

# THE EFFECT OF SITE PREPARATION METHODS TO THE GROWTH OF *Acacia hybrids*, *Acacia mangium*, *Acacia auriculiformis* PLANTATION IN UONG BI – QUANG NINH

Nguyen Huy Son, Vu Tien Lam, Ho Trung Luong,  
Cao Van Lang, Pham Dinh Sam

## Summary

Site preparation is an important technical method for intensive plantation; that contributes to the breakthrough in productivity and quality of plantation, especially intensive plantation of some *Acacias* species (*Acacia hybrids*, *Acacia mangium* and *Acacia auriculiformis*). In this study, three different methods were used include: Plowing into rows, in each row was dig holes with size of 30 x 30 x 30 cm; making terraces field with 1 m wide along contour lines, the hole size of 40 x 40 x 40 cm; dig holes with size of 40 x 40 x 40 cm. After 2 years, the growth of *Acacia hybrids* are not much discrepancy in different method samples about Diameter at Breast Height (DBH), Height (H) and Crown Diameter ( $D_{\text{crown}}$ ); the DBH from 8.06-8.23 cm, the average height (H) from 6.90-7.6 m, the average crown diameter from 3.97 to 4.06 m. After 2 years, the growth of *Acacia mangium* in three methods has not been significantly different in all of DBH, height and crown diameter; the DBH from 7.76-7.99 cm, the average height (H) from 6.13-6.41 m, the average crown diameter from 3.89-4.58 m. After 2 years, the growth of *Acacia auriculiformis* in three site preparation methods are significantly different, the highest growth is method 3 with DBH reached 6.56 cm, height (H) reached 6.42 m, crown diameter ( $D_{\text{crown}}$ ) reached 3.39 m; the lowest growth is method 2 with DBH, height (H), crown diameter ( $D_{\text{crown}}$ ) are 5.76 cm, 5.39 m and 2.87 m respectively.

**Keywords:** *Acacia auriculiformis*, *Acacia hybrids*, *Acacia mangium*, afforestation, Quang Ninh province, site preparation.