ABSTRACT

Soil and land resource inventory of Mulamthuruthy panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during December 2008 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.

Mulamthuruthy panchayat is located in Kanayannur taluk of Ernakulam district and extends over 2147 ha. The garden lands cover an area of 1570 ha and are mainly cultivated with rubber, coconut, banana, tapioca, pepper, etc. The total area under wetland is 544 ha. Paddy is the main crop cultivated. An area of 17 ha of the wetlands are converted for the cultivation of crops like coconut, banana tapioca etc and for construction purposes. The major soil series identified in the garden land are Perumbavoor, Mulamthuruthy, Kilikulam, Parakkadavu, Irapuram, Kothamangalam, Odakkali and Udayamperoor. The major portion of the garden land is under Perumbavoor series (622.0 ha) followed by Kilikulam series (391.0 ha). Mulamthuruthy (421.0 ha) and Kothamangalam (123.0 ha) are the soils identified in the wetlands.

Based on the characteristics of the soils, land capability subclasses IIw, IIe, IIIe, IVe, IVes and VIe and land irrigability subclasses 2d, 2t, 3t, 3st, 4t, 4st and 6t were recognized in the panchayat. IVes and 4st 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.