

1.402g/cm³ to 1.674g/cm³ and averaged 1.551g/cm³, bulk density at 80cm depth ranged from 1.449.g/cm³ to 1.823g/cm³ and averaged 1.666g/cm³, bulk density at 100cm depth ranged from 1.601g/cm³ to 1.74g/cm³ and averaged 1.680g/cm³.

The Beerkan Estimation of soil Transfer analysis estimated the slope, intercept, sorptivity, saturated hydraulic conductivity and we observed that the Sorptivity at the surface ranged from 0.159 (mms-0.5) to 0.299 (mms-0.5), Sorptivity at 20cm depth ranged from 0.12 (mms-0.5) to 0.031 (mms-0.5), Sorptivity at 40cm depth ranged from 0.131 (mms-0.5) to 0.26 (mms-0.5), Sorptivity at 60cm depth ranged from 0.029 (mms-0.5) to 0.17 (mms-0.5), Sorptivity at 80cm depth ranged from 0.07 (mms-0.5) to 0.18(mms-0.5), Sorptivity at 100 cm ranged depth from 0.017(mms-0.5) to 0.14(mms-0.5), Saturated hydraulic conductivity at surface ranged from 0.0028, Saturated hydraulic conductivity at 20cm depth ranged from 0.0019, Saturated hydraulic conductivity at 40cm depth ranged from 0.0019, Saturated hydraulic conductivity at 60cm depth ranged from 0.029(mms-1) to 0.17(mms-1), Saturated hydraulic conductivity at 80cm depth ranged from 0.07(mms-1) to 0.18(mms-1), Saturated Hydraulic conductivity at 100cm depth ranged from 0.017(mms-1) to 0.14(mms-1).

Conclusively, Beerkan Assessment of soil Transfer is an auspicious methodology suitable in classifying a soil, though needs to be modified to suit this specific situation which is presently been considered. It is recommended that geostatistical method should be used as a framework for the study of spatial variability of the measured soil properties from this study. The study should also be repeated on different soil type.

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