HORSEWEED (Conyza sumatrensis) CONTROL USING GLYPHOSATE ASSOCIATED WITH HALAUXIFEN-METHYL FORMULATIONS

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This study aimed to evaluate the control of *Conyza sumatrensis* with glyphosate or halauxifen-methyl applied alone or in combination with other herbicides at three growth stages, being: Stage 1: plants with 8 leaves (5-10 cm); Stage 2: plants with 19 leaves (10-20 cm) and stage 3: plants with 45 leaves fully expanded (20-30 cm). The experimental design was a randomized complete block in a 3x10 factorial arrangement, with four replications. The treatments applied were glyphosate at 1.440 g a.e. ha^{-1} applied with 2.4-D at 806, 943 or 1.209 g a.e. ha^{-1}; halauxifen-methyl + diclosulam at 5.1 g a.e. ha^{-1} + 25.5 g a.i. ha^{-1} and 6.3 g a.e. ha^{-1} + 31.9 g a.i. ha^{-1}; halauxifen-methyl + 2.4-D at 5.0 + 783 g a.e. ha^{-1} and 6.0 + 940 g a.e. ha^{-1};and halauxifen-methyl at 5.0 and 6.0 g a.e. ha^{-1}. At 50 days after application all treatments provided >90% control of the plants in Stage 1 at 50 DAA, except glyphosate + 2,4-D at the lowest rates. At Stages 2 and 3, halauxifen-methyl + diclosulam provided superior control compared to the other treatments. The best control of *C. sumatrensis* across all growth stages was obtained with halauxifen-methyl + diclosulam at 6.3 g a.e. ha-1 + 31.9 g a.i. ha^{-1} in association with glyphosate.

Palavras-chave: *Conyza sumatrensis*, Arylpicolinate herbicide, auxin mimic herbicide, burndown.

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