ABSTRACT

Soil and land resource inventory of Pallippuram panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during 2006 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.

Pallippuram is a coastal panchayat located in Kochi taluk of Ernakulam district and extends over 1666 ha. It is part of the lowland tract and is bounded by water on all three sides. The garden land covers an area of 844.5 ha. Coconut predominates in the garden land followed by arecanut, vegetables, banana, pepper, etc. The total wetland area is 128.5 ha and comprises of Pokkali lands. One crop of paddy followed by prawn culture is the traditional practice. Water body occupies 600.0 ha and the coast line extends over 93.0 ha. The soil series identified in the garden land are Udayamperoor and Vytilla (271.50 ha). The major portion of the garden land is under Udayamperoor series (573.0 ha) followed by Vytilla (271.5 ha). Vypeen (102.50 ha) and Thrikkakara (26.0 ha) are the soils identified in the wetlands.

Based on the characteristics of the soils, land capability subclasses IIIs, IVs and IVsw and land irrigability subclasses 2s, 3s and 4sd were recognized in the panchayat. IVs and 3s 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.