

**ASSESSMENT OF THE DISTRIBUTION STATUS AND
BIOLOGICAL CHARACTERISTICS OF *Cinnamomum balansae*
H. Lecomte IN THAI NGUYEN PROVINCE**

**Vu Van Thong, Pham Thi Thuy, Vu Pham Thao Vy
Summary**

Cinnamomum balansae H. Lecomte is broadleaf, high economic value and endemic species of Vietnam and classified as a rare plant (R) in the Red Book of Vietnam, 2007. Their woods are used for the construction and manufacture of high-quality furniture, and their roots can be used for handicrafts. The route and standard specifications were performed to count surveying factors and morphological properties. The survey results revealed 84 individuals of which the largest diameter was 70 cm, the smallest was 6 cm; good, average and bad quality trees were 19.05%, 64.29%, and 16.67% respectively. These species are distributed in the forest styles of IIA, IIB, IIIA1, IIIA2. Other species participate in the formula including *Bambusa nutans*, beech oak, yellow oak, chestnut, etc. For regeneration of *Cinnamomum balansae* H. Lecomte trees, there are about 31.77% from seeds and 68.23% from shoots; regenerative densities are low at 7.64%. The cover of shrubs and fresh carpets with the distribution of *Cinnamomum balansae* H. Lecomte trees are 10.7 and 13.56% respectively. The number of *Cinnamomum balansae* H. Lecomte individuals is an important source of primary material for selection of mother species for breeding studies (cuttings, tissue culture, seed sowing), exploitation and development of gene source of this plant in the future.

Keywords: Conservation, forestry, genetic resource, distribution, regeneration, Thai Nguyen, *Cinnamomum balansae* H. Lecomte tree.