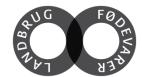


Feeding fibres and weight

1. Trial

- 15% chicory or 15% lupines
- Carcass weight 75 or 95 kg i.e. 95 or 120 kg LW
- Two-factorial design.
- In total 468 pigs
- o Diets
 - Chicory or lupines optimized into the diets
 - Fed from 2 weeks before the first deliveries
- Weight at slaughter
 - Pigs weighed several times before delivery
 - Actual carcass weight 75,1 and 93,9



Hypotheses

H_o Pigs fed fermentable fibres (chicory or lupines) have lower skatole irrespective of slaughter weight





H_o Pigs slaughtered at lower slaughter weight have lower androstenone level irrespective of feeding.





Boar taint in relation to weight

Preliminary results

Slaughter weight, kg	75	95
Live weight, kg	98	124
Skatole (slaughter-house) ppm	0.06	0.07
Androstenone ppm	1.23 ^a	1.72 ^b

i.e. 20% increase in rejection rate if recorded on androstenone (> 1.00 ppm)

Cost of 20 kg slaughter weight?





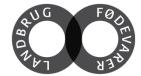
Boar taint in relation to feeding

Preliminary results

What are the costs?

Feeding	Control	15% chicory	5% lupine
Skatole (slaughter house) ppm	0.08a	0.05b	0.07a
Androstenone ppm	1.45	1.53	1.40





Conclusion

H_o Pigs fed fermentable fibres (chicory or lupines) have lower skatole irrespective of slaughter weight

Feeding chicory reduced skatole level in fat, but no effect of lupines.

H_o Pigs slaughtered at lower slaughter have a lower androstenone level irrespective of feeding

Reducing slaughter weight from 95 to 75 kg reduced the level of androstenone - no effect on the skatole eq



Pure grain before slaughter

2. Trial

- Pure grain from 4 days prior to slaughter
- All pigs in the pen were fed grain for 4 days
- Deliveries over 2 times 2-week interval, per pen
 - Pigs delivered 2nd time have had grain for 8 days!
- Slaughtering:
 - Carcass weight 85 kg
 - Skatole eq
 - Human nose
- Other registrations
 - Daily weight gain
 - Feed utilisation



Hypothesis

H_o Pigs fed pure grain for 4 days prior to slaughter have lower skatole eq







Feeding pure grain 4 days prior to slaughter

50/50 barley/wheat 4 days prior to slaughter

Skatole eq

	Control	Grain for 4 days
No of male pigs	222	225
Skatol avg.	0.08a	0.06b

Human nose – no effect of treatment



Feeding pure grain 2 days prior to slaughter

50/50 barley/wheat 2 days prior to slaughter

Skatole eq

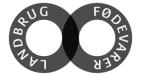
	Control	Grain for 2 days
No of male pigs	222	225

Why?
Practical way to reduce boar tait



Bonus info: Wet feed or dry feed

Herd	Liquid feed	Dry feed
Rejected, skatole eq	2.5%	4.8%



Conclusion

- 15% chicory in the diet from 2 weeks before slaughter
 - Reduces skatole by 40%
 - No effect on androstenone
 - Price 7 Euro per pig
- 15% lupines in the diet from 2 weeks before slaughter
 - No effect on boar taint



- Reducing slaughter weight from 95 to 75 kg
 - No effect on skatole
 - 30% reduction in androstenone
 - Price approx. 7 Euro (or more) per pig
- Grain feeding:
 - Reduction of skatole by 24% (0.079 ppm to 0.060 ppm)
 - Price approx. 15 Euro per pig

