

RAPSEED CAKE IN THE DIETS FOR BREEDING PIGS

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Summary. Our studies indicated that replacement of soybean oil-meal in the diets of sows by 2.5, 5 and 10% of rapeseed cake had no significant influence on the growth of pregnant and milking sows compared with that of control sows ($P > 0.5$). Rapeseed cake had no influence on feed intake and conception rate of pigs. The replacement of soybean oil-meal with 2.5; 5 and 10% of rapeseed cake revealed a tendency towards lower fertility of sows ($P > 0.2-0.4$), though this had no effect on the weight of newborn piglets. Higher amount of rapeseed cake (10%) in the diets to sows had a negative influence on the milk yield of sows and growth rate of piglets ($P < 0.01-0.001$), while 25 and 5% of rapeseed cake had no significant influence on the milk yield of sows and growth rate of piglets ($P > 0.1-0.5$). In conclusion, soybean oil-meal in the diets for replacement gilts, pregnant and milking sows may be replaced with 2.5-5% of rapeseed cake containing 3.05-4.16% of glucosinolates and 1.06-2.43% of erucic acid.

Keywords: rapeseed cake, growth of pigs, feed intake, fertility of sows, growth of piglets, milk composition of sows, nutrient digestibility.