

Project Title: *Participatory Assessment of Land Capability for Agroforestry in Selected Upland Farming Communities in the Province of Laguna, Philippines using Agroforestry Land Capability Assessment and Mapping Schemes (ALCAMS)*

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## ACTIVITY REPORT

### **PRIORITIZATION OF VARIABLES FOR AGROFORESTRY LAND CAPABILITY ASSESSMENT**

On 17-18 August 2023, the project team conducted an Analytical Hierarchy Process (AHP) workshop in Barangay Tala, Rizal, Laguna and Barangay San Cristobal, San Pablo, Laguna, respectively (Figure 1-2). It was actively participated by the stakeholders including the local farmers, and representatives from Municipal Agriculture Office, Municipal Planning and Development Office and Municipal Environment and Natural Resources Office. The workshop was held to prioritize and decide on the weights for each of the ten (10) variables necessary for the assessment of land capability for agroforestry and development of agroforestry land capability map for each study site. Among the variables considered were: temperature, rainfall, slope, elevation, proximity to river, aspect, soil fertility, soil type, land cover and income. These variables are under the five (5) essential factors (e.g., topographic, edaphic, climatic, vegetative, and anthropogenic) that influence the land capability to support a specific land use.



Figure 1. Actual AHP workshop in Barangay Tala, Rizal, Laguna.

Results of the workshops revealed that among the ten (10) indicators, income and proximity to river obtained that highest weight in Barangay Tala, Rizal and Barangay San Cristobal, San Pablo, respectively. The results indicated that income is the most important variable to consider in assessing land capability for agroforestry in Barangay Tala, Rizal while proximity to river in Barangay San Cristobal, San Pablo. Meanwhile,

the least important variable perceived by the stakeholders in Barangay Tala, Rizal was slope while elevation in Barangay San Cristobal, San Pablo.



Figure 2. Actual AHP workshop in Barangay San Cristobal, San Pablo, Laguna on 18 August 2023.

Table 1. Weights of each indicator in Barangay Tala, Rizal and Barangay San Cristobal, San Pablo, Laguna.

INDICATORS	BARANGAY TALA, RIZAL	BARANGAY SAN CRISTOBAL, SAN PABLO
Income	0.411	0.180
Proximity to River	0.108	0.219
Land Cover	0.100	0.128
Soil Fertility	0.083	0.140
Rainfall	0.073	0.053
Soil Type	0.070	0.109
Temperature	0.056	0.039
Aspect	0.053	0.084
Elevation	0.026	0.014
Slope	0.019	0.034