

The Effect of Soil Treatment on Micro Metal Contents in Soil at UB Forest in Malang District, East Java, Indonesia

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Abstract : The levels of micro metal elements in the soil are influenced by soil management. In this research, the influence of soil management on the content of micro metal elements in the soil in the UB forest was studied. The metals studied include Zn, Mn, Cu, Fe, Cd, and Pb. Soil samples were taken from five sampling points on soil in the UB forest, both soils tilled and untilled. Before analysis, soil samples were digested with HNO₃ solution, and metal levels in soil samples were measured using atomic absorption spectrometry (AAS). The results of the analysis of metal content in the soil at the UB forest show that tilled land has consistently lower levels of metals like Zn, Mn, Cu, and Fe compared to untilled land. Meanwhile, Pb and Cd metals were not detected in all soil samples.

Keywords : soil treatment, metal content, forest soil, Malang District

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