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STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

UNIVERSITEIT VAN PRETORIA

MILK UNIT

UP EXPERIMENTAL FARM

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Test-day: 2026-06-29

Holstein Cows

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HERD HEALTH SUMMARY REPORT

UNIVERSITEIT VAN PRETORIA - Holstein Cows

Table 1: Summary for Test-day 2026-06-29 (Number of Samples Tested: 66)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 26.0 Median: 26.4		
Butterfat (%)	Avg.: 4.50 Median: 4.43	3.5 % - 6.0 %	Too Low: 0 % Too High: 3 %
Protein (%)	Avg.: 3.61 Median: 3.55	3.0 % - 4.5 %	Too Low: 5 % Too High: 2 %
Lactose (%)	Avg.: 4.92 Median: 5.01	> 4.7 %	Too Low: 15 %
MUN (mg/dl)	Avg.: 11.67 Median: 11.00	8 - 16 mg/dl	Too Low: 2 % Too High: 5 %
SCC (x1000/ml)	Avg.: 379 Median: 60 % < 100 : 65.2 % % < 200 : 74.2 % % < 500 : 86.4 % % > 750 : 10.6 % % > 1 000 : 9.1 % % > 1 500 : 4.5 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 0 % Too High: 0.8 % Too High: 5.6 % Too High: 5.8 % Too High: 8.1 % Too High: 4.5 %
Butterfat Protein ratio	Average: 1.2	> 1.0	Too High: 1.5 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2026-06-29

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	114.4 (6.7 %)	1st Lact Cows:	74/50 (28)
DIM (kg per day):	97.2 (5.7 %)	2nd Lact Cows:	252/85 (16)
		3rd Lact Cows:	357/75 (14)
No. of Cows Under Pressure:	2 (3.0 %)	4th Lact Cows:	3130/1245 (4)
No. Cows with SCC > 200k:	17 (25.8 %)	5th Lact Cows:	310/310 (2)
No. Cows with SCC > 750k:	7 (10.6 %)	6+ Lact Cows:	365/365 (2)
No. New Infections:	6 (9.1 %)		
No. Recurring Infections:	6 (9.1 %)	Avg. SCC for SCC > 750k (n):	2666 (7)
Cure Rate for SCC > 200k:	29.4 % (5)		
Cure Rate for SCC > 750k:	71.4 % (5)	Avg. Days In Milk (DIM) for Herd:	185
No. Chronic Infections (SCC > 200k):	5 (7.6 %)	Median of DIM for Herd:	141
No. Chronic Infections (SCC > 750k):	1 (1.5 %)		
		Avg. DIM for SCC < 200k (n):	169 (49)
No. of Possible Ketosis Cases:	5	Avg. DIM for SCC > 200k and < 750k (n):	230 (10)
No. of Possible Acidosis Cases:	1	Avg. DIM for SCC > 750k (n):	232 (7)
Avg. Age at First Calf (Months):	25	Avg. Parity for Herd:	2
Avg. Inter-Calf Period (Days):	395	Avg. Parity for SCC < 200k:	2
No. Flushings:	NA	Avg. Parity for SCC > 200k and < 750k:	2
No. Embrios:	NA	Avg. Parity for SCC > 750k:	3

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

	Milk Production (kg)	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)
Herd	26.0	4.50	3.61	4.92	379	11.67
Top 25%	37.5	4.99	3.87	4.98	50	17.00
Breed Avg	31.1	4.35	3.54	4.78	537	13.91
Bottom 25%	23.2	3.61	3.27	4.68	510	12.00

*** 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 66 Holstein Cows

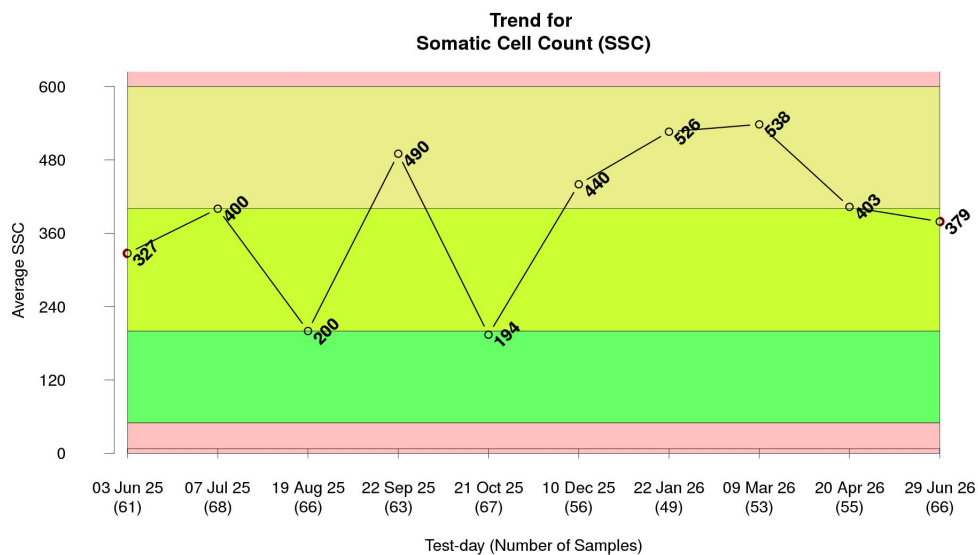
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	42.4% (28)	18.2% (12)	16.7% (11)	7.6% (5)	4.5% (3)	0.0% ()
2	24.2% (16)	0.0% (0)	12.1% (8)	12.1% (8)	7.6% (5)	1.5% (1)
3	21.2% (14)	3.0% (2)	7.6% (5)	10.6% (7)	6.1% (4)	4.5% (3)
4	6.1% (4)	1.5% (1)	3.0% (2)	1.5% (1)	4.5% (3)	4.5% (3)
5	3.0% (2)	1.5% (1)	1.5% (1)	0.0% (0)	1.5% (1)	0.0% ()
6+	3.0% (2)	0.0% (0)	3.0% (2)	0.0% (0)	1.5% (1)	0.0% ()
Herd	99.9% (66)	24.2% (16)	43.9% (29)	31.8% (21)	25.7% (17)	10.5% (7)

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 66 Holstein 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% ()	18.2% (2)	0.0% ()	20.0% (1)	0.0% ()
2	0% ()	0% ()	25.0% (2)	12.5% (1)	37.5% (3)	0.0% ()
3	0.0% ()	0.0% ()	20.0% (1)	20.0% (1)	42.9% (3)	28.6% (2)
4	100.0% (1)	100.0% (1)	50.0% (1)	50.0% (1)	100.0% (1)	100.0% (1)
5	0.0% ()	0.0% ()	100.0% (1)	0.0% ()	0% ()	0% ()
6+	0% ()	0% ()	50.0% (1)	0.0% ()	0% ()	0% ()

Table 6: Bulk Tank Results for 2026-06-29 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.46	3.55	4.96	350	11	

**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.

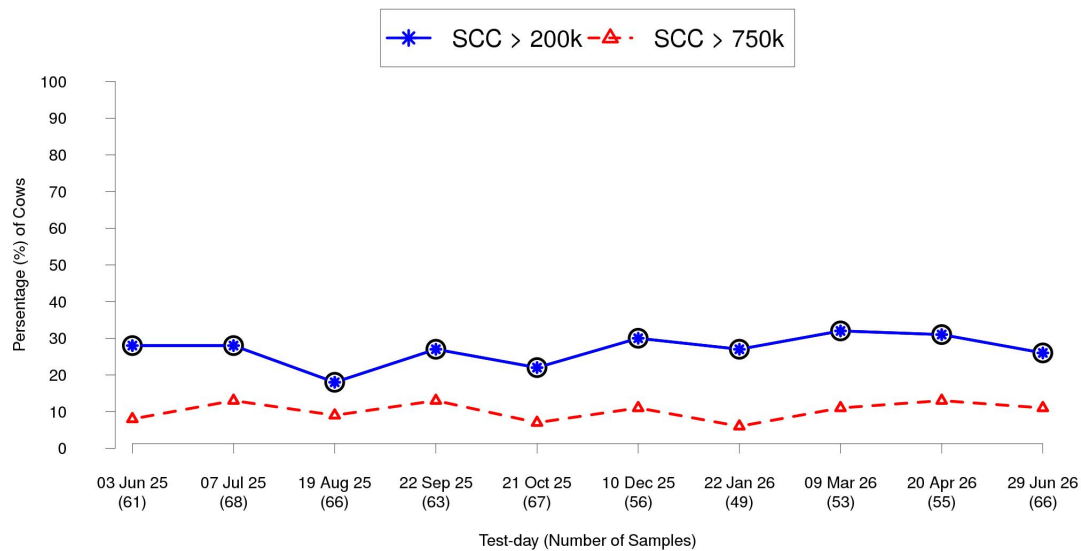


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

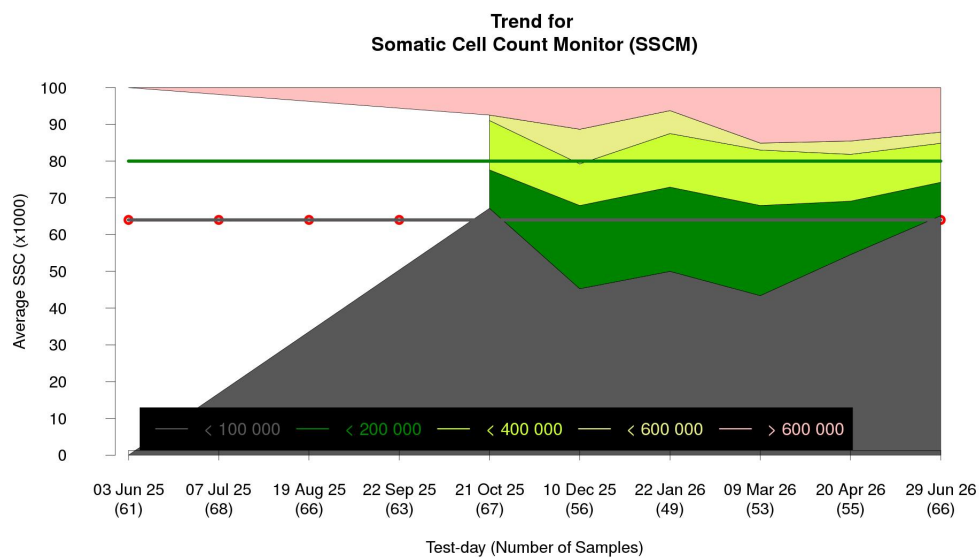


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

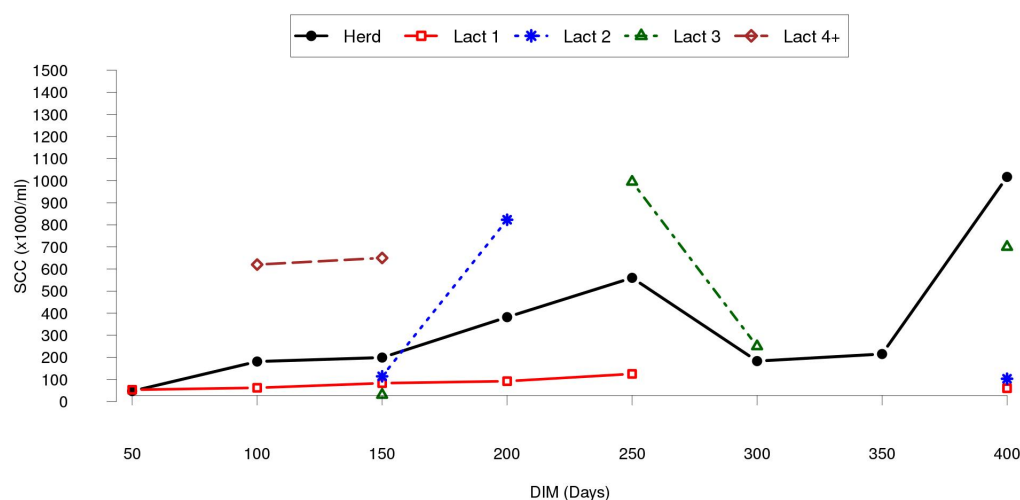


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

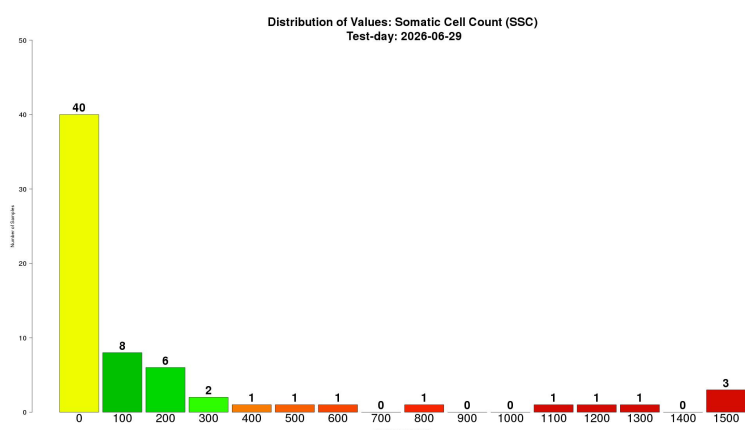


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2026-06-29)

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 2026-06-29

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	40	8	9	2	4	3
% Cows	60.6 %	12.1 %	13.6 %	3.0 %	6.1 %	4.5 %
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 2026-06-29 for the herd, was 379 000. This figure places the herd in the "Yellow" SCC Zone and the milk quality Needs Improvement. Milk loss due to SCC is between 4 and 8 %.

Udder Health: Mastitis infections are evident and needs slight improvement. Check all management and control measures.

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

Cow ID	Name	SCC	Lactose %	DIM	Parity	Production
1917	1917 INTACT	9999	3.00	426	4	17.4
20021	20021	1220	4.08	408	3	15.4

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 2026-06-29	SCC 2026-04-20	SCC 2026-03-09	Production	DIM	Parity	Status
1917	1917 INTACT	9999	160	520	17.4	426	4	R
23003	23003	2300	690	40	30.1	164	2	R
21026	21026	1790	1560	30	28.1	229	3	N
21003	21003	1320	260	-	42.3	107	4	N
20021	20021	1220	130	50	15.4	408	3	N
20033	20033MOVER	1170	-	-	36.8	92	4	N
21023	21023	860	6960	2750	29.6	198	3	C
1904	1904 IKEA	680	1830	980	33.4	141	6	C
1938	1938 DUNHILL	550	380	330	33.2	121	5	C
1945	1945 DUNHILL	470	160	50	20.1	291	3	R
23008	23008	340	70	70	32.3	131	2	N
22027	22027VEKOMA	330	1810	760	6.9	315	2	C
24001	24001	290	1250	130	21.3	146	1	N
24003	24003	250	330	250	24.4	156	1	C
23021	23021LIWAY	230	1180	170	27.9	211	1	R
22016	22016 VEKOMO	220	-	220	28.8	395	2	R
22006	22006 LIWAY	210	-	20	31.6	388	2	R

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
23024	23024	22.4	77	1	0.65	HST
20015	20015	36.1	84	5	0.67	HST
24015	24015	23.9	15	1	0.73	HST
24008	24008	23.7	33	1	0.73	HST
24021	24021	21.6	44	1	0.74	HST

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

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %
20021	20021	15.4	408	3	1.51

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
1745	1745	HST	-	-	-	2393	2097

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
1745	1745	HST	-	-	-	2393	-
1519	1519	HST	500	401	5	1365	-
20033	20033	HST	-	-	-	915	-
21006	21006	HST	363	363	1	873	-
ZNDP190019	1919	HST	361	562	2	477	20.6
22011	22011 MIGNON	HST	335	335	1	475	33.1
DZNP210004	21004	HST	424	379	2	466	-
23012	23012LUNAR	HST	-	-	-	448	28.7
20031	20031	HST	422	423	2	443	-
1917	1917 INTACT	HST	443	461	3	432	17.4
21041	21041 MOVER	HST	351	351	1	426	32.3
23016	23016BRANTLEY	HST	-	-	-	421	24.9
ZNDP200021	20021	HST	412	503	2	413	15.4
-	22016 VEKOMO	HST	331	331	1	401	28.8