

Microbiological Analysis of Soil from Onu-Ebonyi Contaminated with Inorganic Fertilizer

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Abstract : Microbiological analysis of soil from Onu-Ebonyi Izzi local government area of Ebonyi State, Nigeria contaminated with inorganic fertilizer was carried out with a view to determine the effect of the fertilizer on the microbial flora of the soil. soil samples were analyzed for microbial burden. the result showed that the following organisms were isolated with their frequency of their occurrence as follows:pseudomonas species (33.3%) and aspergillus species (54.4%) had the highest frequency of occurrence in the whole sample of batches, while streptococcus species had 6.0% and Geotrichum species (5.3%) had the least and other predominant microorganism isolated: bacillus species, staphylococcus species and vibrio species, Escherichia species, rhizopus species, mucor species and fusarium species. From the result, it could be concluded that the soil was contaminated and this could affect adversely the fertility of the soil .

Keywords : soil, bacteria, fungi, inorganic fertilizer, Onu- Ebonyi

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