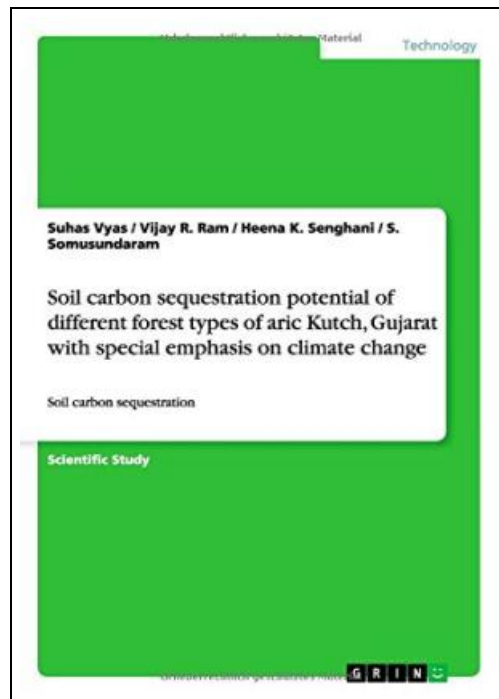


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SOIL CARBON SEQUESTRATION POTENTIAL OF DIFFERENT FOREST TYPES OF ARIC KUTCH, GUJARAT WITH SPECIAL EMPHASIS ON CLIMATE CHANGE



GRIN Publishing Okt 2014, 2014. Taschenbuch. Condition: Neu. Neuware - Scientific Study from the year 2014 in the subject Environmental Sciences, grade: 3, Kachchh University (Department of Earth & Environmental Sciences, Department of Chemistry), language: English, abstract: The Gujarat state encompasses an arid area of 62,180 Km² of which 73% is falling under kachchh district. Kachchh is the one of the largest district in India covering an area of 45, 612 sq.km. And is part of the Kathiawar Peninsula occupying the northwestern part of Gujarat. The major objective of the present study was to analyze the physico-chemical characteristics of soil, to estimate the soil carbon pool as well to conserve the soil organic carbon pool. Major plant species which were noted at the Tapkeshwari hill in the were *Salvadora persica*, *Capparis decidua*, *Calotropis procera*, *Tamarix* sp., *Aeluropus lagopoides*, *Cressa cretica*, *Sporobolus* spp. and *Prosopis cineraria*, *Acacia nilotica* and *Acacia Senegal*. Different parameters were analyzed for soil samples like alkalinity, total hardness, calcium and magnesium hardness, sulphure, iron, phosphorous, total organic carbon, chloride, sodium, potassium, EC, pH, TDS, and moisture content. The soil sample near *P. chilensis* species gives higher values in monsoon season in moisture content, pH, phosphate, TOC, SAR, iron, potassium, sodium and chloride, whereas temperature, alkalinity, Total hardness, calcium, magnesium and sulphate gives higher value in winter season. Soil samples of *Acacia Senegal* gives higher value of TOC in winter season. *Prosopis juliflora* shows negligible value in winter season. The value of TOC in decreasing order in all species was *Acacia senegal* ~ *Prosopis cineraria* ~ *Salvadora persica* ~ *Acacia nilotica* ~ *Prosopis cineraria*. 68 pp. Englisch.

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