Test Results Reveal USDA Loses 'the Thing' on Grubs

A new systemic insecticide tests at Corvallis, Ore, dur- ing 400 to 500 pounds were shown promise and versatility in experimental use by entomologists.

organophosphorus compound known chemically as (0-(4tert-butyl- 2 -chlorophenyl) O-methyl methylphoramidothioate) It can be administered either orally or as a

Used orally, the chemical at the highest test dosages used provided control amounting to 94 to 100 per cent. Used as a spray, it provided 99 to 100 per cent control. The chemical is not yet available to cattlemen

Test results were reported Nov 26, to members of the Entomological Society of Am er:ca holding their sixth annual meeting at Salt Lake City, Utah

Adolph R Roth and James W. Eddy, entomologists of USDA'S Agricultural Research Service, conducted the

for control of cattle grubs, ing the 1957-58 grub season

previously tested chemical had only proved effective as other was effective only as a sa'd gave excellent results, used in either manner.

Experimental treatments, Mr. Roth explained, were most effective when the dosage administered in bolus or capsule forms amounted to 20 or 25 milligrams of the new chemical to each kilogram, (about 22 pounds) of body we'ght of the test animals Results were fair, however, when oral dosages of only 4 to 15 milligrams per kilogram of body weight were given.

The reasearchers obtained nearly perfect control results when 4 quarts of spray were used per animal, but a 2-quart application provided about 70 to 80 percent control The spray formulation included a wettable powder containing 0.75 percent active material Sprays were applied under an operating pres sure of 250 to 300 pounds

Hereford yearlings weigh- Rochefoucauld

used in the experiments cause of heavy annual losses Discussing findings of the They were treated in the fall to livestock producers, has test, Mr. Roth said that one of 1957 and examined for grubs last February, March, April and May. The grubs, an oral treatment while an Hyponderma lineatum, norm ally appear largely in March. The new chemical is an spray The new chemical, he Those appearing in April were mainly of the H boris children the importance of ing turns. species

The test animals were selected at 1 and om and ear-tagfrom the animals used as con mature person.

In addition to the Hereford yearlings used in the last test, all of which were treated before the grubs appeared, a single grub-infested yearling Guernsey steer was treated orally with the 25milligram dosage after grubs back The agimal was infested with 22 encysted second and third-instar larvae, all of which were dead 14 days after treatment

Philosophy triumphs easily over past and over future, evils but present evils triumph over philosophy -La

Public Farm Enemy No.

Records show more than 1,100 fatilities in the nit State's each year are caused by tractor accidents Assist Chester County Agent Frank E. Bortz says many of can be avoided by just being careful and taking your h He suggests these points to remember when operating tors and other farm machinery.

A child's safety is a par- keep them evenly adjusted ent's responsibility. Teach safety and point out dangers involved in the use of mach- do not carry extra rideis mery. Emphasize that opera-either the tractor or inged. They were not separated ting a tractor is a job for a implements.

One farm killer. Tractors are overturns are one of involved in 35 per cent of all chief causes of tractor accidents. Forty per cent of dents Be careful where all tractor accidents are fatal to the operator

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