ABSTRACT

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

The panchayat covers an area of 1466ha. The garden land occupies an area of 1244 ha. Coconut, rubber, tapioca, banana and fruit trees are the major garden land crops. Wetland covers an area of 124 ha. Of which paddy is cultivated in an area of 69.72ha. The rest of the area is now converted for cultivating crops like banana, coconut, tapioca and vegetables. The soil series identified in the garden land are Kumaranperoor, Chethakkal, Kaviyoor, Kallooppara and Ayroor. Mallassery series represents the wetland soils. The major portion of the garden land is under Chethakkal series (404 ha) followed by Kaviyoor series (145 ha).

Based on the characteristics of the soils two land capability classes such as III and IV and three land irrigability classes viz. 2, 3 and 4 were recognised. IVes is the predominant land capability subclass and 4st, the land irrigability subclass. Other interpretative studies like hydrologic grouping, Crop suitability, soil fertility and production potential of the soils were made. The main problems encountered in the panchayat are dealt with briefly. Interpretative maps are appended.