

Effect of fluoride toxicity on the growth and yield of barley (*Hordeum vulgare* L.)

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SUMMARY

The effect of sodium fluoride toxicity has been studied on morphological characters *viz.*, height (cm.) / per plant, tillers / plant, number of leaves / plant, leaf area (sq.cm.) / plant, fresh and dry weight (g.) / plant, number of ears / plant, yield of seeds / M² and test weight (g) (1000 seeds weight) of barley cv. DL-69 and K-24. The experiment was conducted for two years in the RBD design with five treatments and four replications. The concentrations of sodium fluoride were taken as 10, 25, 50, 100 and 200 ppm along with control. In general the results of control were found maximum and minimum of 100-200 ppm doses of NaF of barley (*Hordeum Vulgare* L.). In few characters 10 ppm showed threshold response.

Key Words : Sodium fluoride, Toxicity, Threshold limit, Growth, Tillers, Barley cv. DL-69 and K-24

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