

Montonphetch Puvares 2012: Application of Remote Sensing Technique for Atap Palm (*Nypa fruticans* Wurmb.) Product Valuation in Mangrove Forest Samut Sakhon Province. Master of Science (Forest Resource and Environmental Administration), Major Field: Forest Resource and Environmental Administration, Faculty of Forestry. Thesis Advisor: Assistant Professor Weeraphart Khunrattanasiri, Dr.rer.nat. 139 pages.

This study aimed firstly to investigate the classification techniques of Atap Palm using THEOS satellite data. The second objective aimed to study the appropriate techniques used for Atap Palm valuation in mangrove forest of Samut Sakhon Province. The data of Atap Palm leaves and Atap Palm fruit measured from field sample plots and gathering from interview were included in the analysis processes.

The results found that there were 25,257.22 rai of mangrove forest in Samut Sakhon Province and in that area there were 16,708.75 rai of Atap Palm which can classified in dense moderate and light density about 1,296.71 rai 5,165.92 rai and 10,246.12 rai respectively. In dense density area of Atap Palm there were 1,113.60 clump per rai 11,180.54 leaf stalk per rai 400.90 compound fruits per rai. In moderate density area of Atap Palm there were 676.80 clump per rai 7,079.33 leaf stalk per rai 291.02 compound fruits per rai. In light density area of Atap Palm there were 121.60 clump per rai 1,326.66 leaf stalk per rai 34.05 compound fruits per rai. Based on the data from the interview the study found the price of Atap Palm leaf was 1.50 Baht 71 Baht for compound fruits and 7.50 Baht for shingle set. In year --- the calculation of Atap Palm value in Samut Sakhon Province was 653,387,526 Baht.

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Thesis Advisor's signature