Phichaya Mahakham 2014: Livelihood Approach and Community – based Adaptation to Flood Risk of Tha Chin Watershed: A Case Study of Lan Tak Fa Sub – district Nakhon Chai Si District, Nakhon Pathom Province. Master of Science (Watershed and Forest Environmental Management), Major Field: Watershed and Forest Environmental Management, Department of Conversation. Thesis Advisor: Assistant Professor Kitichai Rattana, Ph.D. 150 pages.

This research aims to study livelihoods, socio-economic and the flood risk including to study factors that affect the ability on adapting to the flooding risk at Lan Tak Fa sub-district, Nakhon Chi Si district, Nakhon Pathom Province. The study is a quantitative survey studied by gathering data from questionnaires and interviewing. There are 349 samples of householders. To analyse descriptive statistics and to test the hypothesis in t-test and F-test at 0.05 statistical significance level, through a statistical software package.

The result revealed that the community takes advantage of Tha Chin river in occupation and transportation from past to present. Furthermore there are two types of community's settlement; the group of population and the other group that immigranted have a single family. In term of the flood risk, it was found that Lan Tak Fa sub-district is located next to Tha Chin river. Considering the flood risk map, it was found that the risk is moderate. Besides regarding the socio-economic data, it was found that most of samples are female aged in 40-49 years old,farmers, The average income is less than 10,000 Bath per month. The knowledge and understanding in environment, climate change and natural disasters are moderate. Moreover Most of them recognized the information about climate change and flooding. Considering the community's comment level on the flooding risk, socio-economic and health, it is in high level. The contribution of community on the flooding activities protection is moderate. Factors that affect the ability on adapting to the flooding risk at Lan Tak Fa sub-district at 0.05 statistical significances level are genre, career, income, knowledge and understanding in environment/climate change/natural disaster, awareness of information about climate change and local flood, and the participation of community to flooding protection.

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