

PERFORMANCE OF CEREAL GRASS HERBICIDES IN TANK-MIX COMBINATIONS WITH FLUROXYPYR, CLOPYRALID, AMINOPYRALID, BROMOXYNIL, AND MCPA MIXTURES. Monte R. Weimer, Brett Oemichen and Roger Gast. Dow AgroSciences, Indianapolis, IN.

Wild oat, green foxtail, and yellow foxtail efficacy obtained from postemergence applications of clodinafop, fenoxaprop, flucarbazone, mesosulfuron, pinoxaden, propoxycarbazone plus mesosulfuron, or tralkoxydim, were evaluated when applied alone or in tank-mix combination with the premix broadleaf products fluroxypyr + clopyralid (WideMatch), fluroxypyr + aminopyralid (CleanWave), or fluroxypyr + bromoxynil (Starane NXT) with and without MCPA. A total of 30 field trials were conducted on various combinations from 2004-2006 in Idaho, Montana, North Dakota, South Dakota, and Washington. No significant decrease in wild oat, green foxtail, or yellow foxtail efficacy was observed with any of the grass herbicides evaluated when tank-mixed with either WideMatch or CleanWave. A slight decrease in wild oat efficacy provided by fenoxaprop was observed with a tank-mix combination of Starane NXT with MCPA (93% versus 87% control, respectively). Wild oat efficacy was not affected when clodinafop, flucarbazone, tralkoxydim, or pinoxaden was tank-mixed with Starane NXT alone or with MCPA. A 12 percent decrease in flucarbazone activity on green foxtail was observed when tank-mixed with Starane NXT and MCPA. The greatest reduction in control observed in these studies was a 22 or 18 percent decrease in visual control of yellow foxtail with fenoxaprop when applied with combinations of Starane NXT alone or with MCPA, respectively. Yellow foxtail activity from clodinafop was decreased 11% when tank-mixed with Starane NXT. No antagonism of yellow foxtail activity was observed when pinoxaden or flucarbazone was tank-mixed with Starane NXT alone or with MCPA. These studies indicate that Starane NXT with or without MCPA demonstrated compatibility issues with certain graminicides depending on the grass weed target. Tank-mix combinations of either WideMatch or CleanWave with common graminicides can deliver broadspectrum weed control solutions without compromising grass efficacy.