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DAFTAR PUSTAKA

Agus, C., Faridah, E., Wulandari, D., & Purwanto, B. H. (2014). Peran Mikroba Starter Dalam Dekomposisi Kotoran Ternak dan Perbaikan Kualitas Pupuk Kandang. *Jurnal Manusia dan Lingkungan*, 21(2), 179-187.

Agusta, A., & Jamal, Y. (2001). Fitokimia Dan Farmakologi Cendana (*Santalum Album* L.). *Berita Biologi*, *5*(5), 561-569.

Alfiah, I. (2023). *Pemapanan dengan Aplikasi Pupuk Kandang pada Konservasi Eks Situ Cendana (Santalum album Linn.) di Kampung Pitu, Nglanggeran, Patuk, Gunungkidul*. Skripsi. Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta. Tidak dipublikasikan.

Ariyanti, M., & Asbur, Y. (2018). Cendana (*Santalum album* L.) sebagai tanaman penghasil minyak atsiri. *Kultivasi*, 17(1), 558-567.

Arunkumar, A. N., Dhyani, A., & Joshi, G. (2019). *Santalum album*. *The IUCN red list of threatened species*, 2019-1.

Badan Pusat Statistik Kabupaten Grobogan. 2023. *Statistik Daerah Kabupaten Grobogan 2023*. Badan Pusat Statistik, Grobogan.

Chapin III, F. S., Vitousek, P. M., & Van Cleve, K. (1986). The nature of nutrient limitation in plant communities. *The American Naturalist*, *127*(1), 48-58.

Dobbertin, M. (2005). Tree growth as indicator of tree vitality and of tree reaction to environmental stress: a review. *European Journal of Forest Research*, *124*(4), 319-333.

Dominici, F., Parmigiani, G., Reckhow, K. H., & Wolpert, R. L. (1997). Combining information from related regressions. *Journal of Agricultural, Biological, and Environmental Statistics*, 313-332.

Durairaj, P., & Kamaraj, M. (2013). Assessment and Conservation Strategies for Santalum album in Manmalai Rf of Thuraiyur Range At Tiruchirappalli District. *BEST: International Journal of Humanities, Arts, Medicine and Sciences (BEST: IJHAMS)*, 1(1), 1–12.

Faridah, E., Supriyo, H., Wibisono, M. G., Kristinawati, K., Afiani, D., & Hartanti, D. (2012). Akselerasi pertumbuhan cendana (*Santalum album*) dengan aplikasi unsur hara makro ensensial pada tiga jenis tanah. *Jurnal Ilmu Kehutanan*, 6(1), 1-17.

Fatima, T., Hanur, V. S., Srivastava, A., & Rao, M. S. (2017). Genetics and Biotechnology of Sandalwood (*S. album* L.). *Int J Sci Eng Res*, 8(4), 1008-1017.

Grossnickle, S. C. (2005). Importance of root growth in overcoming planting stress. *New forests*, *30*(2), 273-294.

Grossnickle, S. C. (2012). Why seedlings survive: Influence of plant attributes. *New Forests*, 43, 711–738.

UNIVERSITAS
GADJAH MADA
Pengaruh Aplikasi Pupuk Kandang terhadap Performa Berbagai Ras Lahan Cendana di Area Konservasi Ex Situ di Lemahabang, Sumber Jatipohon, Grobogan
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Hamzah Z. (1976). Sifat Silvika dan Silvikultur Cendana (*Santalum album* L.) di Pulau Timor. *Laporan* No.227. Lembaga Penelitian Hutan, Bogor.

Haryjanto L. (2009). Keragaman genetik cendana (*Santalum album* Linn) di Kebun Konservasi Ex situ Watusipat, Gunungkidul, dengan penanda isozim. *Jurnal Pemuliaan Tanaman Hutan*. 3(3):127-138.

Haryjanto, L., Putri, A. I., Kartikawati, N. K., Nirsatmanto, A., Sunarti, S., Herawan, T., ... & Rimbawanto, A. (2024). Domestication, restoration and sustainable use of Indonesian sandalwood. *Australian Forestry, 87*(2), 49–ko59.

Indrioko, S., & Cahyaningrum, Y. W. N. (2019). Genetic differentiation, mating systems and crossability of three floral variants of sandalwood (Santalum album L.) in Gunung Sewu Geopark, Indonesia. *KnE Life Sciences*, 295 314.

Indrioko, S., & Ratnaningrum, Y. W. N. (2015). Habitat loss caused clonality, genetic diversity reduction and reproductive failure in Santalum album (Santalaceae), an endangered endemic species of Indonesia. *Procedia Environmental Sciences*, *28*, 657-664.

Jacobs, D. F., Oliet, J. A., Aronson, J., Bolte, A., Bullock, J. M., Donoso, P. J., ... & Weber, J. C. (2015). Restoring forests: what constitutes success in the twenty-first century?. *New Forests*, 46(5), 601-614.

Jacobs, D. F., Ross-Davis, A. L., & Davis, A. S. (2004). Establishment success of conservation tree plantations in relation to silvicultural practices in Indiana, USA. *New Forests*, *28*(1), 23-36.

Lepa, C. J., Pellondo'u, M., & Kaho, N. R. (2023). Application of Various Planting Media on the Growth of Cendana Seeds (*Santalum album Linn*.) at Fatukoa Permanent Sedgeting Place, Naioni Village. *Wana Lestari*, 5(02), 262-269.

Lestari, F. 2010. Karakteristik Pembungaan Tiga Provenan Dan Empat Ras Lahan Cendana. *Jurnal Pemuliaan Tanaman Hutan* 7(2):59-65.

Marlina, N., Aminah, R. I. S., & Setel, L. R. (2015). Aplikasi pupuk kandang kotoran ayam pada tanaman kacang tanah (*Arachis hypogeae* L.). *Biosaintifika: Journal of Biology & Biology Education*, *7*(2).

Muthu-Kumar, A., Sandhya, G. M., & Karthikeyan, A. (2023). Biofertilizer and host interaction on sandalwood growth. *Journal of Tropical Forest Science*.

Nearing, M. A. (1997). A single, continuous function for slope steepness influence on soil loss. *Soil Science Society of America Journal*, 61(3), 917-919.

Oldeman, L. R., & Frere, M. (1982). *Technical Report on a Study of the Agroclimatology of the Humid Tropics of Southeast Asia*. Food & Agriculture Org.

Piepho, H. P., Büchse, A., & Emrich, K. (2003). A hitchhiker's guide to mixed models for randomized experiments. *Journal of Agronomy and Crop Science*, 189(5), 310-322.

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GADJAH MADA
Pengaruh Aplikasi Pupuk Kandang terhadap Performa Berbagai Ras Lahan Cendana di Area Konservasi Ex Situ di Lemahabang, Sumber Jatipohon, Grobogan
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Poorter, H., Niklas, K. J., Reich, P. B., Oleksyn, J., Poot, P., & Mommer, L. (2012). Biomass allocation to leaves, stems and roots: meta-analyses of interspecific variation and environmental control. *New phytologist*, *193*(1), 30-50.das

Prasetyo, B. (2011). *Pentingnya melestarikan tanaman cendana (Santalum album L.).* Prosiding Seminar Nasional FKIP, Universitas Terbuka.

Putri, A. I., & Herawan, T. (2018). Regenerasi Perakaran Plantlet In Vitro Dan Ex Vitro Pada Kultur Jaringan Cendana (*Santalum album* Linn.). *Jurnal Pemuliaan Tanaman Hutan*, 12(2), 143-150.

Rahayu, S, Wawo, A.H, Noordwijk van M, Hairiah, K. (2002). Cendana, deregulasi dan strategi pengembangannya. Bogor. *World Agroforestry Centre-ICRAF*.

Rahmawati, R., & Annesa, K. (2017). Aplikasi kombinasi kompos kotoran kambing dengan kompos kotoran ayam dalam meningkatkan pertumbuhan dan hasil tanaman kacang tanah varietas gajah (*Arachis Hypogeae* L). *Jurnal Pertanian UMSB*, 1(2), 14-21.

Raju, V., Agashe, A., Ashajyothi, M., Rajarajan, K., Kumar, N., & Arunachalam, A. (2023). Santalum album–host plants interaction: an incomplete story of semi-root parasite. *Curr Sci*, *125*(2), 0-1.

Ratnaningrum, Y. W. N., & Indrioko, S. (2020). Managing population structures and genetic processes to design a conservation strategy for Indonesian sandalwood (Santalum album). In *Sandalwood Regional Forum* (p. 251).

Ratnaningrum, Y. W. N, & Kurniawan, A. (2019). Floral structure and genetical differences of sandalwood variants in Gunung Sewu (Java, Indonesia), and its effects on breeding systems and reproductive ability. Biodiversitas *Journal of Biological Diversity*, 20(2), 393-404.

Ratnaningrum, Y. W. N, Indrioko, S., Faridah, E., & Syahbudin, A. (2017). Gene flow and selection evidence of sandalwood (Santalum album) under various population structures in Gunung Sewu (Java, Indonesia), and its effects on genetic differentiation. *Biodiversitas Journal of Biological Diversity*, *18*(4), 1493-1505.

Ratnaningrum, Y. W. N, Indrioko, S., Karrin, A., Kurniawan, A., & Putri, A. D. (2021). The genetic diversity and reproductive dynamics of sandalwood in Gunung Sewu (Java, Indonesia) in 2012-2019: designing conservation strategies in a continuous versus fragmented landrace. *Biodiversitas: Journal of Biological Diversity*, *22*(8).

Ratnaningrum, Y.W.N. (2010). Sistem Perkawinan Beberapa Provenans dan Ras Lahan Cendana pada Pertanaman Uji di Wanagama, Yogyakarta. Tesis. Fakultas Pertanian, Universitas Gadjah Mada. Tidak dipublikasikan.

Ratnaningrum, Y.W.N., Faridah, E., Utama, I.N.S., & Prastyo, B. (2022). Establishing Breeding House of Superior Sandalwood in Gunung Sewu, Indonesia: Preserving the 27 Selected Genotypes Grafted onto Two Types of Rootstocks. *Biodiversitas*. Volume 23 (7): 3488-3497.

UNIVERSITAS
GADJAH MADA
Pengaruh Aplikasi Pupuk Kandang terhadap Performa Berbagai Ras Lahan Cendana di Area Konservasi Ex Situ di Lemahabang, Sumber Jatipohon, Grobogan
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Riswan, S. (2001). Kajian botani, ekologi dan penyebaran pohon cendana (*Santalum album* L.). *Berita Biologi*, 5(5): 571-574.

Roidah, I. S. (2013). Manfaat penggunaan pupuk organik untuk kesuburan tanah. *Jurnal Bonorowo*, 1(1), 30-43.

Simanjuntak, B. H. (2013). Pengaruh Dosis Pupuk Kandang Terhadap Stabilitas Agregat Tanah Pada Sistem Pertanian Organik. *Agric*, *25*(1), 51-57.

Simanungkalit, R. D. M., Suriadikarta, D. A., Saraswati, R., Setyorini, D., & Hartatik, W. (2006). Pupuk organik dan pupuk hayati. *Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian. Bogor*, *312*.

Somarriba, E., Valdivieso, R., Vásquez, W., & Galloway, G. (2001). Survival, growth, timber productivity and site index of Cordia alliodora in forestry and agroforestry systems. *Agroforestry Systems*, *51*(2), 111-118.

Sumardi, Fiani A. (2015). Keragaman genetik cendana (Santalum album) dan tindakan reintroduksi ke Nusa Tenggara Timur. *Prossiding Seminar Nasional Masyarakat Biodiversitas Indonesia*. 1 (3) : 409-412.

Tapatab, C. (2001). Pengelolaan Dan Pembudidayaan Cendana. *Berita Biologi*, *5*(5), 487-490.

Turner, I. M. (1990). Tree seedling growth and survival in a Malaysian rain forest. *Biotropica*, 146-154.

Utami, S. H. (2025). Pengaruh Suplai Benih, Tempat Tumbuh Benih, dan Lingkungan Terhadap Potensi Permudaan Beberapa Sumber Benih Cendana di Gunung Sewu. Tesis. Fakultas Kehutanan, Universitas Gadjah Mada. Tidak dipublikasikan.

Van Bemmelen, R.W. (1949). *The Geology of Indonesia*. Martinus Nijhoff, The Hague.

White, T. L., Adams, W. T., & Neale, D. B. (2007). *Gene conservation-in situ, ex situ and sampling strategies.* In Forest genetics (pp. 259-283). Wallingford UK: CABI.

Zhang, P., Li, X., Xue, S., Cui, Z., Xu, D., & Yang, Z. (2021). Effects of fertilization on soil biology and tree growth. *Journal of Forestry Research*.

Zobel, B. and J. Talbert. (1984). *Applied Forest Tree Improvement*. John Willey and Sons, New York, Chichester, Brisbane, Toronto, Singapore.