



## A case study

### Background

The group of cows studied includes a fixed group about 40 cows entering and leaving the lactation group, with heifers entering the group and cows leaving the group at they are slaughtered mainly for animal health reasons.

The study was conducted at the pilot farm of the University of Szeged at Hódmezővásárhely, 6800 Hungary, a farm managed by the University of Szeged and overseen by Agricultural Faculty of the University of Szeged.

In August 2106 Surepulse inserts and liners were fitted together with pulsation adjustments. At the start the cows had high somatic cell counts, teat heath problems and an average of 2.2 lactations per cow at an average production of more than 10,000 litres per cow.

The results in terms of teat scores can be seen from the data summary from 1st August 2016 until 27th March 2017. In the same period the somatic cell counts stabilised and steadily reduced, however mastitis cases continued in certain periods.

On 27th March 2017 the Calf 35 system was installed.

As of 27th March 2017 comprehensive data has been collected for

- 1. Teat Scores of each individual cow,
- 2. Cell counts of each individual cow,
- 3. Mastitis records of each individual cow,
- 4. Kick offs for each individual cow.

The figures on the following page represent a summary of the performance in Surepulse inserts and liners were introduced, and after using Surepulse liners and inserts with the Calf 35 system.

The study continues.



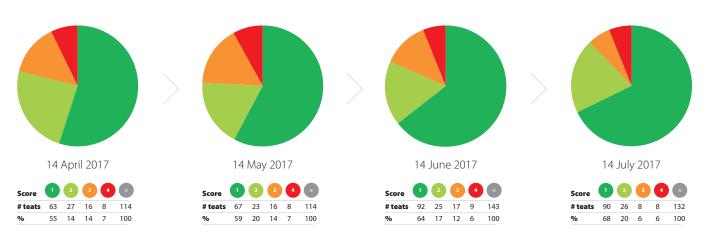


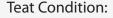
# Teat health improvements using Surepulse inserts and liners

A 12-month case study with a test group of 40 cows entering and leaving lactation.



Teat health improvement using Surepulse liners and inserts combined with Calf 35 from 27th March 2017







2 Fair

3

Bad



Very Bad

## **Summary**

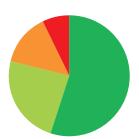


1 August 2016

Score	1	2	3	4	
# teats	26	59	35	17	137
%	19	43	26	12	100

### Initial test results

### \ /



14 April 2017

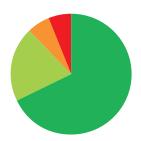
Score	1	2	3	4	
# teats	63	27	16	8	114
%	55	14	14	7	100

### 8 months passed

- Score 1 (good) moves 19% to 55%
- Score 2 (fair) moves 43% to 14%
- 3 Score 3 (bad) moves 26% to 14%
- Score 4 (very bad) moves 17% to 7%

Results achieved using





14 July 2017

Score	1	2	3	4	
# teats	90	26	8	8	132
%	68	20	6	6	100

### Further 4 months passed

- Score 1 (good) moves 55% to 68%
- Score 2 (fair) moves 14% to 20%
- Score 3 (bad) moves 14% to 6%
- Score 4 (very bad) moves 7% to 6%

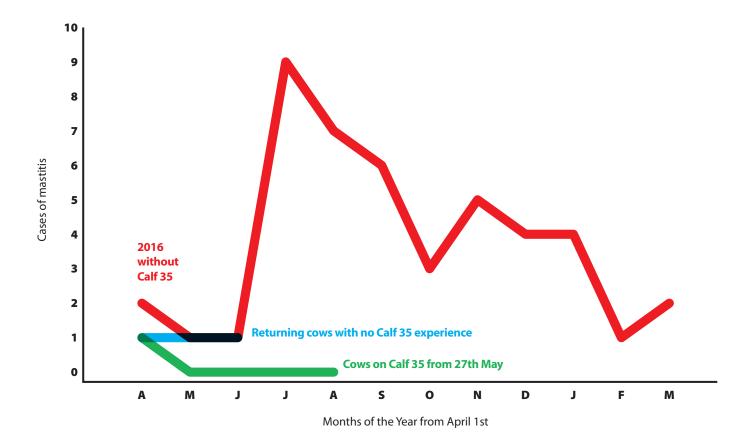
Results achieved using





# Monthly cases of mastitis

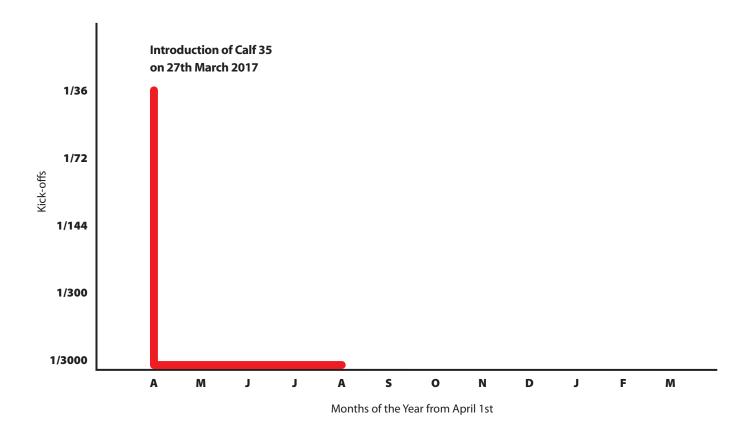
for a test group of 40 cows entering and leaving lactation, April 2016 - August 2017





# **Kick-offs during the milking**

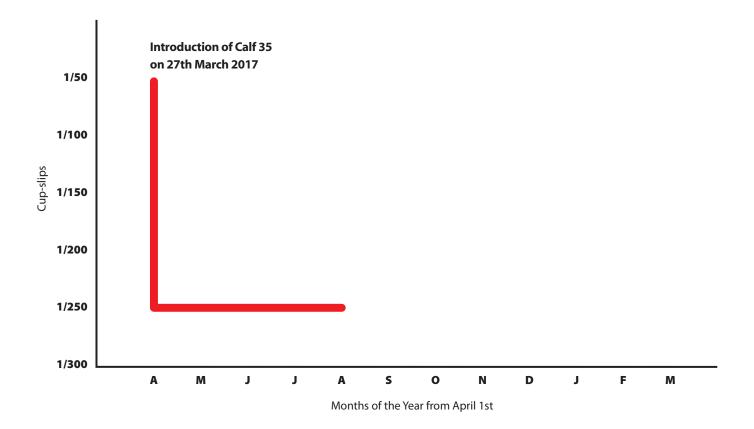
for a test group of 40 cows entering and leaving lactation, April 2016 - August 2017 (measured as a fraction)





# **Cup slips during the milking**

for a test group of 40 cows entering and leaving lactation, April 2016 - August 2017 (measured as a fraction)





# Somatic Cell Counts represented over two years and intensely from 27th March 2017

for a test group of 40 cows entering and leaving lactation, April 2016 - July 2017

