

New Test Sought For Bovine T.B.

ARS scientists are seeking a good supplemental test that will spot tuberculosis-carrying cattle that don't react to the standard skin test.

It is these undetected carriers that make finishing the TB eradication job in the United States so difficult.

A herd of cattle may contain only one undetected TB-injected animal, which can spread the disease to other members of the herd. These animals develop TB, react to the skin test, and are removed. Meanwhile, the undetected carriers may remain as a continu-

ing source of infection in the herd.

Following extensive research to solve this problem, ARS veterinarians A. B. Larsen and K. E. Kopecky at the National Animal Disease Laboratory, Ames, Iowa, developed what they call "a modified thermal test," in which a large quantity of tuberculin is injected into a cow's veins and her temperature measured. If she develops a rise in body temperature of at least 1.5 degrees F, peaking no lower than 103.2 degrees F, she should be considered a reactor.

The new test was tried out on 76 cows from herds believed to contain undetected carriers. The cows were first

given the standard skin test and 47 reacted. They were then given the thermal test and 21 reacted—16 that had reacted to the standard test and 5 that had not.

All 76 cows were slaughtered and examined at federally inspected establishments, and 35 were found to have tuberculosis lesions. Of the 47 cattle reacting to the standard skin test, 30 showed evidence of tuberculosis on postmortem examination. 16 of these did not react to the thermal test. Five cattle that reacted to the thermal test but not to the skin test were found infected on postmortem examination.

Larsen and Kopecky say these results show that the modified thermal test cannot replace the standard skin test but that it can be useful as a supplementary tool in detecting TB-carrier cattle. The scientists are continuing their studies to further improve the new test.

SEE-THROUGH SEED HOPPERS SAVE STEPS

On International Harvester's new 456 Hildrop Corn Planter, which was developed to increase the speed and precision of corn planting, the operator can quickly check the seed kernel fill level right from his tractor seat because of the high order of translucency of the molded fiber glass hoppers. These hoppers are produced for IH by the Molded Fiber Glass Company of Ashtabula, Ohio, which also molds fertilizer hoppers used on other IH planters.

A 30 pound capacity fiber glass reinforced plastic seed hopper is standard equipment on the new planter. A 70 pound capacity version, so compactly designed it can be used on 28 inch planting rows, is available on an optional basis. Both hoppers have snap on lids which protect seed

corn from moisture. The lids also keep the seeds in when the hopper is removed to check or change the seed plate in its base.

MFG-molded hoppers offer several significant advantages beyond the translucency. Their corrosion resistance, for example, is a critical need in fertilizer hoppers. In addition, molded fiber glass hoppers are rust and dent proof, resistant to abrasion, unaffected by temperature extremes and light in weight. Because MFG produces them by matched metal die molding, they are seamless and provide slide smooth surfaces inside as well as out — important to the free flow of seed or fertilizer. Parts made by this molding method are exceptionally strong and conform to close dimensional tolerances. Finally, the ruggedness of MFG molded hoppers promises lengthy service life with a minimum of maintenance under all weather conditions.

SENIOR EXTENSION CLUB TO HOLD FIELD DAY

The Lancaster County Senior Extension Club will hold its 3rd annual Field Day at Mt Joy Community Park on Sunday, September 13.

Softball and volleyball games will begin at 3 pm with neighboring county clubs joining in the competition.

Supper will be provided by the refreshment committee. A short business meeting will be held followed by a few skits. The Rev. Kirk A. Hudson, minister of the Highland Presbyterian Church, Lancaster will speak at the vesper service which will conclude the activities.

A special invitation is extended to all young people between the ages of 18 and 30 to attend this event as well as all former club members.

POCKMAN ADDS NEW VENTILATION SYSTEM FOR ENVIRONMENT CONTROL

In order to provide the poultry industry with the two different principles of ventilation commonly used in High Bird Density — Controlled Environmental Houses, the Pockman Manufacturing Company has announced the addition of the Coolair Ventilation System to its line.

Unlike other existing exhaust type systems — in which wall fans pull the air from one side of the building and exhaust it at the points of the fans — Coolair exhausts through the ceiling and introduces air through slots located in the circumference of the building.

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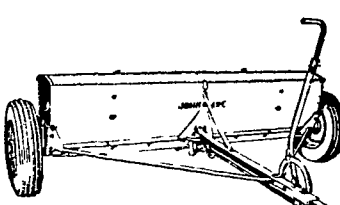
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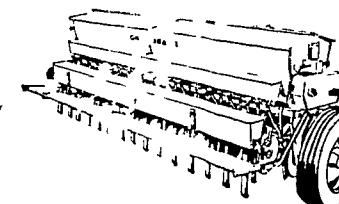
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