

Modernization versus Sustainability: Disintegrating Village Agro-ecocomplexes in the Dry Zone of Sri Lanka

by

ROHANA ULLUPATISHEWA, MSc (London), Dr Agr. (Kyushu)
Senior Lecturer, Department of Geography,
Sri Jayewardenepura University,
Nugegoda, Sri Lanka.

INTRODUCTION

Most of the modern development strategies that are popularly adopted by Third World countries to develop their rural agrarian economies — such as large-scale multi-purpose irrigation projects, introduction of high-yielding varieties (HYVs) and chemical inputs, cultivation of 'cash-crops' for sale for income, and farm mechanization — were basically designed to raise the agricultural production rather than to preserve the productivity of the given system. Therefore, although agricultural modernization substantially contributes to increased production, in the long run these development strategies are apt to cause stratification of important ecological processes that are needed for sustained environmental productivity. Hence, modernization can militate against sustainability.

The above package of development strategies having been adopted to develop the Dry Zone of Sri Lanka during the last four decades, this paper highlights how these modern development efforts have caused the disintegration of the agro-ecosystem and even of the entire ecocomplex of thousands of traditional villages in the Dry Zone which hitherto had functioned sustainably over centuries.

The Dry Zone of Sri Lanka, which covers two-thirds of the island, is characterized by harsh environmental conditions — including a long dry season, an uncertain rainfall pattern, and a high rate of land degradation. The annual rainfall of this region is commonly about 50–60 inches (127–152 cm), but there is a fair likelihood of its being as low as 30–35 inches (76–89 cm) in dry years (Somasiri, 1978). While 70% of the rainfall occurs in the period October–mid-January (this is *Maha*, the major rainy season), the balance occurs in mid-March to mid-May (this is *Kala*, the minor rainy season). The rest of the year is relatively rainless.

Owing to the insufficient rainfall and its uncertainty, any permanent crop cultivation is virtually impossible without irrigation. Therefore, the early settlers who migrated from North-East India to the Dry Zone of Sri Lanka, modified the natural ecosystems in minor catchment areas by constructing small irrigation tanks and establishing a farming system that was centred around each tank. The partly-modified ecosystems in each village are considered here collectively as comprising the village agro-ecocomplex.

All village agro-ecocomplexes had characteristics in common, so that they were often almost identical. Each village ecocomplex had four major components, namely (1) crop cultivation, i.e. paddy cultivation, shifting cultivation, and 'home gardening', (2) fishing, (3) animal husbandry, i.e. buffaloes and other cattle, and (4) the village forest. All these components were ecologically

interrelated, and the whole agro-ecocomplex functioned in such a way that it could satisfy practically all the needs and wants of its inhabitants without impairing its natural productivity. Its long survival in the harsh environment demonstrates its sustainability and adaptation to the environment.

STRUCTURE AND FUNCTION OF THE VILLAGE AGRO-ECOCOMPLEX

Fig. 1 illustrates the agro-ecological set-up of a typical 'traditional' village in the Dry Zone of Sri Lanka. In such traditional villages, in the past as in the present, paddy cultivation was done on the land just below the irrigation tank, and the residential area (*gangaoda*) or areas as in Fig. 1 would be located somewhere between the paddy tract (*yoaya*) and the tank-bund (marginal

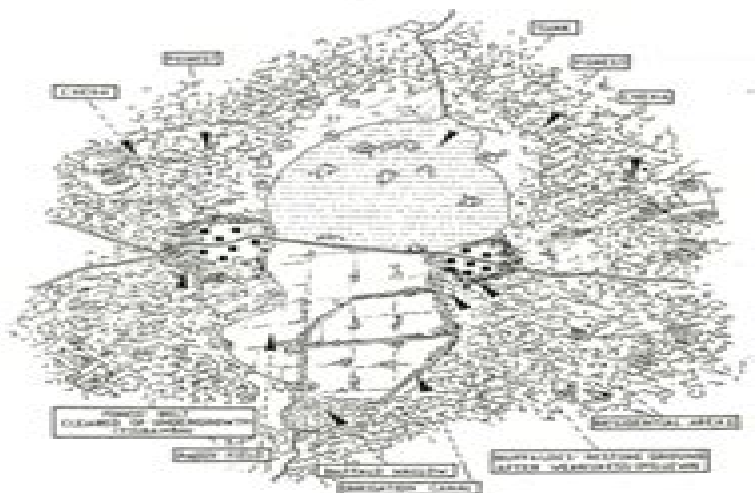


FIG. 1. Agro-ecological set-up of a traditional village in the Dry Zone of Sri Lanka. This agro-ecological set-up has already been changed in most of the Dry Zone, leaving the original form only in some remote areas. *Chena* = *chena* = shifting cultivation. The total area would commonly be of the order of 1,000 x 1,000 metres.

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