Abstract

This report deals with the soil and land resources of Mazhuvannur panchayat of Kunnathunad taluk of Ernakulam 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.

Mazhuvannur Panchayat comprises an area of 4911 Ha located in Vadavukode block in Ernakulam district. The panchayat includes two villages viz., Mazhuvannur and Irapuram. Six soil series have been identified. Main problems faced in the panchayat and also data pertaining to the village were collected.

The garden land covering an area of 3307 Ha is under rubber, coconut, arecanut and mixed cropping of coconut with tapioca, banana, pepper, fruit trees, spices, and vegetables. The wetland cultivated with Paddy, vegetables is 1604 Ha.

During the soil survey, six soil series have been identified in the panchayat. These include Kilikulam, Irapuram, Odakkali which occupies garden land with an area of 1973 Ha, 949 Ha and 385 Ha respectively. Major portion of the wetland is occupied by Ikkaranadu series with an area of 763 Ha followed by Kothamangalam with 565 Ha and Kuttamangalam with 276 Ha. In wetland 3 crops of paddy are grown.

Based on the characteristics of the soils, land capability classes such as II, III, IV and VI and land irrigability classes viz. 2, 3, 4, & 6 were recognised. IVe is the predominant land capability subclass and 6t 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 also appended.