ABSTRACT

Soil and land resource inventory of Mulavukad 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.

Mulavukad panchayat is located in Kanayannur taluk of Ernakulam district and extends over 1927 ha. The garden lands cover an area of 240 ha and are mainly cultivated with coconut, arecanut, banana, etc. The total area under wetland is 395 ha. Pokkali cultivation of Paddy is followed only in limited area. An area of 14 ha of the wetlands is converted for non-agricultural purposes. The soil series identified in the garden land are Fortkochi and Vytilla. The major portion of the garden land is under Vytilla series (176 ha) followed by Fortkochi series (64ha). Vypeen series (395 ha) identified in the wetlands.

Based on the characteristics of the soils, land capability subclasses IIIws and IVsw and land irrigability subclasses 3ds 4sd, and 5sd were recognized in the panchayat. IVsw and 5sd 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.