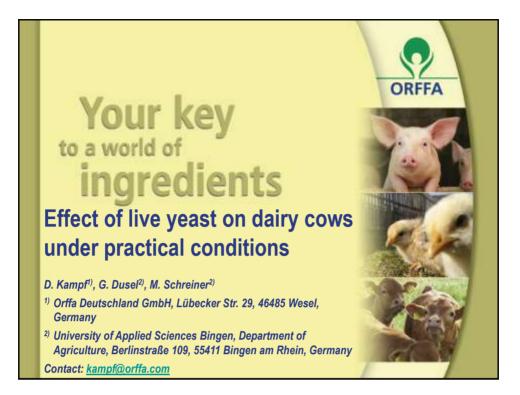
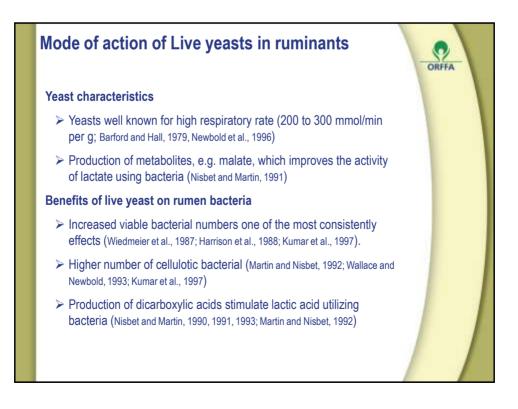
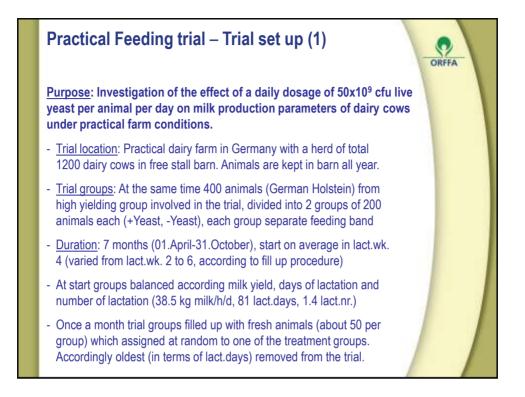
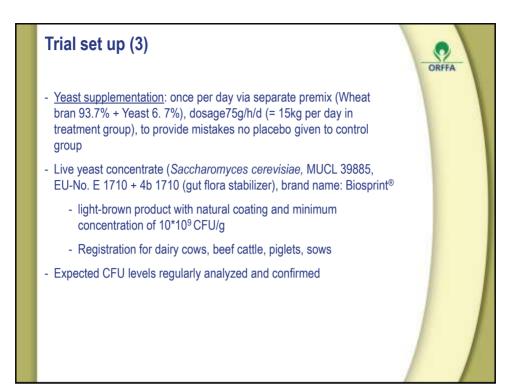
30_07_Kampf - Use of live yeast for dairy cows under practical conditions kampf@orffa.com







Trial set up (2)			ORFFA	
 Feed: Animals were fed a total practice on the farm (see table mixed wagon and fed directly t 	e), TMR was mi	ixed in a computer proc		
Feed stuff	Feed Intake (kg/head/day)	Nutrient	Ration content (g/kg DM)	
Maize silage	24.00	Crude protein	166	
Grass silage	8.00	RNB ¹	± 0	
Brewer's grain	4.00	Crude fiber	161	
Rapeseed meal Soybean meal	1.00 2.00	Structured Crude fiber ² Starch	2705 231	
Concentrated feed	2.00	Resistant starch ²	1037	
Fat (Ca soap)	0.25	Energy MJ NEL	7.2	
Mineral feed	0.20		- ,-	
kg DM/head/day (total) kg DM/head/day (from roughage)	22.9 12.6			
		¹ = Ruminal Nitrogen Balar ² = in g per head per day	ice	

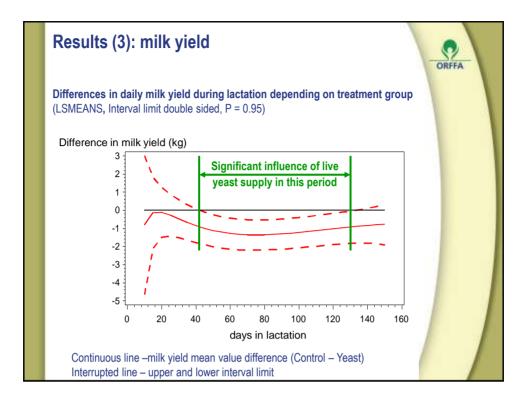


Trial s	et up (4)				ORF	FA
yield, 2		onth individual		group, weekly ind ition (fat, protein, g		
			N	with special mod cofactors lact.nr.		
	vailable animals a quantities in stap			ilable observations per la n min=6 max=159)	actation and day of lac	ctation
					actation and day of lac Number of observations	
(entry of milk	quantities in stap	le) Number of observations	(day of lactatio	n min=6 max=159) Days in lactation ≤ 50	Number of observations 982	
(entry of milk Lactation	quantities in stap Number of animals 544	le) Number of observations 5780	(day of lactatio	n min=6 max=159) Days in lactation	Number of observations	
(entry of milk	quantities in stap	le) Number of observations	(day of lactatio	n min=6 max=159) Days in lactation ≤ 50	Number of observations 982	
(entry of milk Lactation	quantities in stap Number of animals 544	le) Number of observations 5780	(day of lactatio	n min=6 max=159) Days in lactation ≤ 50 51 - ≤100 > 100 ≤ 50	Number of observations 982 2592 2206 472	
(entry of milk Lactation 1 2	quantities in stap Number of animals 544 227	le) Number of observations 5780 2337	(day of lactatio	n min=6 max=159) Days in lactation ≤ 50 51 - ≤100 > 100	Number of observations 982 2592 2206	
(entry of milk Lactation 1 2	quantities in stap Number of animals 544 227	le) Number of observations 5780 2337	(day of lactatio	n min=6 max=159) Days in lactation ≤ 50 51 - ≤100 > 100 ≤ 50	Number of observations 982 2592 2206 472	
(entry of milk Lactation 1 2	quantities in stap Number of animals 544 227	le) Number of observations 5780 2337	(day of lactatio	n min=6 max=159) Days in lactation ≤ 50 51 - ≤100 ≤ 50 51 - ≤100	Number of observations 982 2592 2206 472 1132	
(entry of milk Lactation 1 2	quantities in stap Number of animals 544 227	le) Number of observations 5780 2337	(day of lactatio	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Number of observations 982 2592 2206 472 1132 733	
(entry of milk Lactation 1 2	quantities in stap Number of animals 544 227	le) Number of observations 5780 2337	(day of lactatio	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Number of observations 982 2592 2206 472 1132 733 436	

Results (1): Feed inta	ke	0
		ORFFA
	Feed intake (kg DM	per animal and day)*
Feed stuff	Control	Yeast
Maize silage	8.22	8.25
Grass silage	2.16	2.18
Brewer's grain	0.90	0.89
Rapeseed meal	1.21	1.21
Soybean meal	1.80	1.80
Concentrated feed	5.93	5.92
Fat (Ca soap)	0.24	0.24
Mineral feed	0.19	0.19
Biosprint premix	-	0.075
kg DM / head / day	20.650	20.755
* Feed intake calculate	ed from average daily	v feed quantity per
feeding group and n		, d
3 3 5 c c p c c c c c c c c c c c c c c c c		

Results (2): milk yield				
Average Daily Milk Y	Control (±s)	Yeast (±s)	Difference (B-K)	PR> t
Total [#]	36.88 (0.71)	37.99 (0.71)	+1.10 (0.40)	0.006
1. Lactation#	34.36 (0.73)	34.13 (0.75)	-0.23 (0.49)	0.640
2. Lactation#	38.25 (0.84)	39.33 (0.85)	+1.08 (0.76)	0.160
>2. Lactation [#]	38.02 (0.86)	40.47 (0.86)	+2.45 (0.78)	0.001
1050. day in lactation	34.93 (0.82)	35.49 (0.84)	+0.56 (0.58)	0.340
51100. day in lactation	38.00 (0.72)	39.31 (0.73)	+1.31 (0.42)	0.002
101150. day in lactation	35.15 (0.73)	36.14 (0.73)	+0.99 (0.44)	0.024
FCM*	33.71 (0.25)	34.51 (0.25)	+0.78 (0.36)	0.026
EFCM*	34.10 (0.24)	34.89 (0.24)	+0.79 (0.34)	0.019

calculated on basis of weekly individual milk yield * FCM und EFCM calculated on basis of data of the individual milk control (2xmonth)



(LSMEANS)	(LSMEANS)				
Con	trol (±s) Y	′east (±s)	Difference (B-K)	PR> t	
Total (in %) 3.36	6 (0.033) 3	.30 (0.033)	-0.062 (0.047)	0.18	
		.18 (0.041)	-0.016 (0.057)	0.76	
		.31 (0.063)	-0.150 (0.089)	0.09	
>2. Lactation 3.42	2 (0.063) 3	.40 (0.065)	-0.017 (0.092)	0.85	
Total (in kg/h/d) 1.24	<mark>1 (0.012) 1.</mark>	266 (0.012)	+0.024 (0.017)	0.16	

Results (5): n	nilk protein			ORFFA	-
	Control (±s)	Yeast (±s)	Difference (B-K)	PR> t	
Total (in %)	3.19 (0.010)	3.16 (0.010)	-0.030 (0.015)	0.04	
1. Lactation	3.17 (0.013)	3.18 (0.013)	+0.016 (0.018)	0.37	
2. Lactation	3.26 (0.020)	3.20 (0.020)	-0.064 (0.028)	0.03	
>2. Lactation	3.15 (0.022)	3.11 (0.021)	-0.042 (0.029)	0.15	
Total (in kg/h/d)	1.194 (0.008)	1.219 (0.008)	+0.026 (0.011)	0.02	

Lactose-, ure	ll count			
	Control (±s)	Yeast (±s)	Difference (B-K)	PR> t
Lactose (in %)	4.79 (0.007)	4.80 (0.007)	+0.005 (0.009)	0.55
Urea (in mg/l)	301.1 (1.93)	303.3 (1.92)	+2.25 (2.70)	0.40
SCC (x1000/ml)	260 (687)	263 (761)	-	-
SCC (In)	4.50 (0.058)	4.45 (0.058)	-0.05 (0.081)	0.48
	. ,	. ,	- 0.05 (0.081)	- 0.48

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