

COMPARISON OF MOISTURE CONTENTS FOR DIFFERENT SOIL TEXTURES BY USING BOTH POLYMERS AND ANIMAL MANURES

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ABSTRACT

Soil samples were collected from three locations different in their textures, namely ; clay ,silty loam and sandy loam to study the effects of three levels of both polymers (0.0, 0.25 and 0.5%) and animal manures (0.0 , 2 and 4 %) . Results of laboratory study indicated that moisture content of soils increased with animal manures compared with the control , especially with increasing measuring time for the silty loam soil compare with the clay soil .Results of the saturated, field capacity and the lower moisture content reveals significant differences for the animal manures and the second level of polymer as compared with control ,where the silty loam soil gave 3.09 , 6.5 and 7% respectively .On other hand ,the field experiment with animal manures gave significant differences for plant height and clear effect in plant dry weight as compared with control .