

NEMATICIDE TREATMENT EFFECTS ON RENIFORM NEMATODES IN COTTON

Paul D. Wigley, Stephen J. Komar, Robert C. Kemerait and William D. Shurley

The University of Georgia Cooperative Extension Service

Morgan and Tifton, GA

Abstract

A split-plot experiment was conducted to evaluate reniform nematode *Rotylenchulus reniformis* control options in cotton. Main plot treatments included, 1,3- dichloropropene (Telone II) injected behind the sub-soil shank and no Telone application. Sub plot treatments included, oxamyl (Vydate C-LV), two at planting rates (3.5 and 6 lbs) aldicarb (Temik 15G), and a split-application of Temik (6 lbs AP + 7 lbs 45 DAP). All treatments provided a numerical reduction in nematode population 28 DAP. The addition of Telone II provided a significant reduction in nematode population in all treatments ($P= 0.05$). Nematode populations increased above treatment threshold levels 75 DAP in all treatments with the exception of two lowest rates of Temik. The addition of Telone II increased yields in all treatments by nearly 100 pounds per-acre, with the greatest yields being recorded in the Telone plus Vydate and the Telone plus Temik (6 lbs AP + 7 lbs 45 DAP). Differences were observed in net return per-acre ranging from \$18 to \$ 90 over the control (Temik 3.5 lbs AP).