

Abstract

Participatory Action Research on Agriculture System in the Upland Paddy-Based Community is conducted in Sobkhong Highland Development Centre, located at 800-1,145 MSL in Okmoei District of Chaingmai. 98% of total Karen 458 household and 2,975 population is dependent on upland paddy and highland rice. Tomatoes and chilly are major cash crops while minimal livestock are for household consumption and ritual. The research project aims to co-create knowledge with farmers improving agriculture productivity, environment sustainability and beneficiary coverage. The livelihood asset assessment in two pilot villages reveals that water supply and farmland size is sufficient despite of no land rights. Mighty kinship of Karen community support farm family. Though 89% of household is able to produce sufficient rice for consumption, the yield is threatened by emerging pest outbreak. Tomato and chilly cultivation in sloping land use intensive tillage and chemicals. Joint research topics selection are pest management in upland paddy and alternative cash crops that are appropriate in sloping lands.

Key words area-based research, agriculture system, highland

