

Drainage Research Simplifies System

Research by P. W. Manson, University of Minnesota agricultural engineer, may prove helpful in simplifying field drainage with tile systems. He says it isn't necessary to connect lateral drain lines to the main drain pipe at a 45-degree angle. Instead, the lateral can be connected at a right angle (90 degrees) without interrupting the water flow.

Before, it was thought necessary to have lateral lines connected to the main line at 30- or 45-degree angles to insure rapid drainage. Making a 45-degree junction meant the lateral lines had to be curved to make that angle. Gaps between the short sections of tile on the outside of the curve made installation more complicated and expensive because of the necessity of filling the gap or trimming the tile. With the junctions at right angles, the troublesome curve has been eliminated.



SOUTHERN LANCASTER COUNTY residents who depend on Route 222 for travel to Lancaster are happy to see concrete being laid on the sections now closed to traffic. The highway has been closed since early this spring after having been open for only a few months. The work this year will straighten some curves and will by-pass Refton. (LF Photo)

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"This is no sob story or overdrawn picture. You should see my mail each week if you want to witness the inside story of alcohol from the psychological angle. (Dr. George W. Crane, psychologist)

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A type of ringworm frequently found in cattle has been reported to affect sheep in France, according to word received by the American Veterinary Medical Association.

Systemic Shows Effect on Fly

(Continued from Page One)

in each 100 plants collected at random in each plot Forage samples were collected on five dates and were weighted for yield and were tested for toxicity residue.

Infestation ranged from 138 maggots per 100 plants on the untreated check plots to only 33 per 100 in the plot treated at the rate of 1,600 grams of Thimet an acre.

Forage yield gains were also significant. On the control plot, there were only 504.4 grams of forage a square yard. The next low figure was 680 grams on a plot treated with 400 grams of Thimet and the high yield figure was 775 grams on the 1,600 gram treated plot.

The residual effect of the insecticide is shown in the fact that the plot receiving the lightest treatment, 200 grams an acre, still carried .009 parts per million of the insecticide on Oct. 19, which is normally 13 days after the fly free date.

Fly emergence in this heavily infested field began on Oct. 1 and lasted only until Oct. 12. In other words, the systemic immunity of the plant began several days before the fly season and outlasted it by a similarly safe margin.

Increased plant growth was noted early in the experiment. It was especially significant on Nov. 2 when the wheat reached excellent condition for grazing or silage making. On that date the forage yields on untreated plots averaged 5,373 pounds an acre, as compared to 8,373 pounds an acre on the treated plots which had received 1,600 grams of Thimet, a net gain of 2,750 pounds an acre.

In contrast, it is estimated that wheat seeded without insecticide on the fly-free date, Oct. 6, would have yielded no more than 2,750 pounds an acre by Nov. 2.

Experiment station director, Dr. John H. Longwell, says that though the potential savings of the new method now appear fairly well assured, at least one more year of experimentation on a wider scale will be necessary before specific recommendations for general adoption of the practice can be made.

More than 4 million people are expected to visit the 96 county and community agricultural fairs scheduled in Pennsylvania this summer and fall.

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