Effect of feed and food scraps on growth performance in black pig

Shen-ChangChang¹, Chien-WenChou¹, Ling-HeChen¹, Hsien-Juang Huang¹, Jenn-Rong Yang¹ ¹Kaohsiung Animal Propagation Station, Livestock Research Institute, Council of Agriculture, Executive Yuan, Pingtung 91201, Taiwan

This study was to investigate the effects of feed and food scraps (FS) on growth performance of commercial black pig. A total of 96 commercial black pigs weighing about 47 kg were randomly allocated into three groups, barrows and gilts were kept in separate pens, with 6 pens and 16 heads per pen. The dietary treatments comprised of the following: 1) FS group (food scraps), 2) 15-13%CPgroup (feeding diet content 15% and 13% crude protein (CP) during growing and finishing period).3) 13-11% CP group (feeding diet content 13% and 11% crude protein (CP) during growing and finishing period). Each group of 32headswas treated for 28 wk. The results showed that the body weight and body weight gain didn't differ among treatments at 28 week. The feed consumption of FS group was lighter than15-13%CPand 13-11%CPgroups.The feeding period of week at FS group is defined as X (week/head) and withers height is defined as Y (cm), then Y = 47.5 + 5.11X - 0.56X2 + 0.03X3 - 0.0004X4 (R2 = 0.8217, P = 0.05) for the entire experimental period. 15-13% CP group and 13-11% CP group were Y = 56.2 + 1.07X (R2 = 0.8451, P = 0.05) and Y = 42.5 + 6.97X - 0.81X2 + 0.04X3-0.0006X4(R2 = 0.9004, P = 0.05), respectively. The total feed costs of individual groups were NT\$ 3,494, 3,772 and 3,528 during entire period, respectively. The study concluded that 13-11% CP in the feed did not adversely affect the growth performance. It could decreased total feed cost per body weight gain.

Key words: Black pig, food scraps, growth performance