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INFLUENCE OF NON CHEMICAL PRODUCTS ON PLANT GROWTH PARAMETERS OF WHEAT AND NEMATODES POPULATION DENSITY

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Abstract

The effect of two soil amending products, namely soil treatment (T_1) and the other bio-fertilizer (T_2) have been examined against nematode population and plant growth parameters of wheat. Five leading varieties have been tested in experimental field of the National Nematological Research Centre, University of Karachi. Soil treatment consisted of balanced organic and inorganic substances; that has positive impact of reducing nematode population as well as improves land fertility where as bio-fertilizer comprised of organic substances, isolated from the marine area. It develops essential microbes to promote the germination rate and early maturation of healthy crops. It also becomes a barrier against harmful nematodes. As a result quantitative and qualitative analysis against nematodes has shown significant results at all concentrations of soil treatment as well as bio-fertilizer. Plant growth parameters respond positively by the application of soil treatment at the concentration of 6 ml / 16 sq ft where as bio-fertilizer was less effective as compared to soil treatment but significantly improved plant growth as compared to control.