GROWTH RESPONSE IN LYCOPERSICON ESCULENTUM MILL. ON EXPOSURE TO ENDSULFAN AND MALATHION

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Abstract: The effect of three different concentrations (0.05%, 0.15% and 0.25%) of endosulfan and malathion was observed on the growth of two varieties of tomato, viz. Pusa Ruby and Pusa Early Dwarf. The length and weight of root and shoot were studied on treatment with the two pesticides. It was observed that at low concentration of malathion the growth was stimulated in both root and shoot of both the varieties. On the other hand growth was reduced at high concentrations with both endosulfan and malathion. Reduction was more in root than shoot. Root weight ratio, shoot weight ratio and root shoot ratio were also analyzed. A significant effect was observed with endosulfan and the effect with malathion were less deleterious.

Keywords: Endosulfan, Malathion, Tomato, Growth, Root, Shoot

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