

Utilization of brewers dried grains (BDG) in growing-finishing pigs

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Valorization of brewers grain by the pig has not been much investigated. For that reason, it seemed interesting to test its possible use in pig feeding in a region where it is currently fed to cattle. The trial was made on 168 pigs distributed into groups at a mean live weight of 23.6 kg. Three diets containing 0, 10 and 20 p. 100 BDG were compared. They were formulated to supply 2.55 g lysine/1 000 kg DE.

The daily levels of feed intake were similar whatever the diet. The animals did not counterbalance the reduced energy concentration of the diet containing BDG by an increased feed intake. The energy intake was therefore reduced by 3 and 8 p. 100 with diets II and III, respectively. The growth of boars decreased almost linearly with the level of incorporation (—5 p. 100 and —11 p. 100, respectively). Females were more affected (—18 p. 100 at the highest level of incorporation). During the finishing period, the growth of boars was no more affected even with diet III (20 p. 100), that of the females was not affected with diet II (10 p. 100), while it was reduced with diets III (—7 p. 100).

There was a non-linear increase in the feed conversion ratio with the level of BDG : i.e., +7 p. 100 and 18 p. 100, respectively during the growing period. This trend was less marked during the finishing period. Incorporation of cellulose (BDG) into the diet reduced the commercial yield, especially that of females fed the 20 p. 100 BDG diet. The carcass grading index was reduced by the use of brewers grain parallel to the decrease in the muscle percentage.

From a technical point of view, brewers dried barley grains can be incorporated at the level of 10 p. 100 into finishing diets without problems. However, on account of the present raw matter prices its utilization is not recommended.

Possibilities of improving the feeding value of winter peas in the bacon pig Effect of cooking-extrusion treatment, of storage length and of tryptophan supplementation

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In a first trial made on a group of 96 minimal disease *Large White* pigs we compared a control diet based on maize and soyabean meal with two diets including 30 p. 100 winter peas, either raw or extruded. All the diets were offered in the form of moistened meal. Incorporation of a high level of peas led to a decrease in animal performance especially during the growing period. Extrusion by destroying most of the antinutritional factors led to an improvement in performance as compared to those obtained with the diet including raw peas. However, this improvement was limited since there remained a discrepancy of 3.5 p. 100 between the feed conversion ratios of the diet including extruded peas and the control diet.