



AREA FFA QUIZ WINNER John Kurtz, (left) of the Elizabethtown Chapter is presented the trophy for topping all competition from York and Lancaster County in a Quiz-Down at the Area Leaders Conference held this week at the Red Lion Area High School. The presentation is made by Earl Weaver, State FFA President.

L. F. Photo

● **Esbenshade**  
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Handbook was conducted in the main auditorium during the afternoon. Here a representative from each chapter in the York-Lancaster area competed in an answer-down contest.

John Kurtz from the Elizabethtown High School Chapter won this event.

Other chapter winners of Sears \$25 bonds were: Clayton G. Risser, Elizabethtown R3; Kenneth M. Weber, Mohnton R2; Russell C. Admire Jr., Manheim R2; J. Ronald Stauffer, Ephrata R1; Glenn L. Bitner, Millersville R1; Lewis A. Kreider, Quarryville R1 and Barry R. Nickle Paradise.

**Daylight Time To End**

Before going to bed tonight, be sure to turn your watch back an hour, unless you get up at 2 a.m., the official moment when, once again, we all return to Standard time.

**Efficient Meat Production Is Changing Livestock Feeding**

Demand for more efficient production of red meat is causing marked changes in feeding patterns in the livestock industry, an animal nutrition researcher at The Pennsylvania State University said recently during a Veterinary Nutrition Forum in Hershey.

Dr. B. R. Baumgardt, professor of animal nutrition, indicated the trend is toward rations low in roughage and high in concentrated feeds such as grains.

"Livestock farmers should consider carefully the need for roughages in feeds. Some bulk or roughage is required in rations for ruminant or cud-chewing animals such as cattle and sheep. Such bulk provides the stretch and scratch stimuli needed by livestock to maintain normal motility and acid-base balance in the digestive tract," he stated.

Bulky roughages also provide a physical framework for microbial fermentation in the ruminant stomach, he added.

In areas where animal numbers are concentrated on high-value land near large cities, normal roughages are often difficult and expensive to obtain. In such cases, roughage substitutes are sought. Ground corn cobs and cottonseed hulls have been used successfully, but they are getting scarce. Currently, oyster shells, vermiculite, and rice hulls are being used with some success, he indicated.

Sawdust, shavings, and flooring waste are available in large quantities in many parts of the country. Research is underway at Penn State to evaluate their usefulness as roughage substitutes.

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