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The Acute Toxic Effect of Glyphosate-Based Herbicide on *Melanopsis praemorsa*

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Aim of the study: In this research, the aim is to determine 24, 48, 72 and 96-hours acute toxic effect of glyphosate-based herbicide on *Melanopsis praemorsa*.

Material and Methods:*M. praemorsa* is an organ in the "Red List of Threatened Species" of the International Union for Conservation of Nature. *M. praemorsa* samples were exposed to ten concentrations in the range of 0,1-1968.3 mg/l of a commercial formulation of glyphosate for 24, 48, 72 and 96-hours. We analyzed the results by probit analysis.

Results: In this work, the effects of different concentrations of glyphosate-based herbicide on *Melanopsis praemorsa* were tested. The LC50 values of glyphosate were determined for 24, 48, 72 and 96-hours as 21.762, 12.641, 10.583 and 9.338 mg/1 respectively.

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Keywords: Acute toxicity, Glyphosate, *Melanopsis praemorsa*