

## New Wheat Variety Resists Hessian Fly

Winter wheat resistant to the hessian fly, potentially a serious pest in Pennsylvania, will be among new crops featured June 28 at a special field day to be held at the Agronomy Research Farm of Pennsylvania State University. The farm is located in Centre County, three miles west of Pine Grove Mills on route 45

The new wheat, Arthur 71, is the only variety which resists damage from the new race of hessian fly that invaded southeastern Pennsylvania last year and caused severe damage in some fields and moderate damage in others. Heading up the tours of small grain plots will be Dr. Robert P. Pfeifer, in charge of small grains research for the

Agricultural Experiment Station at Penn State

Genetic makeup of Arthur 71 wheat causes larvae or maggots of the hessian fly to die when they attempt to feed on the stalks of the new variety, Dr. Pfeifer explains. This new race of hessian fly has been building up in Pennsylvania over the past three years, he claims, and will infect Redcoat, Dual, and all other available wheat varieties.

Dr. Pfeifer says some 25,000 bushels of Arthur 71 seed will be available for Pennsylvania farmers to plant in the fall of 1972. Penn State agronomists and county agents advise farmers to make the change to Arthur 71 as soon as they find the hessian fly has invaded their areas.

This new wheat averaged 72

bushels per acre in trials in four Pennsylvania counties during 1971. While it has excellent winter hardiness, the straw is not as strong as with Redcoat and Blueboy varieties—making careful fertilization vital to avoid lodging. Nitrogen in excess of 50 pounds per acre on Arthur 71 will often cause lodging, Dr. Pfeifer cautions.

Procedures for seeding, fertilizing, and harvesting of Arthur 71 will be included in the June 28 program. The field day will feature two wagon tours.

Progress in breeding winter barley for malting will be shown. Such malting barley could lead to a new crop and a new industry for the Commonwealth, malt production, Dr. Pfeifer believes. He will also show experiments

with hybrid barley and will exhibit first generation hybrids he has produced. He says it is possible that the system to produce hybrid barley will be made available to commercial plant breeders this year.

Several new selections of stiff-strawed oats will be shown by Dr. Pfeifer and associates. Research plots will illustrate both heavy grain and stiff straw. Release of a new oat variety is anticipated in the near future.

## Masonic Homes Herd Receives Four Awards At Ayrshire Convention

Masonic Homes managed by James Horton, Elizabethtown, received one of the 12 coveted French Memorial Trophies at the National Ayrshire Dairy Cattle Convention in Rochester, Minn.

A French Memorial Trophy is awarded in memory of J. D. W. French, a renowned Ayrshire breeder for outstanding milk production for herds enrolled in official DHIR milk testing

### About Imported Foods

Each week you shop for food, you probably include foods grown in countries other than our own—bananas, coffee, tea and some nuts and cheeses. And, point out Extension consumer specialists with Pennsylvania State University, some of the foods you buy may be imported even though the same product is produced in our country. To know whether the product is imported or not, read the labels. Label identification does not apply to foods processed or packed in this country or those processed foods that may have ingredients that were imported.

programs

Masonic Homes had the second highest milk production for Ayrshire herds having 75 to 100 cows. The 92 cows made an average of 13,634 pounds of Mature Equivalent (M.E.) four per cent milk in 305 days.

The Farm also earned its seventh Constructive Breeder Award. This award recognizes herds in which cows bred by the owner excel in milk production combined with superior body conformation. Fifty-three breeders qualified for this honor in 1971. On a twice-a-day milking schedule for 305 days, the cows made an annual production average of 13,485 pounds of milk and 543 pounds of butterfat. The herd has a type classification score average of 854 and 73 per cent of the herd was bred by the CBA winner.

Two of Masonic Homes' Ayrshires earned special Certificates during 1971 for their lifetime milk production achievements, exceeding 100,000 pounds. Mt. Harmon Lucky Roselyn has records of 104,075

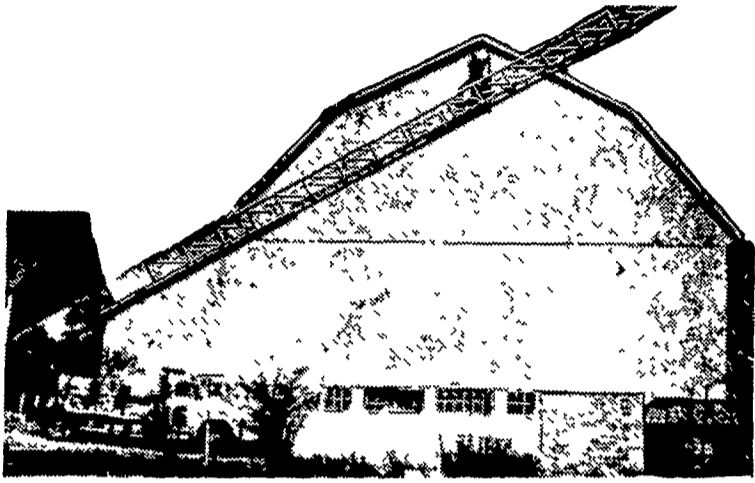
pounds of 4.3 per cent milk, 4,473 pounds of butterfat, and Meredith Fairy List 103,556 pounds of 4.3 per cent milk, 4,411 pounds of butterfat.

In reaching these production levels the cows were milked twice daily and records were checked by the Pennsylvania State University's Department of Official Testing.

Awards and honors were presented by National president, Philip Schuyler, and executive secretary David Gibson Jr. at the National Awards Banquet.

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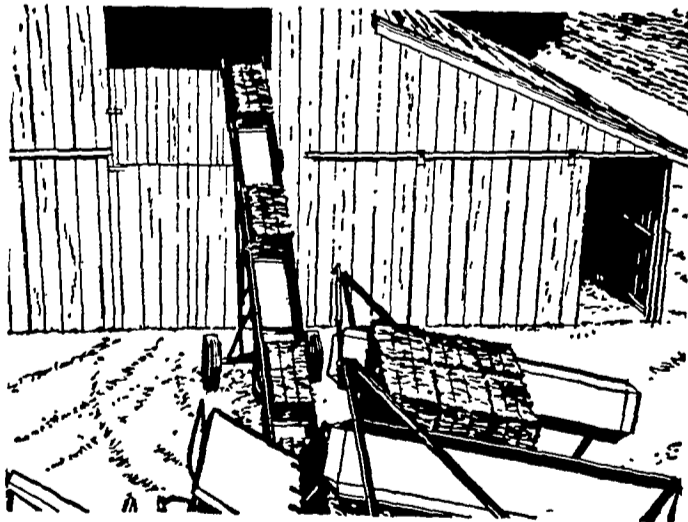
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