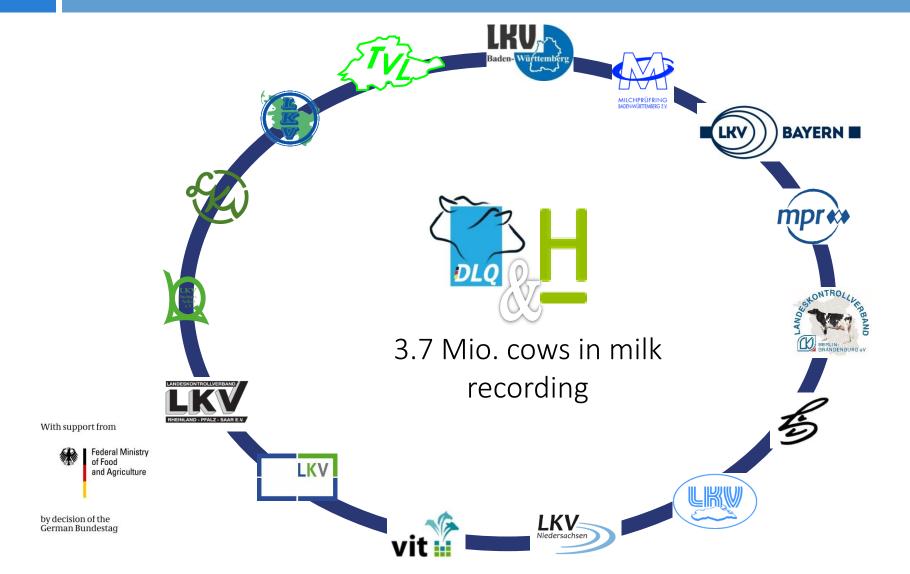


Somatic Cell Count – added value due to new benchmarks and differentiation

Dr. Dip. ECAR Britta Behr & Dr. Eva Scharinger | DLQ Bonn & Wolnzach | Germany ICAR Udder health meeting | June 13th 2017 | Edinburgh

# Udder Health Project





# Udder Health Program





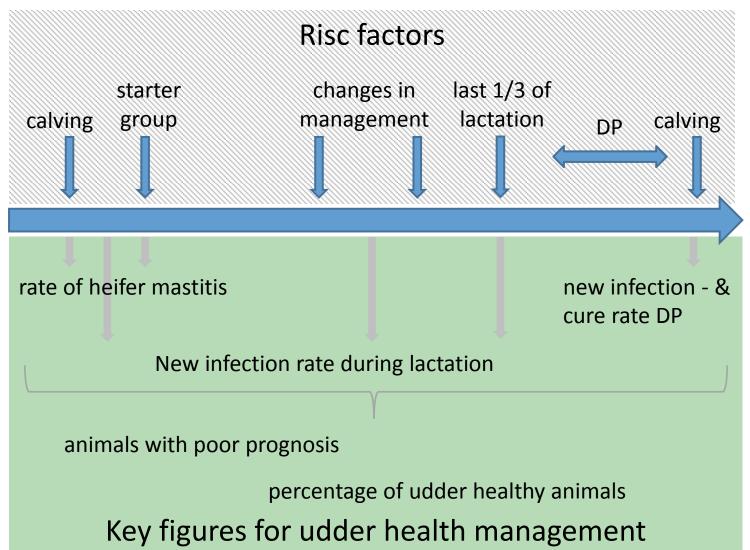




# Analysing facts instead of using gut instinct







#### New Udder Health Report



- □ Key figures are calculated based on SSC in monthly milk yield recording
- Displayed in tables and charts either in a paper report or online
- □ For all 48.000 farms
- Benchmarking: regional reference values of the 25% best farms are reported for each key figure
- Nationwide standardised and automated calculation (DLQ, 2014)
  - Cell count threshold 100.000 cells: high sensitivity

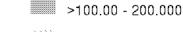


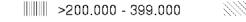
## 1. Proportion of cows with healthy udders



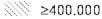
Anteil (%) Vergleich 25 % +

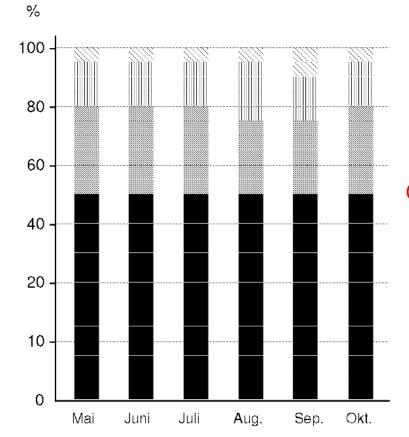
#### Anteil Tiere in Zellzahlklassen (in %)





≥100.000





Anteil der Tiere mit ≤ 100.000 Zellen/ml an allen laktierenden Tieren in der aktuellen MLP

**Eutergesunde Tiere** 

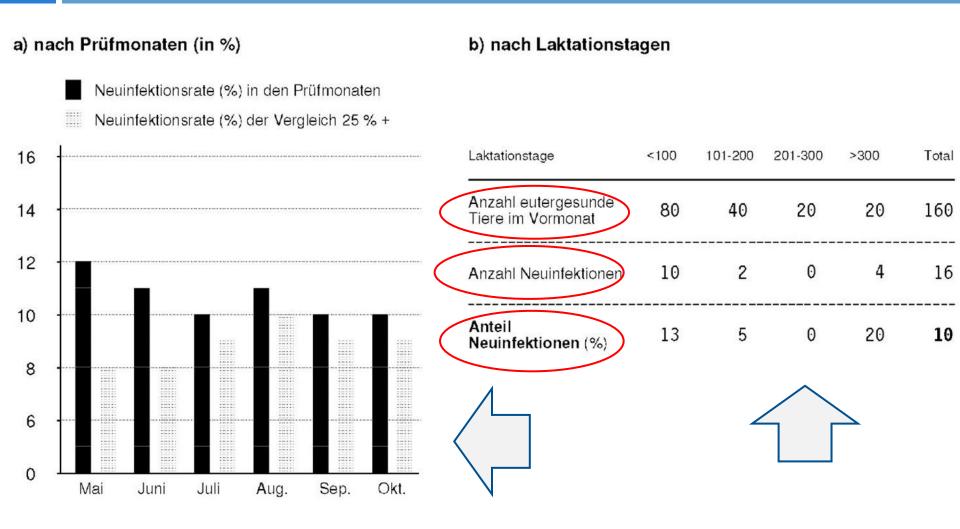
Zellzahlklassen

		( ,	
ZZ ≤ 100.000	166	55	76
ZZ > 100.000 - 200.000	60	20	
ZZ > 200.000 - 399.000	52	17	
ZZ ≥ 400.000 - 200.000	22	7	

Anzahl

## 2. New infection rate during lactation





# 3. Cows with poor prognosis



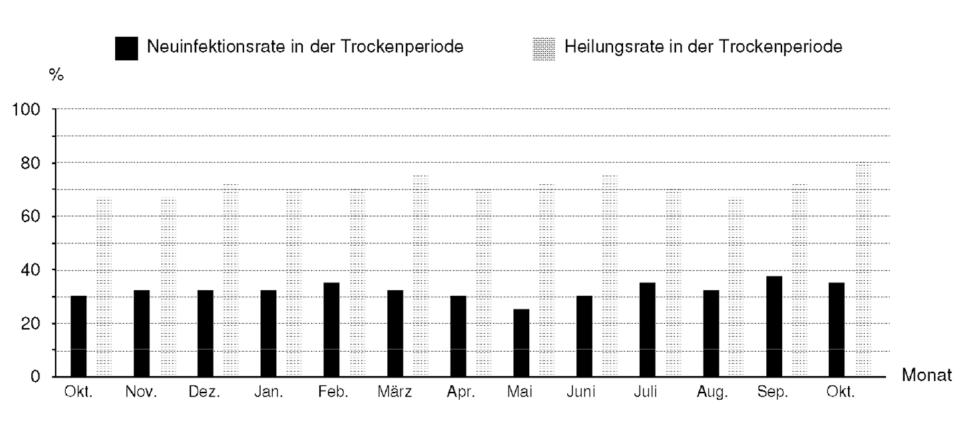
Prüfmonat	Mai	Juni	Juli	Aug.	Sep.	Okt.
Anzahl geprüfter Tiere	280	280	300	300	290	300
Anzahl betroffener Tiere	6	6	18	18	6	6
Anteil betroffener Tiere (%)	2	2	6	6	2	2
Rate Vergleich 25 % + (%)	2	2	1	1	1	1

#### Auflistung der betroffenen Tiere

Ohrmarke	Name	Stall-Nr.	Zellzahlen (in 1.000 Zellen/ml)			LaktNr.	LaktTag	
			Aug.	Juli	Aug.			
DE 03 999 12344	********************************	111	772	1.100	1.000	3	254	
DE 03 999 12345		112	1.000	779	854	3	225	
DE 03 999 12346		113	854	888	965	3	338	
DE 03 999 12400		211	714	825	954	3	200	

## 4. Dry cow new infection and cure rate





## 4. Dry cow new infection and cure rate

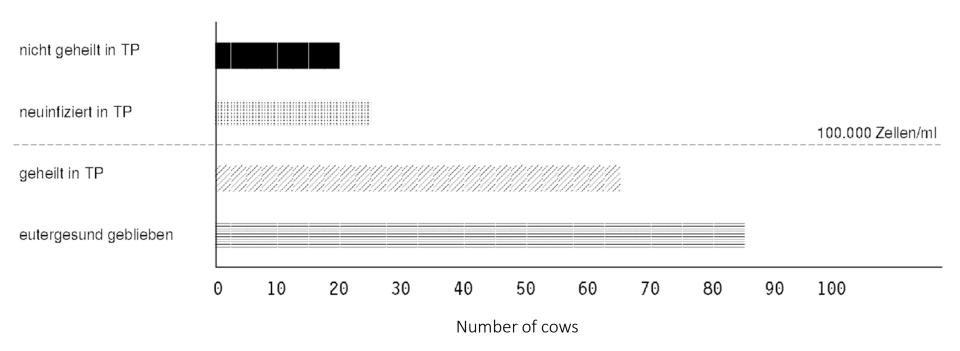


## 4. Dry cow new infection and cure rate

Prüfmonat	Nov.2013 - Okt. 2014	Sep. 2014	Okt. 2014	Prüfmonat	Nov.2013 - Okt. 2014	Sep. 2014	Okt. 2014
Anzahl geprüfter Kühe	205	25	20	Anzahl geprüfter Kühe	205	25	20
Anzahl Kühe mit ≤ 100.000 vor der TP	115	11	10	Anzahl Kühe mit > 100.000 vor der TP	90	14	10
Anzahl neuinfizierter Tiere in der TP	28	4	3	Anzahl geheilter Tiere in der TP	68	10	9
Neuinfektionsrate in der TP (%)	25	36	30	Heilungssrate in der TP (%)	75	71	90
Ergebnis Vergleich 25 % + (%)	17	17	16	Ergebnis Vergleich 25 % + (%)	75	75	74

## 5. Efficiency of dry period over last 12 months



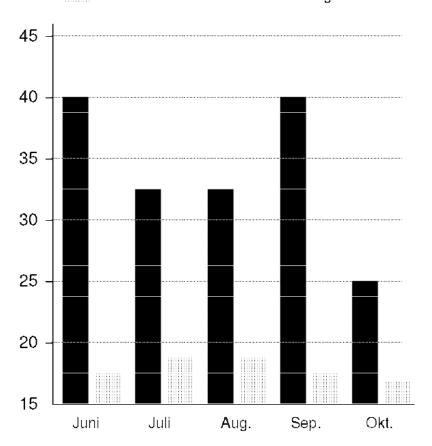


#### 6. Rate of heifer mastitis



Mastitisrate Tiere 1. Laktation auf dem Betrieb

Mastitisrate Tiere 1. Laktation Vergleich 25 % +



Prüfmonat	Nov - Okt.	.2013 2014	Sep. 2014	Okt. 2014	
Anzahl geprüfter Tiere 1. Laktation	$\supset$	60	5	8	
Anzahl Tiere 1. Laktation > 100.000 Zellen/ml in der ersten MLP		20	2	2	
Mastitisrate Tiere 1. Laktation (%)		33	40	25	
Ergebnis Vergleich 25 % + (%)		17	17	16	

## Key figures as indicators



#### Low proportion of udder healthy animals?

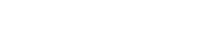
- General indicator
- Do I have to focus on udder health?

#### Many animals with poor prognosis?

- Do I have a problem with cowrelated pathogens?
- Are culling decisions reasonable?
- How effective is my concept of therapy?

#### Strategic monitoring of herd status

- Early warning system
- Control of success



Teat condition?

Pasture?

- Uncovering of weak points

#### How well do my heifers start into the lactation?

- Housing hygiene?
- Feeding and supply with vitamins, minerals and trace elements?
- optimally timed transit feeding?
- Calving management?
- Positive: Separate heifer group, Early mating (age at first calving < 27 months)?
- Negative: exceeding edema? Early opening of teat canal? Overcrowding? Juvenile suckling?

#### How well does your dry cow management work?

- Bedding/housing/calving hygiene
- Body condition at drying off?

Too many new infections during

Use of new products?

Bedding / housing hygiene?

Milking quality and hygiene?

lactation?

- No antibiotic treatment at drying off, no internal teat sealer?
- Efficiency of therapy at drying off?
- Are culling decisions reasonable?
- Negativ: Long re-bedding intervalls?, Overcrowding? High milk yield at drying off? Too many animals with poor prognosis?

#### Fact sheets and checklists





## The end ist just the beginning



- Key figures are calculated for each farm since 2015
- Training institutions included the work with the key figures and factsheets in their program
- Despite extensive information, key figures are not yet used on a really broad base by farmers



# Thank you very much for your attention!









Gefördert durch:



aufgrund eines Beschlusses