EFFICACY OF ANTHEM HERBICIDE AGAINST COMMON WEEDS IN UPLAND COTTON

D. Scott Akin
FMC Corporation
Monticello, AR
Sam Wilson
FMC Corporation
Cary, NC
Rusty Mitchell
FMC Corporation
Louisville, MS
Don Johnson
FMC Corporation
Madison, MS

Abstract

Field trials were conducted in 2012 to evaluate preemergence efficacy of Anthem herbicide against weeds such as Palmer amaranth, velvetleaf, and annual grasses. Anthem herbicide, containing pyroxasulfone and fluthiacet-methyl, was applied PRE to upland cotton at 9 locations in TX, AR, LA, TN, GA, and NC. Weed control (%) and phytotoxicity (%) was evaluated for various rates of Anthem (75, 100, and 125 g/ha pyroxasulfone), Dual II Magnum (2 pt/A), and Prowl H_20 (2 pt/A). At multiple locations, Anthem was comparable with Dual II Magnum (96-99%) and better than Prowl H_2O (88%) with respect to Palmer amaranth control at 29 DAT. All rates of Anthem provided better velvetleaf control (68-83%) than Dual II Magnum (50%) and Prowl H_2O (33%) at 29 DAT at the only location that had sufficient velvetleaf pressure and ample rainfall for PRE activation. Medium and high rates of Anthem were also comparable with Dual II Magnum and Prowl H_2O with respect to Texas panicum control (90-92%) at 29 DAT. Anthem caused 0% crop injury at 4 locations with medium- to fine-textured soils across all rating timings.

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