

Study and Characteristics of Microorganism Present in Soil of Hindon River in Budhana Region. Distt. - Muzaffarnagar

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Budhana is located in Distt. Muzaffarnagar in Western Uttar Pradesh. Mainly darkish soils are found in this region with a great fertility. Hindon is a famous River in this region which is now polluted.

Soil factors such as organic matter content, soil structure, nutrient content, nutrient cycling, nutrient availability, and water holding capacity are all influenced by, or dependent upon soil microorganisms. These microbes can be classified into major groups such as fungi, algae, and bacteria. All of these groups can be further subdivided based on genetic relationship, specific functions, or habitats in which they survive. Important soil microbial functions such as organic matter breakdown and nitrogen fixation are fairly well understood, but this is only a small fraction of microbial capabilities. In Budhana region, acetobacter and blue green algae are found in a large number. Acetobacter is a source of acetic acid while blue green algae help in nitrogen fixation. The use of blue green algae in the field of rice completed 25-30 kg nitrogen per hectare/year and growth of production is 10-16%.

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