

BURNDOWN AND RESIDUAL CONTROL WITH TWO NEW CHLORIMURON-ETHYL, THIFENSULFURON-METHYL PLUS FLUMIOXAZIN BLENDS IN SOYBEANS. Susan K. Rick, Marsha J. Martin, Gregory R. Armel and Helen A. Flanigan. Field Development Representatives and Product Development Specialist, DuPont Crop Protection. Wilmington, DE 19880.

Field studies were conducted in 2007 to evaluate the postemergence control of emerged winter annual weeds and the residual control of summer annual weeds in soybeans with two new chlorimuron-ethyl, thifensulfuron-methyl and flumioxazin blends. University and in-house small plot trials were conducted throughout the soybean growing areas comparing these new blends to key commercial standards. The new blends gave excellent control of emerged weeds including marehail, henbit, dandelion, cressleaf groundsel, chickweed and cutleaf evening primrose. Control of winter annuals was similar to or better than most standards depending on the target weed. Evaluations taken seven to nine weeks after application showed residual control of summer annual weeds such as waterhemp, Palmer amaranth, common lambsquarters, ragweeds, prickly sida and morningglories comparable to or better than most commercial standards.

These blended products will be marketed under the trade names of Envive™ and Enlite™ herbicides. Envive™ herbicide will contain 29.2% flumioxazin, 9.2% chlorimuron-ethyl and 2.9% thifensulfuron-methyl. The active ingredients in Enlite™ herbicide will be 2.85% chlorimuron-ethyl, 36.21% flumioxazin and 8.8% thifensulfuron-methyl. The lower rate of chlorimuron-ethyl in Enlite™ herbicide will allow the use on higher pH soils. Envive™ and Enlite™ used in planned preemergence followed by post herbicide program will provide postemergence burndown and season long weed residual control of key weeds in soybeans.