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## Soil Organic Carbon and Soil Respiration in Dry Deciduous Forest and Grass Land of Kadapa hill ranges, Andhra Pradesh, India

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**Abstract:** Soil organic carbon (SOC) and soil respiration (SR) were estimated in two different land uses (dry deciduous forest and grass land). The estimated SOC down to 30 cm depth was 36.35 Mg C ha<sup>-1</sup> and 8.69 Mg C ha<sup>-1</sup> in forest and grass land respectively. On forest and grassland, SOC at 0-10 cm and 10-30 cm were 44.67 Mg C ha<sup>-1</sup> and 28.47 Mg C ha<sup>-1</sup> and 10.14 Mg C ha<sup>-1</sup> and 7.24 Mg C ha<sup>-1</sup>, respectively. On grass land, SOC were 10.14 Mg C ha<sup>-1</sup> and 7.24 Mg C ha<sup>-1</sup> and 7.2

Keywords: Bulk density, Dry deciduous forest, Grass land, Soil organic carbon, Soil respiration