

Broadleaf Weed Control in Turf with Fluroxypyr Based Herbicide Formulations

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ABSTRACT:

Fluroxypyr (4-amino-3,5-dichloro-6-fluoro-2-pyridyloxyacetic acid) was evaluated in combination with triclopyr, mecoprop-P, 2,4-D and dicamba for broadleaf weed control in turf. Numerous field trials were conducted across the country in 2002-2003 utilizing common protocols. Treatment combinations were applied as both a liquid spray and on a fertilizer granule carrier. Fluroxypyr was applied at 0.28kg ae/ha in each combination while mecoprop-P (MCPP), 2,4-D and dicamba were included at 1.67, 1.11 and 0.14 kg ae/ha, respectively. Triclopyr was applied at either 0.42 or 0.83 kg ae/ha depending on which combination it was included. Performance comparisons were made with both liquid and fertilizer granule combinations of triclopyr/clopyralid and mecoprop-P/2,4-D/dicamba. Broadleaf weed control evaluations were made approximately 2, 4 and 8 weeks after treatment. Results from 2002 demonstrated those liquid spray combinations of fluroxypyr with triclopyr at 0.83 kg ae/ha or MCPP resulted in greater than 90% control of *Plantago lanceolata* (PLALA), *Trifolium repens* (TRFRE), *Glechoma hederacea* (GLEHE) and *Medicago lupulina* (MEDLU). The same combinations provided approximately 80% control of *Taraxacum officinale* (TAROF). Granule fertilizer combination of fluroxypyr and triclopyr at 0.83 kg ae/ha resulted in approximately 80% control of TRFRE. These results are similar to those expressed by the comparison standards. Additional results from 2003 field studies will also be presented.