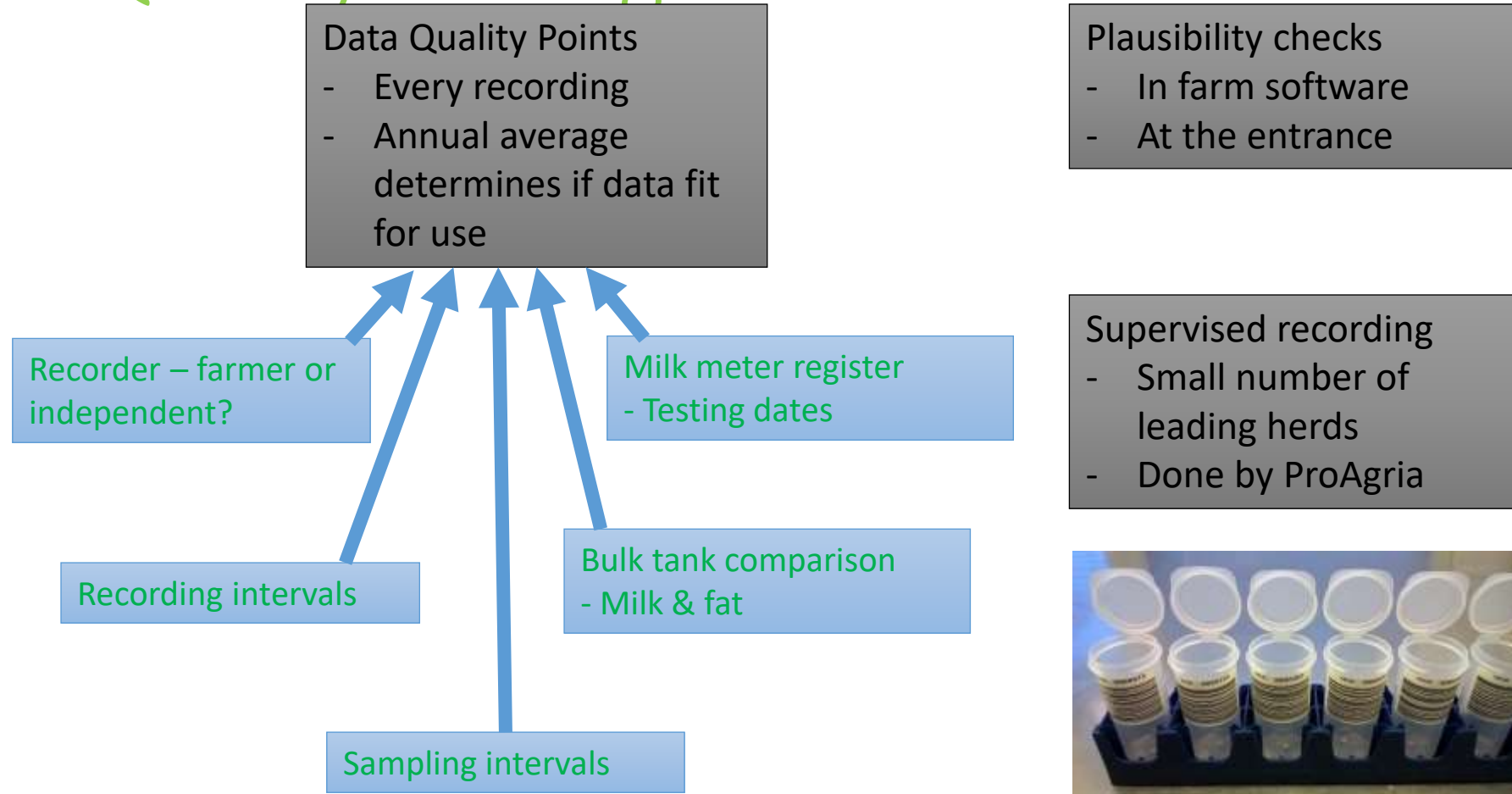
- New service model and technologies
- 90% of all cows recorded
- Less than 10% unofficial data
- Reports reformed, new key figures
- Pre-coded vials
- Data capture within 5 days from recording
- Better work efficiency



Changes made

- Differentiation of jobs
- Pricing
- Sampling services
- Remote access
- Attention to timely reporting
- Variety in recording intervals
- Introduction of vacation month

Data Quality Management - 2015



Milk Recording Periodic Report - Herd Summary

Recording day 5.10.2016
Cows in herd 156
Cows dry 30 Feeding days since Jan 1st 279
Target average yield 2016: 11500 kg/cow



20.10.2016
BT44
5

Test day yield				Milk, kg		F%	P%	Cells	Urea	F / P	Milk recording average											
Cows in milk	Pcs	Act.	Target								Recording day	Cows	Milk	F%	P%	Cells	DIM	Points	Delay			
Herd average	126	36,7	39,2	↓	4,13	3,60	217	32	1,15		13.10.15	106	32,8	3,94	3,30	116	166	10	2			
Herd total	4618,2																					
First-calvers	39	30,8	34,7	↓	4,13	3,59	115	31	1,15		13.11.15	110	35,9	4,08	3,51	194	149	10	0			
2nd lactation	35	39,3	40,8	→	4,12	3,64	198	32	1,13		13.12.15	108	39,5	4,07	3,44	303	152	10	1			
Older cows	52	39,3	42,5	↓	4,12	3,58	289	33	1,15		14.01.16	118	42,0	3,94	3,30	139	137	10	0			
<60 days in milk	29	45,7	44,2	→	4,03	3,48	180	29	1,16		09.02.16	123	42,6	4,01	3,33	141	146	10	3			
60-120 DIM	20	42,1	47,1	↓	3,71	3,34	147	33	1,11		10.03.16	123	43,2	3,88	3,29	199	150	10	0			
121-180 DIM	18	37,4	42,8	↓	4,19	3,67	177	34	1,14		10.04.16	125	42,9	3,96	3,28	142	158	10	4			
>180 days in milk	59	30,1	33,1	↓	4,35	3,79	289	34	1,15		11.05.16	121	41,6	3,84	3,26	174	167	10	0			
12-month rolling yield											05.06.16	124	42,0	3,87	3,32	204	174	10	11			
Herd	Cows	Milk	Fkg	F%	Pkg	P%	ECM	07.07.16														
- Dairy delivered milk kg	148,6	11706	463	3,95	391	3,34	11595	120														
Ayrshire		10886		4,05		3,26		09.09.16														
Holstein	148,5	11710	463	3,95	391	3,34	11600	05.10.16														
Finnish cattle								126														
Other breeds	0,1	5125	132	2,57	174	3,40	4228															
Annual yield by last test											Data Quality Points											
Herd	150,3	9208	363	3,94	307	3,33	9106					Points				Target 0-10 points						
ECM per day of life, cows in herd															Year 2016 average				9,6			
Fertility	Act.	Target										12-month rolling average				9,7						
Calving interval, d	404	395	→	Days open	79							Last recording 5.10.2016				10 Good						
Age at first calving, m	25,6	25,0	→	Service period, d	35							Recorder				5 Value Target						
Average lactation	2,5	2,3	↑	Dry period, d	79							Recording interval, d				0 26 <35						
Services/calving	2,18	1,90	↓	56-day non-return rate, %	60							Recordings in 12 m				0 13 >10						
												Sampling interval, d				0 26 <35						
												Samples in 12 m				0 12 >10						
												Meter testing, d				0 604 <667						
												Farm use, l/cow/d				0 1,1 0,1-1,5						
												Milk deviation 4 m				-2 105 96-104						
												Fat deviation 4 m				0 0,09 -0,20-0,20						

Milk Recording Cow card



ProAgria Etelä-Pohjanmaa



20.10.2016

Cow identification and parentage

Ear nr.	Name	Breed	HB number	Birth date	EU ID	Breeding value
80	Helmi	HOL		19.5.2010	FI000010214755-7	2016.10 -9
Sire	Tiu Akilles ET	HOL	F 94826 B	22.2.2008	FI000009343491-3	2016.10 -6
Sire's sire	J-L MRSHLTtoystory ET	HOL	FFF 94137 B	7.5.2001	FI000008777607-2	2016.10 -5
Sire's dam	Risbak-UliaET	HOL	111739 FFF	29.11.2005	FI000008128499-7	2016.10 -8
Dam	Aulikki (53)	HOL		23.2.2008	FI000008815030-9	2016.10 -15
Dam's sire	Magliana Ford Transit ET	HOL	FFF 94360 B	18.6.2001	IT004902063229-9	2016.10 -3

Annual yield										Highest daily yield				
Year	Yield/year	Milk, kg	F-k	F-%	P-k	P-%	ECM	ECM		Milk, kg	Fat, kg	Protein, kg	DIM	Rec. metho d
2012	0	1817	79	4,35	66	3,63	358	1918	2,00	28,8			76	BTS8
2013	1	9093	376	4,14	320	3,52	137	9324	8,50	36,0	1,396	1,256	99	BTS8
2014	2	8491	385	4,53	298	3,51	378	9110	12,06	42,5	1,625	1,459	58	BTS8
2015	3	10371	417	4,02	370	3,57	542	10528	15,04	53,3	1,966	1,860	74	BT44
2016	4	10487	416	3,97	377	3,59	466	10599	17,67	53,4	2,046	1,769	64	BT44
Total		40259	1673	—	1431	—	—	41479	—					
Average		9318	393	4,21	329	3,53	352	9654	—	42,8	1,759	1,586		
Herd average 2015		10808	430	3,98	366	3,39	216	10756	—					

Calving				Calf				305 day yield						Livewt.
Time	Date	Calv. int.	Ins.	Ear nr.	Sex	Use	Sire	Milk, kg	F-k	F-%	P-k	P-%		Kg
1	16.10.2012		2	868	L	1	FFF 95209 C	7492	312	4,16	264	3,52		
2	23.9.2013	342	1	1196	S	3	F 95473 B	9216	409	4,44	325	3,53		
3	3.11.2014	406	2	41	L	1	F 96848 B	11289	452	4,00	396	3,51	594	
4	7.12.2015	399	2	142	L	3	LIN 85939	11569	465	4,02	419	3,62	631	

Treatments			In
Date	Code	Illness	Date
29.11.2012	301	Acute clinical mastitis	22.9.2012
30.7.2013	821	Dry-off treatment	
3.3.2014	301	Acute clinical mastitis	
5.9.2014	821	Dry-off treatment	
24.9.2015	821	Dry-off treatment	
16.3.2016	371	Arthritis	

Previous owner

Person responsible for sampling

Resp.	% of cows	Avg herd size
A (techn.)	2	100
C (mixed)	5	70
B (farmer)	93	41

Chosen recording and sampling intervals

Interval	Rec. cows, %	Herd size	Sample d cows, %	Herd size
2 wk	2.8	78	0.1	55
4 wk	90.6	42	11.3	63
6 wk	0.5	43	0.5	44
8 wk	6.1	35	88.1	40

Herds taking advantage of the vacation month: 3 %

Reporting delay and unofficial records by month

