

Poultry manure boosts protein of corn silage and corn stover

EAST LANSING, Mich. - Dehydrated poultry excreta (DPE) is a high quality, inexpensive source of nitrogen for increasing the protein content of corn silage and corn stover fed to growing heifers, says Dr. John E. Keys, an animal scientist with USDA's Science and Education Administration. Corn silage and corn stover contain about eight per cent protein, but growing heifers need about 12 per cent protein in their diets.

Dr. Keys and animal scientist Dr. Lewis W. Smith, formulated four complete diets and fed them to yearling Holstein heifers for 140 days in research at the Beltsville Agricultural

Research Center in Maryland. The diets were: (A) 88.3 per cent whole corn plant and 11.6 per cent DPE; (B) 61 per cent whole corn plant, 27.9 per cent corn stover (finely ground), and 11.1 per cent DPE; (C) 49.7 per cent whole corn plant, 25 per cent corn stover, and 25.3 per cent DPE; and (D) 71.6 per cent whole corn plant and 28.4 per cent DPE. The diets were mixed and stored in silos for 45 days. The corn stover in diets B and C was ground so that it would pack tighter in the silo and prevent air pockets. Air pockets encourage mold to form during ensiling.

Heifers gained .81 kilograms (kg) per day on diet A; .72 kg on diet B; .69 on diet C; and .73 on diet D. Heifers on diets A and B ate slightly less feed and gained slightly more weight than heifers on diets C and D. However, all diets provided sufficient protein for growth.

Overall, the addition of about 12 per cent DPE to corn silage alone or in

combination with corn stover provides enough additional crude protein for growing heifers. Wet poultry excreta could be substituted for the DPE on an equivalent dry matter basis when making silage. Both wet and dried poultry excreta are considerably less expensive than soybean oil meal or commercial supplements used to boost the protein content of corn silage.

Dehydrated poultry excreta is not sanctioned for commercial use by the Food and Drug Administration.

Dr. Keys presented his research findings before a joint meeting of the American Dairy Science Association and the American Society of Animal Science here today.

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Md. porkecue deadline set

TIMONIUM, Md. - Are you the best pork barbecuer in Maryland? Have you found culinary methods to soar with swine? Does your outdoor grill percolate with pork?

If so, now is the time to prove it while having fun and competing for some handsome prizes in the upcoming "Maryland Porkecue Cook-Off" which will be held at the State Fair in Timonium, Md.

Entries for the contest must be in by July 29th so that 10 finalists can be selected for the actual cook-off on Friday evening, September 1.

Prizes up to \$100 in cash will be given. A special prize for the "Chefing Award" will be a brand new electric grill unit.

Entering is simple: write out your favorite outdoor pork barbecuing recipe that takes no longer than one hour to cook (you may use any cut of pork. Extra

ingredients are limited only by your imagination.), include your complete address and telephone number and send to Leo Kahl, 3821 Perry Hall Road, Perry Hall, Md., 21128. Make sure it is postmarked by July 29th. Ten finalists will be selected and notified by telephone well in advance of the actual contest.

A panel of food experts and celebrities will be on hand for the contest which will be held in the brand new livestock exhibition hall on the Timonium fairgrounds.

Cooking will be done on new electric outdoor grills which will be supplied for the contest. The contest, a favorite now for many years, is sponsored by the Maryland Pork Producers Association and Maryland Department of Agriculture's Division of Marketing to help promote the goodness and versatility of the new leaner pork.

Lancaster Co. 4-hers chosen

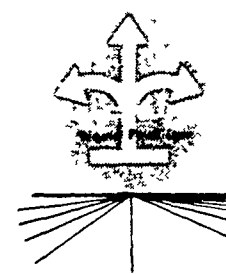
LANCASTER - Glen Seidman and Sarah Brubaker, both of Lancaster, have been selected as two of 62 Pennsylvania young adults to serve on a State 4-H Reporters Team, it was announced recently.

Members of the group have recently received special communications training on the Penn State Campus and will serve as 4-H ambassadors to promote the educational youth program.

"Their activities will help

the public more fully understand the 4-H program, an integral part of the Penn State College of Agriculture," Dr. Lindley notes.

Team members will be available to talk to organizations at local, regional, and state levels, including 4-H Clubs, College of Agriculture alumni groups, legislators, and church and school functions. They also may make personal appearances at conventions and other large meetings.



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