## New anthracnoses fungus discovered

BELTSVILLE, Md. -Anthracnose, a serious fungus disease of alfalfa in the humid eastern United States, caused damage during the 1978 growing season to alfalfa varieties that were previously resistant, according to scientists in USDA's Science and Education Administration (SEA).

The scientists say farmers should be aiert to the new

\$20 00

+ 1245 LB.

P.D. Milk Bulls

9H107 Arlında JET STREAM twin VG(87) PQ 1/79

1140 dtrs , 603 herds avg 17 717m 3 4% 602f Pred. Diff. '74 +\$150 +1840M +32F

9H602 CREEK Bluff Elevation Lester VG(85)

11 dtrs 7 herds avg 19 099m 3 8% 718f

USDA 1/79 RIP 45% RPTY 33%

Pred Diff. '74 +\$121 +1077M +45F

USDA 1/79 RIP 72% RPTY 98%

anthracnose fungus, but should continue to use anthracnose resistant varieties when planting alfalfa since the potential problem of the new disease is not yet

Between 1968-75, scientists at SEA's Beltsville Agricultural Research Center in Beltsville, Md., developed breeding techniques to improve anthracnose resistance. As a

+1840

P.D. Milk

result, varieties with high levels of disease resistance, such as Arc, Saranac AR, and Liberty, were made available to growers by SEA and State Agricultural Experiment Station scientists.

However, during the 1978 crop season, Beltsville Plant Pathologist Dr. Stanley A. Ostazeski and Research Agronomist Dr. James H. Elgin, Jr., and Dr. Ronald E.

Welty, a SEA plant pathologist at North Carolina State University, observed anthracnose damage to supposedly

and the University's Piednew anthracnose to be very

damaging to Arc and Liberty but slightly less damaging to Saranac AR.

The SEA scientists have not yet determined whether the fungus is a new species, or a specialized race of the original pathogen. Also, there are no reports of the new anthracnose in areas other than at Cambridge, Md., and Salisbury, N.C.

The scientists are concerned that the value of the anthracnose resistance in

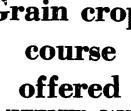
> +1020P.D. Milk

varieties now being marketed or in the developmental stages may be affected by the discovery of the new fungus.

Preliminary work at both locations indicate that low level resistance to the new fungus is present in most breeding lines. SEA scientists expect to have highly resistant germplasm available to plant breeders by mid-1980.

## Grain crops

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of climate on yields.

associate professor of plant breeding, includes information in the course on uses and importance of the most common cereals or grains, including corn, wheat, oats, barley, soybeans, and rye. Methods of seeding, harvesting, storage, and marketing are

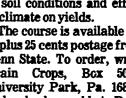
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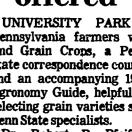
Particular attention is given in the course to improved varieties, seed selection and care, methods of seedbed preparation, and fertilization. The author also discusses adaption of seeds to soil conditions and effect

The course is available for \$5 plus 25 cents postage from Penn State. To order, write Grain Crops, Box 5000, University Park, Pa. 16802. Make check payable to Penn

Pennsylvania farmers will Dr. Robert P. Pfeifer,

State.









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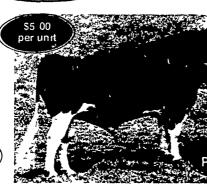
testing of the fungus, taken from plots near Cambridge on Maryland's eastern shore mont Research Station in Salisbury, N.C., revealed the

from

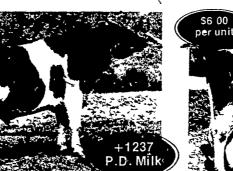
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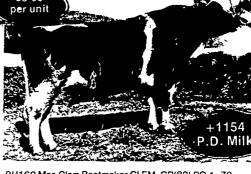
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9H129 Kingstead RISE tiwn VG(87) GM 5/75 USDA 1/79 RIP 13% RPTY 87% 119 dtrs , 85 herds avg 16,505m 3 4% 560f Pred. Diff '74 +\$90 +1284M +11F



9H143 Hillhaven Standout JOB VG(85) GM 9/76 USDA 1/79 RIP 11% RPTY 86% 114 dtrs 82 herds avg 17,183m 3 7% 636f Pred. Diff '74 +\$126 +1237M +41F



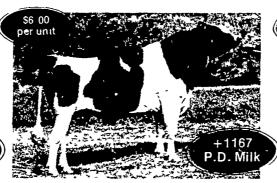
9H196 Shardale Arlında Chief JEMINI VG(85) PQ 1/79

USDA 1/79 RIP 50% RPTY 66%

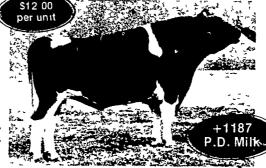
Pred Diff '74 +1020M +47F +\$121

47 dtrs 38 herds avg 17 090m 3 8% 647f

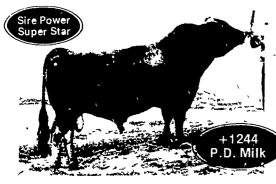
9H160 Mor Clem Bootmaker CLEM GP(82) PQ 1 79 USDA 1/79 RIP 1% RPTY 84% 107 dtrs 64 herds avg 15 908m 3 5% 559f Pred Diff '74 +\$96 +1154M +22F



9H148 Will Tri Frans Legacy VG(87) PQ 1/79 USDA 1/79 RIP 0% RPTY 77% 53 dtrs 48 herds avg 16 28 /m 3 7% 603f Pred Diff '74 +\$118 +1167M +38F



9H632 Md NEW HOPEs Rebel Elevation EX(93) USDA 1/79 RIP 27% RPTY 20% 11 dtrs 1 hein avg 20 916m 3 4% 704f Pred. Diff. '74 +\$104 +1187M +26F



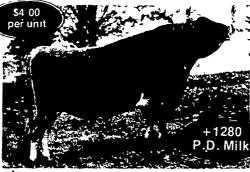
9H176 Letters Burkgov TRUMP EX(90) PQ 1/79

76 dtrs 59 herds avg 16 278m 3 7% 600f

USDA 1/79 RIP 3% RPTY 79%

Pred Diff '74 +\$116 +1110M +39F

9B056 White Cloud Doreens DELegate VG(87) Superior Sire USDA 1/79 RIP 15% RPTY 98% 2110 dtrs 499 herds avg 13 874m 3 9% 542f Pred Diff '74 +\$130 +1244M +44F



9J042 FINALIST of Marlu VG(85) USDA 1/79 RIP 0% RPTY 49% 19 dtrs 10 herds avg 10 452m 4 6% 477f Pred Diff '74 +\$123 +1280M +37F



9J043 Generators Orator of OGSTON VG(85) USDA 1/79 RIP 3% RPTY 86% 155 dtrs 49 herds avg 11 400m 4 5% 512f Pred. Diff. '74 +\$102 +1334M +18F

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