

# Conservation tillage adapts to winter wheat planting

HARRISBURG — "Conservation tillage is rapidly becoming an accepted management technique for winter planting," according to a Soil Conservation Service spokesman. "Because conservation tillage leaves residue from previous crops on the field, it involves less tillage than conventional farming and thus is an obvious advantage because no-till requires no tillage at all."

For the wheat grower, this can mean the early spring winds won't damage the wheat before it gets well rooted. It can also mean the soil surface holds more moisture in a dry year for good crop growth, greatly reducing soil erosion and lowering cost for fuel and other production inputs.

Conservation tillage also calls for careful, flexible management, geared to local conditions.

relatively easy to hookup a plow and get rid of weeds. It is much harder to select the right herbicides and insecticides, and decide when and how much to apply.

Should a farmer, for example, wait for rain to activate chemicals or should he go ahead and incorporate them in the tillage? Such decisions have to be made on a day-to-day and year-round basis.

One persistent problem with conservation tillage is Johnsongrass. To keep Johnsongrass out of fields, farmers use wick applicators, carefully selected herbicides, and other techniques to overcome the weed. These and other methods are helping conservation tillage become more widely adapted and adopted.

The types of soil in a field also can make a difference in the tillage

system needed, particularly if the soils are high in clay content and slow to warm up in the spring. However, careful planting and management can overcome this limiting factor on most soils suitable for cultivation.

Weed stubble and other residue left on the ground also increase the potential for plant, disease and insects, so farmers need to monitor their crops closely.

"The advantages of conservation tillage are there are many more farmers," "If they are willing to put in the management effort needed.

By changing from full till to no-till, a farmer can cut fuel consumption by 50 percent or more thereby reducing outlays for labor and machinery."

Another advantage lies in a chance to boost a farmer's production by at least two ways. First, erosion is reduced so much that the farmer can grow crops safely on land too sloping to be cultivated conventionally. Second, because of the time saved in planting, conservation tillage enables more farmers to begin multi-cropping.

More than 55 million acres in the United States were under conservation tillage systems in 1980—an average increase of about 5 percent a year for the last decade.

## Adams Farm-City tour coming Oct. 7

GETTYSBURG — A young farm family becoming established in farming, a modern turkey processing plant and a

manufacturer of farm buildings will be the feature stops on this year's Adams County Farm-City Tour.

Sponsored by the Adams County Agriculture Council and Gettysburg Chamber of Commerce, the tour is designed to acquaint business and agricultural leaders with the county's growing agricultural industry. This year's tour will be held Wednesday, October 7 from 10 a.m. to 4 p.m.

Tickets, which cost \$12.00 per person and include bus transportation and lunch at Schottie's Restaurant, Littlestown, are available at the Gettysburg Chamber of Commerce Office and

Adams County Extension Service Office. Buses will leave King's Parking Lot, Gettysburg at 10 a.m. and return at 4 p.m.

Mark Widerman is a young farmer raising sheep and laying hens on a family farm near New Chester. This operation utilizes only family labor. In cooperation with the USDA Soil Conservation Service and Penn State Extension Service, Mark has converted his crop acreage to grass to solve manure handling concerns. Sheep have been added to diversify sources of income while utilizing grass fertilizer by the poultry manure.

Round Hill Foods, New Oxford, features one of the most modern

turkey processing plants in the United States. Tour participants will see advances in further processing of turkey which has led to new turkey products. As a result of this business, Adams County ranked first in Pennsylvania and in the top 25 counties in the nation in turkey production.

The final tour stop will be Morton Buildings, Gettysburg. This manufacturing plant opened this summer in Adams County. Buildings made by Morton are used for livestock housing and storage facilities.

Additional information on the Adams County Farm-City Tour is available by contacting the Adams County Extension Service Office.

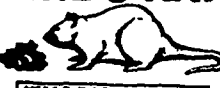


**STRIKE IT RICH!**

SELL IT WITH A LANCASTER FARMING CLASSIFIED



**END O' RAT**

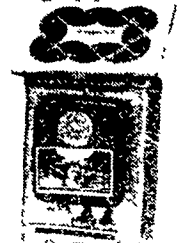


**KILLS RATS and MICE**

**End O' Rat Co.**  
Rd 1 Box 668  
New Holland, PA 17557  
717-354-2340

**PARMAK**

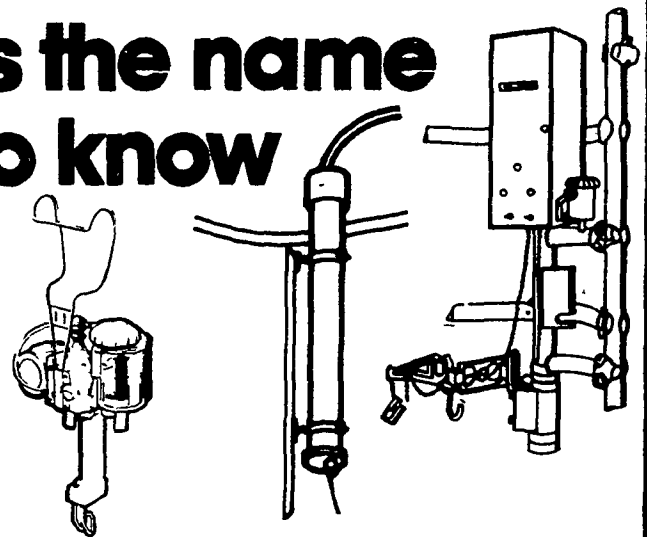
**SOLAR-PAK**  
The Magnum 12 Volt with or without solar power



IF YOUR LOCAL DEALER DOES NOT HAVE IT, CONTACT **PEQUEA BATTERIES** RONKS, PA 17572  
Authorized Distributor & Warranty Station

# Dairy Automation

## De Laval is the name to know

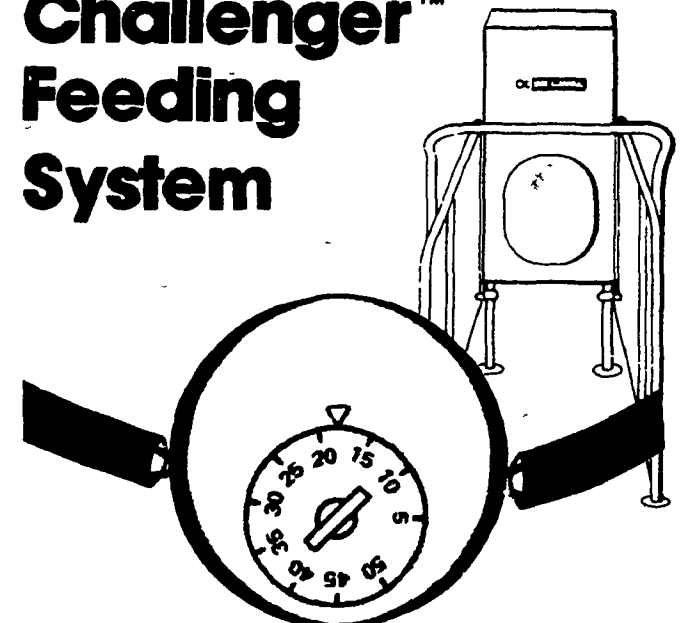


If you're thinking dairy automation there's just one name you need to know: De Laval. For over 100 years dairymen world-wide have depended on De Laval products to keep their dairies running smoothly and profitably. You can too. Check these De Laval® automation products, all designed to make your milking easier. Then check with us. We've got full details on these fine products and the whole line of De Laval dairying equipment & accessories.

- DV-300™ milker — rugged milker features automatic shifts of vacuum levels and pulsation rates.
- A.R.M.™ devices — Automatic Removal Mechanism features parallel linkage support arm. "Armless" model also available.
- Autocord™ removal device — the affordable way to automate milker removal.



## Challenger™ Feeding System



This is the breakthrough technology that made it possible to feed grain to dairy cows according to individual needs—automatically. The De Laval® Challenger™ Feeding System is the obvious choice for dairy farmers who want electronic grain dispensing at a moderate installation cost.

The Challenger system is controlled by neck-worn transponders which store feeding instructions for each cow; these provide a radio link with feeding stalls where cows are fed upon command. The Challenger system has capabilities demanded by the most modern operation, yet it's feasible for herds as small as 25 cows. May we show the surprising figures?



Come in today and order your 78 Vacuum Supplier. We'll tell you how to receive a rebate of \$100 and a free Servo Vacuum Controller — total retail value of \$270.

SERVICE WHEN YOU NEED IT

**J.B. ZIMMERMAN & SONS**  
West of Blue Ball, PA on Rt. 23  
PH: 717-354-4955  
Ask For Ralph Stoltzfus  
**RADIO DISPATCHED TRUCKS**

**CECIL DAIRY SERVICE**  
RD 1, Rt. 274  
½ Mile South of Rising Sun, Md.  
21911  
PH: 301-658-6923