

Concentrated whey in fattening pig feeding on farm testing results

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A total of 480 pigs (half females and half castrated) were tested in order to compare a commercial diet with a diet containing 600 g dry matter in the form of concentrated whey (300 g DM/1). The pigs were fed according to a feed restriction plan. They received the same amount of concentrated whey during the whole fattening period (46 to 26 p. 100 of the feed intake i.e. 28 p. 100 on an average).

At this incorporation level, concentrated whey had no effect on growth, carcass quality and mortality ; it allowed to save about 70 kg feed per pig and to obtain better marginal income improved by 24 FF. on an average. Other studies have to be made to determine the amount of concentrated whey necessary to obtain the best economic result.

Fattening of castrated males and females pigs subjected to feed restriction (maize-soybean meal diet) reared in individual or mixed pens

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Three restriction maxima were compared in *Large White* bacon pigs subjected to a progressive feed restriction plan according to weight :

Treatment 1 : castrated males	2.65 to 60 kg live weight
Treatment 2 : females	3.05 to 80 kg live weight
Treatment 3 : both sexes	2.80 to 70 kg live weight

The animals were fed a diet based on maize and soybean-meal containing 2.25 g lysine per Mcal D.E.

Comparison between treatments 1 and 2 (only males, only females) confirmed that the application of a restriction limit according to sex (8.2 Mcal D.E. for the males at 60 kg and 9.3 Mcal D.E. for the females at 80 kg) led to very similar carcass qualities in both cases. The fattening length was shorter by one week in females, but the feed conversion ratio was very similar for both sexes.

The average value of these data corresponds exactly to the performance recorded with treatment 3 (8.7 Mcal D.E. at 70 kg) where an average restriction limit was applied to animals of both sexes in equal number. Growth rate and feed conversion ratio were absolutely identical as well as the carcass quality.

As compared to isolated males, the growths of castrated males kept in mixed pens were faster. It may therefore be assumed that the domination behaviour of males resulted in an increased feed intake in mixed pens to the expense of the females. Mixed rearing did not affect the mean performance (feed intake, growth, feed efficiency), but slightly improved their homogeneity. The body composition and commercial grading were most affected in males kept in mixed pens. It may therefore be concluded that from a practical point of view, sex separation leads to a better control of the carcass quality of males. Moreover from an experimental point of view, the results of the comparison between diets offered according to a restricted feeding system adapted to sex can be transposed in practice to mixed group rearing of females and castrated males.

Results of an inquiry about the quality of pig feeds in Brittany

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With the aim of determining the values of pig feeds used in Brittany, 134 commercial or farm produced feeds were sampled between the 12th and the 20th of November 1979 and subjected to the following analyses : moisture, total crude protein, fat, crude fibre, mineral matter, Ca and P [growing pig (PC) n = 53 ; in gestating and lactating sow diets (T) n = 47 ; piglet diets from 35 to 60 days (PLT) n = 22 ; protein supplement for sows n = 12].

In the commercial feeds the average moisture levels were high (PC : 14.08 ± 0.93 ; T 13.61 ± 0.85) and exceeded by 14 p. 100 the legal maximum in 50 p. 100 and 30 p. 100 of the cases, respectively. The crude protein contents (PC 17.18 ± 0.72 ; T 15.85 ± 0.87 ; PLT 18.09 ± 1.34) as well as lysine contents (PC 0.84 ± 0.05 ; T 0.77 ± 0.065 ; PLT 0.99 ± 0.07) were satisfactory, except for the PLT feeds. The energy values (UF/100 kg) assessed (PC 99 ± 2.7 ; T 93 ± 3.8 ; PLT 101.5 ± 2.3) were extremely variable and quite insufficient for the lactation feeds (T) ; there were therefore large differences in the lysine/energy ratios and no relationship between the quality of the feeds (energy value) and their prices. Moreover, the supplements for breeding animals were characterized by the differences in the protein levels (from 27.3 to 41 p. 100) and the incorporation level (from 16 to 40 p. 100) in the feeds.

The farm produced feeds were comparable to the industrial feeds, but with lower and more variable crude protein levels (PC 16.19 ± 1.08 ; T 15.56 ± 1.36 ; PLT 18.08 ± 2.45).

A better knowledge and utilization of raw materials as well as a more detailed labelling of industrial feeds should contribute to improve their use by the farmers.