

Crops day

(Continued from Page A29)

straw varieties, you can really pour the fertilizer to it for high yields. "Also, to insure top yields, Yocum suggested planting as early as possible, from March 22 to April 10.

"When you seed early, the plants move along to maturity before the hot weather hits it. This gives the oats more of a chance to get the carbohydrates up into the seed head. To achieve early planting dates, Yocum said, fall plowing is needed so the seedbed can be worked, dry out and be planted in a three-day period to avoid seasonal rain showers delaying the process. An alternative to fall plowing, he said, could be no-till.

In tests at the research farm, Yocum compared the yields of eight varieties of oats. The fields received 500 pounds of 10-10-10 fertilizer, an increase in previous recommendations of 200 pounds for medium fertility soils.

The results of the 1978-1980 study revealed top yields came with a new variety called Ogle, which produced 118.6 bushels per acre. Two other top yielding varieties included Lang, at 110.3 bu/A and Larry, with 110.0 bu/A. Other variety yields included Otee, 97.1 bu/A; Noble, 102.3 bu/A; Astro, 105.4 bu/A; Dal, 101.2 bu/A, and Garry, 103.7 bu/A.

Yocum told the group he's hopeful research will find a seed treatment for barley that will overcome its tremendous disease problem since the small grain lends so well to a double cropping program. In tests done at the research farm, Yocum said he didn't get the yield he should have due to disease — Maury yielded 84.2 bushels per acre last summer, with Pennrad yielding 70.7 bu/A and Barsoy yielding 66.1 bu/A.

In the winter wheat field, Yocum announced two varieties will be taken out of next year's Agronomy Guide — Abe and Redcoat. An exciting variety added to this year's Agronomy Guide, said Yocum, is Potomac which has good lodging resistance and total mildew resistance. In yield tests, this variety produced 81.5 bushels per acre.

Two other promising wheat varieties which will be added to the Agronomy Guide in 1982 are Roland, developed in Illinois, with a top yield of 95.2 bu/A and excellent lodging resistance, and Titan, developed in Ohio, with a yield of 83.2 bu/A and very good lodging resistance.

A special variety, called Double Crop, has been developed specifically for its namesake. Although its yields were only 63.3 bushels per acre, this double-



Speaking at the 20th Annual Lancaster County Crops and Soils Day Program were, from left, Raymond Shipp, Penn State Extension Agronomist; Roland Freund, Penn State Area Farm Management Specialist; Lou Moore, Penn State Ag Economics Extension Specialist; and James Haldeman, York County Agricultural Agent.

cropping variety matures one week earlier than Hart, concluded Yocum.

The grain farmers heard from James Haldeman, York County Agricultural Agent, next. He presented a slide series on common weeds in Pennsylvania and

provided suggestions on their control.

Lynn Hoffman, Penn State's superintendent at the Rock Springs Research Farm, told the farmers there are "new wrinkles" in crop rotations. He stated some of the present day weed problems in

monocultures are the result of farmers moving away from diverse crop rotations.

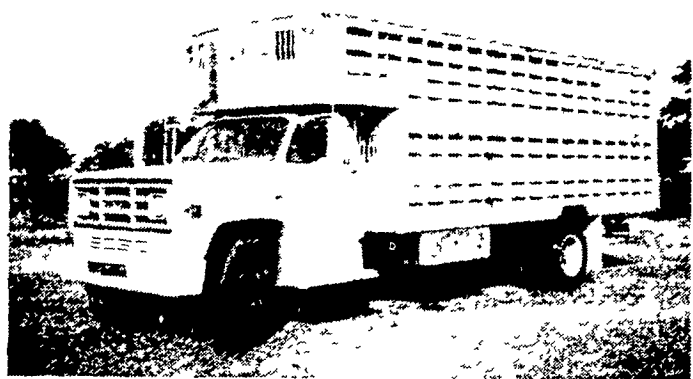
Rotating crops, he said, builds soil nutrients, spreads the economic risk, aids in weed con-

(Turn to Page A33)

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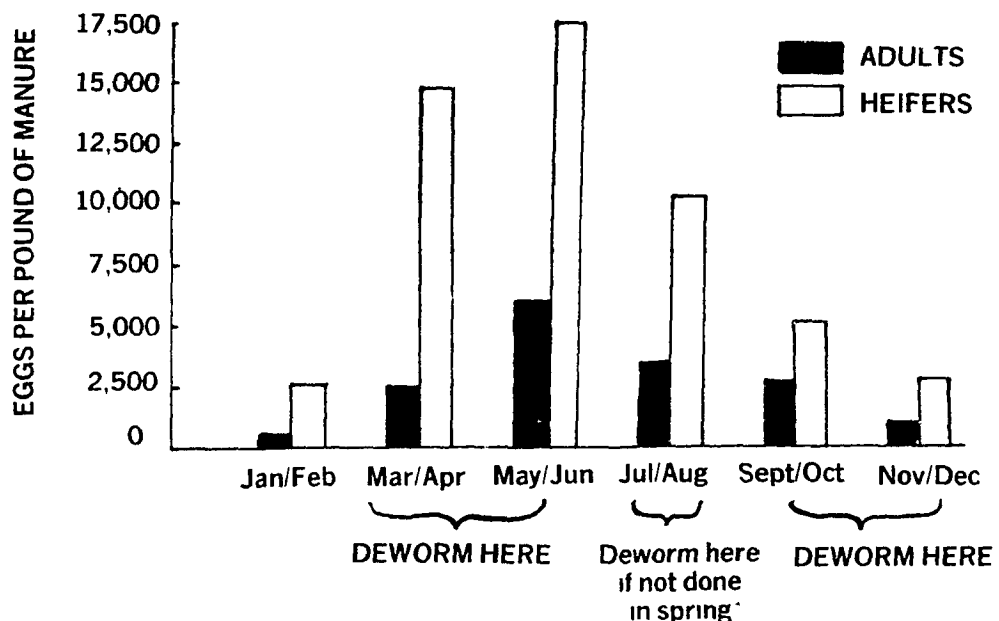
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