RIMSULFURON BASED WEED CONTROL PROGRAMS IN GLYPHOSATE TOLERANT CORN. Craig M. Alford*, J. Leslie Lloyd, and David W. Saunders. Field Development Representatives and Product Development Manager, DuPont Crop Protection, Lincoln, NE 68505 and Des Moines, IA 50009.

Studies were conducted in 2005 comparing herbicide systems in glyphosate tolerant corn (Zea mays L.). Rimsulfuron was applied pre-emergence, as a setup for glyphosate in a two pass program or in combination with glyphosate in a one pass weed control program. Studies were placed in replicated small-plot trials with university, private contractor and DuPont investigators across the United States. Key weeds included giant foxtail, yellow foxtail, green foxtail, common lambsquarters, velvetleaf, common waterhemp and common ragweed. The addition of rimsulfuron to glyphosate improved control of several grass and broadleaf weed species compared to glyphosate applied alone. Rimsulfuron based pre-emergence treatments provided similar levels of weed control to current commercial standards.

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