

**390 Digestibility of amino acids in corn, corn co-products, and bakery meal fed to growing pigs.** F. N. Almeida\*, G. I. Petersen, and H. H. Stein, *University of Illinois, Urbana.*

The objectives of this experiment were to measure the apparent ileal digestibility (AID) and the standardized ileal digestibility (SID) of CP and AA in bakery meal, corn gluten meal, corn gluten feed, corn germ meal, and hominy feed and to compare these values to the AID and SID of CP and AA in corn and distillers dried grains with solubles (DDGS). Eight growing barrows (initial BW:  $82.5 \pm 5.5$  kg) were randomly allotted to an  $8 \times 8$  Latin square design with 8 diets and 8 periods. Diets contained corn, DDGS, bakery meal, corn gluten meal, corn gluten feed, corn germ meal, or hominy feed as the sole source of protein and AA. An N-free diet was used to measure basal endogenous losses of AA and protein. Pigs were fed the experimental diets during 8 7 d periods with ileal digesta being collected on d 6 and 7 of each period. Results indicated that the SID of Lys in corn gluten meal (78.7%) was greater ( $P < 0.01$ ) than in DDGS, bakery meal, corn germ meal, and hominy feed (46.0, 48.4, 68.4, and 58.8%, respectively). The SID of all indispensable AA except Arg, Leu, and Met in bakery meal were not different from DDGS. For corn gluten feed, the SID of all indispensable AA were not different from corn, except Arg, His, Leu, and Met, which had SID values that were less ( $P < 0.01$ ) than in corn, but for most indispensable AA, the SID in corn gluten feed was not different from the SID in DDGS. The SID of all indispensable AA in corn germ meal except Arg, His, Leu, and Met were not different from corn. Likewise, the SID of all indispensable AA in corn germ meal except Arg and Leu were not different from DDGS. For most of the indispensable AA in hominy feed, the SID was not different from corn. All indispensable AA in hominy feed had SID values that were not different from the SID of AA in DDGS, except for Arg and Lys, which had greater ( $P < 0.01$ ) SID than in DDGS. In conclusion, bakery meal is a poor source of digestible AA when compared with other corn co-products. Corn gluten meal has SID values for most AA that are greater than in DDGS, bakery meal and other corn co-products.

**Key words:** AA digestibility, corn co-products, pigs