

EFFECT OF WEED SIZE ON CONTROL OF WEEDS WITH 2,4-D + GLYPHOSATE TANK MIXES IN CORN. David E. Hillger*, Marvin E. Schultz, Dave C. Ruen, Bruce E. Maddy, A. Stanley Culpepper, Mark M. Loux, and Bryan G. Young, Field Scientists, Dow AgroSciences, Indianapolis, IN 46268, Professor, University of Georgia, Tifton, GA 31794, Professor, The Ohio State University, Columbus, OH 43210 and Professor, Southern Illinois University, Carbondale, IL 62901.

Weed size can significantly affect the level of control achieved with glyphosate. This effect can be accentuated in weed biotypes that have developed some level of resistance to glyphosate. The addition of 2,4-D to glyphosate may provide more consistent control of larger broadleaf weeds than that achieved with glyphosate alone. Dow AgroSciences has recently announced the development of a new family of traits that will enable the use of 2,4-D at rates and application timings that were previously impractical. Field studies have been conducted to evaluate the performance of 2,4-D amine at rates ranging from 560 to 1120 g ae/ha in combination with glyphosate on 5-10, 15-20, and 25-30 cm weeds. Results indicate that 2,4-D improved control of several key broadleaf weed species at larger growth stages as compared to glyphosate alone.