

ABSTRAK

PENGARUH SKARIFIKASI MEKANIK DAN PERENDAMAN DALAM ZAT PENGATUR TUMBUH ALAMI TERHADAP PERKECAMBAHAN BENIH JATI (*Tectona grandis* (Linn). F.)

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Perbanyakan tanaman jati mengalami kendala, salah satunya dalam pembibitan, yaitu benih tidak segera berkecambah karena benih jati memiliki kulit yang tebal dan keras. Penelitian ini bertujuan untuk mengetahui pengaruh skarifikasi mekanik dan perendaman dalam zat pengatur tumbuh alami terhadap perkecambahan benih jati (*Tectona grandis*. (Linn). F.). Penelitian dilaksanakan di *Screen House* Mugarsari, Fakultas Pertanian, Universitas Siliwangi pada bulan Desember 2022 sampai dengan Februari 2023. Metode eksperimen ini menggunakan Rancangan Acak Kelompok dengan 9 perlakuan yaitu (Perendaman benih dalam *aquadest* (kontrol), pengamplasan pada titik tumbuh benih, pelukaan pada kulit benih, ekstrak rebung bambu 50%, ekstrak bawang merah 50%, pengamplasan + ekstrak rebung bambu 50%, pengamplasan + ekstrak bawang merah 50%, pelukaan + ekstrak rebung bambu 50%, pelukaan + ekstrak bawang merah 50%). Setiap perlakuan diulang sebanyak 3 kali, data pengamatan dianalisis menggunakan uji F, jika terdapat pengaruh dilanjutkan dengan Uji Scott Knott pada taraf α 5%. Hasil penelitian menunjukkan bahwa perlakuan pengamplasan pada titik tumbuh benih berpengaruh terhadap perkecambahan benih jati (*Tectona grandis* (Linn). F.).

Kata kunci : Ekstrak bawang merah, ekstrak rebung bambu, jati, pelukaan, pengamplasan, perkecambahan.

ABSTRACT

THE EFFECT OF MECHANICAL SCARIFICATION AND SOAKING IN NATURAL GROWTH REGULATORS ON TEAK SEED GERMINATION (*Tectona grandis* (Linn). F.)

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The propagation of teak plants is experiencing problems, one of them is in germination. The seeds do not germinate immediately because teak seeds have thick skin. This research aims to determine the effect of mechanical scarification and soaking in natural growth regulators on teak seed germination (*Tectona grandis*. (Linn). F.). The research was carried out at the Mugarsari Screen House, Faculty of Agriculture, Siliwangi University from December 2022 to February 2023. Using an experimental method with a Randomized Block Design with 9 treatments, namely (Soaking seeds in distilled water (control), sanding at the seed growing point, wounding at seed skin, soaking in 50% bamboo shoot extract, soaking in 50% shallot extract, sanding + soaking in 50% bamboo shoot extract, sanding + soaking in 50% shallot extract, Wounding + soaking in 50% bamboo shoot extract, Wounding + soaking in 50% shallot extract. Each treatment was repeated 3 times, the observational data were analyzed using the F test and if there is an effect, continued with Scott Knott Test with a level of α 5%. The results showed that sanding treatment at the seed growing point had an effect on teak seed germination (*Tectona grandis* (Linn). F.).

Keywords: Shallot extract, bamboo shoot extract, , teak, wounding, Sanding germination.