

KIXOR™ HERBICIDE (SAFLUFENACIL) PERFORMANCE PROFILE IN 2008 UNIVERSITY CORN TRIALS. Dan E. Westberg, Brady F. Kappler, Mark A. Storr, Duane P. Rathmann, Garfield G. Thomas, and Caren A. Judge, BASF Corporation, Research Triangle Park, NC, 27709.

Kixor (saflufenacil) is a new herbicide active ingredient under development for preplant, preplant incorporated, and preemergence broadleaf weed control in corn. Kixor demonstrated excellent residual control on key broadleaf species including common cocklebur (*Xanthium strumarium*), common lambsquarters (*Chenopodium album*), common ragweed (*Ambrosia artemisiifolia*), common sunflower (*Helianthus annuus*), giant ragweed (*Ambrosia trifida*), horseweed (*Conyza canadensis*), morningglory spp. (*Ipomoea* spp.), nightshade spp. (*Solanum* spp.), and pigweed/waterhemp spp. (*Amaranthus* spp.).

The lead formulation evaluated in 39 university trials was a premix of Kixor + dimethenamid-p, Integrity™ Herbicide, at the target use rate range of 614 to 1228 g ai/ha; rates were adjusted based on soil texture. Integrity provided broad spectrum broadleaf and grass control whether it was used at full rates as a one-pass preemergence treatment or at reduced rates (2/3X) as a set-up for an in-crop postemergence application of glyphosate.

Federal registration is projected during the 3rd quarter of 2009.