

WEED CONTROL WITH AE 0172747 IN CORN. John Hinz, John Wollam and Jayla Allen, Field Development Representative, Regional Research Manager and Product Development Manager, Bayer CropScience, Story City, IA 50248, Kansas City, MO 64120, and Research Triangle Park, NC 27709.

AE 0172747 is a new postemergence corn HPPD-inhibiting herbicide from Bayer CropScience. The proposed use rate is 92 grams of the active ingredient per ha. AE 0172747 is very safe to corn. Only, 1% phytotoxicity was observed at 3 times the use rate. AE 0172747 is safer to the crop than mesotrione at use rates. AE 0172747 has comparable weed control to mesotrione for *Abutilon theophrasti*, *Amaranthus retroflexus*, *Amaranthus rudis*, *Chenopodium album*, *Ambrosia elatior*, *Ambrosia trifida*, *Polygonum pennsylvanicum*, *Xanthium strumarium* and *Digitaria sanguinalis*. AE 0172747 had superior weed control compared to mesotrione for *Echinochloa crus-galli*, *Pennisetum glaucum*, *Setaria faberi* and *Sorghum vulgare*. The label for AE 0172747 has been submitted and registration is expected in 2008.