

Wantanee Markdum 2007: Adoption of Farmer on Sustainable Highland Agricultural and Resources Management Methods: A Case Study of Mae Sa Watershed, Chiang Mai Province. Master of Science (Resource Management), Major Field: Resource Management, Interdisciplinary Graduate Program. Thesis Advisor: Assistant Professor Suwanna Praneetvatakul, Ph.D. 146 pages.

The present highland agricultural system has been altered from subsistent to market-oriented farming. As a result, deterioration of resources and environment on highland has occurred. Thus, an appropriation of agricultural and resource management to rural socio-ecological situation is important. The objectives of this study are to describe the socio-economic situation of farmers in Mae Sa watershed, including sustainable highland agricultural and resource management methods and to analyze the adoption factors on sustainable highland agriculture and resource management methods. Data are obtained from Project entitled Watershed Model for Development of Sustainable Highland Agricultural System in Thailand, Mae Sa watershed, Chiang Mai province. The data are analyzed using logit model.

The results of the socio-economic situation of the farm show that based on the ages of the farming household and agricultural labor, most of the labor utilized is adult, most of the land use in the farm is for agricultural purpose and the main source of income is from agriculture. The highland agricultural and resource management methods utilized are non-chemical pest control, integrated farming, drip irrigation, pond/reservoir, compost manure, vertivier grass strips, terracing, and contour farm. Factors affecting adoption of highland agricultural and resource management methods are such as access to formal credit, knowledge in sustainable agriculture and source of sustainable agricultural knowledge.

The policy recommendations for adoption of farmer on sustainable highland agricultural and resource management methods are such as promotion of knowledge in sustainable agriculture and providing an access to formal credit to farmers in order to enhance adoption on sustainable highland agricultural and resource management methods in Thailand.

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