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Integrated watershed development to Fouta Djallon (Guinea)

J. RIQUIER

Ducal U 14, Marina laie desanges, 06270, Villeneuve-Loubet, France

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The integrated development of Fouta Djallon is of importance to Guinea, wishing to develop its agricultural, energy and industrial resources and also to adjoining countries which are using the water of rivers, Casamance, Senegal and Niger. An inventory of the present status in respect of physical, social and economic conditions of the region is indispensable for a future planning considering the political targets of the region and those of the adjoining countries. The author points out the need of soil maps to accomplish this: pedological map and land use map, map of soil potentialities or soil capabilities, grade of present and future, physical and chemical degradation, hydric balance and main soil's changes as a function of proposed management.

These maps have to integrate factors other than soil: slope, climate, vegetation requirement, soil suitability to irrigation and drainage, mechanical properties for building earth dams and so on. Finally all these maps are proposed at two levels of generalization

- a) at small scale (1/250,000 eme) to put managements in right place in the whole Fouta Djallon
- b) at greater scale (1/50,000 eme) to plan projects and to assist in a general balance of hydric resources and their uses in each watershed.

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Validity of sediment yield index procedure for determining priority watersheds

Y.P. BALI AND B.K. PATHAK

All India Soil and Land Use Survey, Ministry of Agriculture, IARI Buildings, New Delhi, India

The heavy rate of siltation of costly multipurpose reservoirs in India has led to a programme of soil conservation in the catchments of 31 River Valley Projects having a total catchment area of 75 million hectares. A sediment yield index (Syi) procedure was used to demarcate priority watersheds for soil conservation treatment. The method consists of systematic delineation and codification of watersheds on a 1:50,000 scale drainage map, field surveys using topo maps/ae-

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