ABSTRACT

Soil and land resource inventory of Vamanapuram panchayat was undertaken by the soil survey wing of the Department of Agriculture to assess the soil and land resources of the area, to identify the problems and to suggest suitable development programmes for sustained and integrated development of the area.

Vamanapuram panchayat is located in Nedumangad taluk of Thiruvananthapuram district and extends over 2387.00 ha. The panchayat lies in midland and midupland region. The major crops in the panchayat are rubber, coconut, banana, tapioca, pepper, paddy and vegetables. Paddy is cultivated only in 51 ha.

During the course of soil survey, eight soil series were identified viz; Trivandrum, Nedumangad, Mudakkal, Koditukki, Vamanapuram, Palode, Amaravila and Vembayar. Nedumangad series extends over the major area. Amaravila and Vembayar series are the wetland series seen in the panchayat. The soils of Vamanapuram panchayat are classified into six land capability subclasses and seven land irrigability subclasses. The predominant land capability subclass is VIes and land irrigability subclass is 6st. Interpretative studies include land capability, land irrigability, crop suitability, production potential and hydrologic grouping. Various interpretative maps viz; soil and land capability and irrigability map, soil conservation priority map, proposed land use map etc. are appended.