

logix



SA STAMBOEK
STUD BOOK

Logix *Melk/Milk*

Kudde Gesondheids Verslag / Herd Health Report

REID

P.O. BOX 282

SUNDRA

2200

freeride087@gmail.com

Test-day: 2024-10-15

Jersey Cows

LogixMilk Technical Advisor:

SURETHA FRANCIS

083 584 0814

suretha@studbook.co.za

November 1, 2024

List of Tables

1	Summary for Test-day 2024-10-15 (Number of Samples Tested: 84)	2
2	Quantification of Specific Cases (% of herd) and Loss in Production on 2024-10-15	2
3	Benchmark: Herd with the Top 25%, Average and Bottom 25% for different traits tested the last month of for Jersey Cows	2
4	Summary of Somatic Cell Counts per Lactation Group in the herd for 84 Jersey Cows	3
5	Somatic Cell Count (SCC) Analysis: Percentage (Number) of Cows within Stage of Lactation and Lactation Group for SCC > 200k and SCC > 750k for 84 Jersey Cows	3
6	Bulk Tank Results for 2024-10-15 (Number of Samples Tested: 0)	3
7	Somatic Cell Count (SSC) distribution and Milk Loss Monitor 2024-10-15	5
8	Cows Under Pressure (SCC > 500k and Lactose % < 4.6)	6
9	Cows with Somatic Cell Counts > 200k (Status: N=New -, C=Chronic -, R=Recurring - and CR=Chronic and Recurring Infections)	7
10	Possible Ketosis Cases; Cows under 100 days in milk (Prot. Fat Ratio < 0.68 for Jerseys and < 0.74 for other Breeds)	8
11	Possible Acidosis Cases (Protein % > Butterfat %)	9
12	Dry Cows with a Dry Period more than 55 Days	10
13	Cows with an active Inter-Calving Period (ICP) > 400 days	11

List of Figures

1	Somatic Cell Count (SCC) Trend	3
2	Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day	4
3	Somatic Cell Count (SCC) Monitor Trend	4
4	Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)	5
5	Somatic Cell Count (SCC) Distribution for Test-day (2024-10-15)	5

HERD HEALTH SUMMARY REPORT

REID - Jersey Cows

Table 1: Summary for Test-day 2024-10-15 (Number of Samples Tested: 84)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 24.1 Median: 24.7		
Butterfat (%)	Avg.: 5.19 Median: 5.07	3.5 % - 6.0 %	Too Low: 2 % Too High: 14 %
Protein (%)	Avg.: 3.95 Median: 3.89	3.0 % - 4.5 %	Too Low: 2 % Too High: 11 %
Lactose (%)	Avg.: 4.72 Median: 4.73	> 4.7 %	Too Low: 42 %
MUN (mg/dl)	Avg.: 12.96 Median: 12.75	8 - 16 mg/dl	Too Low: 4 % Too High: 8 %
SCC (x1000/ml)	Avg.: 154 Median: 66 % < 100 : 69.0 % % < 200 : 84.5 % % < 500 : 95.2 % % > 750 : 4.8 % % > 1 000 : 3.6 % % > 1 500 : 2.4 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 0 % Too High: 0 % Too High: 0 % Too High: 0.0 % Too High: 2.6 % Too High: 2.4 %
Butterfat Protein ratio	Average: 1.3	> 1.0	Too High: 1.2 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2024-10-15

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	81.0 (4.0 %)	1st Lact Cows:	58/53 (17)
DIM (kg per day):	337.4 (16.7 %)	2nd Lact Cows:	156/65 (17)
		3rd Lact Cows:	146/69 (13)
No. of Cows Under Pressure:	4 (4.8 %)	4th Lact Cows:	99/74 (11)
No. Cows with SCC > 200k:	13 (15.5 %)	5th Lact Cows:	105/104 (11)
No. Cows with SCC > 750k:	4 (4.8 %)	6+ Lact Cows:	342/159 (15)
No. New Infections:	11 (13.1 %)		
No. Recurring Infections:	2 (2.4 %)	Avg. SCC for SCC > 750k (n):	1426 (4)
Cure Rate for SCC > 200k:	- % (0)		
Cure Rate for SCC > 750k:	- % (0)	Avg. Days In Milk (DIM) for Herd:	218
No. Chronic Infections (SCC > 200k):	0 (0.0 %)	Median of DIM for Herd:	201
No. Chronic Infections (SCC > 750k):	0 (0.0 %)		
		Avg. DIM for SCC < 200k (n):	208 (71)
No. of Possible Ketosis Cases:	1	Avg. DIM for SCC > 200k and < 750k (n):	260 (9)
No. of Possible Acidosis Cases:	1	Avg. DIM for SCC > 750k (n):	296 (4)
Avg. Age at First Calf (Months):	24	Avg. Parity for Herd:	4
Avg. Inter-Calf Period (Days):	488	Avg. Parity for SCC < 200k:	3
No. Flushings:	NA	Avg. Parity for SCC > 200k and < 750k:	5
No. Embrios:	NA	Avg. Parity for SCC > 750k:	4

Table 3: Benchmark: Herd with the Top 25%, Average and Bottom 25% for different traits tested the last month of for Jersey Cows

	Milk Production (kg)	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)
Herd	24.1	5.19	3.95	4.72	154	12.96
Top 25%	27.2	5.92	4.30	4.81	43	15.20
Breed Avg	22.8	5.27	3.99	4.63	283	11.56
Bottom 25%	17.6	4.75	3.73	4.53	254	8.32

*** PLEASE CONSULT YOUR VETERINARIAN, PROFESSIONAL ANIMAL SCIENTIST or LogixMilk TECHNICAL ADVISOR for the interpretation of these results and professional advisory services.**

Table 4: Summary of Somatic Cell Counts per Lactation Group in the herd for 84 Jersey Cows

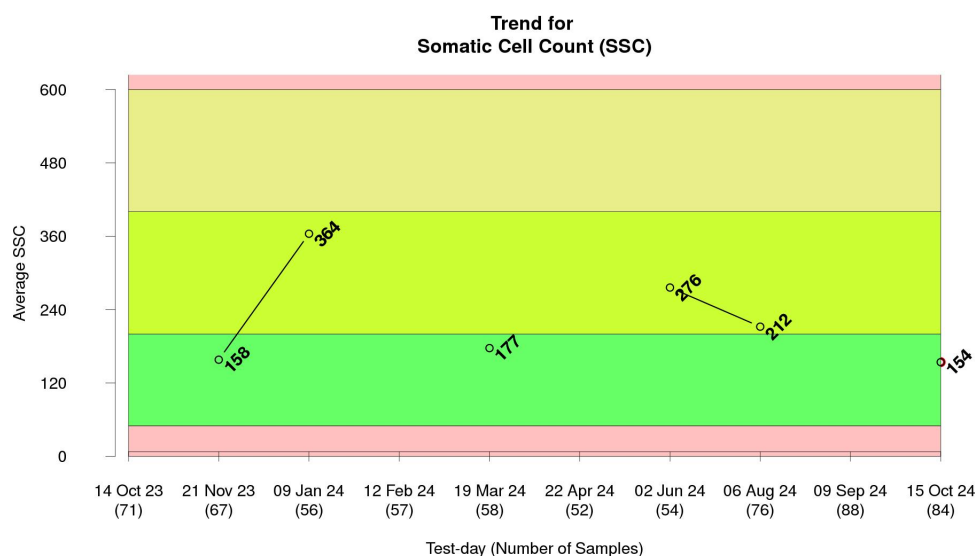
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	20.2% (17)	3.6% (3)	7.1% (6)	9.5% (8)	0.0% ()	0.0% ()
2	20.2% (17)	6.0% (5)	1.2% (1)	13.1% (11)	2.4% (2)	1.2% (1)
3	15.5% (13)	4.8% (4)	4.8% (4)	6.0% (5)	2.4% (2)	1.2% (1)
4	13.1% (11)	2.4% (2)	6.0% (5)	4.8% (4)	2.4% (2)	0.0% ()
5	13.1% (11)	1.2% (1)	3.6% (3)	8.3% (7)	2.4% (2)	0.0% ()
6+	17.9% (15)	2.4% (2)	7.1% (6)	8.3% (7)	6.0% (5)	2.4% (2)
Herd	100% (84)	20.4% (17)	29.8% (25)	50% (42)	15.6% (13)	4.8% (4)

Table 5: Somatic Cell Count (SCC) Analysis: Percentage (Number) of Cows within Stage of Lactation and Lactation Group for SCC > 200k and SCC > 750k for 84 Jersey Cows

Lactation Group	Early Lactation		Mid Lactation		Late Lactation	
	% SCC > 200k	% SCC > 750k	% SCC > 200k	% SCC > 750k	% SCC > 200k	% SCC > 750k
1	0.0% ()	0.0% ()	0.0% ()	0.0% ()	0.0% ()	0.0% ()
2	0.0% ()	0.0% ()	0.0% ()	0.0% ()	18.2% (2)	9.1% (1)
3	0.0% ()	0.0% ()	0.0% ()	0.0% ()	40.0% (2)	20.0% (1)
4	0.0% ()	0.0% ()	20.0% (1)	0.0% ()	25.0% (1)	0.0% ()
5	0.0% ()	0.0% ()	33.3% (1)	0.0% ()	14.3% (1)	0.0% ()
6+	0.0% ()	0.0% ()	16.7% (1)	0.0% ()	57.1% (4)	28.6% (2)

Table 6: Bulk Tank Results for 2024-10-15 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	5.12	3.91	4.74	142	13	

**Figure 1:** Somatic Cell Count (SCC) Trend

The average Somatic Cell Count (SCC) and the trend over time is shown in the graph. The ideal is a herd with an average count of less than 200 000. A higher SCC results in lower milk production and possible udder infection. If animals with high SCC can be identified early, they can be treated in time, thereby preventing production loss and permanent udder damage resulting in lower herd life.

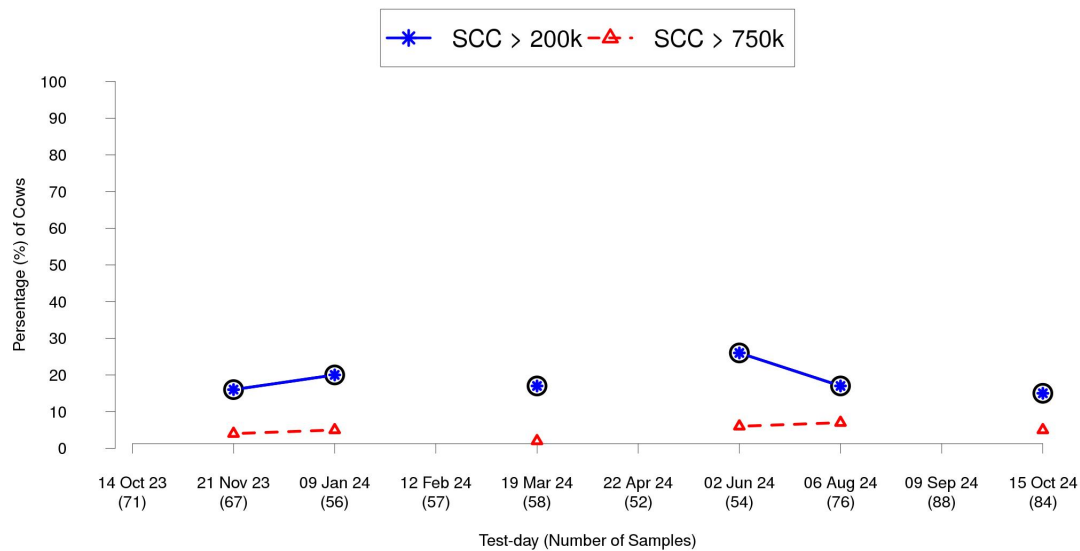


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

The graph presents the trend of the % of cows with Somatic Cell Counts (SCC) more then 200k and 500k, respectively. The ideal is to have as few cows as possible with a SCC of more than 200K and none with a SCC of more than 750k.

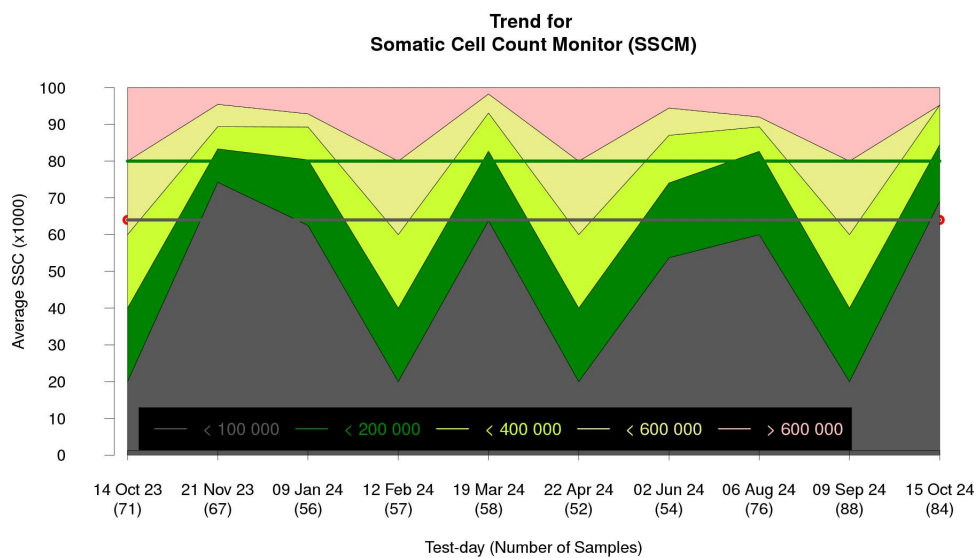


Figure 3: Somatic Cell Count (SCC) Monitor Trend

The graph shows the percentage of cows within certain Somatic Cell Count (SCC) levels. Ideally, at least 64% of the cows of a herd should have a SCC of less than 100 000 and 80% a SCC of less than 250 000. The danger zone is indicated in red, where ideally no cows should be indicated.

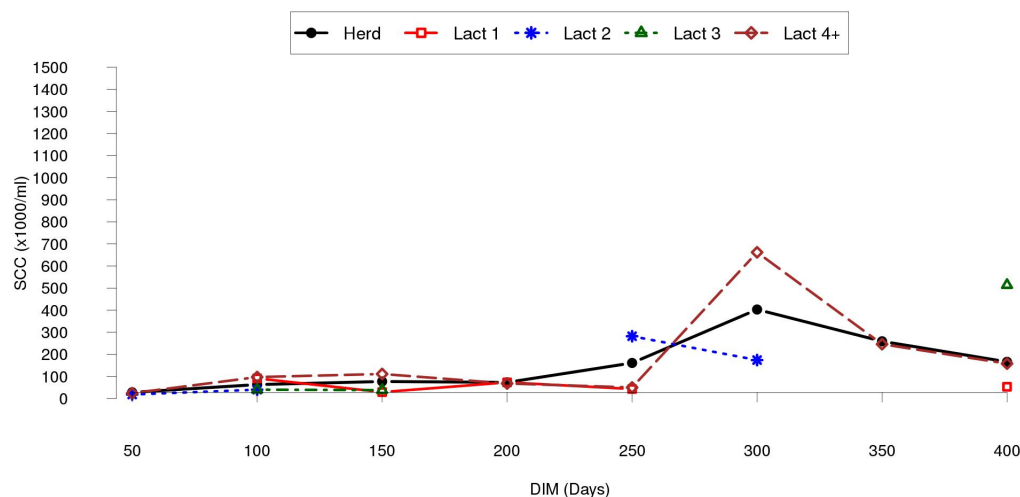


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

This graph indicates the average Somatic Cell Counts (SCC, x1000/ml) per day in milk (DIM) for the complete herd, as well as for Lactation 1, 2, 3 and 4+ cows, separately.

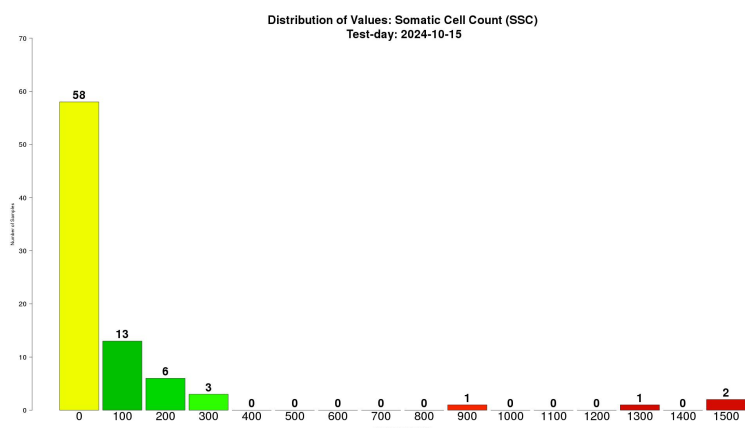


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2024-10-15)

The graph depicts the number of animals within certain levels of Somatic Cell Counts (SCC). If the cows with SCCs higher than 600 000 can be identified early, they can be treated or even culled from the herd, preventing economic losses due to penalties paid for high SCCs in the milk.

Table 7: Somatic Cell Count (SSC) distribution and Milk Loss Monitor 2024-10-15

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	58	13	9	0	2	2
% Cows	69.0 %	15.5 %	10.7 %	0.0 %	2.4 %	2.4 %
Milk Quality	Excellent	Very Good	Needs Improvement	Poor	Serious	BAD
% Milk Loss	< 2 %	2 - 4 %	4 - 8 %	8 - 10 %	10 - 35 %	> 35 %
% Quarters Infected	< 1 %	1 - 6 %	6 - 16 %	16 - 26 %	26 - 48 %	> 48 %

The average Somatic Cell Count (SCC) on 2024-10-15 for the herd, was 154 000. This figure places the herd in the "Light Green" SCC Zone and the milk quality is Very Good. Milk loss due to SCC is between 2 and 4 %.

Udder Health: You do not have a major mastitis problem but there may be problems with individual cows. Assess your mastitis control procedures.

Table 8: Cows Under Pressure (SCC > 500k and Lactose % < 4.6)

Cow ID	Name	SCC	Lactose %	DIM	Parity	Production
1533	DOT 9	1733	4.34	291	7	14.6
1519	DOT 5	1634	4.57	253	6	24.6
2109	ROMA 99	1388	4.53	227	2	19.4
1958	ROMA 12	947	4.46	412	3	25.4

Table 9: Cows with Somatic Cell Counts > 200k (Status: N=New -, C=Chronic -, R=Recurring - and CR=Chronic and Recurring Infections)

Cow ID	Name	SCC 2024-10-15	SCC 2024-09-09	SCC 2024-08-06	Production	DIM	Parity	Status
1533	DOT 9	1733	-	690	14.6	291	7	N
1519	DOT 5	1634	-	2037	24.6	253	6	N
2109	ROMA 99	1388	-	1519	19.4	227	2	N
1958	ROMA 12	947	-	2867	25.4	412	3	N
1510	ZEN 17	364	-	308	24.8	260	7	R
2106	AMY 96	342	-	156	21	262	2	N
1418	HEK 1	326	-	1017	26.2	315	6	N
1957	ROMA 11	299	-	104	26.8	312	3	N
1741	PUTT 22	297	-	570	13.2	484	5	N
1410	HOLM 2	283	-	78	30	126	8	N
1825	HYKA 10	280	-	109	29.2	126	5	N
1813	ASH 3	252	-	146	19	308	4	R
1919	HYKA 15	208	-	26	32.8	146	4	N

Table 10: Possible Ketosis Cases; Cows under 100 days in milk (Prot. Fat Ratio < 0.68 for Jerseys and < 0.74 for other Breeds)

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %	Breed
2263	JOJO 217	19.6	56	1	0.62	JSE

Table 11: Possible Acidosis Cases (Protein % > Butterfat %)

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %
2160	NESS 148	12	6	2	1.21

Table 12: Dry Cows with a Dry Period more than 55 Days

Cow ID	Name	Breed	Last ICP	Avg. ICP	No. ICPs	Days Since Last Calf	Days Open
1743	HALEY 3	JSE	357	404	2	1204	662
NEU1837	CADDY 22	JSE	418	418	1	1179	662

Table 13: Cows with an active Inter-Calving Period (ICP) > 400 days

Cow ID	Name	Breed	Last ICP	Avg. ICP	No. ICPs	Days Since Last Calf	Production
1743	HALEY 3	JSE	357	404	2	1204	-
NEU1837	CADDY 22	JSE	418	418	1	1179	-
NEU 210023	DASH 111	JSE	-	-	-	656	18.6
NEU 200016	ROMA 50	JSE	-	-	-	610	21.8
NEU 140003	ZEN 8	JSE	424	425	6	590	-
1921	OVI 12	JSE	763	763	1	551	22.8
NEU 180025	HYKA 10	JSE	363	353	3	527	29.2
NEU 160028	LARIO 8	JSE	1481	924	2	523	24.6
1914	HYKA 14	JSE	-	-	-	517	-
NEU 160053	PUTT 9	JSE	540	417	4	512	17.2
NEU 210053	NESS 141	JSE	-	-	-	500	17.8
NEU 170041	PUTT 22	JSE	357	386	4	495	13.2
NEU 190046	ROMA 6	JSE	401	380	2	484	11
1701	PUTT 10	JSE	402	848	2	451	18.4
NEU 180032	ASH 7	JSE	387	405	3	429	19
1958	ROMA 12	JSE	436	420	2	423	25.4
NEU 210060	NESS 148	JSE	-	-	-	417	12
2163	NESS 151	JSE	-	-	-	410	26.4
NEU 200018	SONY 52	JSE	575	575	1	409	-
2201	CHARM 155	JSE	-	-	-	404	12
NEU 210045	DASH 133	JSE	-	-	-	401	11.4