

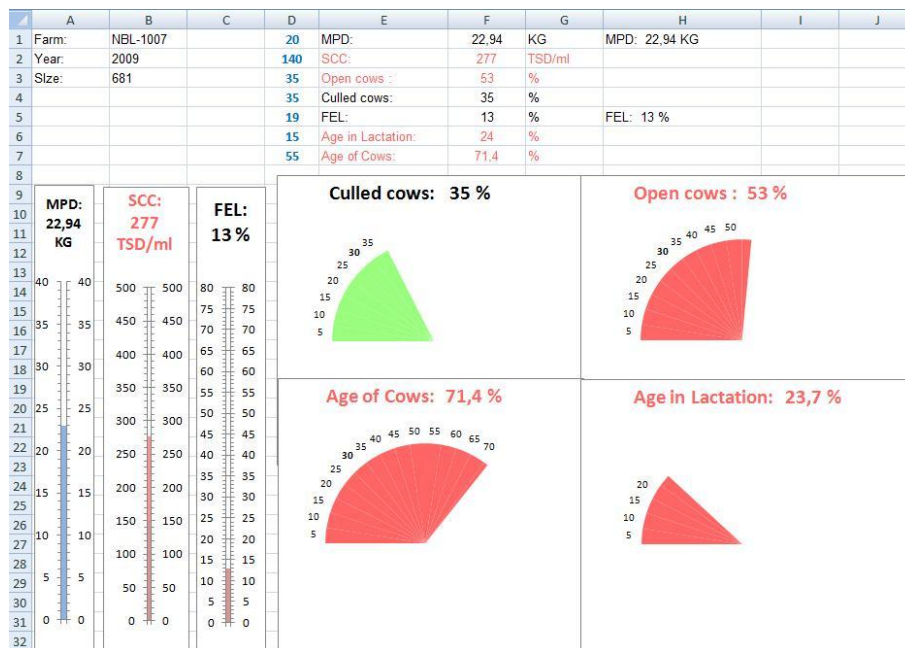
[Software download here](#)

Health parameters in dairy farms

I think the vet and the farmer should tell the software-programmer the algorithm to calculate the health-parameters not the other way round. So I did try to implement a simple program with simple parameters (reality is complicated enough) to compute the numbers that we need to measure health and to manage dairy farms. You can use it with MS Excel and MS Access 2007. It is open for everybody to use it or to change it. If there are ideas, questions or comments, please tell me I would appreciate it very much. The parameters are calculated for a period of 24 month backward. The big picture (the dairy farm cockpit in my program) is basing on the events that did happen the last 12 month.

The parameters are also calculated monthly, or in case of fertility parameters, additionally by quartal.

The big picture: (cockpit dairy farm)



MPD: Milk per cow and day

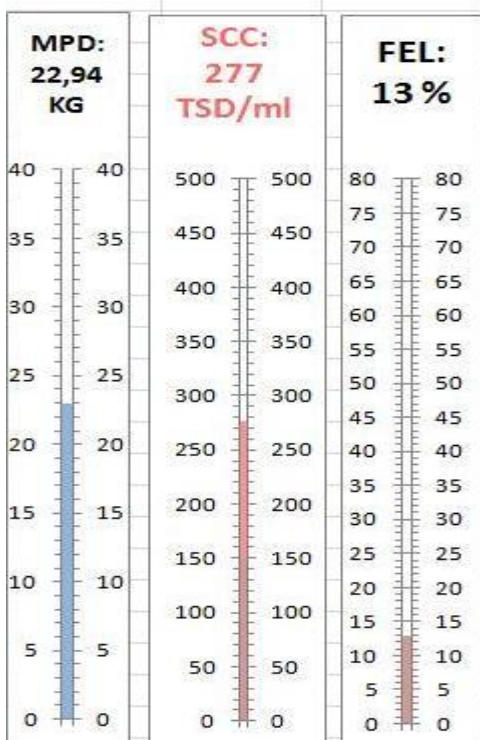
This is the mean milk yield of all cows (also dry or not tested because of mastitis) at all milktests during broken through the number of cows being in the herd at the test days, during the last 12 month.

SCC: Somatic cell count

This is the sum of the cells in the milk of the tested cows broken through the sum of the yield of tested cows, during the last 12 month.

FEL: Fat Early Lactation

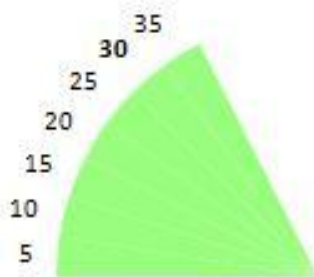
Percentage of cows at last milktest fat higher 5,1% at milktests during the last 12 month.



CC: Culled Cows

The difference of the number of cows, that did calve during the last 12 days to the number of the cows has been culled during the last 12 days as percentage of the number of cows, that did calve during the last 12 month.

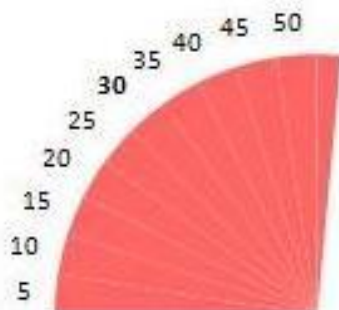
Culled cows: 35 %



OC: Open cows

The difference of the number cows, that did calve during the last 12 days to the number of the cows that did conceive during the last 12 days as percentage of the cows, of the number cows, that did calve during the last 12 month.

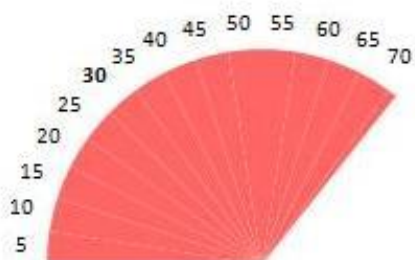
Open cows : 53 %



AC: Age of Cows

Percentage of cows until 2.lactation of all cows at the test days during the last 12 month.

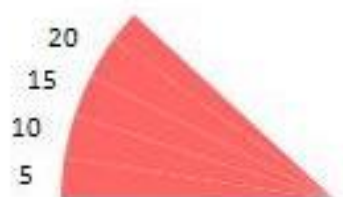
Age of Cows: 71,4 %



AL: Age in Lactation

Percentage of cows > 315 days in milk of all cows at the test days during the last 12 month.

Age in Lactation: 23,7 %



Parameter describing shorter intervals.

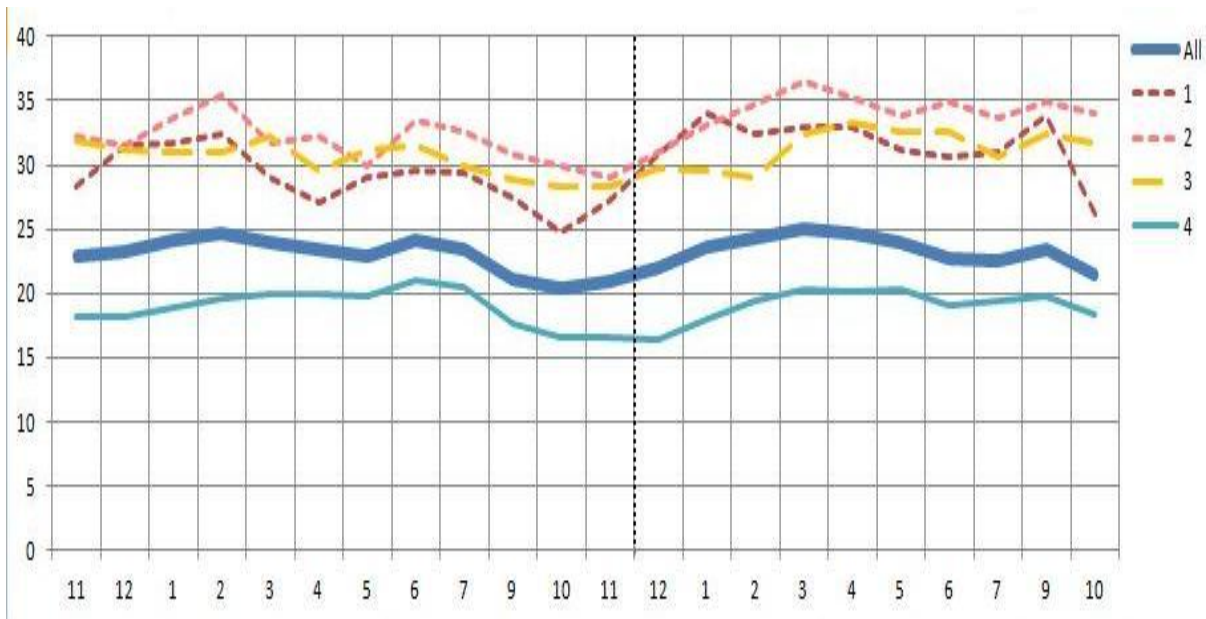
Milk per cow an day:

Y-Axis: MPD of All cows, 1.Lstage: DIM 1-42;2.Lstage 2: DIM 43-84;

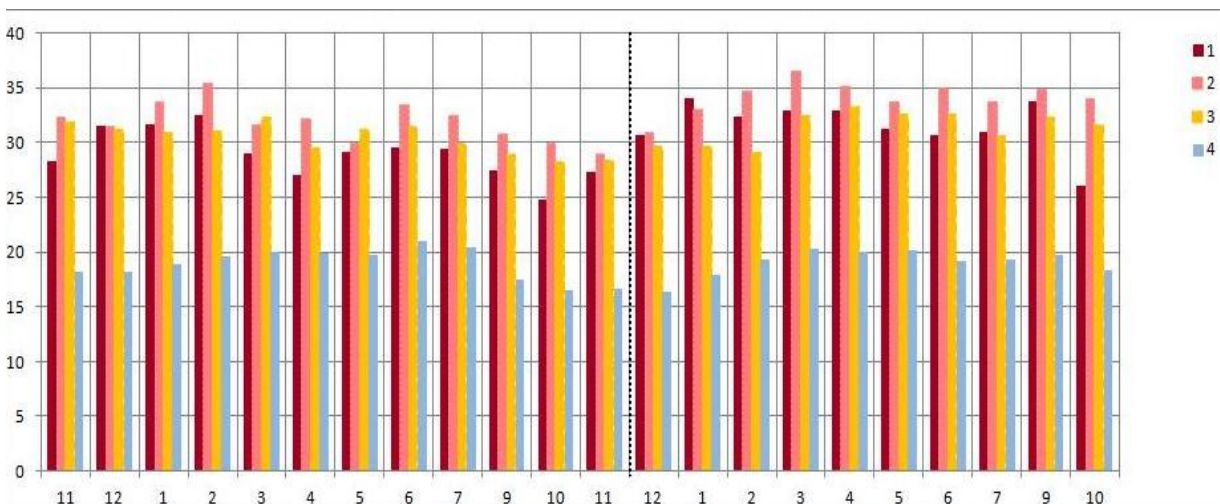
3.Lstage: DIM 85-126;4.Lstage: DIM >126

X-Axis: the last 24 month(usually 11 milktests in a year in Germany)

Lines:



Columns

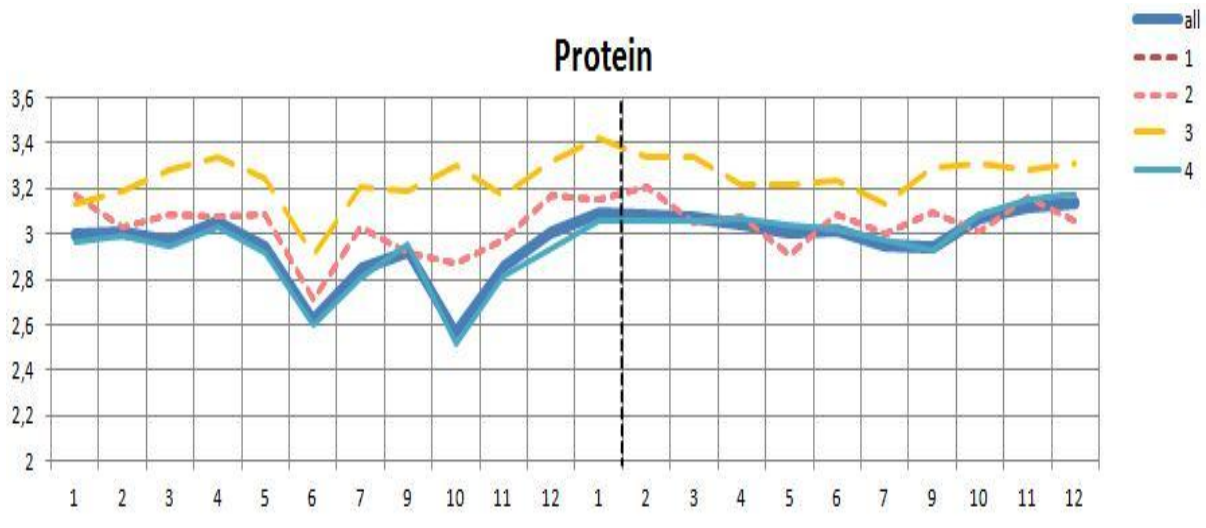


Mean protein content:

Y-Axis: Mean protein: All cows, 1.Lstage: DIM 1-42; 2.Lstage2: DIM 43-84;

3.Lstage: DIM 85-126; 4.Lstage: DIM >126

X-Axis: the last 24 month (usually 11 milktests in a year in Germany)

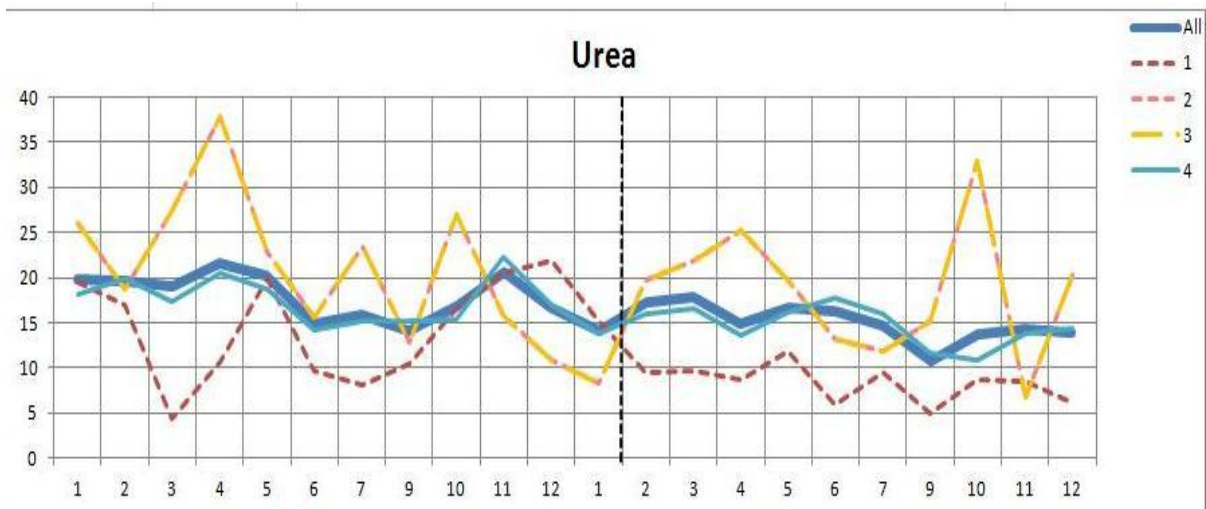


Mean Urea content:

Y-Axis: Mean Urea in ppm: All cows, 1.Lstage: DIM 1-42;

2.Lstage2: DIM 43-84; 3.Lstage: DIM 85-126; 4.Lstage: DIM >126

X-Axis: the last 24 month (usually 11 milktests in a year in Germany)

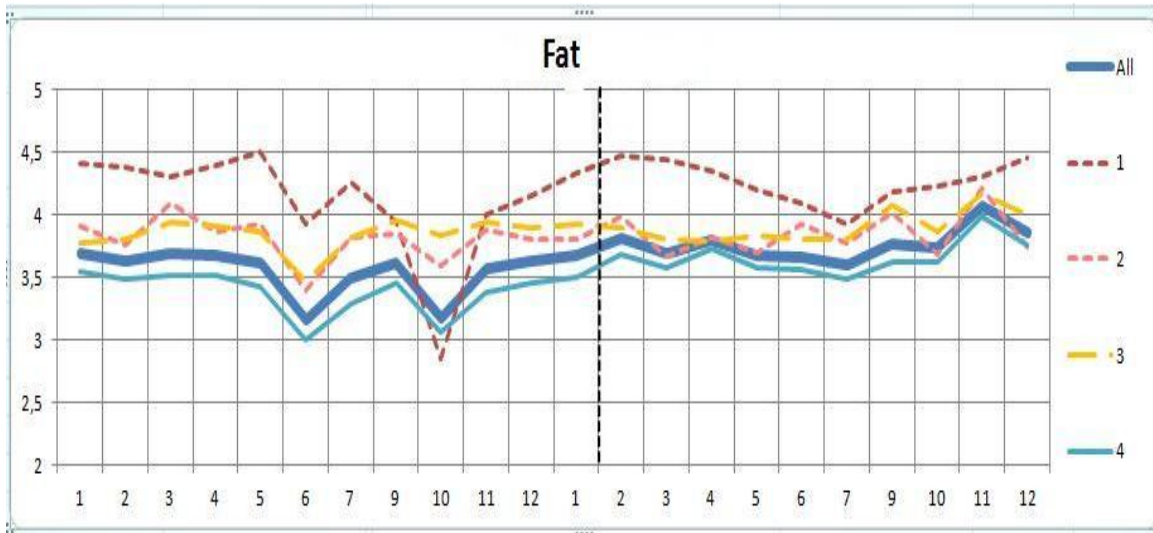


Mean fat content:

Y-Axis: Mean fat: All cows, 1.Lstage DIM 1-42; 2.Lstage2: DIM 43-84;

3.Lstage DIM 85-126;4.Lstage: DIM >126

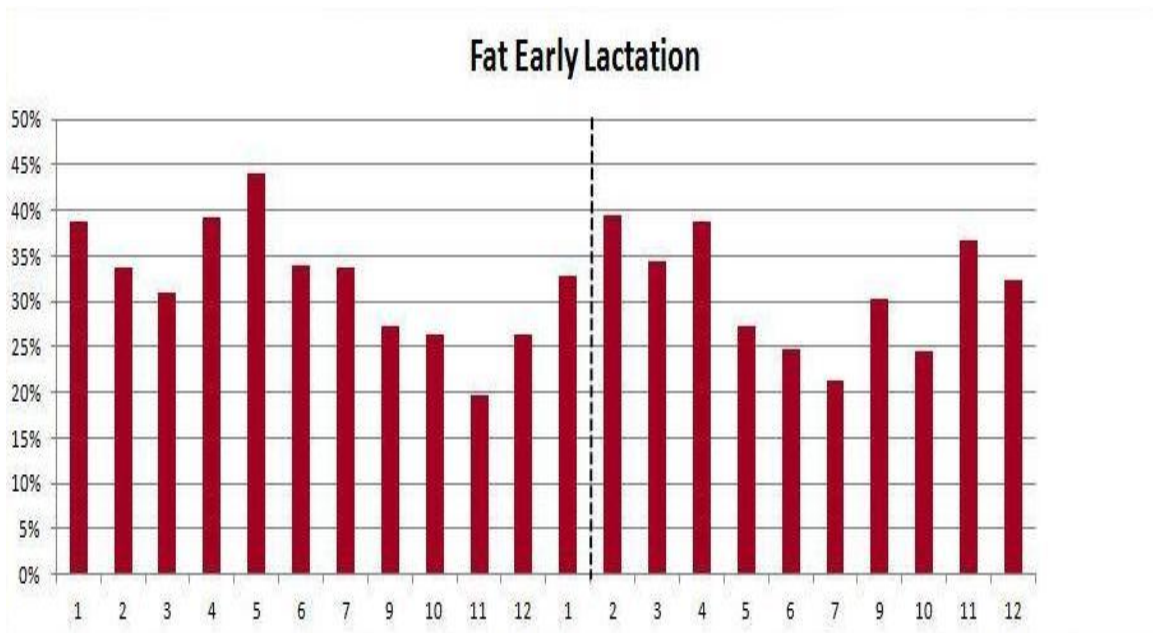
X-Axis: the last 24 month(usually 11 milktests in a year in Germany)



FAT Early Lactation:

Y-Axis: Percentage of cows at last milktest fat higher 5,1%

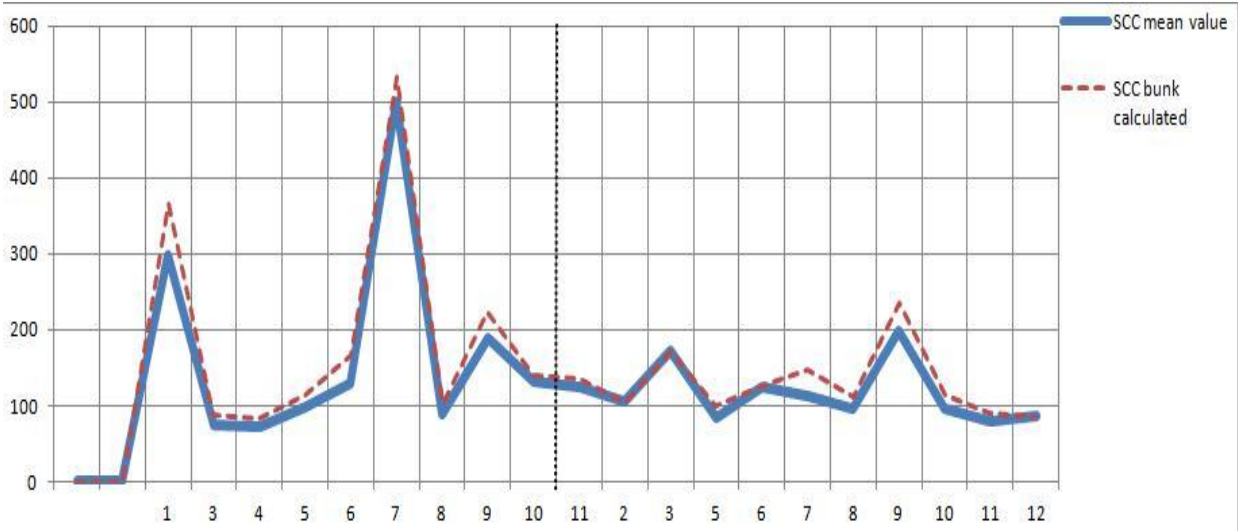
X-Axis: the last 24 month(usually 11 milktests in a year in Germany)



Mean SCC:

Y-Axis: mean scc of all tested cows, calculated bunk scc:

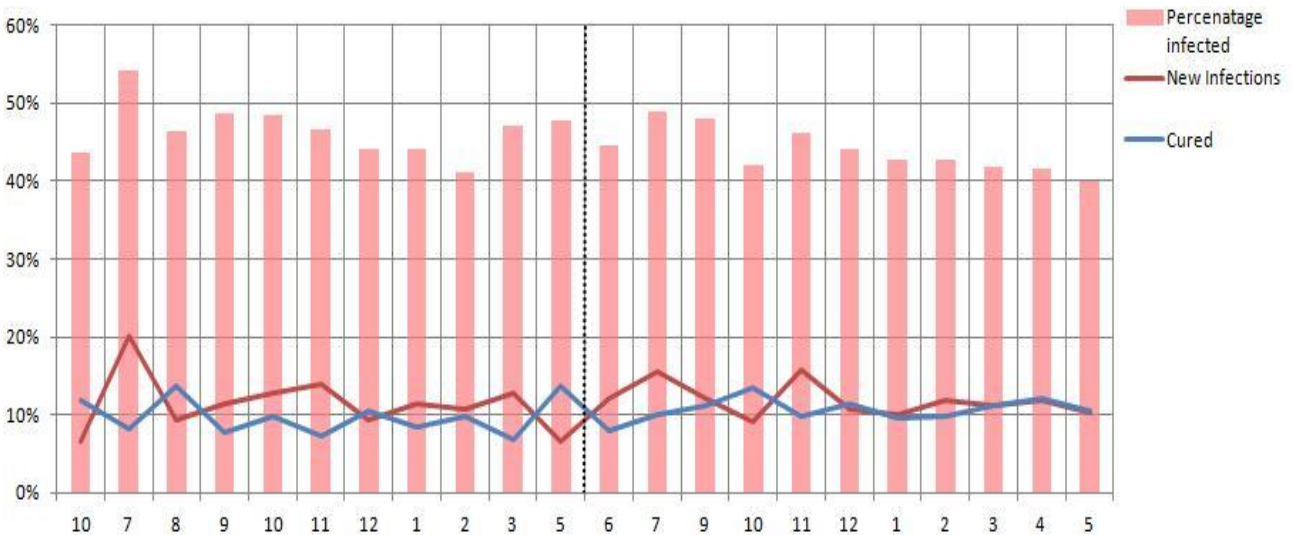
X-Axis: the last 24 month(usually 11 milktests in a year in Germany)



Infections of the lactating cows

Y-Axis: Percentage infected, new in infections, cured

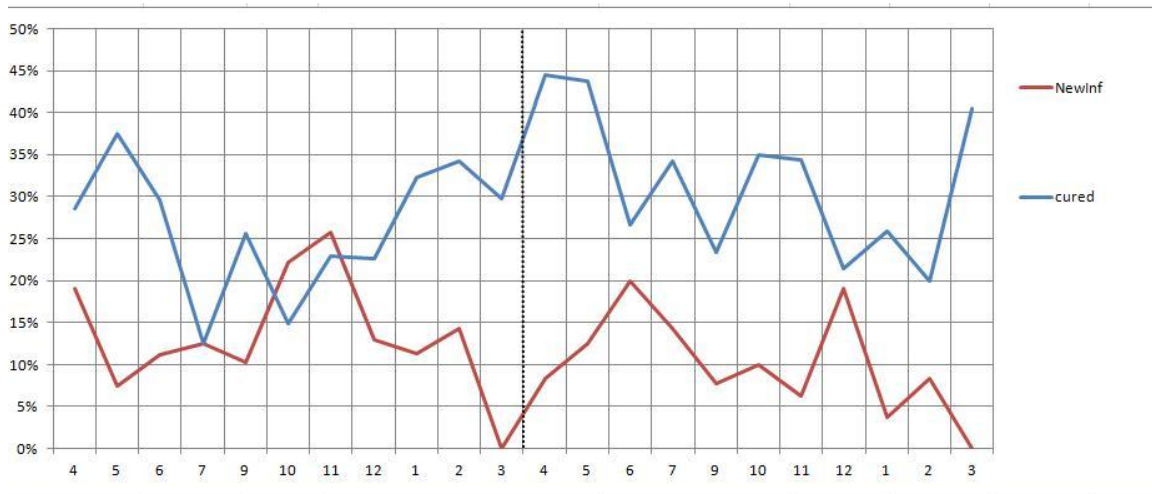
X-Axis: the last 24 month(usually 11 milktests in a year in Germany)



Infections of the dry cows

Y-Axis: Percentage infected, new in infections, cured

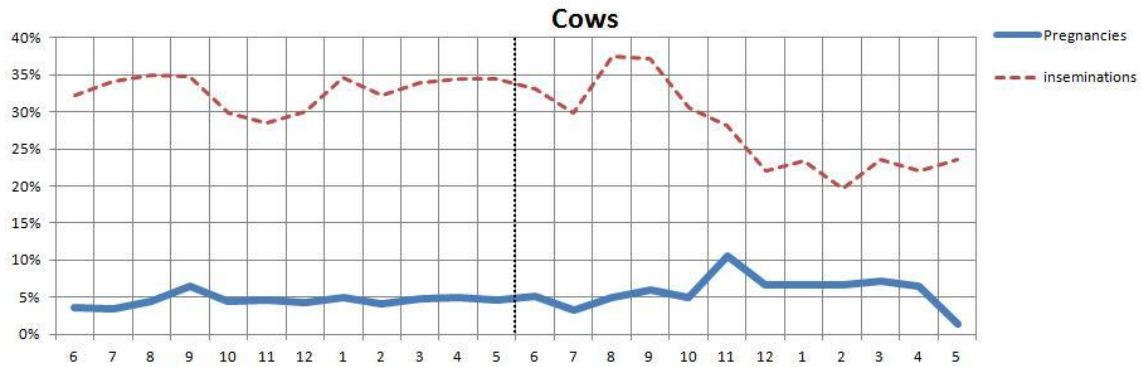
X-Axis: the last 24 month(usually 11 milktests in a year in Germany)



Fertility Cows per month

Y-Axis: Percentage of inseminations and pregnancies to the calvings during the last 12 month

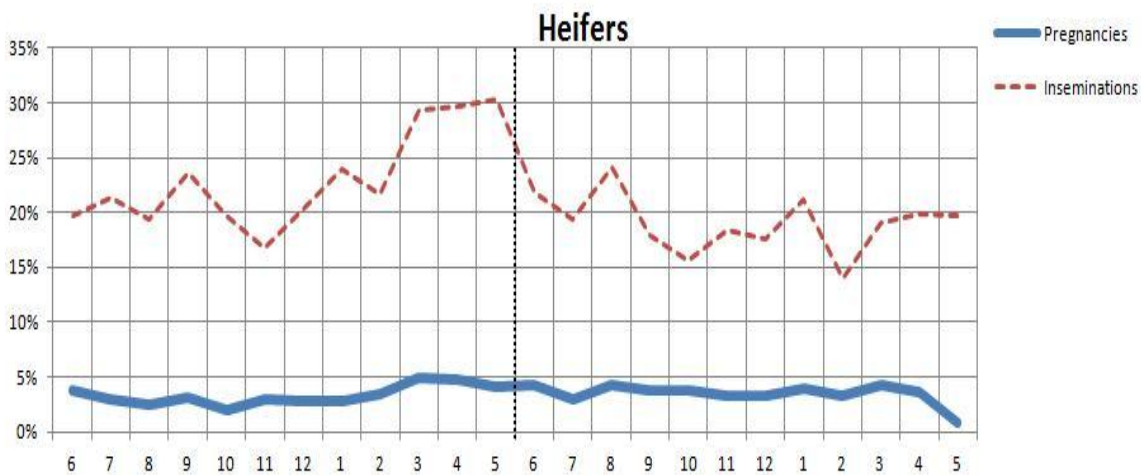
X-Axis: the last 24 month



Fertility Heifers per month:

Y-Axis: Percentage of inseminations and pregnancies to the calvings during the last 12 month

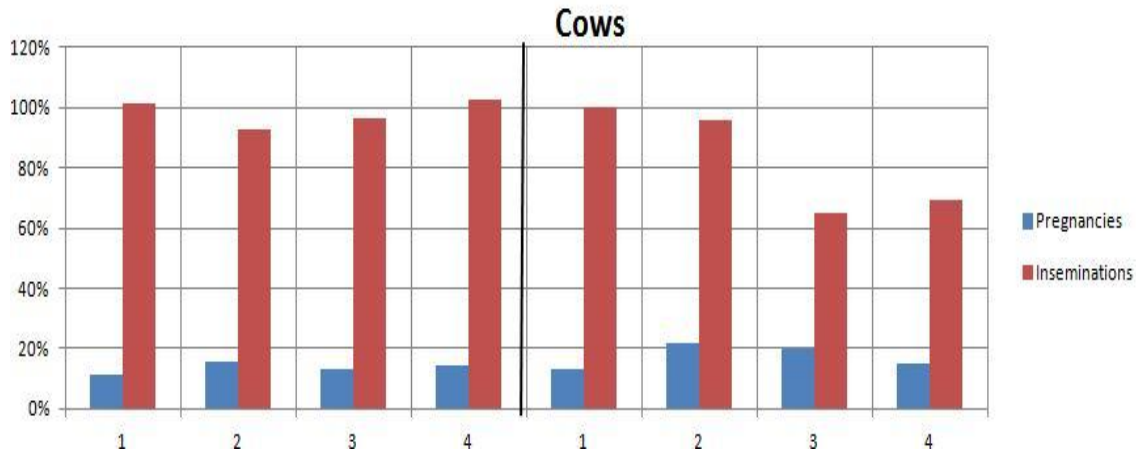
X-Axis: the last 24 month



Fertility Cows per quartal:

Y-Axis: Percentage of inseminations and pregnancies to the calvings during the last 12 month

X-Axis: the last two years divided into quartals



Fertility Heifers per quartal:

Y-Achsis: Percentage of inseminations and pregnancies to the calvings during the last 12 month

X-Achsis: the last two years divided into quartals:

