

PLANNING SUITABLE AFFORESTATION AREAS FOR *Hopea odorata* IN TWO MOUNTAINOUS DISTRICTS IN THUA THIEN - HUE PROVINCE

**Vu Thi Thuy Trang, Tran Trung Quoc,
Ngo Tung Duc, Le Thi Thu Ha, Nguyen Duy Phong**
Summary

This research was carried out to build a planning of suitable afforestation areas for *Hopea odorata* to improve the effectiveness of big-size timber plantation according to the plan of developing big-size timber plantations of Thua Thien - Hue People's Committee in the period of 2017-2020. Application of GIS techniques to assess the status of factors affecting the development of the *Hopea odorata*. Results: (1) Constructing an adapted map from 6 layers of monophyletic maps are soil type map, soil layer depth, temperature, precipitation, slope, height and establishing a map of suitable potential zones for the *Hopea odorata* in the two districts of Nam Dong and A Luoi by overlapping typical maps and information analysis; (2) Analysing the influent level of social factors are: people's awareness, economy (investment capacity), policy support and risk level to determine priorities for ecological regions of the *Hopea odorata*; (3) Establishing maps and suitable zoning data for planting *Hopea odorata* plantations in Nam Dong and A Luoi districts based on overlapping appropriate zoning maps from ecological factors with priority of social factors; (4) On the basis of overlapping the map in accordance with the land use status map and the planning map of the three forest types, this research has planned the suitable areas for planting *Hopea odorata* plantations in Nam Dong and A Luoi districts.

Keywords: *Hopea odorata*, afforestation planning, Nam Dong, A Luoi.