Thesis Title

Supporting Factors Related to the Community Piped Water Supply Project

in Rural Area of Upper Northeastern Thailand

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ABSTRACT

The main objective of this study was to study on Supporting Factors Related to the community Piped Water Supply Project in Rural Area of Upper Northeastem Thailand. Data collection was conducted in the field by survey and interviewing. Two hundred and forty households in Udonthani, Nongkai and Nakornpanom Province have been selected for sampling. They were diveded into 120 households in successful of piped water system and 120 households in non-successful of piped water system. One hundred and twenty of the village piped water system community have been selected by purpossive sampling technique.

The results of this study revealed that the most of households were good social condition such as housing condition, choice of treatment when getting sick of them depend on the community hospital, the use of piped water supply, the sanitation latrine, and the participation in the community organization.

For the investigation of the economic condition, it was found that households in this study area had land ownership and averaging land holding were approximately 16.0 rais. In terms of net income from main and minor occupation earned which were 6,577 baht. Saving condition of household were mostly low, the averaging were approximately 9,890 baht.

The results of the analysis of varience and the multiple classification analysis of the supporting factors selected to the community piped water supply project were as follows:

- (1) The structural factors such as community size less than 120 households, cost of construction more than 850,000 baht, net profit of the piped water system income less than 3,000 baht/month, ground water sources and years of construction more than 11_kyears.
- (2) The socio-economic factors such as the participation of the construction, land holding less than 10 rais, net income more than 15,000 baht/year, and the years of living more than 10 years.
- (3) The management of water piped system factors such as the selection of the committee by group of water user, the amout of the committee more than 7 persons, money incomes and the term of work of the committee less than 3 years.

The above factors could be explained the varience of the successful of the community piped water system in statistically significant at 0.05 level.