

WEED CONTROL IN SORGHUM WITH MESOTRIONE. Whitney R. Kumm*, Alex R. Martin, and Fred W. Roeth, and David L. Regehr, Graduate Research Assistant, Professor, Professor, and Professor, Department of Agronomy University of Nebraska, Lincoln, NE 68583 and Department of Agronomy Kansas State University, Manhattan, KS 66506.

Three studies were conducted to evaluate mesotrione for weed control in sorghum. One study was conducted at Kansas State University comparing different mesotrione combinations. Two studies were conducted in Nebraska, one in Lincoln, and one at the South Central Agricultural Laboratory in Clay Center. These two studies measured weed control and crop damage with different mesotrione products and rates with the focus on sorghum tolerance to mesotrione.

In the Kansas study, the sorghum was evaluated at heights of 10 ", 18 ", and 34 " for crop injury. Some initial damage was observed, but by 34 " height the mesotrione treated plots had recovered.

In Nebraska, the sorghum was evaluated 2, 3, and 5 weeks after planting. Once again, there was some initial damage but the plants showed no symptoms by the fifth week. After recovery from the initial symptoms, the crop produced a full yield.