EFFECT OF GLYPHOSATE HERBICIDE ON PHYSIOLOGICAL AND BIOCHEMICAL PARAMETERS OF VIGNA MUNGO L.

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Abstract: A field experiment was conducted to evaluate the effect of Glyphosate on different physiological and biochemical parameters of Vigna mungo L. The results obtained from this study revealed that the low amount of application of glyphosate (50 ppm and 100 ppm) of glyphosate have stimulatory effect on plant growth but adversely affect the growth parameters at higher concentration (>100 ppm). At higher concentration glyphosate decrease the protein, chlorophyll and leghaemoglobin contents of plants and interrupt the Rhizobium-legume symbiosis. Hence, the present study can conclude that glyphosate in the limited amount (50ppm and 100ppm) can enhance the productivity of plant Vigna mungo L.

Keywords: Glyphosate, Vigna mungo L., Rhizobium, Herbicides, Weed control methods

REFERENCES


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