

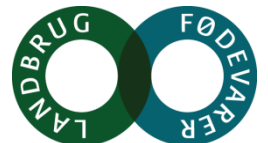


Organic male pigs in Denmark

Hanne Maribo Chief Scientist,
hma@lf.dk



Danish Pig
Research Centre



Analysis methods used

- **Slaughterhouse**
 - Human nose
 - Skatole equivalents (skatole eq)
- **Laboratory HPLC**
 - Skatole
 - Indole
 - Androstenone

Human nose - At-line

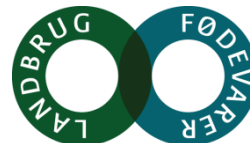


Screening of organic male pigs

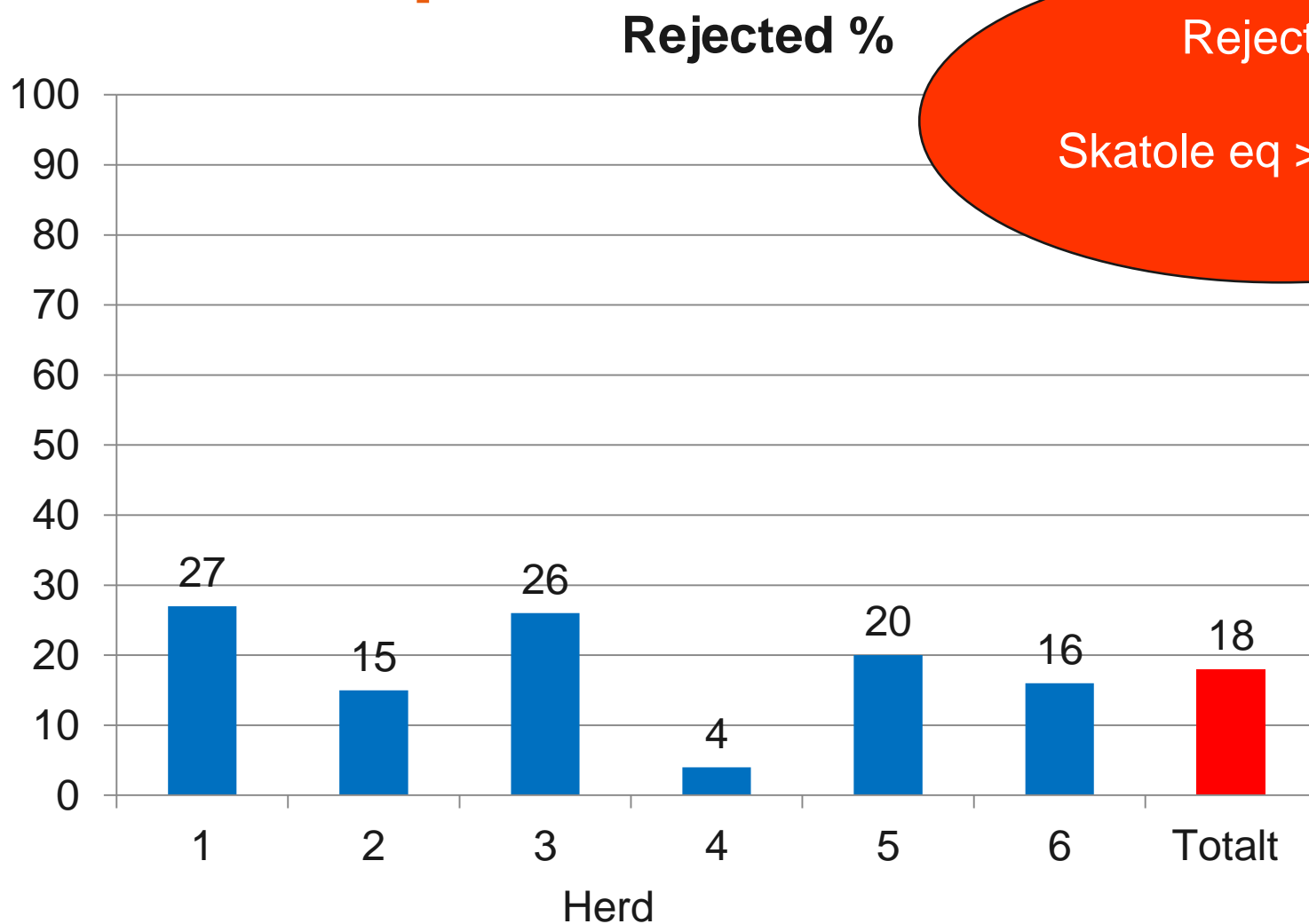
- **Screening of male pigs (2011):**
 - Skatole eq, skatole and androstenone (ppm)
 - Human nose = "sniffer method"
 - 0: nothing; 1: a little; 2: a lot
- **Design:**
 - 6 herds with production of 50 male pigs each,
 - In total 300 male pigs were slaughtered
 - Collaboration with Friland Food



Danish Pig
Research Centre



Organic male pigs, skatole eq



Rejected:
Skatole eq >0.25 ppm

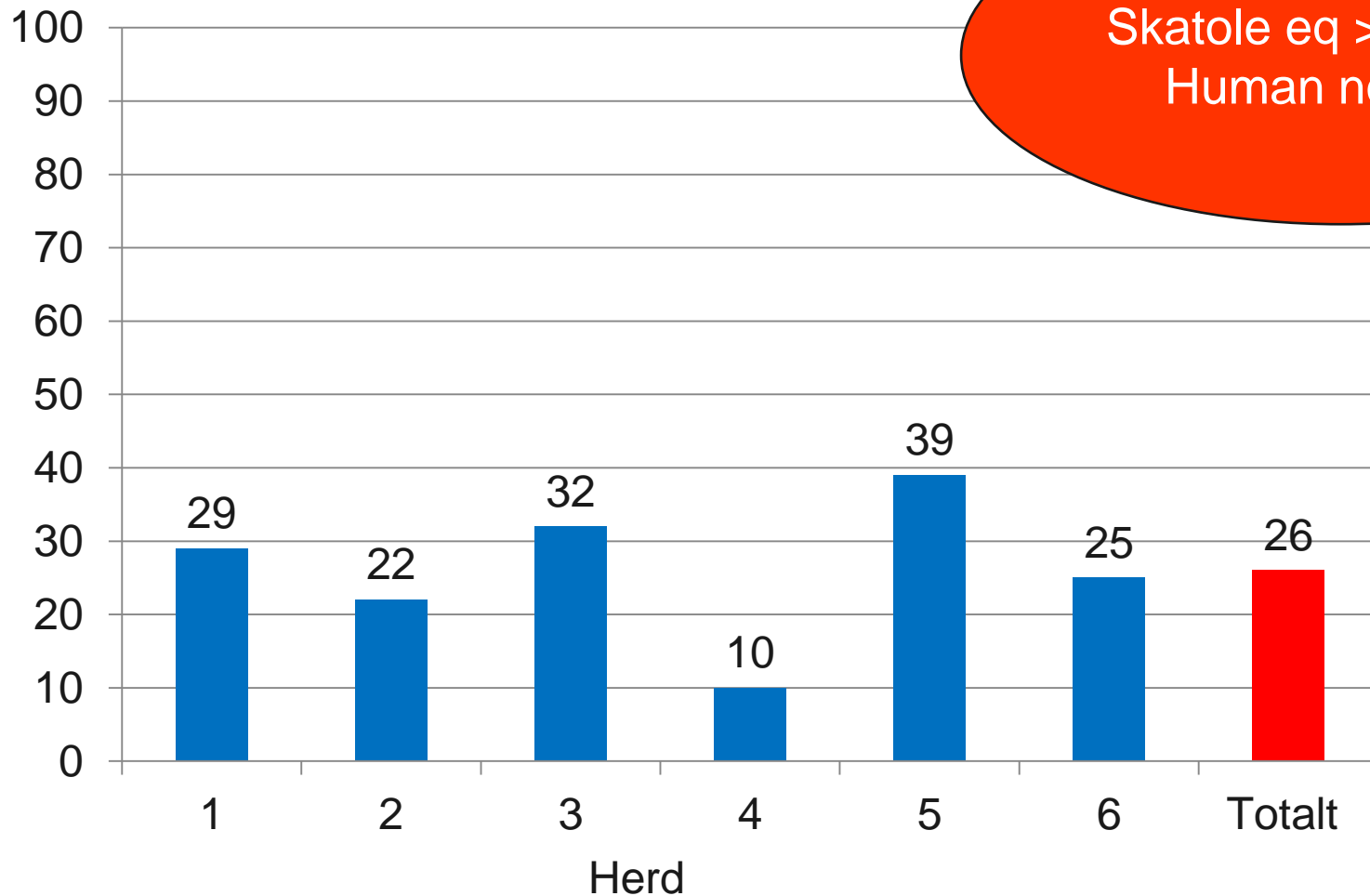
Maribo, 2013, trial report no. 955

Danish Pig
Research Centre



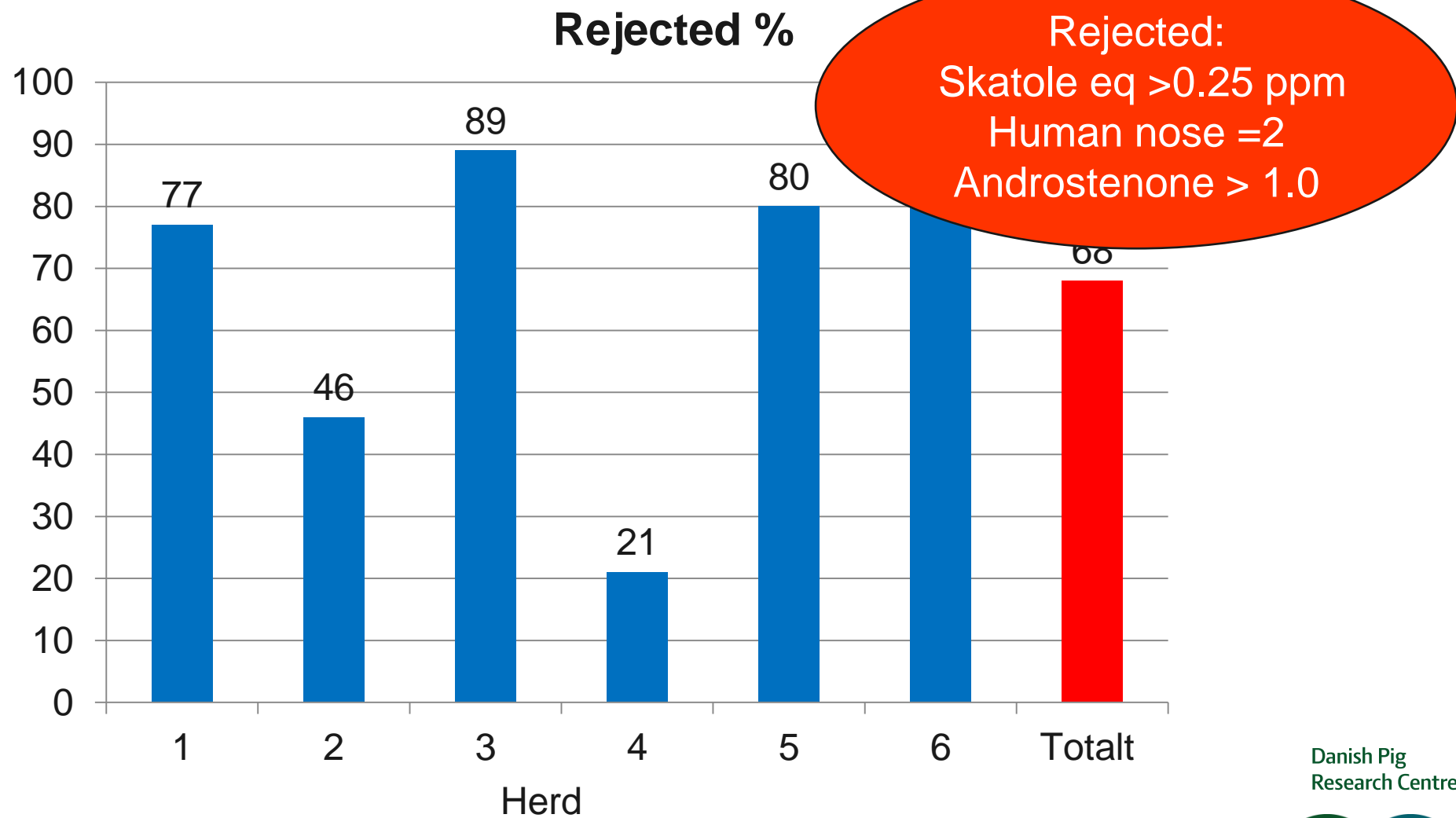
Organic male pigs, skatole eq and human nose!

Rejected %



Rejected:
Skatole eq >0.25 ppm
Human nose =2

Organic male pigs, skatole eq, human nose and androstenone



Maribo, 2013, trial report no. 955

Danish Pig
Research Centre



Previous work with entire males ('90)

	Male pigs database	Tested in trials
Liquid feed	Reduction	Reduction
Whey	Reduction	Not tested
Fully slatted floor	Reduction	Reduction
Feed with more than 6 % fibres	Reduction	Not tested
Fasting before slaughter	Reduction	Reduction
Feed with more than 5 % sugar beet pellets	Reduction	Reduction
Liquid feed + 5 % rape seed meal	Reduction	Not tested
Dry feed + 5 % coconut meal	Reduction	Not tested

Conclusions - visit & interview herds

- **Previous work with entire males**
 - Farm level - risk of male pig odour
- **High slaughter weight and age**
 - Farms 2 and 5 had the lowest slaughter weight,
 - only farm 2 had low average androstenone levels.
 - Farm 1 high average androstenone levels
 - Health problems – older pigs
 - In general:
 - Daily gain was relatively low - older male pigs

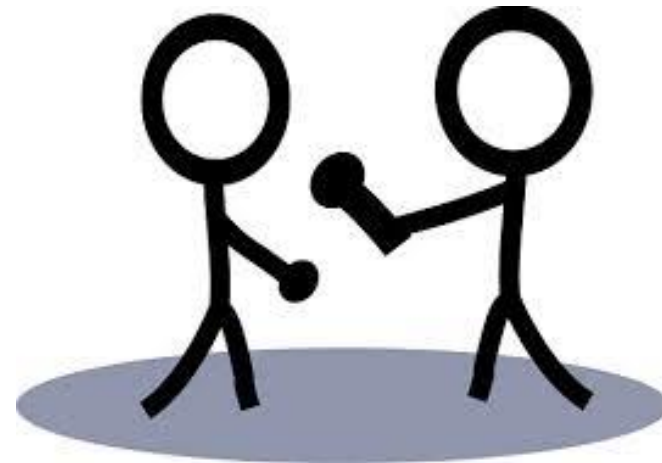


Danish Pig
Research Centre



Conclusions - visit & interview herds

- **Dirty pigs: risk of increased skatole level.**
 - Farms 3 and 6, risk of dirty pigs.
 - Farm 3 skatole levels were high
 - Farm 6 skatole levels low
- **Housing according to gender: reduces boar taint**
 - Theory: entire males housed with female pigs - early maturity
 - Farm 2, 3 and 6, pigs mixed housing
 - Farm 2 had low average androstenone levels
 - Farms 3 and 6 had the highest average androstenone levels.



Danish Pig
Research Centre



Organic male pigs conclusion

- Organic male pigs high rejection rates
- Large variations between herds
- Economic balance at rejection rates of approx. 4%
- Help required for reducing rejection rates