

## PSU Develops New Egg Packer

The poultry industry has a new automatic device at its disposal, a mechanical egg

packer developed by the Agricultural Experiment Station at Penn State University. The new device is made to pack eggs in filler flats, or cartons, directly from an egg collector, washer, grader, or other con-

veying equipment, according to Howard D. Bartlett, of the department of agricultural engineering.

The packer makes egg collecting a completely mechanical system from nest to packing case, Bartlett pointed out. The unique parts of the equipment, he said, are a mechanism to position eggs so they will be packed small end down and an electrically controlled mechanism to systematically divert eggs from the conveyor to the packing container.

Four major components make up the new egg packer, a conveyor for moving the eggs into the mechanism, an orienter to turn all eggs with their small ends toward the flats or cartons so the eggs will go into the packing cells correctly, a packing mechanism, and a carriage to advance the flats or cartons as each row is filled.

Bartlett said the device is low-cost in comparison with egg packers now on the market. To reduce cost and to simplify the machine, all operating power is provided by an electric motor and electrical solenoids controlled by switches and relays.

The mechanism will pack 3,000 eggs or eight cases an hour. The product is the invention of Bartlett and William B. Crawford, of Topeka, Kansas, former graduate assistant in agricultural engineering. The invention has been assigned to the Research Corporation of 405 Lexington Ave., New York, N.Y. to handle licensing by interested manufacturers.

## Esbenshade Nominated To Agway Board

Willis Z. Esbenshade, Lancaster, has been nominated for reelection to the board of directors of Agway Inc.

Esbenshade was named at a district meeting of Agway committeemen Wednesday, Aug. 10, in Boiling Springs, Pa.

The district for which he will be a candidate includes Perry, Cumberland, Franklin, Adams, York and Lancaster counties in Pennsylvania, and Washington, Carroll, Frederick, Baltimore and Harford counties in Maryland.

Esbenshade will stand for election to a three-year term at the Agway stockholders annual meeting, Oct. 20-21 in Syracuse, N.Y.

He has been a member of the Agway board since the merger of Pennsylvania Farm Bureau Cooperative Association and Agway in 1965. Prior to the merger of the two cooperatives, he had served on the board of PFBCA since 1958.

Esbenshade operates a 112-acre farm on which he raises beef cattle, poultry and sheep. He is the fourth generation of his family to work the farm.

He is a member of the Extension Association, having served as president and vice president, and has served as president of the Lancaster County Farm and Home Foundation.

## Corn Superior

(Continued from Page 12) dough silage and sorghum-sudan silage in the hard dough stage, as recommended.

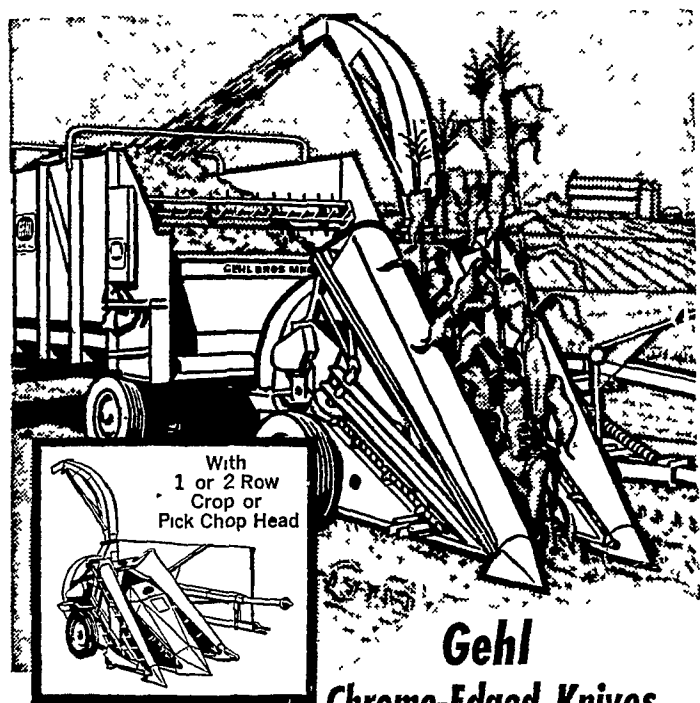
The foalages were fed to steers starting at about 390 pounds and were supplemented at the rate of 3 pounds of commercial concentrate for every 4 pounds of silage. After 140 days, steers fullfed on corn silage gained 0.21 more pounds per day and required 1.45 fewer pounds of feed per pound of gain than steers fullfed on sorghum-sudan silage. Average daily gains were 2.02 pounds on corn and 1.81 on sorghum-sudan.

In 1964, sorghum-sudan silage cost \$5 per ton and corn silage \$8 per ton. But the cost per hundred pounds of gain on corn silage was \$18.37, on hybrid sorghum-sudan, it was \$20.74.

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MECHANICAL EGG PACKER invented by agricultural engineers at Penn State University is shown with one of its developers, Howard D. Bartlett. The Research Corporation of New York City is handling licensing to manufacturers.



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