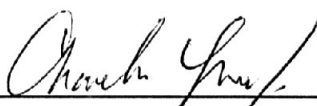


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The objectives of the study of Demand of Teak Wood from Registered Teak Plantation for Wood Industry in Phrae Province were to know the quantity of teak wood in registered teak plantation and the demand of teak wood used in wood industry in Phrae Province. 40 x 40 meter sample plots were used in collecting data in all teak plantation. 2.5 % of total registered teak plantation areas in 8 districts of Phrae Province were sampled (Muang Phrae, Rong Kwang, Long, Song, Nong Muang Khai, Soong Men, Den Chai and Wang Chin Districts). Teak plantations of age ranged from 11 to 20 years were studied by measuring GBH and merchantable height. Questionnaires were used to interview the owners of teak wood industry. The results revealed that there were 790 registered teak plantations, total plantation area of 91,155.95 Rais and total number of trees were 8,777,075. The area of 11 years old teak plantation was 788.75 rais with the total wood volume of 7,762.11 m<sup>3</sup>, while the area of 12 years old teak plantation was 1,132 rais with total wood volume of 13,949.05 m<sup>3</sup>. For the areas and wood volumes of 13, 14, 15, 16, 17, 18, 19 and 20 years old teak plantations were 1,196.75 rais and 14,867.06 m<sup>3</sup>, 2,527.00 rais and 52,921.57 m<sup>3</sup>, 296.75 rais and 5,736.53 m<sup>3</sup>, 1,372.75 rais and 29,312.93 m<sup>3</sup>, 62.25 rais and 1,736.92 m<sup>3</sup>, 1,486.75 rais and 55,168.67 m<sup>3</sup>, 346.75 rais and 17,079.21 m<sup>3</sup>, and 106.75 rais and 8,857.09 m<sup>3</sup> respectively. The total wood volume of all ages was 207,391.14 m<sup>3</sup>. Questionnaires collected from owners of teak wood industries, 4 from saw mills and 21 from teak wood product shops were analyzed. It was found that teak wood used in the industry was from private plantations in Phrae (39.69%), FIO plantations in Phrae (32.29%) and private plantations nearby provinces (28.02%). Only log trucks were used in teak wood transportation to saw mill, 50% of customers picked up finished wood products by themselves from the shops. 40.97 % of finished products came from saw mills. The opinion of saw mill owners toward quality of finished wood products made from registered plantation and large tree was the same, but for opinion of teak wood product shop owners, 72.72 % considered lower quality. 76.19 % expected good future for registered teak wood industry. It was also found that in B.E. 2546 teak wood were used 38,334.32 m<sup>3</sup> and saw mills needed 20,000.00 m<sup>3</sup> per month in Phrae Province.



Student's signature



Thesis Advisor's signature

90 / Oct. / 2006