ABSTRACT

Soil and land resource inventory of Sreemoolanagaram panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during the year 2009-10 to assess the resources of the area, to identify the problems and to suggest suitable development programmes for sustained and integrated development of the area.

Sreemoolanagaram panchayat is located in Aluva taluk of Ernakulam district and extends over 1446 ha. The garden land covers an area of 567 ha. Coconut dominant mixed cropping with banana, tapioca, arecanut, pepper etc is prevalent in the garden land. The total area under wetland is 628 ha. Paddy is the main crop cultivated. The soil series identified in the garden land are Perumbavoor, Kurichilakode, Punnamttom and Parakkadavu. The major portion of the garden land is under Perumbavoor series (310.5 ha) followed by Kurichilakode series (109.5 ha). Ikkaranad (525.5 ha), Kothamangalam (81 ha) and Ayiroor (21.5 ha) are the soils identified in the wetlands.

Based on the characteristics of the soils, land capability subclasses IIw, IIle, IIles, IVe and IVes and land irrigability subclasses 2d, 2t, 3t, 3st, 4t and 4st were recognized in the panchayat. IIw and 2d are the predominant land capability class and land irrigability class respectively. Other interpretative studies like hydrologic grouping, crop suitability, fertility and production potential of the soils are also included in the report. The problems encountered in the panchayat are dealt with briefly. Interpretative maps are appended.