

Prescription tillage

(Continued from Page C20)

spacing of the disk blades of the front disk gang

The herbicide-treated surface soil seemed to roll in behind these blades all the way to the bottom of the trench made by the blade cutting through the soil

Since heavy disks may cut from six to eight inches deep, the herbicide was incorporated in a spiked pattern from six to eight inches

Annual grass control was poor but nutsedge control was very good. The herbicide was too uneven and too deep for good annual grass control, but herbicides which diffuse through the soil will get the deep-germinating nutsedge tubers. Herbicides such as Dual or Lasso which are not volatile, probably would not work with this kind of incorporation

After heavy disking:

Light Roterra: The Roterra incorporated Sutan+ three to four

inches deep. Because the soil surface was very rough following a heavy disking as compared to a plowed and disked surface, the herbicide was incorporated much deeper.

Still, annual weed control was excellent and nutsedge control was poor. Apparently the herbicide was not incorporated deep enough to get the nutsedge.

Heavy disk. Incorporation with a heavy disk following a heavy disk was the same as when following a chisel plow — very uneven and deep. Annual grass control was poor but nutsedge control was excellent. Slightly better annual

grass control was obtained when the heavy disk was allowed to penetrate to about four inches deep rather than allowing it to go to its full depth.

However this resulted in less yellow nutsedge control. **What's the 'best' system?**

The best tool for incorporating herbicides where both shallow-germinating annual grasses and deep-germinating nutsedge are a problem was the cultimulcher on plowed ground, smoothed by tandem disking.

The tandem disk was almost equal to the cultimulcher on plowed ground, and was the best tool for incorporation when used after a chisel plow or heavy disk.

Although annual grass control was not as good as that obtained with a Roterra and nutsedge control was not as good as with a heavy disk, the tandem disk was the one incorporation tool that did a reasonably good job on both nutsedge and annual grasses, regardless of the primary tillage tool used.

Where only shallow-germinating annual grasses are a problem, the Roterra was equal to the tandem disk on smoothed, plowed ground. The Roterra was best following a chisel plow or heavy disk.

When only nutsedge was a problem incorporation with a heavy disk was the best. The heavy disk should be allowed to penetrate as deep as it will go.

One additional thought that might improve the weed control from a PPI herbicide is the amount of herbicide used per acre.

If incorporating at a shallow depth for annual weed control, a lower rate may be used since the herbicide is left in a concentrated layer close to the soil surface.

If the herbicide must be incorporated deeply for nutsedge or

rhizome johnsongrass control, the highest recommended rates should probably be used since the herbicide is going to be mixed through more soil and the concentration will be diluted.

When deep incorporation is necessary to control nutsedge and johnsongrass, but shallow incorporation is also needed for annual weed control, it may be possible to incorporate the herbicide at two depths. This can be accomplished if the sprayer is mounted on the disk.

Following a plow, chisel plow, or heavy disk, farmers can disk twice and apply one-half of the herbicide each trip. The herbicide will be applied to a rough soil surface and incorporated deeper on the first trip.

The second application will be made to a much smoother surface and incorporated more shallowly. The same result may be accomplished by overlapping the disk half way on successive trips across the field.

The disking depth does not need to be changed between trips to get this herbicide layering effect.

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York Holstein in bull stud test

LANCASTER — A young Holstein bull, Sunnybend Flintstone Mars-ET, bred by Thomas A. Boyer, York, has been selected by American Breeders Service to enter their Progeny Testing Program and has been moved to the company's facilities at DeForest, Wisconsin.

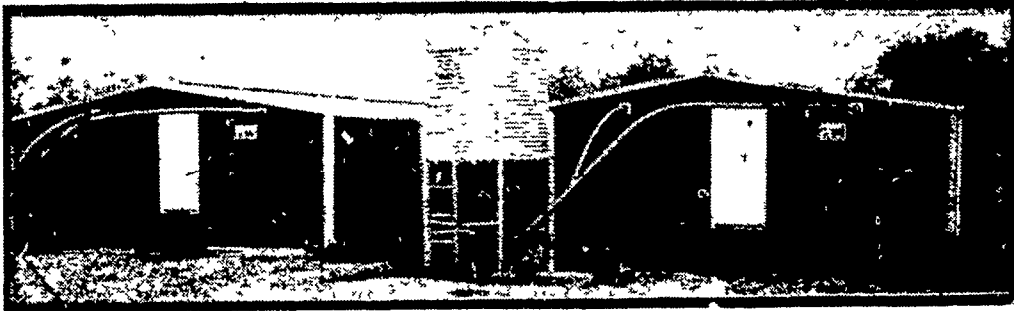
The bull will join approximately 135 others being tested this year. During testing, Sunnybend Flintstone Mars-ET will be mated to 700 cows in herds associated with ABS in their testing program, from all across the United States. After a

four year wait, during which his progeny will be evaluated, a decision will be made as to whether or not he enters into regular semen production.

Sunnybend Flintstone Mars-ET is the result of a specially planned meeting between the highly regarded Lime-Hollow Elevation Mars, +\$163, +1,653M and +32BF and Sunnybend Trinket Gold Star. His dam has production records to 26,237 pounds of milk, with a Cow Index of +1,132M. She is classified VG-86 and is sired by Penn State Ivanhoe Star.

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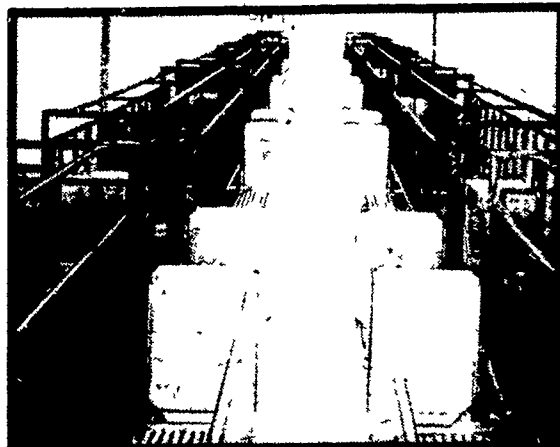
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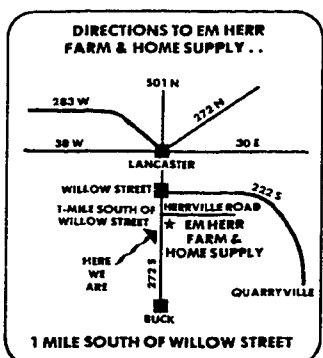
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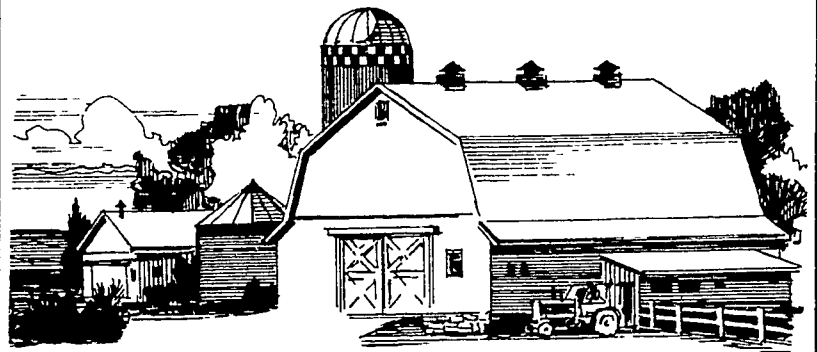


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