

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 alert to the new

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

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

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 resistant varieties.

Further investigation and testing of the fungus, taken from plots near Cambridge on Maryland's eastern shore and the University's Piedmont Research Station in Salisbury, N.C., revealed the new 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

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 course offered

UNIVERSITY PARK - Pennsylvania farmers will find Grain Crops, a Penn State correspondence course and an accompanying 1979 Agronomy Guide, helpful in selecting grain varieties say Penn State specialists.

Dr. Robert P. Pfeifer, 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 given.

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 of climate on yields.

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 State.

Get the Most from Every Acre with FEAST Micronutrients



Recently we've come to recognize the vast importance of micronutrients and their essential value for successful crop development. Some 42 states have demonstrated micronutrient deficiencies. Soil analysis will tell you if you're in one of these areas. If you are, turn to the Conklin line of FEAST Micronutrients.

FEAST is a high quality liquid complexed form of readily available micronutrients in these four formulations:

- FEAST with 5% Iron
- FEAST with 5% Zinc
- FEAST with 5% Manganese
- A general crop mix consisting of 4% Zinc, 1% Iron and 1% Manganese

Each of these FEAST products are complexed micronutrients which means they're very effective as a foliar treatment right through the growing season. And, because FEAST micronutrients are liquids you'll get great flexibility in applying them whether through foliar, soil or aerial application. Combine this with each of handling and an excellent cost/benefit ratio and you've got quite a FEAST!

Get all the facts! For complete information contact:

JOHN B. ALLSHOUSE
Distributor
4 Elser Hill Rd (Brickerville)
Lititz PA 17543 717-626-4551



+1245 LB. P.D. Milk Bulls

72% Repeatability

The Right Price

Sound Type

from Sire Power INC

Member Cooperatives
Northeastern Breeders Association
Md Artificial Breeding Coop, Inc
W Va Artificial Breeders Coop, Inc

\$20.00 per unit

+1840 P.D. Milk

9H107 Arlinda JET STREAM twin VG(87) PQ 1/79
USDA 1/79 RIP 72% RPTY 98%
1140 dtrs, 603 herds avg 17 717m 3 4% 602f
Pred. Diff. '74 +\$150 +1840M +32F

\$5.00 per unit

+1284 P.D. Milk

9H129 Kingstead RISE twin 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

\$20.00 per unit

+1020 P.D. Milk

9H196 Shardale Arlinda Chief JEMINI VG(85) PQ 1/79
USDA 1/79 RIP 50% RPTY 66%
47 dtrs 38 herds avg 17 090m 3 8% 647f
Pred. Diff. '74 +1020M +47F +\$121

\$8.00 per unit

+1077 P.D. Milk

9H602 CREEK Bluff Elevation Lester VG(85)
USDA 1/79 RIP 45% RPTY 33%
11 dtrs 7 herds avg 19 099m 3 8% 718f
Pred. Diff. '74 +\$121 +1077M +45F

Sire Power Super Star

+1237 P.D. Milk

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

\$6.00 per unit

+1154 P.D. Milk

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

\$10.00 per unit

+1110 P.D. Milk

9H176 Letters Burkgov TRUMP EX(90) PQ 1/79
USDA 1/79 RIP 3% RPTY 79%
76 dtrs 59 herds avg 16 278m 3 7% 600f
Pred. Diff. '74 +\$116 +1110M +39F

\$6.00 per unit

+1167 P.D. Milk

9H148 Will Tri Frans Legacy VG(87) PQ 1/79
USDA 1/79 RIP 0% RPTY 77%
53 dtrs 48 herds avg 16 287m 3 7% 603f
Pred. Diff. '74 +\$118 +1167M +38F

\$12.00 per unit

+1187 P.D. Milk

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

Sire Power Super Star

+1244 P.D. Milk

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

\$4.00 per unit

+1280 P.D. Milk

9J042 FINALIST of Marlou 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

\$4.00 per unit

+1334 P.D. Milk

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

The Sire Power programs are designed with YOUR HERD'S PROFITABILITY IN MIND. Our goal is to increase your net income, by offering high predicted difference sires, reliably proven, at the lowest possible prices.

The twelve sires featured above average +1245 P.D. Milk, 72% repeatability and all but two are A.I. proven, the results of Sire Power's Young Sire Program, that utilizes random sampling in its design.

At Sire Power we know that a cow that lasts, is also as important as a cow that milks. We stress sound type.

The dams of Sire Power are classified Very Good or Excellent, with special emphasis on snugly attached udders, and sound feet and legs. You can expect sound type from Sire Power.

Sire Power semen is available from the Sire Power member cooperatives NEBA, Md ABC, and W Va ABC. We offer both professional technician and direct herd service. We are as near as your phone, call 717-836-3168.

