

ROLE OF SOIL FLORA IN SOIL PHYSICAL CONDITION IMPROVEMENT AND THEIR IMPACT ON PLANT GROWTH

Rakesh Giri Goswami ^{1*}, Ashish Kumar Singh² and Thaneshwar Kumar³

^{1&2} Department of Soil Science and Agricultural Chemistry

³Department of Soil Science and Agricultural Chemistry

Indira Gandhi Agricultural University, Raipur -492012 (C.G), INDIA

*Email : rakeshgoswami57@gmail.com

Received-09.01.2015, Revised-18.01.2015

Abstracts: Soil physically supports plants, and acts as a reservoir for storing the water and nutrients required for the plants. Good physical condition facilitates oxygen and water infiltration and can improve water storage, increasing fertilizer use efficiency in plants, ultimately, improves productivity of soil. The soil is teeming with millions of living organisms which make it a living and a dynamic system. These organisms not only help in the improvement of soil physical condition but also carry out a number of transformations, facilitating the availability of nutrients to the plants.

Keywords: Soil, Plant growth, Nutrient

REFERENCES

Bertran, E., Sort, X., Soliva, M., and Trillas, I. (2004). Composting Winery Waste: Sludges and Grape Stalks, *Bioresource Technol*, **95**, 203-208.

Nannipieri P, Grego S, Ceccanti B (1990). Ecological significance of the biological activity in soil. In: Bollag J-M, Stotzky G (eds) *Soil biochemistry*, vol 6. Dekker, New York, pp 293-355.

Negi, M., Sadasivam, K. V. and Tilak, K. V. B. R. (1987). A note on the effect of nonsymbiotic nitrogen fixers and organic wastes on yield and nitrogen uptake of barley; *Biological Wastes*; **22**:179-185.

Rauhe, K. (1987). Effects of organic manuring and cropping on soil humus and fertility; in: *Agricultural Waste Management and Environmental Protection*, edited by Walte,E. and Szaboles, I.; 4th International CIEC Symposium Proceedings ,International Science Centre of Fertilizers, Belgrade.

Singh, H. and Singh, K. P. (1993). Effect of residue placement and chemical fertilizer in soil microbial biomass under tropical dry land cultivation; *Biology and Fertility of Soils*; **16**:275-281; 1993.

Tilak, K. V. B. R., Saxena, A. K. and Datt, N. (1995). Dynamics of microbes in agricultural soil with different management practices; *Journal of Soil Biology and Ecology*; **15**:117-126.

*Corresponding Author