

PARTICIPATORY RESILIENCY ASSESSMENT

Project: Resilience-Building Among Smallholder Farmers of Selected Upland Farming Communities in the Province of Isabela, Philippines (CBA2021-01MY-Ocampo)

Brgy. Masipi East, Cabagan, Isabela: 13 July 2022

Brgy. Limbauan, San Pablo, Isabela: 14 July 2022

Brgy. Dy-Abra, Tumauni, Isabela: 15 July 2022

Three (3) workshops participated by stakeholders were convened to facilitate participatory scoring of the different indicators of resiliency based on five capital assets for sustainable livelihood namely the financial, physical, natural, human and social (**Figure 1**). Participatory scoring of the various resiliency indicators was done through Analytical Hierarchy Process (AHP). Results of the participatory scorings shows that weights of resiliency indicators vary across the three (3) project sites. In Masipi East, Cabagan and Dy-Abra, Tumauni, natural capital is the most important factor in ensuring the resiliency of the farmers (Table 1). On the other hand, stakeholders in Limbauan, San Pablo identified human capital as the most important factor for ensuring the resiliency of farmers in the community. In terms of least important capital in resiliency, social capital was perceived by the participants in Limbauan, San Pablo and Dy-Abra, Tumauni as least important while human capital in Masipi East, Cabagan.



Figure 1. Participants of participatory resiliency assessment in (a) Masipi East, Cabagan; (b) Limbauan, San Pablo; (c) Dy-Abra, Tumauni

Table 1. Weights of Indicators and Variables in Masipi East, Cabagan; Limbauan, San Pablo and Dy-Abra, Tumauni

INDICATORS	MASIPI EAST, CABAGAN	LIMBAUAN, SAN PABLO	DY-ABRA, TUMAUNI
Social Capital	0.2893	0.0305	0.0173
1. Active membership to POs	0.0444	0.0043	0.0031
2. Presence of immediate relatives	0.0229	0.0049	0.0009
3. Partnership with LGUs, Development Organizations and Government Agencies	0.0530	0.0042	0.0132
4. Institutional Support	0.1697	0.0167	0.0028
Human Capital	0.0260	0.4975	0.1139
1. Access to health services	0.0036	0.2520	0.0189
2. Farming experience	0.0029	0.0279	0.0059
3. Knowledge in agriculture and CC and training experience	0.0073	0.1227	0.0180
4. HH Size	0.0030	0.0308	0.0156
5. HH members active in farming	0.0032	0.0636	0.0516
Financial Capital	0.2344	0.2028	0.3110
1. HH members employed	0.0102	0.0331	0.0449
2. HH income	0.0327	0.0053	0.0298
3. Varied income sources	0.0619	0.0954	0.1514
4. Access to market	0.2032	0.0331	0.0722
5. Access to credit	0.0619	0.0331	0.0118
Natural Capital	0.3787	0.1716	0.3193
1. Farm size	0.0026	0.0090	0.0164
2. Farm terrain	0.0073	0.0034	0.0053
3. Crop diversity	0.0113	0.0151	0.0279
4. Soil condition	0.3651	0.0646	0.1155
5. Presence of perennial crops	0.0244	0.0325	0.0829
6. Access to water source (springs, rivers)	0.0301	0.0447	0.0708

INDICATORS	MASIPI EAST, CABAGAN	LIMBAUAN, SAN PABLO	DY-ABRA, TUMAUNI
Physical Capital	0.0717	0.0976	0.2385
1. Farm/land ownership	0.0104	0.0521	0.1261
2. Irrigation facility	0.0257	0.0229	0.0356
3. Farm machineries	0.0058	0.0120	0.0188
4. Storage facility	0.0024	0.0076	0.0062
5. Drying facility	0.0257	0.0025	0.0533
TOTAL	1.0000	1.0000	1.0000

The weights of the indicators and sub-indicators measured vis-à-vis the results of the household survey presented and validated by the stakeholders will be used to measure the resiliency level of the three (3) upland farming communities.