

logix



SA STAMBOEK
STUD BOOK

Logix Melk/Milk

Kudde Gesondheids Verslag / Herd Health Report

UNIVERSITEIT VAN PRETORIA

MILK UNIT

UP EXPERIMENTAL FARM

SOUTHSTREET-EAST, HATFIELD

0083

corlia.swanepoel@up.ac.za

Test-day: 2026-01-22

Holstein Cows

LogixMilk Technical Advisor:

SURETHA FRANCIS

083 584 0814

suretha@studbook.co.za

January 30, 2026

List of Tables

1	Summary for Test-day 2026-01-22 (Number of Samples Tested: 48)	2
2	Quantification of Specific Cases (% of herd) and Loss in Production on 2026-01-22	2
3	Benchmark: Herd with the Top 25%, Average and Bottom 25% for different traits tested the last month of for Holstein Cows	2
4	Summary of Somatic Cell Counts per Lactation Group in the herd for 48 Holstein 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 48 Holstein Cows	3
6	Bulk Tank Results for 2026-01-22 (Number of Samples Tested: 0)	3
7	Somatic Cell Count (SSC) distribution and Milk Loss Monitor 2026-01-22	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 (2026-01-22)	5

HERD HEALTH SUMMARY REPORT

UNIVERSITEIT VAN PRETORIA - Holstein Cows

Table 1: Summary for Test-day 2026-01-22 (Number of Samples Tested: 48)

Analysis	Results	Norms*	% Cows outside norms*
Milk Production (kg)	Avg.: 24.1 Median: 23.3		
Butterfat (%)	Avg.: 4.41 Median: 4.34	3.5 % - 6.0 %	Too Low: 0 % Too High: 0 %
Protein (%)	Avg.: 3.27 Median: 3.31	3.0 % - 4.5 %	Too Low: 19 % Too High: 0 %
Lactose (%)	Avg.: 4.82 Median: 4.83	> 4.7 %	Too Low: 27 %
MUN (mg/dl)	Avg.: 14.33 Median: 14.00	8 - 16 mg/dl	Too Low: 0 % Too High: 17 %
SCC (x1000/ml)	Avg.: 526 Median: 110 % < 100 : 50.0 % % < 200 : 72.9 % % < 500 : 91.7 % % > 750 : 6.2 % % > 1 000 : 6.2 % % > 1 500 : 6.2 %	< 200 > 64 % > 75 % > 92 % < 4.8 % < 1 % NONE	Too High: 14.0 % Too High: 2.1 % Too High: 0.3 % Too High: 1.4 % Too High: 5.2 % Too High: 6.2 %
Butterfat Protein ratio	Average: 1.3	> 1.0	Too High: 0.0 %

Table 2: Quantification of Specific Cases (% of herd) and Loss in Production on 2026-01-22

Loss in Production due to:		Avg/Median SCC (Number (n)):	
SSC (kg per day):	96.4 (8.3 %)	1st Lact Cows:	642/130 (18)
DIM (kg per day):	277.6 (24.0 %)	2nd Lact Cows:	138/60 (16)
No. of Cows Under Pressure:	2 (4.2 %)	3rd Lact Cows:	118/110 (11)
No. Cows with SCC > 200k:	13 (27.1 %)	4th Lact Cows:	3390/270 (3)
No. Cows with SCC > 750k:	3 (6.2 %)	5th Lact Cows:	0/ (0)
No. New Infections:	7 (14.6 %)	6+ Lact Cows:	0/ (0)
No. Recurring Infections:	4 (8.3 %)	Avg. SCC for SCC > 750k (n):	6340 (3)
Cure Rate for SCC > 200k:	23.5 % (4)	Avg. Days In Milk (DIM) for Herd:	240
Cure Rate for SCC > 750k:	50.0 % (3)	Median of DIM for Herd:	237
No. Chronic Infections (SCC > 200k):	4 (8.3 %)	Avg. DIM for SCC < 200k (n):	249 (35)
No. Chronic Infections (SCC > 750k):	0 (0.0 %)	Avg. DIM for SCC > 200k and < 750k (n):	244 (10)
No. of Possible Ketosis Cases:	8	Avg. DIM for SCC > 750k (n):	194 (3)
No. of Possible Acidosis Cases:	0	Avg. Parity for Herd:	2
Avg. Age at First Calf (Months):	25	Avg. Parity for SCC < 200k:	2
Avg. Inter-Calf Period (Days):	391	Avg. Parity for SCC > 200k and < 750k:	2
No. Flushings:	NA	Avg. Parity for SCC > 750k:	2
No. Embrios:	NA		

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	24.1	4.41	3.27	4.82	526	14.33
Top 25%	36.4	4.65	3.78	4.79	46	16.80
Breed Avg	30.1	4.20	3.56	4.65	401	14.35
Bottom 25%	23.8	3.69	3.30	4.56	277	11.80

*** 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 48 Holstein Cows

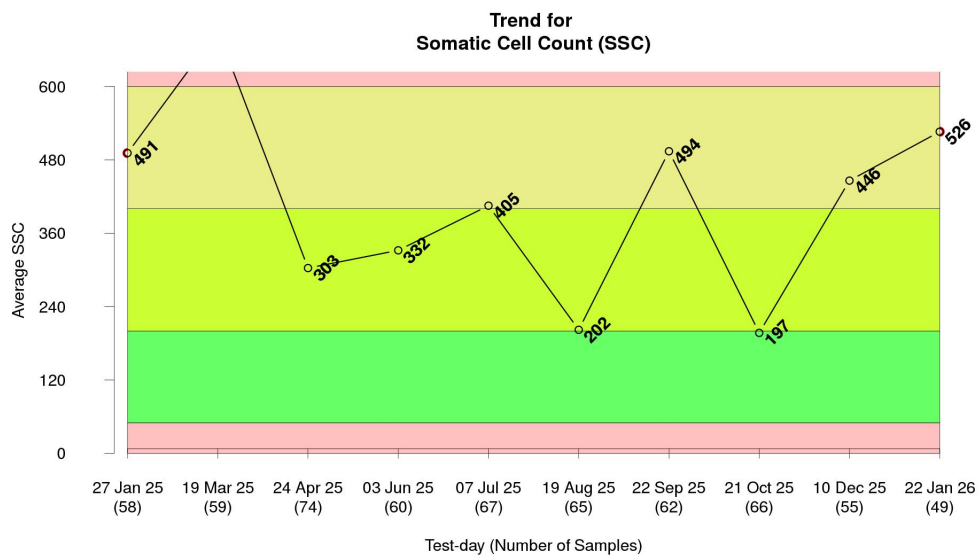
Lactation Group	% of Herd	Early Lactation	Mid Lactation	Late Lactation	% SCC > 200k	% SCC > 750k
1	37.5% (18)	16.7% (8)	0.0% (0)	20.8% (10)	10.4% (5)	4.2% (2)
2	33.3% (16)	2.1% (1)	8.3% (4)	22.9% (11)	6.2% (3)	0.0% (0)
3	22.9% (11)	4.2% (2)	4.2% (2)	14.6% (7)	4.2% (2)	0.0% (0)
4	6.2% (3)	0.0% (0)	0.0% (0)	6.2% (3)	6.2% (3)	2.1% (1)
5	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
6+	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)
Herd	99.9% (48)	23% (11)	12.5% (6)	64.5% (31)	27% (13)	6.3% (3)

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 48 Holstein Cows

Lactation Group	Early Lactation		Mid Lactation		Late Lactation	
	% SCC > 200k	% SCC > 750k	% SCC > 200k	% SCC > 750k	% SCC > 200k	% SCC > 750k
1	37.5% (3)	12.5% (1)	0% (0)	0% (0)	20.0% (2)	10.0% (1)
2	0.0% (0)	0.0% (0)	0.0% (0)	0.0% (0)	27.3% (3)	0.0% (0)
3	0.0% (0)	0.0% (0)	50.0% (1)	0.0% (0)	14.3% (1)	0.0% (0)
4	0% (0)	0% (0)	0% (0)	0% (0)	100.0% (3)	33.3% (1)
5	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)
6+	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)	0% (0)

Table 6: Bulk Tank Results for 2026-01-22 (Number of Samples Tested: 0)

Tank No	Butterfat (%)	Protein (%)	Lactose (%)	SCC (x1000/ml)	MUN (mg/dl)	pH
Calculated Tank	4.38	3.25	4.82	457	14	

**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.

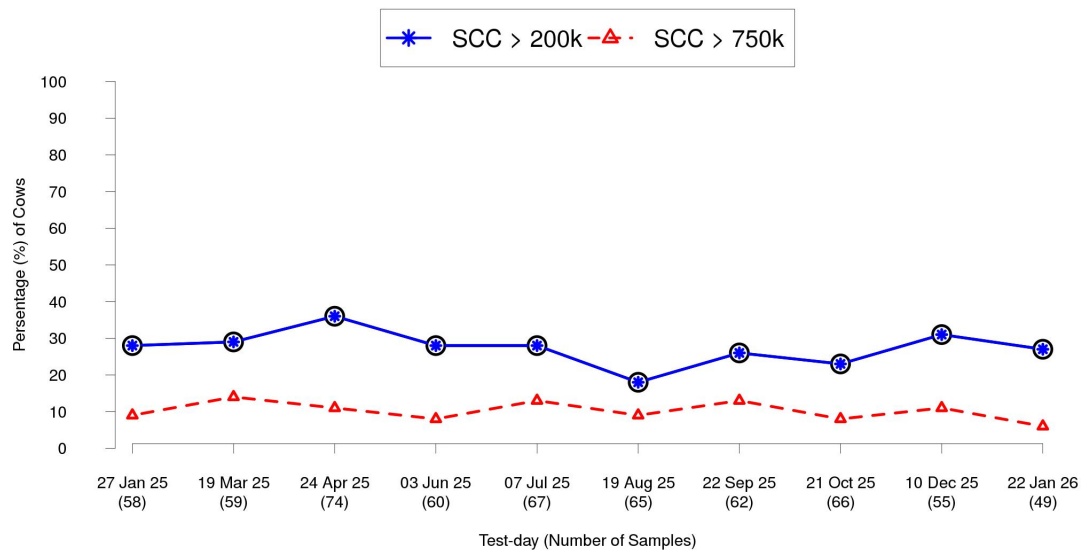


Figure 2: Percentage (%) of Cows with Somatic Cell Counts (SCC) more than 200k and 750k, respectively, per Test-day

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.

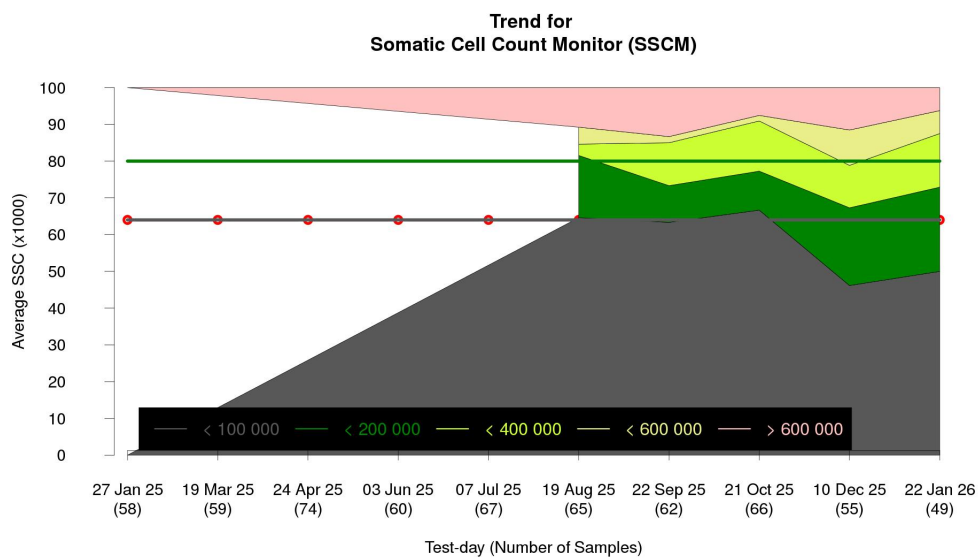


Figure 3: Somatic Cell Count (SCC) Monitor Trend

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.

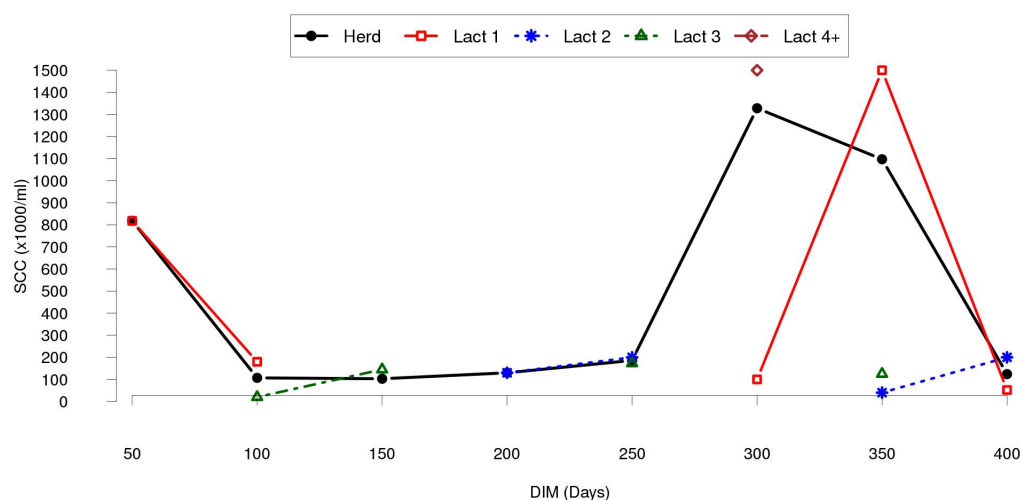


Figure 4: Average Somatic Cell Counts (SCC, x1000/ml) per Day In Milk (DIM)

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.

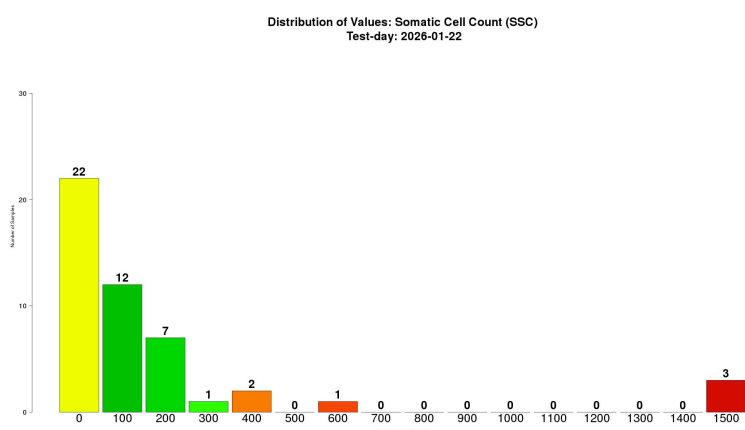


Figure 5: Somatic Cell Count (SCC) Distribution for Test-day (2026-01-22)

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 2026-01-22

SSC Levels	< 100k	100k - 200k	200k - 500k	500k - 800k	800k - 1 500k	> 1 500k
Number Cows	22	12	10	1	0	3
% Cows	45.8 %	25.0 %	20.8 %	2.1 %	0.0 %	6.2 %
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 2026-01-22 for the herd, was 526 000. This figure places the herd in the "Orange" SCC Zone and the milk quality is Poor. Milk loss due to SCC is between 8 and 10 %.

Udder Health: Mastitis infections are evident and needs slight improvement. Your mastitis control program needs improvement. Consult your veterinarian and/or registered animal scientist for assistance. Due to high somatic cell counts, your ability to supply milk is at risk.

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

Cow ID	Name	SCC	Lactose %	DIM	Parity	Production
1917	1917 INTACT	9690	3.98	268	4	26.3
24004	24004LUNER	3570	4.54	10	1	11.3

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 2026-01-22	SCC 2025-12-10	SCC 2025-10-21	Production	DIM	Parity	Status
1917	1917 INTACT	9690	816	170	26.3	268	4	R
23010	23010 LUNAR	5760	6062	350	16.5	304	1	C
24004	24004LUNER	3570	-	-	11.3	10	1	N
22016	22016 VEKOMO	600	920	260	23.1	237	2	CR
23003	23003	490	-	10	17.6	343	1	N
21028	21028 FOXCATCHER	480	440	160	14.8	386	2	N
23021	23021LIWAY	330	124	-	18.4	53	1	N
21007	21007 INTACT	290	430	350	21.5	505	2	CR
1945	1945 DUNHILL	270	1123	90	33.1	133	3	N
20015	20015	270	188	60	26.2	274	4	N
24007	24007	260	-	-	17.1	21	1	N
21020	21020MOVER	250	209	70	22.7	220	3	R
1940	1940 DUNHILL	210	447	320	27.8	266	4	C

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
23022	23022LUNAR	16	50	1	0.62	HST
22017	22017 BRANTLEY	16.2	80	2	0.64	HST
24009	24009	14.5	15	1	0.66	HST
21026	21026	40.5	71	3	0.69	HST
23019		26.3	53	1	0.70	HST
23021	23021LIWAY	18.4	53	1	0.70	HST
24007	24007	17.1	21	1	0.71	HST
23014	23014 VECOMO	16.3	74	1	0.72	HST

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

Cow ID	Name	Production	DIM	Parity	Prot % to Fat %
--------	------	------------	-----	--------	-----------------

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
ZNDP170045	1745	HST	-	-	-	2232	1939

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
ZNDP170045	1745	HST	-	-	-	2232	-
ZNDP150019	1519	HST	500	401	5	1204	-
-	20033	HST	-	-	-	754	-
-	22001	HST	-	-	-	747	-
ZNDP210006	21006	HST	363	363	1	712	-
-	21041 MOVER	HST	-	-	-	616	24.3
-	22012 LIWAY	HST	-	-	-	607	21.9
-	21019INTACT	HST	368	368	1	566	43.3
21007	21007 INTACT	HST	391	391	1	508	21.5
-	22062	HST	-	-	-	471	-
-	22037	HST	-	-	-	457	14.5
-	21023	HST	479	479	1	455	33.8
-	22033	HST	-	-	-	419	25.2
23001	23001 FF TWIN	HST	-	-	-	411	-
23002	23002 FF TWIN	HST	-	-	-	404	-