

FALL APPLICATIONS OF CHLORIMURON-ETHYL BASED OFFERINGS IN COMPARISON TO KEY COMPETITIVE STANDARDS IN SOYBEAN. Marsha J. Martin, Gregory R. Armel, Helen A. Flanigan, Susan K. Rick. DuPont Crop Protection. Newark, DE, 19711.

Twelve university and four DuPont field trials were conducted in 2006/2007 to compare fall applications of chlorimuron-ethyl plus tribenuron-methyl (Canopy™ EX) to iodosulfuron-methyl sodium (Autumn) and determine differences in burndown spectrum and length of residual control. Four treatments were tested in the university protocol, Canopy™ EX at 1.1 and 2.2 oz/ac, Autumn at 0.3 oz/ac and a glyphosate standard. In addition to these treatments, the DuPont trials also included Autumn at 0.6 oz/ac and both Autumn treatments tank mixed with Sencor at 10 oz/ac. All treatments included crop oil concentrate at 1% v/v and 1 pt/ac 2,4-D LV4.

In university trials, both rates of Canopy™ EX showed good to excellent control of the following weeds evaluated at multiple locations: common ragweed, common lambsquarters, maretail, henbit, annual bluegrass, chickweed, and dandelion. Canopy™ EX at both rates gave suppression of giant ragweed and giant foxtail. Autumn gave good control of henbit, fair control of chickweed and dandelion, poor control of common ragweed, common lambsquarters, giant foxtail, annual bluegrass, and suppression of giant ragweed.

In the 4 DuPont trials, both rates of Canopy™ EX gave excellent control (93% or greater) of the following weeds rated at multiple locations: annual mustards, deadnettle, chickweed, dandelion, and speedwell sp., while single observations showed good to excellent control (90-100%) of red root pigweed and common lambsquarters. All Autumn treatments showed poor control of common lambsquarters and red root pigweed, whereas the addition of Sencor improved speedwell control to fair. Annual mustard and chickweed control in all Autumn treatments was fair to good regardless of Sencor presence or absence. Dandelion control was poor to fair with Sencor and fair to good without Sencor.

For this data set of 16 fall trials, 1.1 - 2.2 oz/ac Canopy™ EX showed a better burndown spectrum and significantly better residual activity than 0.3 - 0.6 oz/ac Autumn or 0.3 - 0.6 oz/ac Autumn + 10 oz/ac Sencor.