

BURNDOWN CONTROL OF FALL GERMINATING WEEDS WITH BAS 800H AS INFLUENCED BY THE TYPE OF ADJUVANT. Stevan Z. Knezevic, and Jon Scott. Associate Professor and Technologist, Haskell Ag. Lab., Univ. of Nebraska, Concord, NE; Leo Charvat, BASF Corporation, Lincoln, NE.

BAS 800H is a new herbicide under development for broadleaf weed control in various crops. Field studies were conducted in the Fall of 2005 and 2006 with the objective to describe dose-response curves of BAS 800H applied POST on 10-15 cm tall weeds. A total of six BAS-800H rates, ranging from 0 to 100 g ai/ha, were used alone or tank mixed with glyphosate (870 g ae/ha), NIS (0.25 % v/v), COC (1% v/v), or MSO (1% v/v). An effective dose (ED) that provided 90% control (e.g., ED90) was determined for each weed species using R software and drc package. In general, preliminary data suggested that MSO provided the most enhancement of BAS 800H. The ED90 values for common dandelion (*Taraxacum officinale*) at 14 DAT were 54, 96, 48, 40, and 99 g /ha of BAS 800H applied tank mixed with glyphosate, NIS, COC, or MSO, and BAS 800H applied alone, respectively. The ED90 values for henbit (*Lamium amplexicaule*) were 41, 87, 45, 32, and 95 g /ha of BAS 800H tank mixed with glyphosate, NIS, COC, MSO, and BAS 800H alone, respectively. Similar trends in ED90 values were observed for field bindweed (*Convolvulus arvensis*), prickly lettuce (*Lactuca serriola*), and shepherd's-purse (*Capsella bursa-pastoris*), suggesting potential use of this new compound for fall control of many broadleaf weeds.