



Promotion of Water Conservation Communities of Watershed for North Region Reservoir

Liao, Wen-Wen, Chen Wei-Ting, Lin Cheng-Hao, Chiu Yu-Jia

Abstract

1 Introduction

The research is divided into four major directions: diversified energy conservation, green environmental protection, sustainable management, and public participation. The conservation issues are mainly based on water quality improvement and soil sand control, and promoted "guarding water sources in local operations", deepen the concept of conservation, encourage environmentally friendly agriculture, etc, as shown in Figure 1.

In this study, the Taoyuan City Fuxing District-Sbunaw Tribe and Yufeng Tribe of Hsinchu County were selected to promote non-toxic organic planting methods and handle natural detergents courses, as shown in Figure 2.

Keywords: Water Conservation Community, Sbunaw Tribe, Yufeng Tribe, Shimen Reservoir



Figure. 1: Work Flow Chart



Figure. 2: Area of Research

2 Content

2.1 The status of water conservation community promotes in Taiwan

The promotion community promotes topics including investigating the future work direction of Yongquan conservation, non-phosphorus environmental protection detergents, non-toxic organic agriculture platforms, construction of environmental education facilities etc.

The water conservation communities promote the consensus to work together with government agencies to explore issues through public and private partnerships, and assist the local community to participate in conservation activities with the growth of government, private and professional lecturers. The current situation of the water conservation community promotes the situation as shown in Figure 3:



Figure. 3: Work Flow Chart of Impelled Water Conservation Community

2.2 Select a suitable water conservation community as a demonstration area

The village tribes in the water quality and quantity protection area of the Shimen Reservoir are 17 counties, 5 villages, 68 tribes and communities. The project aims to combine conservation work with residents' life and production. After local interviews, (1) have a community building foundation (2) community willingness and concept consensus (3) community with friendly environmental experience (4) There are four evaluation factors for the value of the model transfer. The choice of the community must meet the above four conditions. Therefore, the Sbnaw tribe which in Taoyuang and Yufeng tribe that in Hsinchu are selected as shown in Table 1.

Tab. 1: Community Potential Inventory Form

County/ City	Village/Tribe	Evaluate Factor			
		Social Foundation	Community consensus	Friendly environmental experience	Model transfer value
Taoyuan City Fuxing District	Hualing Village	✓	✓	-	-
	San Guang Village	-	-	-	✓
	Gao Yi Village(Sbunaw Tribe)	✓	✓	✓	✓
	Yisheng Village	-	-	-	-
	Lofol Village	-	-	-	-
	Kui Hue Village	-	-	-	-
	Zeren Village				✓
	Xia Yun Village	-	-	✓	-
	Changxing Village	✓	-	-	-
	Sanmin Village	✓	-	-	-
Taoyuan City Daxi District	Fuxing Village	✓	✓	✓	✓
	Xinfeng Village	✓	-	-	-
	Yihe Village	-	-	-	-
	Fu-an Village	-	-	-	-
Longtan District, Taoyuan City	Daping Village	-	-	-	-
Jianshi Township, Hsinchu County	Yufeng Tribe	✓	✓	✓	✓
	Xiuyan Village	✓	✓	✓	✓
Guanxi Town, Hsinchu County	Jinsh-an Village	-	-	-	-
	Dong-an Village	-	-	-	-
Datong Township, Yilan County	Mao-an Village	-	-	-	-
	Seasons Village	-	-	-	-
	Nanshan Village	-	-	-	-

2.4 Water conservation community creates

2.4.1 Sbunaw Tribe–Promotion of hand-made trail

The natural ecology of Sbunaw Tribe through the perspective of aerial photography, and invites lecturers to share the concept and process of the construction of the trail, precautions for hand-made trails, etc., as shown in Figure 4. And the Sbunaw Tribe and Natural Ecology socation selects the site with the historical ecological significance and ecological navigation function, the Yingshan hand-made trail, for the application, as shown in Figure 5. It is expected that in the future, it will be able to carry out normal patrols and cultivate ecological guides with hand-made trails, developed water conservation projects with consideration of natural ecology and tourism development which are based on existing natural ecology and agricultural production environment, as shown in Figure 6:



Figure. 4: Promotion of Hand-Made Trails

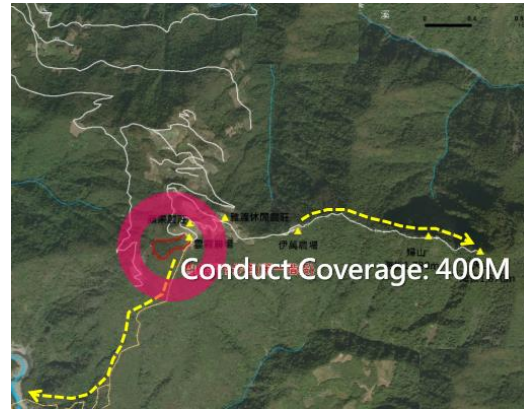


Figure. 5: Activities - Hand-Made Trails for Practical Teaching

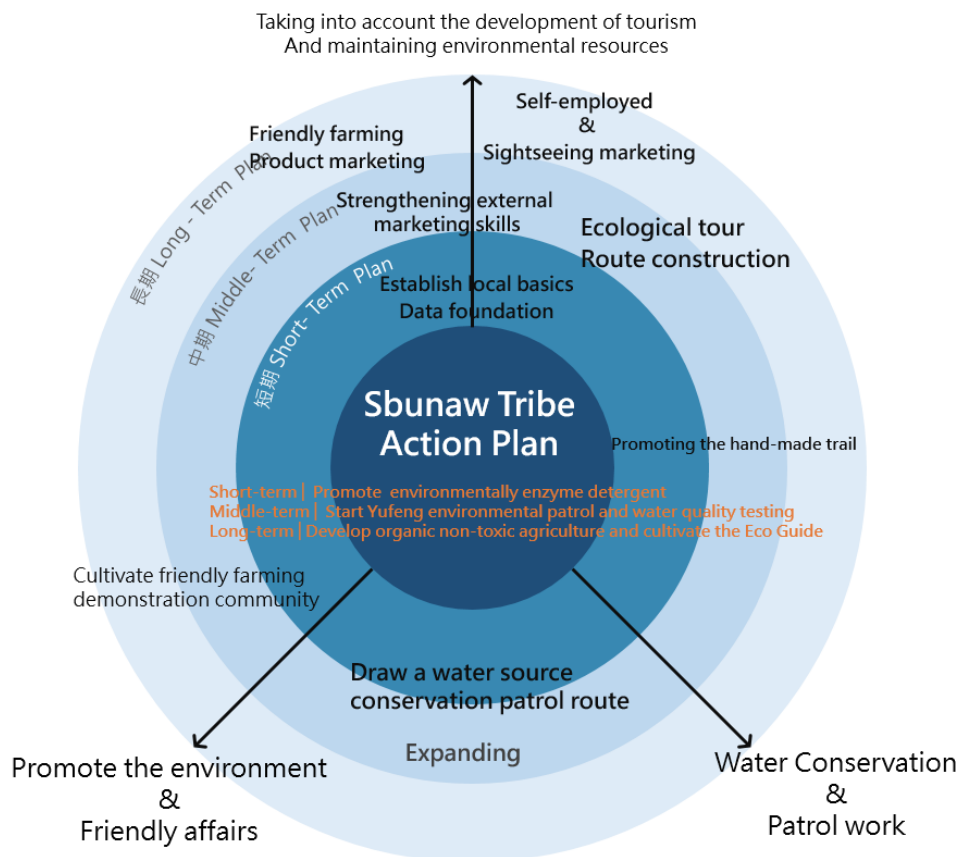


Figure. 6: Sbunaw Tribe Action Plan

2.4.2 Yufeng Tribe-Environmentally detengent and organic liquid fertilizer

This activity is teach the people how to make enzyme detergent, as shown in Figure 7, and lead the Yufeng tribe to observe the ecological village. Environmental conservation and ecological coexistence, as shown in Figure 8, in addition, Yufeng takes the subsistence production and daily life needs as the starting point, and plans

to take into account the natural ecological and tourism development water conservation action plan, and plans to establish a phosphorus-free community, production and living, water conservation, sustainable management education and publicity, strengthen the promotion and promotion of organic pesticide-free planting methods, innovating in the introduction of charity, other institutions which assist in the teaching in the future, as shown in Figure 9:



Figure. 7: Promotion of Environmentally Friendly Detegent



Figure. 8: Activities - Taomi Ecological Village

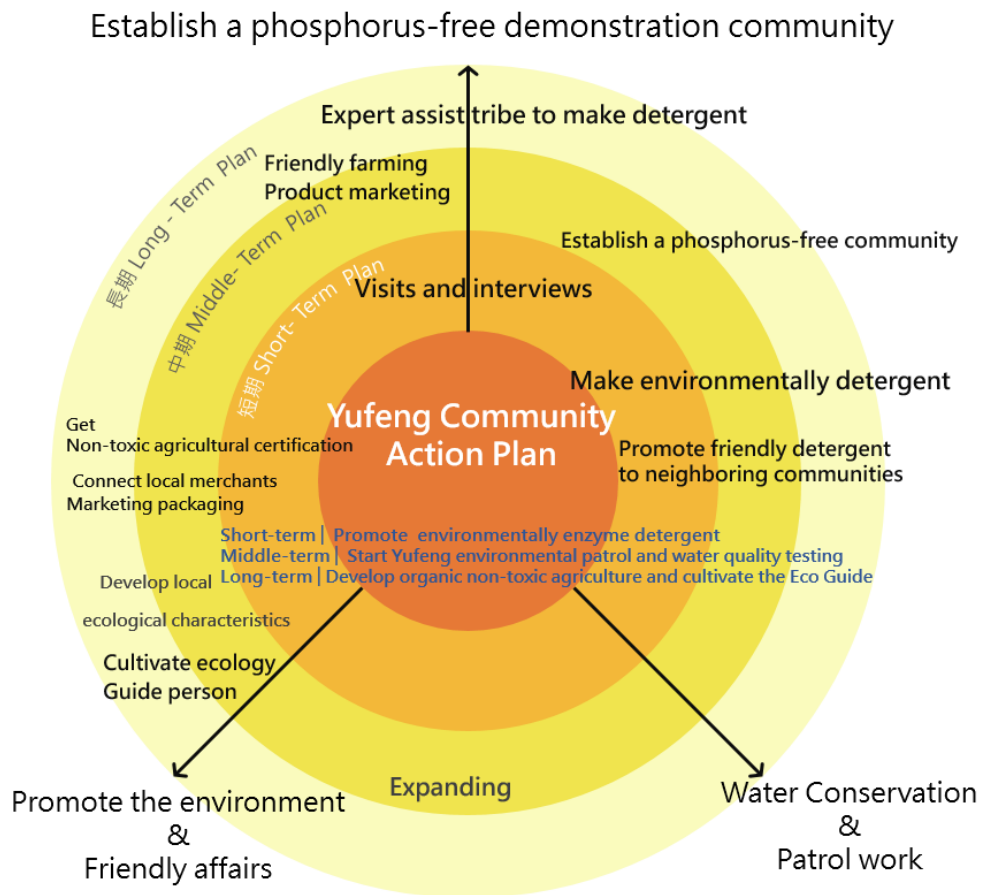


Figure. 9: Yufeng Tribe Action Plan

2.5 Achievemnet Sharing

In the results sharing session, the dynamic video film was used to showcase the work of the annual water conservation community, and the two elders and Sun Chongjie lecturers from Yufeng and Sbnaw tribes were invited to share their experiences, as shown in Figure 10.



Figure. 10: Achievement Sharing Photos

3. Conclusion

- Based on (1) community building foundation (2) community willingness and concept consensus (3) community with friendly environmental experience (4) with model transfer value, four evaluation factors, choose Sbnaw and Yufeng community for Shimen Reservoir water conservation promotes the community in 2018.
- The study has completed the 400-meter hand-made trail, linking water conservation work and creating production value and enhancing the centripetal force of the snow and fog community, implementing the production of lotion, Yufeng community visiting the environmental conservation of Taomi Ecological Village where learn about the organic farming and environmentally friendly ways in the village and develop a community action plan for the future.
- Yufeng Community has completed 80 liters of environmentally friendly lotion, and under the promotion of Elder Huang Wenzhi, another community-Xinguang

Community of Xinguang tribe has completed 20 liters of environmentally friendly lotion to promote the experience of water conservation community construction July 2018. Expand the impact level. Support each other and share value. By making environmentally friendly detergents and liquid fertilizers, many seniors can join together to increase their self-confidence ability. In addition to reducing water pollution, they will be promoted to neighboring communities and develop the non-phosphorus communities.

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