Root-knot Nematode Resistant Cotton Research at Delta Research and Extension Center. (C01-creech095613-Poster)

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Abstract:

Nematodes is increasingly recognized threat to American cotton production all across the cotton belt. Two nematode pathogens, root-knot (Meloidogyne incognita Race 3)(RKN) and reniform (Rotylenchulus reniformis)(REN) nematodes, are very widespread, infesting more than 70% of the fields in some areas. There has been ongoing research in RKN resistance at DREC and MSU. New projects involve the search for REN and new RKN resistance in germplasm and combine them into elite non-GMO cotton genotypes with nematode resistance. Research measures the most effective nematicide controls has also been conducted. New projects include the development of structural and functional genomic infrastructure, as well as proteomic ones as part of cooperative research with other institutions. Reports indicate the successful development of nematode-resistant cultivars will yield up to 300M dollars more farm-gate profit per year for the US.

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