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ONLINE ISSN : 1880-7577

PRINT ISSN : 0021-4795

Mokuzai Gakkaishi

Vol. 52 (2006) , No. 5 p.277-284

[\[PDF \(567K\)\]](#) [\[References\]](#)

Variations of Wood Properties in Forests of Seedlings and Cutting Cultivars of Hinoki (*Chamaecyparis obtusa*)

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(Received August 10, 2005)

(Accepted March 31, 2006)

Abstract: Intra-forest variations of wood properties (radial growth, basic density, green moisture content, heartwood color, tracheid length, dynamic Young's modulus and mechanical properties) and the difference between those of seedling forests and cutting cultivars of Hinoki (*Chamaecyparis obtusa* Endl.) were examined, using 60 trees of 3 seedling forests and 40 trees of 2 cutting cultivars of Nangohi. The results are as follows :

- 1) Intra-forest variations of radial growth of Nangohi were less than those of seedling forests.
 - 2) Intra-forest variations of basic density at breast height, green moisture content of sapwood, tracheid length and mechanical properties of cutting cultivars were significantly less than those of seedling forests, and green moisture content of heartwood, heartwood color and dynamic Young's modulus of logs were a little less.
 - 3) Heartwood color and tracheid length at breast height, and axial variation pattern of dynamic Young's modulus of logs differed significantly between seedling forests and cutting cultivars of Nangohi.
- Thus, intra-forest variations of wood properties of cutting cultivars were significantly less than those of seedlings.

Keywords: hinoki, Nangohi, cutting cultivars, seedling, wood property

To cite this article:

Syunji Tsushima, Yoshie Fujioka, Kazuyuki Oda, Junji Matsumura and Susumu Shiraishi:
Mokuzai Gakkaishi Vol. 52, No. 5, 277-284 (2006) .

doi:10.2488/jwrs.52.277

JOI JST.JSTAGE/jwrs/52.277

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