41 11 12 m

New Systemic Insecticide Proves Effective in External Spray

A new systemic insecticide, the chemcal The former were Payer 21/199, has proved effect, more ecective in controlling the tive as an external spray in con- cattle grub but both were equaltrolling grubs in cattle and screw-lly effective treatments for the worms in cattle and sheep, USDA screwworm reseach has shown This chemical proved much less effective as an oral medication

phosphorus compound that works tested cattle. The only exceptions systemically—is absorbed through were two animals that received the skin, translocated to tissues containing grubs If the spray is applied several weeks before the grubs normally appear in the back, it prevents further development of the larvae It kills screwworm larvae mostly on contact.

The sprays were tested both as emulsions and as suspensions of

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both annual grasses and

More

The

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weeds.

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the heelworm fly-the Bayer 21/ 199 sprays prevented grubs from Bayer 21/199 is an organic appearing in the backs of most were two animals that received a low concentration of a suspension

> compound—0 25, 0 5, and 0.75 per cent-were sprayed in November 1956 on 48 beef yearlings heavily infested with the common and northern species of grubs. Sixteen untreted animals served as checks. Spray was pplied under 300 pounds pressure at an average rate of 11/2 gallons per animal. It was necessary to apply large quantities under pressure to thoroughly wet the animals' thick winter coats

> The treatment prevented grubs from appearing in the backs of all except two anmals sprayed with 05 per cent suspension. One had seven grubs, the other had one

Oral treatment with the new chemical gave some control but was abandoned because of toxicity

Untreated cattle in both spray and oral tests averaged 44 grubs per anmal Even though use of Bayer 21/199 for cattle grub control hasn't yet been approved ARS entomologist O H Graham feels that emulsion spay treatments with it are very practical (1- if applied several weeks before grubs appear in the back, and (2) if applied so as to insure adequate skin absorption

Against the screwworm, both emulsion and suspension sprays of Bayer 21/199 were effective. Use of these sprays in controlling treatment). screwworms would be a great help o lvestockmen. It would eliminate, for example, the current through systemic action but the pactice of riding the range daily

Against cattle grubs-larvae of

Three concentrations of the

that didn't develop

to cattle.

hunting for infested animals and applying a smear to the wounds.



PHILADELPHIA, May 28 Ready to cook ice packed broilfryers - steady. Demand was good. Supplies were adequate for namediate trade needs

Prices paid delivered ware house, Philadelphia (cents per lb) Grade A & US grade A, 2-3-lb. 34½-37, mostly 34½-35.

Hens: Ready to cook (ice packed) Steady Supplies were no more than sufficient to meet the good demand.

Prices paid delivered warehouse, Philadelphia (cents per lb) Grade A and US grade A 4-51/2 lb. 38-40.

Receits May 27 - 251,000 lb other than turkeys. Maryland, 70,000 lb, Delaware, 77,000 lb Virginia, 32,000 lb, North Carolina, 47,000 lb.

(Animals are then kept in small pactures for several weeks and treated every two to four days.)

Extensive trials with over 11,-000 sheep on nine Texas ranches showed effectiveness of the compound against scewworm These shep were sprayed immediately after shearing to protect shear cuts from infestation. Another group of 408 sheep and goats was treated to prevent infestation through injuries associated with lambing, castration, docking, ear tagging, and old screwworm wounds.

Most of the sprays were suspensions prepared from a wettable powder containing 25 per cent active ingredient. About one quart of the compound was sprayed on each sheep or goat.

In general, tests on both groups of animals had excellent results Sprayed animals were protected from screwworm infestation for 10 to 20 days—long enough for most injures to heal completely or to such an extent that they no longer attracted screwworms. Even where spray treatments ultimately failed, they gave 10 days' protection. (EQ-335, a lindane-hased compound widely used by sheep men to treat their sheep for scewworms, fequently failed as early as two to four days after

Bayer 21/199 kills the screwworm both upon contact and systemic action lasts for only a day after spraying. Long term effectiveness of the compound against the screwworm is due to the minute paticles of insecticide that flake off the animal's hair into the wound, killing the worm.

USDA Dairy Scientists Start Crossbreeding Study

Additional information on whether crossbreeding of dairy cattle can usefully serve the Nation's dairy industry is the goal of a study just begun by US Department of Agriculture dairy ccienfists at the Agricultural Research Center, Beltsville, Md

The long-range project will compare purebred Brown Swiss, Ayrshire, and Holstein cows to crosses of the same breeds. The test matings have been planned so that two- and three-way crosses can be compared in the same generation.

Results of the trials will be evaluated on the basis of milk production, butterfat content of the milk, solids-not-fat production, breeding characteristics, birth weight, growth rate of calves, and feed efficiency. This study should give further information on the value of crossbreeding for rapid herd improvement when sires from artificial breeding establishments are used.

LIVE POULTRY

PHILADELPHIA, May 28 Unsettled Trading was active as buyers prepared for the week-end demand which centered on hens, caponettes and fryers. More than ample supplies of all classes were offered Buyers were critical on size and quality.

Receipts May 27 — 112,00 lb. including Delaware 30,000 lb., Maryland 5,000 lb

Wholesale selling price No 1 & fancy quality Broiler-fryer heavy type 3-4 lb 22-25, pullets 41/2 lb and over 30-31, hens, heavy type 26-29, light type 16-21, old roosters 10-12, ducks Pekin 30,

|Expanded Hay Show Series Planned By PSU Agronomists This Summer

्रह्म सामा है हैकि एवं नावण ते तेत्रताता तो व तो एक रक्षेत्रक विद्यालय है है है है है है है है है है

By NORMAN EBERLY Penn State Ag. Editor

Samples from forage stands soon to be harvested on Pennsylvania farms will be among entries at five district hay shows in tne state.

Frank G. Bamer, chairman of University, said this will be the third annual series of hay shows. The dates: Aug. 21-23, Hershey, for Southeast Pennsylvania; Oct. 7, Greensburg, Southwest; Oct. 9 University Park Central; Oct 30, Titusville, Northwest, Nov. 6, Wysox, Northeast.

BAMER SAID Dr. John E Baylor, extension agronomist, will have charge of the shows, with county agents assisting The shows are a part of the continuing emphasis being placed by the University's agricultural staff on better hay crops. Interested organizations, including seed, machinery and equipment dealers, power companies and farmer cooperatives, are lending financial assistance.

of two divisions - one for field fertilizer.

cured hay, the other for hay that is heat dried, with a grand champion for the top entry of the whole show.

FREE CHEMICALS analyses will be made of the top three samples in each class, and the first two winners in each class will qualify to enter hay exhibits, agronomy extension at Penn State in corresponding classes, at the 1959 Pennsylvania Farm Show next January in Harrisburg.

The first show will be part of a week-long multi-event program at Hershey, including the annual Pennsylvania Dutch Days and the Pennsylvania and National Plowing Matches.

THE HERSHEY hay show will embrace a 16 county region of Dauphin, Lebanon, Berks, Schuylkıll, Bucks, Lehigh, Northampton, Montgomery, Philadelphia, Delaware, Chester, Lancaster, York, Adams, Franklin and Cumberland

J. E. Lanius & Son (Donald), York RD 3, won the grand championships there in 1956 and 1957, both with field cured alfalfa.

Three special related exhibits are planned for the Hershey show. Winners of the first five places | One will be of weeds and weed in each class will get ribbons. A control, one of grasses and lechampion will be named for each gumes, and another of lime and

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