Screw worm eradication prospects look good

NEW YORK, N.Y. — Screwworms were eradicated from the southeastern United

States in 1959, from Puerto Rico in 1976 and they may be eliminated soon from the south-

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Due to a heart operation we have

decided to discontinue our farming

SATURDAY, FEBRUARY 21, 1981

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power only 2054 hrs nice & 40 other pieces of

good farm equipment & numerous small items

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cattle & large line of like new & well cared for

THIS 260 ACRE FARM FOR SALE

and lamenated rafter roof, 50 tie stall for cows.

15 hfr stalls & box stalls, 18 by 55 silo, bulk

tank, barn cleaner, tool shed, corn cribs, large

pond & springs, 200 acres tillable, nice long

fields can be made into a show place Just off

hard road close to 2 parks, 4 miles from Troy

Very good producing farm Hay & Silage in

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must see to appreciate Partial financing

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farm machinery Watch for full listing

5 tractors including A C 200 diesel w/only

operation and will sell the following on:

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COMPLETE DISPERSA

Warner Co. Case Dealer.

"There were only two cases of screwworms found in the United States this past year," said James E. Novy,

director of the U.S. Department of Agriculture's Screwworm Laboratory at Mission, Texas

western United States.

"This compares with 86 cases in 1979, 7,230 m 1978 and over 95,000 in 1972, the year with the highest number of reported cases," he said. "The two 1980 cases occurred in Texas in April and August. Both were 250 to 300 miles from the nearest known wild screwworm populations in Mexico."

Novy is a veterinarian with USDA's Animal and Plant Health Inspection Service

Screwworm flies are native to the American tropics In Mexico and until last year in the United States, they migrate northward with warm weather in spring and summer

"Larvae of this fly feed on live flesh in wounds of warmblooded animals," Novy said. "Odors produced by feeding larvae attract more flies, which lay additional eggs Repeated infestations, if left untreated, have killed cattle within ten days '

In 1972, the United States and Mexico agreed to jointly eradicate the pest from all parts of the continent north of Mexico's narrowest point, the 125mile-wide Isthaus of Tehuantepec, he said

"Most of northern

Mexico is now free of screwworms." Novy said. "However, there is continued reporting of a large number of cases about 250 miles south of the lower Rio Grande

"Fly traps are for maintained along the Rio Grande to find any wild screwworm flies that approach the border, but primary reliance for detecting screwworms lies with sample submission of all screwworms larvae found in wounde

warm-blooded animals not hatch," he said. bу ranchers, veterinarians and pet owners for laboratory identification,"

He said the basic tools eradicating screwworms are production and serial release of millions of sterile male flies.

"Since females of this species usually mate only once in their lifetimes, any eggs produced after a mating with a sterile male will

cycle.'

sterile flies used in this Mexico, which can eradication effort were produced in the APHIS Screwworm Plant at Mission. This facility is now producing about half its capacity - 100 million sterile flies per week — and is sending all the sterile flies to Tampico, Mexico, for packaging and distribution in Mexico,

The rest of the sterile "This breaks the life flies are currently produced at a new facility near Tuxtla Until late 1976, all Gutierrez in southern produce up to 500 million sterile flies per week.

> "As the eradication program moves farther south in Mexico during winter and spring, we expect sterile fly production at Mission to end," Novy said. "Then all sterile fly production will be done in Mexico.'

Poultry waste helps corn grow

NEWARK, Del. — Farmers need to maximize yields and minimize cost outlays in order to grow profitable crops. Large amounts of poultry manure and solid waste are produced each year in this area. If growers could use these more effectively in crop production, would they be able to increase vields and reduce production costs?

Agronomist William H. Mitchell and soil chemist Donald L. Sparks of the University Delaware's οf Agricultural Experiment Station have been investigating the possibility on field corn. and the results look very promising. Sparks reported on their findings during recent national agronomy and soil science meetings in Detroit, Michigan.

Five years ago Mitchell took a shredded,

partially composted solid waste product consisting mainly of garbage, paper, and lawn and garden refuse and incorporated it into the soil in test plots at the university's research farm near Georgetown. Initially he wanted to see if this material would help reduce soil compaciton in the sandy soils of lower Delaware.

A modified subsoiler was used to place the composted soild waste deep in the soil. Over 30 tons per acre were applied in four-inch vertical bands to a depth of 16 inches. Subsurface irrigation, poultry manure, and

lime-phosphorus treatments were included on some plots to see how they affected performance of the waste material.

Established in 1975, the plots treated with composted the municipal waste and manure are still producing 10 to 15 more

Sparks analyzed soil samples from the continuing effectiveness of the waste amendments. His tests show that though the waste recognizable, its effectively.

physical and chemical compositions have changed. Each year the treated soil has become richer with roots and earthworm castings.

On irrigated plots, subsoiling and incorporation of solid wastes had little effect, they say. But on nonirrigated plots, the bushels of corn per acre treatments have than untreated control resulted in significant yield improvement.

This suggests that the principal benefit of the treated plots to find out solid waste amendwhat accounts for the ments is that they permit enlargement and deepening of the corn root system. This allows the plant to use water product is still and nutrients more

New rapid analyses for fiber in foods

WASHINGTON, D.C The fiber content of foods can be measured quickly and accurately using near-infrared

reflectance analysis, according to Karl Norris, an agricultural engineer with USDA's Science and Education

Kennedy

Complete Dispersal

Located off Rt. 549 on Bailey Creek Rd., 7 miles from Mansfield, Pa., 3 miles from

Roseville, 20 from Elmira, NY. Watch for

Tuesday, January 27, 1981

At 1:00 Sharp

45 - Head of Cattle - 45

40 Holsteins - 4 Ayrshire - 1 Jersey

45 mature cows, interstate tested, preg

Machinery

I.H.C. 966 diesel tractor w/wide front; Oliver

1365 diesel tractor w/wide front & loader: N.H.

310 baler used 1 season like new: N.H. super 717

chopper w/1 row Corn head; N.H. 469 haybine;

Oliver 20' 283 transport harrows; I.H.C. 4

bottom reset plows; 2 hay wagons w/kicker racks used 1 season: Ford 2 row 3 pt. hitch corn

planter; 2 Grove self unloading boxes & run-

ning gears; J.D. 640 side rabe; New Idea flail spreader; N.H. 362 barrell spreader; skelton

Sale Mgr. Note: The cows are a little on the

thin side have had very little grain & no silage.

but most of them are the kind that will produce

well with grain & good roughage, 20 cows

Sale Under Cover

elev. w/motor; Surge 15000 KW generator.

auction arrows off Rt. 549.

exam., charts day of sale.

handling calves.

Lunch Available

Owners

Terms - Cash or Good check.

Auctioneer - Arlow Kiehl

Sale Mgr. GORDON WOOD

Administration.

Norris, who in 1963 developed NIR spectroscopy for the measurement moisture content, explained at a meeting here today that NIR analysis can be used to determine the amount of fiber in grains and breakfast cereals.

Speaking at the American Chemical Society's Middle Atlantic Regional Meeting, Norris said that near-infrared spectroscopy, used to identify starch, sugar, protein, water, and oil, can also be used to measure fiber in breakfast cereals. Fiber measurements can also be made on animal feeds, grains, and forages

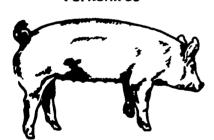
The NIR analysis takes only 20 seconds compared to 24 hours for the neutraldetergent methods currently recommended by the Association of Analytical Official Chemists.

The NIR analysis is clean, easy to perform, and non-destructive-therefore the same sample can be checked repeatedly. By contrast, neutral-detergent analvsis involves the use of hazardous chemicals, requires trained personnel, and completely breaks down the sample being tested.

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Lot 525 - Top Choice . \$380...David Glass, Birdsboro, PA Lot 524 - Explorer . . . 310...Richard Leiberman, Pen Argyl,

Lot 525 - Hustle 450 ... Wayne G. Strite,

Chambersburg, PA

Lot 527 - Top Choice . 410...Kevin Brown, Klingerstown, PA Lot 528 - Explorer ... 380...Quinton Hackett, Elmer, NJ Lot 530 - Explorer . . . 260...Catelinn Farms, Rexville, NY

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