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Effect of fentrazamide on the growth, morphology and anatomy of *Echinochloa crus-galli* and *Echinochloa oryzicola*

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Abstract:

The effects of fentrazamide [4-(2-chlorophenyl)-*N*-cyclohexyl-*N*-ethyl-4,5-dihydro-5-oxo-1*H*-tetrazole-1-carboxamide] on the growth and morphology of *Echinochloa crus-galli* (L.) Beav. and *Echinochloa oryzicola* Vasing. were investigated. Fentrazamide at 250 g a.i. ha⁻¹ showed high efficacy on weeds up to the 3-leaf stage. The growth of the subsequent leaves was retarded by the herbicide and dark green coloration appeared, and then the basal part of leaf sheathes underwent necrosis. The cell elongation and cell division of *Echinochloa* spp. were inhibited by fentrazamide. These effects were also observed on plants treated with mefenacet [2-(2-benzothiazoyl-oxy)-*N*-methyl-*N*-phenyl-acetamide].

Keywords:

fentrazamide, *Echinochloa crus-galli* (L.) Beav., *Echinochloa oryzicola* Vasing., morphology, anatomy

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