



LogixMilk

Milk Recording system by
SA Stud Book
for South Africa

Japie van der Westhuizen
WG for Dairy Cattle Milk Recording
ICAR 2013
Aarhus

Recording with *LogixMilk*

- ICAR types of recording applied (1.3)
 - All recordings taken on Method B, alternative single samples or evening samples
 - > 95% 5 Weekly
 - < 5% 6 - 9 Weekly
- Planning
 - Fixed dates in cooperation with Milk Recording laboratories (and farmers)

Recording with *LogixMilk*

- Data collection
 - Farm PC software – pre loaded with ‘Electronic TST document’
 - Automated milking systems (DeLaval and AfiMilk) either directly or via farm software
 - Prescribed data format for *Logix* database
 - Paper generated TST documents: scanned and uploaded to server
- Sampling
 - Only single samples, by hand or automated (ICAR approved systems)
- Matching on *Logix* database

Processing of data: *LogixMilk*

- Matching of cow id to sample
 - Pre-printed (or processed) TST form with cow number (farm ID, National ID and registration number)
 - Automated systems = automated linking of cow ID
- Milk yields
 - Mostly farm software or automated systems – immediate upload
- Milk components
 - Automated upload from main laboratories
 - 10 minute intervals in data reading, matching (to yields) and processing

Calculations and information:

LogixMilk

- Calculations
 - 24 hour yields
 - Lactation yields (based on Wilmink curve SLACs; separate for breeds)
 - 305 day yields
 - Lactation value
- Information to farmer and technical advisor
 - **Immediate action list email**
 - Electronic download to farm computer software (three major competitors)
 - Also paper
 - Own specialized milk reports
 - SASB advisory services
 - Technical advisor access
- Interval – 36 hours to 5 days

User defined lists

VAN RENSBURG, G.J. (0457760)

Specify Search Criteria:

Field Date 1

Production Date Last Pr

Lactation n.a. v

DIM n.a. v

Milk Production n.a. v

Fat % n.a. v

Prot % n.a. v

Fat:Prot n.a. v

Lact % n.a. v

MUN n.a. v

SCC >= v

Order By:

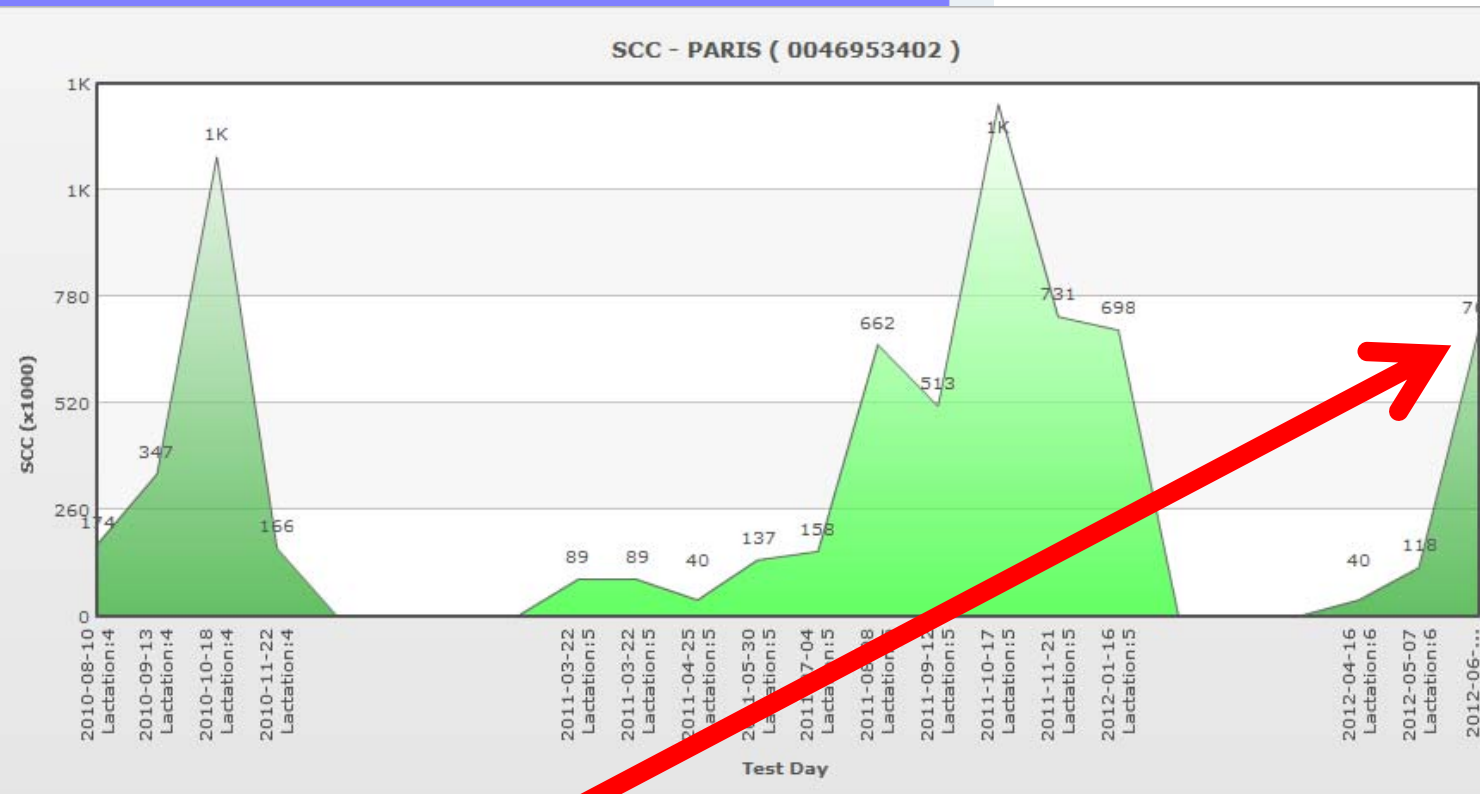
Lactation v, NID

Save Criteria

Criteria Name c

[new criteria] v

Search



Animal	Production: 2012-06-18	Production: 2012-05-07															
COMP NO	NID	Parity	DIM	Milk Kg	Fat %	Prot %	Fat:Prot	MUN	Lact %	SCC	Milk Kg	Fat %	Prot %	Fat:Prot	MUN	Lact %	SCC
0069945673	GH09186	1	287	12	5.2	4.1	1.25	12.1	4.7	445	14.2	5.2	4.5	1.17	12.2	4.8	117
0067611293	GH08135	2	262	12.2	5.7	4.2	1.38	13.6	4.4	530	15.2	5.5	4.3	1.28	8.6	4.7	149
0067209809	GH0899	2	330	10.8	6.1	4.8	1.26	12.6	3.7	1513	16.4	5.8	4.4	1.33	10.2	4.3	189
0065220063	GH0753	3	305	8.2	4.7	4.5	1.05	14.2	3.8	937	17	4.9	4.2	1.16	8.9	4.1	166
0065799041	GH0804	3	229	11.6	5.7	4.2	1.21	13.1	4.3	1154	16.2	5.2	4.0	1.30	7.7	4.6	199
0065933145	GH0811	3	276	6.4	5.7	4.9	1.15	12.3	4.3	632	14	5.6	4.7	1.18	11.9	4.7	166
0063991335	GH0694	4	316	8.4	5.1	4.5	1.13	15.9	3.6	450	11.8	5.5	4.7	1.18	8.8	4.0	195
0061416038	GH0551	5	315	8.4	4.6	4.8	0.95	11.1	3.2	1897	15.8	5.3	4.7	1.11	8.8	3.9	158
0062181854	GH0580	5	229	14	4.5	4.3	1.07	13.3	3.9	1449	16.6	3.8	4.0	0.96	9.6	4.5	132
0062181995	GH0603	5	333	6.4	5.0	4.1	1.21	10.8	3.4	642	12.2	5.1	4.5	1.15	8.7	4.2	161
0063991988	GH06130	5	146	15.8	4.1	3.7	1.12	13	4.1	911	14.2	4.6	4.2	1.10	10	4.5	66
0063212260	GH0657	5	95	35.2	4.5	3.5	1.27	15.5	4.5	1174	17.4	3.7	3.4	1.11	14	4.8	51
0046953402	PARIS	6	88	27.6	4.1	3.8	1.10	14.2	4.5	700	36	3.7	3.4	1.11	14	4.8	118

Rules applied: *LogixMilk*

- Apply table 2.1.2 as official
- ‘Stud’ and ‘Grade’ cows sometimes handles separate as some farmers record only ‘Stud’.
- Continuous statistical checks on data as mostly B system – test visit or check suspect cases
- Missing data:
 - Considered as no observation

Challenges

- Automated systems with benchmarking vs collective milk recording
- Extending services related to:
 - Health
 - Nutrition
 - Early warning
 - Ease of management (eg pregnancy diagnosis, mastitis from preserved samples)