

INFLUENCE OF SOME FACTORS ON THE GROWTH OF *Nauclea orientalis* L. PLANTATION 4 YEARS AFTER ESTABLISHMENT

Nguyen Xuan Hung, Bui Viet Hai

Summary

The topic "*Influence of some factors on the growth of Nauclea orientalis plantation 4 years after establishment*" was implemented in Dong Nai Culture and Nature Reserve and Xuan Loc Protection Forest Management Board. The research used the randomized complete block design (RCBD) and three replications, the data of field experiment were collected in 4 years. The result has shown that the most suitable age of *Nauclea orientalis* seedlings for planting was 6 - month-old, The initial planting density was 1,111 trees.ha⁻¹, adding NPK synthetic fertilizer (16 - 16 - 8) for basal fertilizing and top dressing during first 2 years to give a noticeable response in growth; *Nauclea orientalis* trees can adapt and grow well in wetlands where were below 200 cm under water including: the edge of a lake or river, low-lying areas that seasonal flood, it had good increments when planting in the site below 50 cm under water and its growth decreased in areas with higher 200 cm flood.

Keywords: *Nauclea orientalis* tree, semi - submerged soils, influencing factor.