

## New Industry Makes Feathers Into Feed

Once a costly disposal problem for poultry processing plants, feathers are now the basis for a growing \$12 million a year business.

This new industry, which turns feathers into a high-protein, stable, friable meal useful in feeds, stems from studies begun 12 years ago by Western utilization division scientists in Albany, Calif. Further research by USDA Agriculture Research Service and State agricultural experiment station scientists aided the development.

At present, feather meal is made chiefly from broiler feathers, but use of turkey feathers is increasing.

Rendering plants process most of the feathers, as well as offal from poultry plants.

The annual broiler crop of about 5.5 billion pounds provides feathers for about 150,000 tons of meal. About 80 percent of this -- or approximately 120,000 tons -- is being processed into meal.

The present market value of feather meal is \$100 a ton. This annual value is increasing, so feather disposal is no longer an expense to poultry plants. Some renderers pay up to one-tenth of the value of the meal for raw feathers.

Processing the meal is a low-cost operation for renderers. Their equipment consists chiefly of a steam pressure cooker and grinders, which they use in other rendering operations.

There may be a future for byproduct plants integrated into poultry processing plants. Estimates obtained by USDA's Agricultural Marketing Service indicate that byproduct plants would be economically successful if production totaled at least 25 tons of feather and offal meals a week.

Broiler feathers are in continuous supply. Therefore renderers can operate with very little variation in volume. But turkey processing is more seasonal. A byproduct plant that operates with a processing plant on a shared-labor basis might prove especially suitable for large turkey processors.

Feather meal supplies produces with a feed product that contains more protein per pound than any other available material. Thus in a poultry ration it leaves more room for high-energy ingredients. Feather meal cannot be used as the sole protein supplement however because it is slightly deficient in certain amino acids. Combined with other protein (for example, soybean oil meal) it performs satisfactorily in rations.

### • Cattle Show

(Continued from Page 1) Swiss, 50 Guernseys, seven Jerseys, and 53 Holsteins.

Judging at the SPABC show will be done on the first day by Lawrence Colebank, official type classifier for the American Guernsey Cattle Club and Dr. L. W. Specht, dairy specialist from the Pennsylvania State University. The Holsteins will also be judged by Colebank.

Some men credit their business success to the fact that their wives need the money.

## Chicago Cattle

(Continued from Page 2)

mostly prime 1,200-1,325 lbs. 29.00 Early bulk choice and mixed choice and prime 1150 to 1350 lbs scattered loads weighing up to 1,400 lbs at 26.50-28. Late bulk 26.75 - 28.75 Most choice 900 to 1150 lbs 25.75-27.50 Bulk of good steers were 24-26 Utility and standard largely 20.50-23.50

Few loads and lots mixed choice and prime 870-1040 lb heifers 26.75-27, latter price highest for heifers since May Early bulk of choice heifers 24.75-25.75 Late bulk 25.25-26.50.

Few standard cows 17-18

Utility and commercial 14.25-16.50.

Utility and commercial bulls largely 18.50-20.50

Good and choice vealers 25-29, standard 20-25

Few loads good and choice feeding steers at 775-900 lbs 23.85-25.75.

### • Have You Heard?

Slippery finishes on soles of new shoes are often the cause of an accident. To prevent slipping, run the sole with sandpaper or just rub the sole over sand. The same treatment goes for shoes repaired with new soles.

Well-fitted and well-repaired shoes are good guides to follow for safety in the home



Mervin Shelly, Lititz R1, poses on his tractor after placing second in the county plowing contest.

## Your Invitation To...

# Bulk Fertilizer Field Day

Thursday, August 2 - 10 A.M. at

IRA B. LANDIS MILL, LANDIS VALLEY, LANCASTER COUNTY

Sponsored by the F. S. Royster Guano Company in cooperation with the Agricultural Extension Service of the Pennsylvania State University and the following



The Chief SPRED'R-VAYOR knows no season! Converts from Tractor-Drawn Fertilizer Spreader To Self-Unloading Feed Wagon for Year 'Round Grain or Feed Handling Jobs



WAYNE R. WYANT

Farm & Industrial Equipment  
NEW BETHLEHEM, PENNA.  
Phone: BRoadway. 5-4945

ON DISPLAY . . . .

STAUFFERS

Bulk Wagon

AND

Hydro Spread  
Spreader

Jared Stauffer

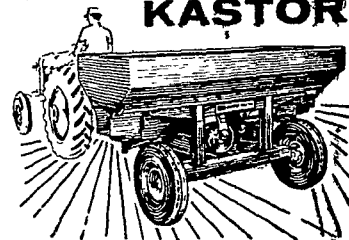
Martindale

You CAN FERTILIZE

4 TIMES FASTER

with the

BELT Series 500  
BROD-KASTOR



SPREAD IT W-I-D-E-R!  
FASTER! ACCURATELY!

Save time and money when you do your fertilizing. Get a BELT BROD-KASTOR. The BELT PTO Model attaches to any tractor quickly and easily. The big hopper holds about a ton of material. Exclusive vibrating hopper bottom assures constant, even flow. Quick setting adjustments give accurate material placement. High speed fans spread fertilizer in swaths about 50 feet wide! You can fertilize 4 times faster than with conventional equipment. See the revolutionary BELT BROD-KASTOR the first chance you get.

ROYSTER gives

Bigger  
Farm  
Income!



No two ways about it, high-income farmers know that Royster's 6-Plant-Food Fertilizer gives larger yields, higher quality and bigger profits.

John J. Hooper  
Gordonville

L. M. Prange  
Kirkwood