

Abstract

Participatory Action Research (PAR) on Agricultural Systems in the Upland Rice and Maize-based Cultivation Community; a case study of Maize-based Cultivation Community which causing forest destruction, forest clearing, use of concentrated chemicals, soil degradation and impact on the environment. The participatory research program conducted with 22 farmers in 5 villages in Pongkam Highland Development Centre, Tambon DuPong, Santisuk District, Nan Province comprises of cultivate testing of fruit tree's Royal Project and Commercial variety, there were 2 varieties of fruit : The second-year test revealed that Peterson avocado, Choke Anan Mango, Num Dok-Mai Mango and Sritong, Kaew Mango (root stock) was good development. In after paddy areas: The IPM of Japanese sweet potato revealed that Royal Project and Commercial plant that bottom with pesticides had higher cost than not bottom with pesticides but higher return of an investment because rate of sweet potato weevil less (7.07-8.92%). As a result, farmers are more productive.

Keywords : agroecology, area-based approach, Nan province, highland

