

### Low Volume Aerial Sprays Being Tested

New uses are being found for the low-volume aerial spray technique developed recently by ARS for use against plant pests.

The new technique involves applying undiluted, technical malathion in extremely small amounts. Conventional applications of pesticides by aircraft involve diluting the chemical with a large amount of water, oil, or other diluent.

The low volume method was first tested on grasshoppers in 1962. Results were so outstanding that low volume malathion became the standard treatment in the rangeland grasshopper program in 1964.

Heartened by the early success against grasshoppers plant pest control workers began testing the technique against other insect pests, and it is now being used in the cereal leaf beetle program in the Midwest and the boll weevil program on the Texas High Plains.

Briefly, the principal advantages of the low volume technique are:

1—Use of an insecticide with low toxicity to warm-blooded animals greatly minimizes possible adverse effects to humans, livestock, and wildlife. It's possible to apply malathion on rangelands, for example, without removing livestock from the range.

2—Higher flights are made practicable by the use of a non-volatile material such as malathion. It was possible to use a 100-foot swath in the boll weevil program rather than the 35-foot swath normally used. This adds to the safety of flight operations, increases the amount of work plane and pilot can do, and

### Will Treat Cankerworm In North Pa. Forests

Two Pennsylvania agencies—the Department of Forests and Waters and the Department of Agriculture—will combine efforts this spring to safeguard \$30,000,000 worth of timberland in Northern Pennsylvania against damage or destruction by cankerworm.

Initial plans call for aerial spraying of more than 100,000 acres in Potter, McKean and Tioga counties, according to statements issued jointly by Maurice K. Goddard, Secretary of Forests and Waters, and Leland H. Bull, Secretary of Agriculture.

"In addition to its value as timberland, this area offers some of the state's finest hunting and fishing, and has outstanding recreation facilities that annually attract thousands of persons," they pointed out.

The gravity of the situation was emphasized by a report of the Department of Forests and Waters that serious cankerworm damage was observed in 400,000 acres of timberland in the three counties last year.

In its adult form as a moth, the cankerworm lays eggs on trunks and branches of trees in the fall. Tiny worms that hatch in the spring feed on new leaves pushing out of

buds. The feeding period usually lasts four to five weeks during which time trees can be virtually defoliated.

More than 90 percent of the power used on farms in the world is still being generated by human beings and animals, says Ray Hurley, chief, U.S. Census Bureau's Division. In the U.S., machines are the source of more than 99 percent of the energy used on farms.

Approximately three billion bushels of corn are used annually in the United States for livestock and poultry feed.

### Have You Heard?

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ed. Use two or three thin sheets of cotton padding instead of one and see how much quicker your ironing goes.

Although dry peas are a vegetable and are eaten as such, they often are considered a grain. The definition of "split peas" used by grain inspectors of the Consumer and Marketing Service of the U.S. Department of Agriculture states that they are "... dry, threshed seed of the pea plant which have been split into halves or smaller pieces." Dry split peas make excellent soups, baked dishes, and extenders for meat loaves and meat patties.

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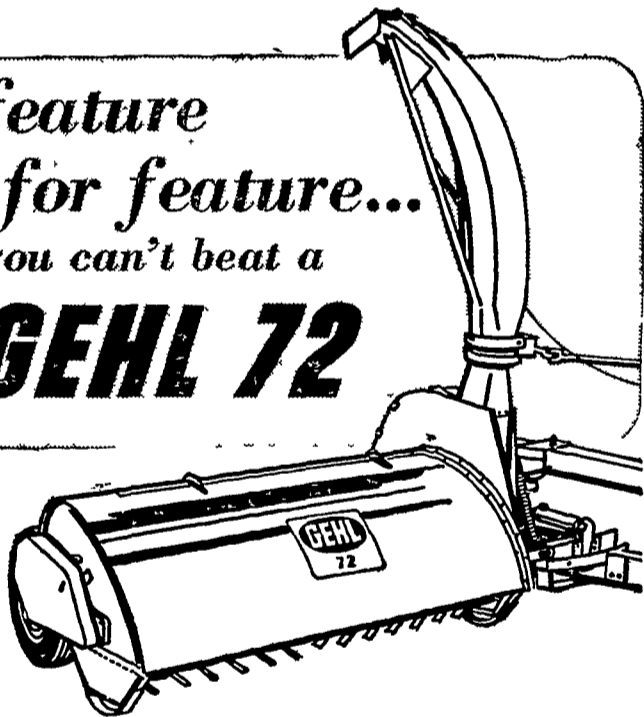
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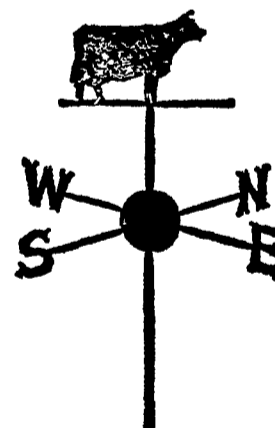
1545 lbs. milk

per cow —

4.23% test —

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