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Chemical Changes in soil treated with sludge and sewage effluents have been studied in growth chamber using soil columns. Concentrations of trace and heavy metals have been determined as well as some changes in pH, E.C., and organic matters (O.M). The results showed Co, Cd, as well as Zn, Fe, Mn, Cu. With reduction in pH and an increase in O.M. Thus heavy elements should be taken into concentration when adding sludge to soils.