

STUDY ON SOME SILVICULTURAL CHARACTERISTICS OF Pygeum arboretum Endl SPECIES IN THAN SA – PHUONG HOANG NATURE RESERVE, THAI NGUYEN PROVINCE

**Nguyen Thi Thoa, Nguyen Cong Hoan,
Nguyen Van Tuyen, Le Van Phuc**

Summary

The results of studying on silviculture characteristics of *P.arboretum* showed that relatively low tree density was found from 268 to 376 trees/ha of which the density of *P.arboretum* was about 7 - 11 trees/ha. $IVI\%$ index of *P.arboretum* was about 5.3% - 10.1%. There were 1-2 canopy layers, a shrub layer, and a forest floor in vertical stand characteristics of forest. Average forest cover was 0.4 - 0.5. High tree species diversity was found with 3-9 important species, but *P.arboretum* which only appeared in 5 plots in low rates, only obviously involved in the important species group in one plot with a rate of 33.33%. Number of generated trees varied from 3920 to 5973 trees/ha, of those generated *P.arboretum* were 120 - 960 trees/ha. Rate of promising regenerated trees on average was 25.67-32.5%, rate of 16.67-66.67% belonged to *P.arboretum*. *P.arboretum* species had a good regeneration ability of seedling (100%) and high quality. The high density of regenerated *P.arboretum* was mainly found less than 0.5m in height.

Key words: *Nature reserve, silvicultural characteristics, structure, regeneration, forest composition, pygeum arboretum*