

554. **Tiwari, S.P., Patel, A.P. and Singh, H.B. 1994.** Soil health as affected by conservation measures in ravine lands of Gujarat, India. Proc. Vol. I, 8th Intl. Soil Conservation Conference, Dec. 4-8, 1994, New Delhi, India (1997): 434-443.

The paper discusses the impact of soil and water conservation measures carried out during 1963-93, on the health of arable and non-arable ravine lands in Gujarat state. The results indicated considerable change in soil physical and chemical properties due to such measures. The per cent organic carbon increased under all vegetative covers. The water holding capacity increased from 46.4% to 56% under closure treatment. The aggregates (> 0.25 mm) were higher under grasses and trees ranging from 37.9 to 83/4% as compared to rainfed cultivated field (14.6%). Cumulative infiltration varied from 4 to 15 cm/hr under different forest covers. The mechanical analysis indicated enrichment with silt in the upper horizon of the profiles over time.