

Thienthong Chandalasan 2014: The Participation of Farmers Water User Group on Irrigation Water Management of Thintiengtay Irrigation Project, Pakngum District, Vientiane Capital, Lao PDR. Master of Science (Watershed and Forest Environmental Management), Major Field: Watershed and Forest Environmental Management, Department of Conservation. Thesis Advisor: Assistant Professor Kitichai Rattana, Ph.D. 135 pages.

This research aimed to study 1) generality and socio-economic status, 2) knowledge and understanding, 3) level of participation on irrigation water management and 4) other factors that related to farmers' participation on irrigation water management, Thintiengtay Irrigation Project, Parkngum District, Vientiane Capital, Lao PDR. Data was collected by interviewing 258 members of irrigation water user group of Thintiengtay Irrigation Project, then processed by computer program. Used analytical statistics consisted of the frequency, percentages, the arithmetic mean, the standard deviation, T-test and F-test with statistical significant level of 0.05.

The study revealed that most of sample group were male, 81.4 % aged between 46-55 years old, 58.5% completed lower secondary education, 31.0 % major profession was farmer and had average family labor 3 persons. About 32.2% of sample group had received water distribution between 3-5 rai, 64.0 % water source was from irrigation water did paddy farming and , 66.7% earned income 60,000 baht. In overall, water users had knowledge and understanding about irrigation water management at high level. The research found that the sample group had participated at moderate level (mean 2.98) and had participated at moderate level in all aspect as follow; gaining advantage from irrigation water distribution aspect (mean 3.37), irrigation water utilization planning aspect (mean 2.92) and irrigation system maintenance participation aspect (mean 2.66). Hypothesis testing revealed that the differences in level of education, major career, minor career, labor in household, water distribution, location of cultivated area, family income and debt, affected to irrigation water management participation differently with statistical significant level of 0.05.

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Thesis Advisor's signature