



## Jet-Age 'Brain' Figures Bossy's Grain

One of the newest farm teams is composed of linear programming and electronic computation. Together they are beginning to answer problems in farm planning and livestock feeding far too great for pencil and paper methods of calculation, report economists at Penn State College of Agriculture.

This new team has been put to work on problems of feed formulation by R. F. Hutton, and on problems of farm management by R. I. McAlexander and others, at the Agricultural Experiment Station.

It is being used by R. James Becker, Extension Specialist, in planning operations to fit changing conditions.

The best dairy or poultry feed, Dr. Hutton insists, is the one which supplies the necessary nutrients at least cost.

With a myriad of ingredients to choose from and constantly changing prices, selection of the best feed formerly was impossible because of the enormous amount of ciphering that had to

be done when costs or other conditions changed.

Electronic computers, such as Pennstac at Penn State University, have made solution of problems of this kind possible, but only the largest millers have these machines.

More recently, Dr. Hutton and co-workers have worked out calculation devices and methods suited to usual office equipment. This will extend the usefulness of linear programming to small millers and farmers.

In feed formulations, entries in linear programming are ingredients such as corn, oats or bran, and requirements of the feed.

In farm management plans, entries are the resour-

ces the farmer has with and alternative prizes that use these es.

By systematic selection of a combination of enterprises selected for maximum income from land, machinery, buildings, livestock and other resources. In this way, expansion or contraction of the enterprise may be made with poultry, beef or sheep.

**PROVIDE COW COMFORT**  
Cows need shade in hot weather. If trees are available, a cheap shade structure will serve the purpose. Dividends, says Dr. Hutton, Penn State dairy specialist, when grazing is practiced will consume more grass if feed bunks feeding wagons are in the shade.

DR. I. M. SATUREN, USDA Veterinarian in charge of Animal Disease control and eradication programs for the Lancaster area, headquartered at Lancaster Union Stock Yards, pauses Thursday to inspect a young Hereford bull, suffering from infectious keratitis, commonly known as pink-eye. Although this disease is not considered contagious, USDA veterinarians report all observations of it for statistical recording. This disease is believed to be caused by a virus, and carried by flies. It is also theorized, Dr. Saturen said, that "pink-eye" is an early form or precursor of cataracts in the eye. Dr. Saturen has been with the USDA for 22 years and has been assigned here for the past six years. His work specifically includes inspection of all livestock on LUSY for infectious diseases of national importance, administration of laws governing interstate movement of livestock and enforcement of humane laws for livestock.



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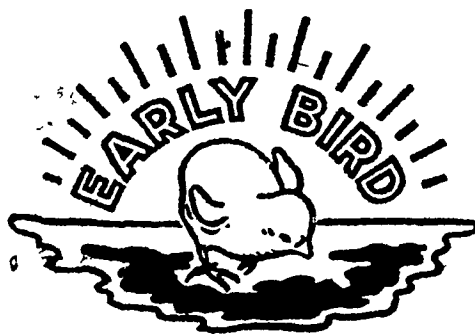
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