

KIXOR™ HERBICIDE (SAFLUFENACIL) PERFORMANCE PROFILE IN 2008 UNIVERSITY SOYBEAN TRIALS. Dan E. Westberg, Paul M. Vassalotti, Gery R. Welker, Dennis W. Belcher, and Adam C. Hixson, BASF Corporation, Research Triangle Park, NC, 27709.

Kixor (saflufenacil) is a new herbicide active ingredient under development for preplant to preemergence burndown of broadleaf weeds in soybean. Kixor demonstrated rapid burndown as well as preemergence activity on most broadleaf species including common lambsquarters (*Chenopodium album*), common ragweed (*Ambrosia artemisiifolia*), common sunflower (*Helianthus annuus*), giant ragweed (*Ambrosia trifida*), horseweed (*Conyza canadensis*), morningglory spp. (*Ipomoea* spp.), and pigweed/waterhemp spp. (*Amaranthus* spp.). Glyphosate resistant horseweed was present at a few locations; Kixor provided effective control of these populations. Control of emerged grasses with glyphosate was unaffected by the addition of Kixor.

Two formulations were evaluated in 31 university trials: 1) a solo product, Sharpen™ Herbicide, at the target use rate of 25 g ai/ha, and 2) a premix of Kixor + imazethapyr, OpTill™ Herbicide, at the target use rate of 95 g/ha. Both formulations provided excellent broadleaf weed burndown and reduced early season broadleaf weed competition with their residual activity. OpTill provided additional residual broadleaf activity and significant grass residual. The residual activity provided by the formulations was effective as a set-up treatment for an in-crop postemergence application of glyphosate.

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