

Anucha Chantaraboon 2011: Contribution to Sustainable Domestication of Sugar-Palm (*Arenga westerhoutii* Griff.) (Palmae) at Pha Thong Sub-district, Tha Wang Pha District, Nan Province, Thailand. Doctor of Philosophy (Agricultural Research and Development), Major Field: Agricultural Research and Development. Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Intawat Burikam, Ph.D. 88 pages.

The study on contribution to sustainable domestication of sugar-palm (*Arenga westerhoutii* Griff.) (Palmae) was conducted from October 2005 to June 2007 at San Charoen and Nam Ki villages, Pha Thong sub-district, Tha Wang Pha district, Nan province, Thailand. An increasing in the number of sugar-palm trees in Pha Thong community was obtained from good seedling practices through seed transplanting and seedling fertilization along with forest management training for villagers. There was no significant difference on community participation in forest management between the two villages. The villagers were trained on wise uses of seeds and leaves of the sugar-palm. Utilization of seeds included sugar-palm seeds in syrup and sugar-palm yam of either pineapple or strawberry. Broom and roofing were able to obtain from sugar-palm leaves. The commercial value of sugar-palm's fresh seeds and leaves was discussed.

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Thesis Advisor's signature

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