

Naphat Tana 2014: Structural Characteristics of Rehabilitated Scrub Mixed Deciduous Forest through Enrichment Planting and Natural Succession at Koh-Lan, Chon Buri Province. Master of Science (Forest Resource and Environmental Administration), Major Field: Forest Resource and Environmental Administration, Faculty of Forestry. Thesis Advisor: Mr. Chongrak Wacharinrat, Ph.D. 58 pages.

Structural characteristics of scrub mixed deciduous forest with rehabilitated by enrichment planting and natural regeneration at Koh Lan, Chon Buri province were investigated. The result will be used as a guide line for scrub forest rehabilitation. Three 40 m ×40 m size sample plots were laid out at each study site. Each sample plot, species DBH and height of trees were recorded. In each the sample plot, four 4 m ×4 m size sample plots were placed at corners of the plot to record species, height and diameter of saplings. Within 4 m ×4 m plots, 2 m ×2 m size plots were placed for recording species and number of seedlings. ANOVA and Duncan's new multiple range test were used as statistical analysis.

Results revealed that number of tree species were not significant differences but tree densities were significant differences. The tree density of scrub mixed deciduous forest was the highest and the next high were at controlled site and rehabilitated forest with values of 225.3, 137.3 and 31.7 trees per rai, respectively. DBH of trees in rehabilitated forest were the highest. Regarding to species diversity, there were not significant differences among the three sites with values ranged between 0.811 and 0.988. There were clearly different in biomass among the three sites. According to similarity index, the values of seedlings similar between through enrichment planting forest and scrub forest that lead to rehabilitated process for scrub mixed deciduous forest. However, the study should be furtherly conducted for years in the future to investigate the survival of the enrichment planting trees.

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Thesis Advisor's signature