

Title of the Project	:	Assessment of soil organic carbon under different land uses in Tamil Nadu
Principal Investigator	:	Dr.A.C.Surya Prabha, Scientist-D
Co Investigators	:	Dr. C. Buvaneshwaran, Scientist-F
Duration of Project	:	2013-2017
Objectives		
<ul style="list-style-type: none"> ➤ To estimate soil organic carbon stock under different land uses. ➤ To identify land use systems and best management practices to enhance carbon status in soil pool. 		
Funding agency	:	ICFRE
Summary/Achievements		<ul style="list-style-type: none"> • Soil organic carbon stock was found to be highest under forest land use, followed by agro-forestry, plantation and agriculture land use. • Among the different soil aggregates, clay + silt sized fraction (<53 μm) retained the highest amount of organic carbon at 0-30 cm soil depth. • Conventional tillage with integrated use of organic manures resulted in a significant increase in soil organic carbon in the agro-forestry land use followed by agriculture land use. • Irrigated agricultural systems with balanced fertilizer application in combination with organic manures showed higher soil organic carbon stock than areas where rainfed agriculture is practiced.