321 Digestibility of Amino Acids, Energy, Fat, and Fiber and Digestible and Metabolizable Energy in Low-Oil Distillers Dried Grains with Solubles Fed to Growing Pigs. S. A. Lee*, C. D. Espinosa, H. H. Stein, University of Illinois at Urbana-Champaign, Urbana, IL

Table 1. Nutrient digestibility and energy concentrations in DDGS

	DDGS									
Item, %	A	В	С	D	Е	G	Н	I	SEM	P-value
SID of Lys	69.7abc	73.5ª	65.4 ^{cd}	61.4 ^d	70.9ab	66.4 ^{bc}	66.4 ^{bc}	-	1.7	< 0.001
ATTD										
GE	68.4	70.3	73.0	74.3	67.9	71.6	69.7	70.1	1.8	0.102
NDF	65.0ab	62.0^{ab}	65.6ab	68.0^{a}	57.0 ^b	55.3 ^b	55.6 ^b	59.9ab	3.1	0.010
AEE	58.6 ^b	69.0^{ab}	64.6ab	68.7^{ab}	74.8a	67.9^{ab}	69.1ab	65.9ab	2.3	0.001
ME, kcal/kg	$2,894^{ab}$	2,963ab	$3,038^{ab}$	3,142a	2,769b	2,988ab	$2,976^{ab}$	2,857ab	76	0.027

^{a-d}Within a row, means without a common superscript differ (P < 0.05).

Two experiments were conducted to test the hypothesis that digestibility of AA, GE, acid hydrolyzed ether extract (AEE), and NDF and DE and ME in lowoil distillers dried grains with solubles (DDGS) vary among suppliers. Eight sources of low-oil DDGS were procured from suppliers in the U.S. and were labelled source A, B, C, D, E, G, H, and I. In Exp. 1, twenty-four barrows (initial BW = 63.4 ± 3.4 kg) with a T-cannula in the distal ileum were allotted to a 2-period Youden square design with 8 diets. An N-free diet and 7 diets containing all DDGS sources except source I were formulated. Ileal digesta were collected for 2 d after 5 d of adaptation. Standardized ileal digestibility (SID) of AA did not differ between DDGS sources A and B, but the SID of most indispensable AA were greater (P < 0.05) in DDGS source B than in DDGS sources C, D, E, G, and H. In Exp. 2, seventy-two barrows $(18.1 \pm 1.3 \text{ kg})$ were used. A corn-based basal diet and 8 DDGS-containing diets were formulated. Feces and urine samples were collected for 5 d after 7 d of adaptation. The ATTD of GE and the DE did not differ among the 8 sources of DDGS, and no difference in the ME among sources were observed except that DDGS source E contained less (P < 0.05) ME than DDGS source D (Table 1). The ATTD of NDF in DDGS source D was greater (P < 0.05) than in sources E, G, and H and ATTD of AEE in source E was greater (P < 0.05) than in source A. In conclusion, variability in SID of AA, ATTD of NDF and AEE, and in ME were observed among the sources of DDGS used in this experiment.

Key Words: energy, digestibility, distillers dried grains and solubles