

## **Effect of Different Tillage Practices on Soil Moisture and Productivity of Pearlmillet Crop under Dryland Condition**

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**ABSTRACT:** An Experiment was carried out at Dryland Research Farm of All India Co-ordinated Research Project for Dryland Agriculture, Agra during 2012-13 and 2013-14 to study the effect of different tillage on soil moisture and Productivity of Pearlmillet crop. Different tillage implements used were mouldboard plough, disc plough, harrow and cultivator. Data showed a significant effect of deep tillage on soil moisture and pearlmillet yield. The increase in soil moisture and pearlmillet yield was noted with mouldboard plough and the lowest in case of cultivator during both the year. The maximum soil moisture was recorded 21.52 percent(2012) and 22.15 percent(2013) with mouldboard plough and mean pearlmillet yield was also recorded 2543 kg/ha with mouldboard plough.

**Key words:** Tillage, Moisture, Yield, Pearl millet