FEEDING BEHAVIOUR OF WEANED PIGS FED EITHER PELLETS OR MEAL: EFFECTS OF THE NUMBER OF ANIMALS PER FEEDING PLACE

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INTRODUCTION

-Tube feeders with integrated drinkers are said to allow pigs choosing between wet and dry feed. -Recommendations suggest to group until 60 pigs around such a feeder... -What's the impact of the number of pigs/feeding place on water intake and feeding behaviour when pigs are fed meal or pellets ?

AIMS METHODS

To compare water intake and feeding behaviour of 30 *versus* 50 pigs fed meal or pellets in a tube feeder with integrated drinkers.

Experimental design:

- 160 weaned pigs (7.8 25.9 kg) fed meal (m) or pellets (p)
- group size (Gs): 30 pigs (G30) or 50 pigs (G50)
- one tube feeder per pen = 4 available wet/dry feeding places

Behavioural observations (24 hours, once a week, for 6 weeks):

- Number (N) of pigs interacting with the feeder (instantaneous sampling)
- Occupation Time (OT): % of time when at least one pig interacts with the feeder (continuous observations)
- Utilisation Time of drinkers (UT): minutes when at least 1 stimulation of drinkers was registered (continuous observations)

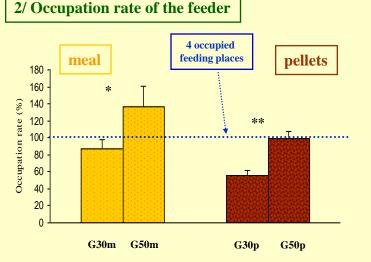
Behavioural estimations: - Time at the feeder (T, min/24h.pig) : T = N x 1440 x OT/Gs - Occupation Rate (OR, %) : OR = N x OT/4 - Drinking time (D, min/24h.pig): D = UT/Gs

Water intake measurement: - Mean daily water intake (Wi, 1/24h.pig): one measure per group and per day, divided by Gs

RESULTS

1/ Time at the feeder, drinking time and water intake

	G30m	р	G50m	G30p	р	G50p
T (min/24h.pig)	167.7 ± 20.4	NS	158.3 ± 27.8	108.3 ± 11.4	NS	114.1 ± 10.5
D (min/24h.pig)	31.2 ± 9.6	*	22.7 ± 4.8	$\textbf{22.9} \pm \textbf{4.8}$	*	18.3 ± 2.4
Wi (1/24h.pig)	2.3 ± 1.0	***	$\boldsymbol{1.9\pm0.9}$	2.1 ± 0.9	***	1.7 ± 0.8



NS: non significant; *: p<0.05; ***: p<0.001

CONCLUSIONS

1/ When using a tube-feeder with integrated drinkers:

 ✓ the number of pigs per feeding place influences feeding behaviour
✓ this effect varied according to food presentation

2/ Food presentation is important to determine an optimal number of pigs/feeding place

