# Try prescription tillage

### for better herbicide results

LITITZ — Seldom does anything beat the time-tested, preplant incorporated herbicide treatment for selectively controlling yellow nutsedge or johnsongrass

Besides making the herbicide virtually weatherproof, incorporation insures better control of these tough weeds by placing the herbicide in direct contact with sprouting rhizomes or tubers Incorporated herbicides generally provide more consistent control of common annual grasses, too

Some popular herbicides such as Sutan+ and Eradicane for corn, Eptam, Balan and Tolban for new alfalfa seedings, and Treflan and Vernam for soybeans, must be incorporated Other herbicides, such as Dual and Lasso give farmers the option of incorporation or surface application, though a higher rate of these chemicals is usually needed when incorporating

Nonetheless, it's important to pay close attention to the herbicide's label for specific application instructions and restrictions

For years the tandem disk harrow has been the old standby for incorporation -- and it still is But more interest today is reduced tillage and fuel consumption, coupled by the introduction of new and improved tillage implements, has encouraged farmers to tinker with other tillage systems" for herbicide incorporation

So what is the best tillage system today for herbicide incorporation? Research over the years at Penn State has shown that several intricate variables enter the picture when evaluating an incorporation method

First, the weed spectrum in a field must be considered when selecting an incorporation tool and setting tillage depth Most annual grasses, for instance germinate in the top two inches of soil, while nutsedge and Johnsongrass emerge from their respective tubers and rhizomes from as deep as six inches

Preplant herbicides must be positioned in the weeds germinating zone to be effective

For example if the field is primarly infested with annual grasses, incorporating the herbicide to a shallow depth should do the trick However if deepgerminating weeds such as nutsedge are also a problem it may be necessary to incorporate the herbicide deeper or a higher application rate may be needed to cover both shallow- and deepgerminating weeds

Second. the performance of today's popular incorporation tools the tandem disk, heavy disk,

cultimulcher and power-driven Lely Roterra - often hinges on whether a plow chisel or heavy disk was used for primary tillage

The number of tillages, if any before incorporation also affects the herbicide's placement

By impregnating a fluorescent dye onto a clav bonding material incorporating it with different tillage tools, and observing the results with a black light Penn state agronomists have proven that herbicide distribution can vary significantly under various primary and secondary tillage systems

In each test, and adjacent plot was treated with Sutan + herbicide so actual weed control could also be monitored

Listed below are some observations on the performance of each incorporation tool when used after a plow and one disking, chisel plow or heavy disk

The plots were infested with both shallow-germinating annual grasses and deep-germinating yellow nutsedge

These findings may serve as a guide to farmers when planning next season's weed control program

After moldboard plowing and a

single tandem disking:

Cultimulcher. The cultimulcher was one of the best herbicide incorporation tools when controlling annual grasses and nutsedge Although incorporation depth was consistently shallow - only one to two inches — the cultipacking action evidently helped Sutan+ control the deep-germinating nutsedge

Lely Roterra: The Roterra which stirs soil horizontally, provided very even herbicide incorporation down to two inches

This treatment was the second best for controlling annual grasses but among the worst for controlling nutsedge

Tandem Disk: The tandem disk was equal to the cultimulcher and Roterra in controlling annual grasses. It was also equal to the cultimulcher for control of nutsedge

However the tandem disk placed the herbicide deeper in the soil than the cultimulcher and Roterra, which may have slightly reduced the herbicide's effectiveness on the shallowgerminating grasses

After chisel plowing. Lely Roterra: The Roterra in-

corporated Sutan + evenly down to a three-inch depth

Annual grass control was excellent, but yellow nutsedge control was not good Apparently the incorporation was not deep enough or the Sutan+ was not sealed in for effective vellow nutsedge control

Tandem Disk Incorporation with a tandem disk following a chisel plow was to a depth of about four inches. This is an inch deeper than the tandem disk incorporated herbicide applied to a smoother surface such as after plowing and disking once. The resulting annual grass control and yellow nutsedge control were both excellent

Heavy disk. The heavy disk did a very uneven job of herbicide incorporation, but this is not to say it shouldn't be used

Unlike other grass herbicides Sutan + Eradicañe, Eptam and Vernam vaporize in the soil and to some degree, even out a poor in corporation job

The heavy disk incorporation Sutan + deeper than any other tool though the herbicde was incorporated in a spiked pattern that appeared to correspond with the

(Turn to Page C21)

SALE ON

MAX-TEN® 200 High Tensile

**Fence Wire** 

Reg. 70° lb. NOW 60° per lb.

(approx 11/2" per ft ) Plus charge for rewinding from 1

ton spool.

Delivery is inexpensive when truck is

traveling through your area.

Up to 25% OFF on your 2nd order from

KENCOVE FARMS

PH: 800-245-6902 800-442-6823 in Pa.

412-459-8991 717-432-5814



### CALL US FOR FREE ESTIMATES

TOP QUALITY BARN **SPRAY PAINTING** 

Try Our New Concept In Penetration And Adhesion. Average Barn 565000

### PHARES S. HURST

Rd 1, Box 420 Narvon, PA 17555 215-445-6186



Years of experience plus self employment gives you quality work for less expense



COMMERCIAL **We Use Quality Paint AERIAL LADDER EQUIPMENT** 

 Modern and **Efficient Method** Reasonable Prices

AVAILABLE

· Spray On and **Brush In Method** Sandblasting if

ROTEC

Necessary For Free Estimates Write or Call:

### **ESH SPRAY PAINTING**

717-687-7007 or 687-8262 (Daniel S. Esh - C Ralph Miller) SPRAY-ON AND BRUSH-IN

> PAINTER 637 Georgetown Rd. Ronks, PA 17572





# RESIDENTIAL

# **EAR CORN**

**Paying Top Prices For Good Quality Ear Corn** 

- Wet or Dry
- No Quantity too large or too small
- Fast Unloading -Dump on Pile & Go
- Easy access 2.2 miles off 283 bypass-Manheim, Mt. Joy exit
- Daily Receiving 7:30 A.M. to 5 P.M. - unloading evenings & Saturdays by appt.
- Trucks available for pick up at your farm.

**Call Anytime For Price** 717-665-4785 IAMES E. NOLL GRAIN

## **EASTER HAMS**



**LEIDY'S PORK PRODUCTS** 

Look for a quality Smoked Ham (Bone or Boneless) at your local store.

> "We have Hams You Will Be Proud To Receive or Give"

### **LEIDY'S PORK PRODUCTS**

266 Cherry Ln., Souderton, PA 18964 Phone - 215-723-4606

# A VARIETY OF AGRI-TANKS FOR CHEMICAL STORAGE.

TRANSPORT & APPLICATION:

- UNION CARBIDE S NEW RESIN
  FOR THE AGRICULTURAL 80's
  CIBA-GEIGY U V STABILIZER
  ALL SHAPES & SIZES
  STRONG, ONE-PIECE CONSTRUCTION
  MADE TO LAST FOR YEARS & YEARS
  1-YEAR LIMITED (BUT NOT VERY) WARRANTY

Call Today or Stop In and Let Us Solve Your Agri-Tank Needs —

> MARTIN'S AG SERVICE R.D. 1 - Gristmill Rd New Holland, PA 17557 PH. 354-5848

Distributed in your area by

Dealer Inquiries Invited!