



HEALTH ISSUES IN ORGANIC DAIRY PRODUCTION IN DENMARK

FINN STRUDSHOLM and BIRGIT INGVORSEN, SEGES ORGANIC

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AGENDA

Overview DK organic milk production

Health – dairy cows

- * Ketosis
- * Milk Fever
- * Udder health
- * Dead cows

Health – calves

- * Statistics dead calves
- * Main issues



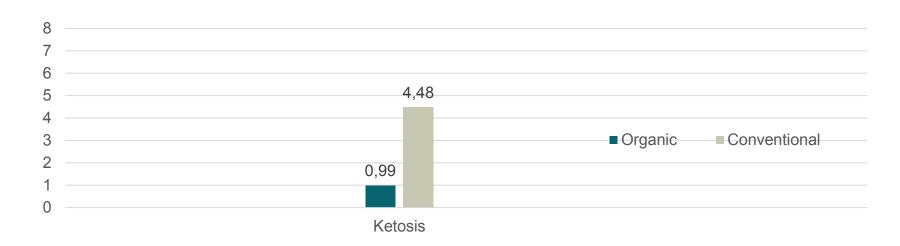


ORGANIC MILK PRODUCTION IN DK – AN OVERVIEW

	2018	2017	2016
Number of cows	78.112	70.365	59.400
Number of herds	413	397	345
Average herd size, cows	183	177	172
Yield, EKM/cow	9.862	9.765	9.594
Breeds, % of cows Holstein Red Jersey Crossings	65 4 11 20	66 4 10 20	



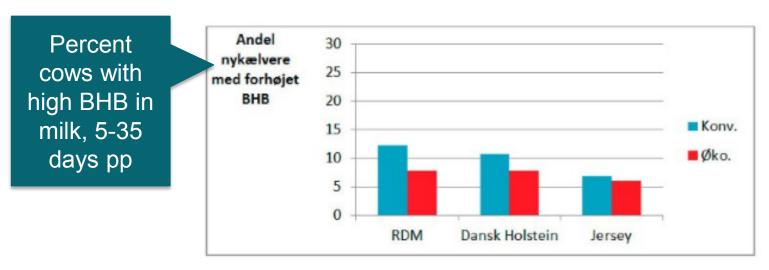
KETOSIS IN DANISH DAIRY COWS, TREATMENTS PER 100 COWS



Treatment data do probably not give the right "biological" difference between Organic and Conventional herds

SEGES

SUBCLINICAL KETOSIS BASED ON BHB I DHI-SAMPLES



Figur 2. Andel nykælvere (%) med forhøjet BHB i mælken (>0,15 mmol/l) fordelt på konventionelle og økologiske malkekøer



HOW TO PREVENT KETOSIS IN ORGANIC COWS?

- Avoid cows in high BCS (optimal = 3,0)
- Avoid too high energy in the dry period ("controlled energy")
- Secure feed bunk space in dry period and early lactation
- Use high quality roughage and high energy intake PP
- Secure rumen health
- Etc.



KETOSIS – TREATMENT

Allowed

- Veterinary medicines (by Vet.)
- Calciumpropionate
- Sodiumpropionate

Not allowed

- Propylenglykol
- Glycerol



MILK FEVER – TREATMENTS - ORGANIC AND CONVENTIONAL COWS

Milk fever Mælkefeber hos stor race (3+) gennem året, pct. af kælvninger Large breed 20 >= 3 calving % of calvings 15 Conv. vs. Org. 10 5 0

Figur 4. Forekomst af mælkefeber hos ældre (3+) malkekøer af stor race opdelt på økologi og konventionel

Discussion: Same treatment threshold in Conventional versus Orgacic?



MILK FEVER - PREVENTION -TREATMENT

Allowed:

- Calciumproducts / boluses around calving
- Veterinary treatment: Calcium in blod

Now allowed:

- X-Zelit in dry period
- Anionic salts (CAB) in dry period



HOW TO PREVENT MILK FEVER IN ORGANIC COWS?

- Avoid roughage with high K in dry period
- Focus on CAB
- Dry rations with low Ca A
- Avoid fat cows
- Secure optimal level of Vit. D and Magnesium
- Give extra calcium (boluses around calving)

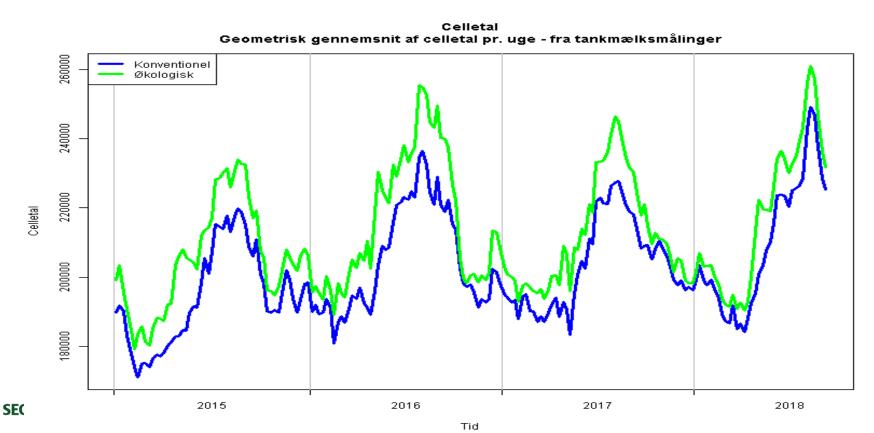


UDDER HEALTH IN ORGANIC VS. CONVENTIONAL DANISH DAIRY HERDS

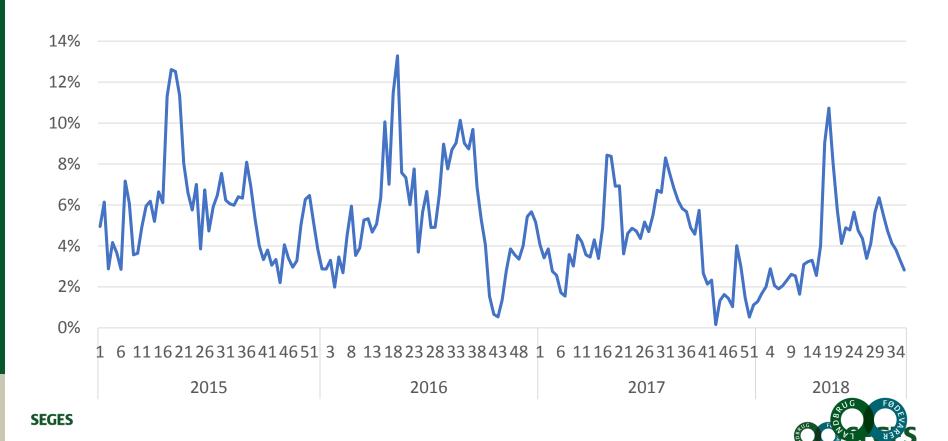
	Organic	Conventional
Mastitis (per cow), treatments	0,19	0,29
Cell number x 1000 (DHI)	285	262
Cell number x 1000 (Dairy)	257	251
Dry cow treatment	0,19	0,35



Cells in organic vesus conventional Milk during season



DIFFERENCE (%) BETWEEN ORG. AND CON. CELL NUMBER

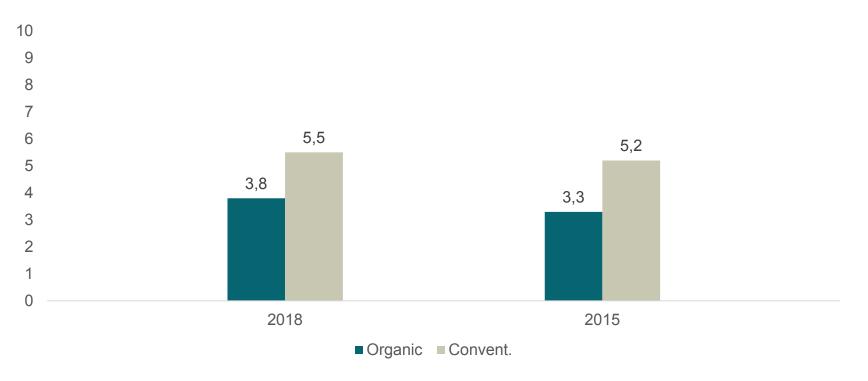


TREATMENT OF MASTITIS ON ORGANIC FARMS

- Antibiotics (veterinary treatment)
- Homoepatic medicine
- Plant extracts
- Etc.



DEAD COWS – ORGANIC VS. CONVENTIONAL, %



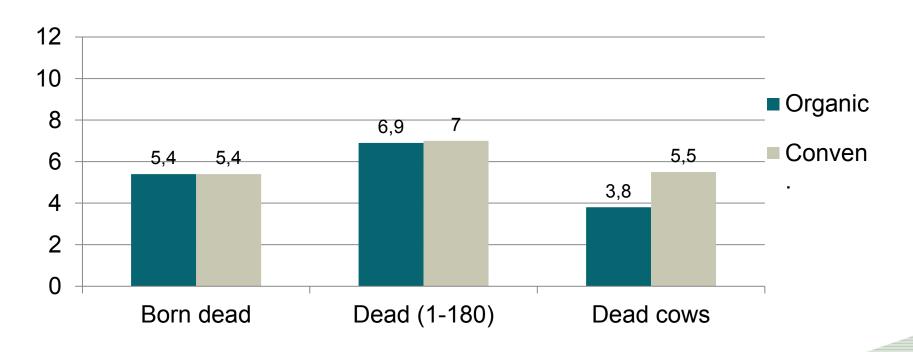


HEALTH ISSUES - CALVES



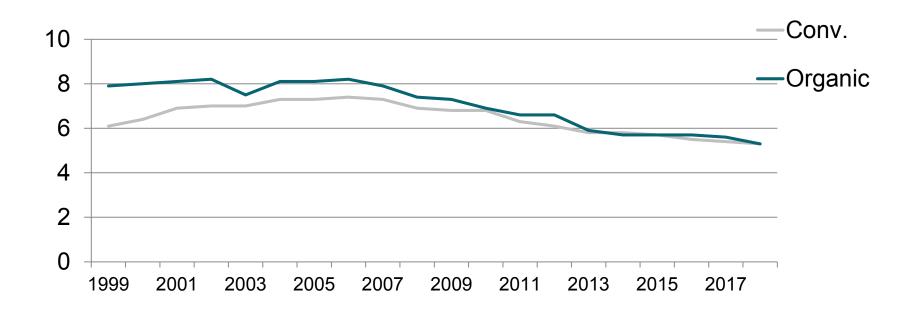


PRECENT DEATH RATE (%) ORGANIC DAIRY CALVES



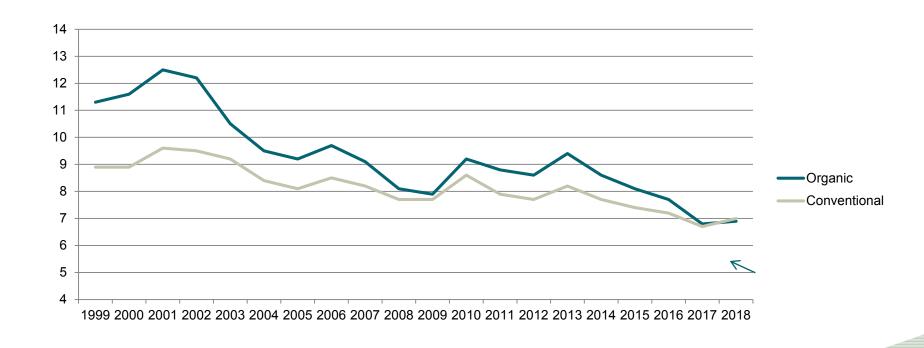


NUMBER OF DEAD BORN ORGANIC CALVES (%)





NUMBER OF DEATH ORGANIC CALVES (%, 1-180 DAYS) OVER YEARS





MAIN HEALTH PROBLEMS - ORGANIC CALVES

- Diarrhea
- Pneumonia
- Flu
- Parasites (grass)
- Coccidiosis
- Etc.



OTHER HEALTH RELATED PROJECTS/ACTIVITIES IN THE DANISH ORGANIC DAIRY SECTOR

- Salmonella Dublin
- Paratuberculosis
- Use of health data as welfare-documentation
- Long living dairy cows ("The road to six lactations")

