

EFFECT OF DIETARY IDEAL AMINO ACID RATIOS IN COVERED AND HULLESS – BARLEY BASED DIETS ON PIG PERFORMANCE

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Summary. Two groups (control and experimental) of pigs were used to achieve the goal of the research. Each group consisted of 10, totally 40 cross-bred pigs- LW*PJ*LW of similar age, sex, live weight and origin. The effect of covered and hulless-barley based diets on pig performance was studied during the growing-fattening period, starting from 20 kg up to 100 kg live weight. Two kinds of feed were used. Analysing the feed content during the investigation we established that the energy concentration calculating per one kg of feed dry matter was sufficient 12.75 and 13.02 MJ kg. The protein need has also been provided 15.83 and 15.73 % of feed dry matter and digestible protein 144.0 and 158.4 g kg, depending on the age and live weight. The results showed that the inclusion of hulless-barley in pig feed slightly increased the growth of pigs liveweight and decreased the fattening period. The consumption of feed was reduced by 5 %. Economical calculations showed that hulless-barley diets decreased the feeding costs. The pig feed made of hulless – barley has a less costs about 3-4 Ls per ton than the feed made of covered barley.

According to the morphological composition of carcasses there were no significant differences between the groups. In our experiment pigs were fed full – value and well balanced feed, therefore the indices of the carcasses were high.

Key words: covered-barley, hulless-barley, carcass composition, pig nutrition.