

8.3 Soil Erosion and Runoff Prevention Project in the Sutil and Duro River Basins

(1) General Area Conditions

The Sutil and Duro river basins cover 1,130km² (see **Fig. 8-2**). Despite of the slopes, the area is being developed into farmlands and pastures. Soil erosion, agro-chemical and nutrient salt runoff are considered to be remarkable in these areas. Further, tobacco plantations have also increased in recent years and forest areas have decreased as a result of felling for the accumulation of firewood to dry tobacco leaves.

(2) Soil Erosion Prevention Measures

These areas are located near the riverine forest in the downstream section of Camaqua River and the Duro dam. Tree planting (native kinds of tree are desirable) should be introduced as a soil runoff prevention measure, along with the combined agronomical and mechanical measures proposed for Cangucu (see **Table 8-3**). **Table 8-4** shows the expected effects of soil erosion prevention measures.

(3) Area for Project Implementation

The area selected for the implementation of the project measures 1,130km². In consideration of the fact that resident consensus will have to be acquired and the scale of the project, terracing will be introduced in about 60% of the farmlands and about 50% of artificial pastures (10,000ha in total). Together, non-tillage cultivation and terracing will cover 4,000ha, while tree planting will be carried out on 2,000ha of cultivated fields.