

PREEMERGENCE EVALUATIONS OF TWO NEW CHLORIMURON-ETHYL, THIFENSULFURON-METHYL PLUS FLUMIOXAZIN BLENDS IN COMPARISON TO KEY COMMERCIAL STANDARDS IN SOYBEAN. Marsha J. Martin, Gregory R. Armel, Helen A. Flanigan, Susan K. Rick. DuPont Crop Protection. Newark, DE. 19711.

In 2007, university and DuPont small plot, replicated field studies were conducted throughout the US soybean growing regions to compare preemerge performance of two new chlorimuron-ethyl, thifensulfuron-methyl and flumioxazin containing herbicide blends to competitive standards. The first herbicide blend has a lower rate of chlorimuron-ethyl, enabling it to be used on any pH soil, and is composed of: 2.85% chlorimuron-ethyl, 36.21% flumioxazin, and 8.8% thifensulfuron-methyl (Enlite™). The second herbicide blend has a higher rate of chlorimuron-ethyl and is composed of: 9.2% chlorimuron-ethyl, 29.2% flumioxazin, and 2.9% thifensulfuron-methyl (Envive™). In 18 field trials, both blends gave good to excellent control of velvetleaf, common lambsquarters, waterhemp, redroot pigweed, palmer amaranth, common ragweed, prickly sida, and eastern black nightshade, with fair to good suppression of annual grasses. Residual control was equal to or better than the competitive standards. The marketing direction for Envive™ and Enlite™ will be primarily as a planned preplant or preemerge application followed by a post herbicide program in a glyphosate tolerant soybean system.