ABSTRACT

This report deals with the soil and land resources of Mallappally panchayat of Mallappally taluk of Pathanamthitta district. The report gives a detailed account of the general characteristics of the panchayat viz., area, soils of the area, major problems and management requirements, interpretations and recommendations for various uses.

The panchayat spreads over an area of 2001 ha and is located in the southern part of Mallappally taluk. The garden land covers an area of 1888 ha and is cultivated with rubber, coconut, tapioca, banana, pepper, cocoa, vegetables, etc. Wetland covers an area of 113 ha. But cultivation of paddy is carried out only in an area of 8 ha in puncha season. The soil series identified in the panchayat are Kallooppara, Kaviyur, Ayroor and Mallassery. The only wetland soil series is Mallassery. The major series in the garden land is Kaviyur (1003 ha) followed by Kallooppara (725 ha) and Ayroor (160 ha).

Three land capability classes such as II, III and IV and three land irrigability classes viz. 2, 3 and 4 are encountered. IIIe s is the predominant land capability subclass (879 ha) and 3st, the land irrigability subclass (879 ha). Other interpretative studies like hydrologic grouping, crop suitability, soil fertility and production potential of the soils are conducted. The main problems encountered in the panchayat are dealt with briefly. Interpretative maps are appended.