

old), and 5 heavy Yorkshires pigs (118.7 kg; 5 mo old) were fitted with a T-cannula in the distal ileum. Pigs within each group were randomly allotted to a 5 × 5 Latin square design with 5 diets and 5 periods. Fecal samples were collected on d 12 and ileal digesta were collected on d 13 and 14 of each period. The AID and ATTD of GE and nutrients in each ingredient were calculated using the substitution procedure. When fed the control diet, Meishan pigs, had a tendency ($P \leq 0.10$) for greater AID of GE and CP (78.4 and 80.2%) than light (76.8 and 78.8%), and heavy Yorkshire pigs (75.5 and 76.7%). and had a greater ($P \leq 0.05$) ATTD of DM, GE, and carbohydrates (89.2, 89.4, 95.5%; respectively) than light (86.5, 86.3, and 92.3) and heavy Yorkshire pigs (87.0, 86.5, and 92.9%). The ATTD of DM, GE, CP, carbohydrates, and TDF in DDGS (81.3, 81.4, 85.5, 91.4, and 70.0%) were greater ($P \leq 0.01$) in Meishan pigs than in light Yorkshire (58.8, 60.9, 77.6, 85.3, and 47.8%) and heavy Yorkshire pigs (67.3, 69.4, 80.7, 86.4, and 60.0%). There were no differences among the 3 groups of pigs in the ATTD of nutrients in SH, SBP, and pectin. In conclusion, Meishan pigs have a greater ATTD of DM and GE in corn-soybean meal diets and in DDGS than Yorkshire pigs, but not in SH, SBP, and pectin.

Key Words: dietary fiber, breed, digestibility

154 Comparative digestibility of energy and nutrients in fibrous feed ingredients by Meishan and Yorkshire pigs. P. E. Urriola* and H. H. Stein, *University of Illinois, Urbana.*

The objective was to measure the apparent ileal (AID) and the apparent total tract digestibility (ATTD) of nutrients by Meishan and Yorkshire pigs fed 5 diets with different concentrations of total dietary fiber (TDF) and insoluble dietary fiber (IDF). The control diet was based on corn and soybean meal and contained 5 g/kg of titanium dioxide. Three additional diets were formulated by replacing 30% of the control diet with 30% of distillers dried grains with solubles (DDGS; TDF: 31.5%, IDF: 31.0%), soybean hulls (SBH; TDF: 57.2%, IDF: 51.0%), or sugar beet pulp (SBP; TDF: 67.0%, IDF: 61.6%). The last diet was formulated by replacing 15% of the control diet with 15% of pectin (TDF: 45.0%, IDF: 0.0%). Five Meishan (82.5 kg; 5 mo old), 5 light Yorkshires (90.0 kg; 4 mo