This study has objectives to study natural resource situation local approach situation on observing the ecosystem of the local community in the NamKhu Watershed, establishing the index of monitoring and observing the ecosystem, and making the recommendation for establishment of the monitoring and observing of the ecosystem with the participation of local communities neighbor to the Namkhu Watershed Tumbol Loeiwangsai Amphoe Phuluang Loei Province. By adapting the implementation technical method of the Participatory Action Research (PAR) in order to generate the process of development on monitoring and observing the natural resources by local communities' accomplishment, which participated between community and group of researchers.

The study result has demonstrated that the local community accomplishments has a relationship with the knowledge of watershed ecology, which were consisted of the forest management accomplishment, applying the faithfulness with the resources management, weather forecast by using biodiversity, observing the aquatic animals to indicate water quality, animal culture in deteriorated forest area for rehabilitating the forest upper watershed and diminishing the wildlife problem, agro forest, constructing of mixing irrigation dam. For supporting the rehabilitation for forest upper watershed, and developing to be the community organization. All gashed information has been combinated with the ecology watershed to generated 3 observing indices of ecosystem for the local communication of Namkhu watershed, which are; index of the observing for forestry, water and socio-economic. Additional, the plan for monitoring and observing the ecosystem for the community can be generated to use the information applying for the watershed management soon.

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