ABSTRACT

Soil and land resource inventory of Thrikkakara panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during 2007 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.

Thrikkakara panchayat is located in Kanayannur taluk of Ernakulam district and extends over 2746 ha. The garden land covers an area of 1732 ha. Coconut dominant mixed cropping with banana, tapioca, arecanut, pepper etc is prevalent in the garden land. The total area under wetland is 608 ha. Paddy is cultivated in an area of 10 ha. The soil series identified in the garden land are Perumbavoor, Irapuram, Kangarappady and Udayamperoor. The major portion of the garden land is under Perumbavoor series (869 ha) followed by Irapuram series (330 ha). Thrikkakara (441 ha) and Mulamthuruthy (194 ha) are the soils identified in the wetlands.

Based on the characteristics of the soils, land capability subclasses IIw, IIes, IIIws, IVs and IVes, and land irrigability subclasses 2d, 2st, 3ds, 3st, 4s and 4st were recognized in the panchayat. IIes and 3st 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.