ABSTRACT

Soil and land resource inventory of Aryad panchayat was undertaken by the Soil Survey wing of the Department of Agriculture during April 2003 to assess the resources, to identify the problem and to suggest suitable development plans for the area. The report gives a detailed account of the general characteristics and soils of the area, major problems and management requirements, interpretations and recommendations for various uses.

The panchayat spreads over an area of 687 ha and is located in the northern part of Alappuzha district. Physiographically, the panchayat comes under lowland region. The major crops in the panchayat are coconut and paddy. During the course of detailed soil survey three soil series were identified viz. Alappuzha, Punnamada, and Punnapra. Alappuzha series occupies the major share of the panchayat area (476 ha). Paddy is cultivated in an area of 30 ha.

The soils of this panchayat are classified into four land capability classes such as III sw, III s, IV s and IV sw and three land irrigability classes such as 2s, 3s and 3ds. The predominant land capability subclass is IV s and 3s, 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 that are encountered in the panchayat and its suggested management are dealt with briefly. Interpretative maps are also appended.