

DAFTAR PUSTAKA

- Acquaah, G. 2009. *Principles of plant genetics and breeding*. John Wiley & Sons.
- Afif, M. 2019. *analisis penggunaan lahan daerah lereng gunung arjuno sebagai perkebunan*.
- Albaugh, J. M., Dye, P. J., & King, J. S. 2013. Eucalyptus and water use in South Africa. *International Journal of Forestry Research*, 2013(1), 852540.
- Almeida, A. C., Soares, J. V, Landsberg, J. J., & Rezende, G. D. 2007. Growth and water balance of Eucalyptus grandis hybrid plantations in Brazil during a rotation for pulp production. *Forest Ecology and Management*, 251(1–2), 10–21.
- Aparecida da Silva, M., Leandro Naves Silva, M., Curi, N., Hoffmann Oliveira, A., Cesar Avanzi, J., & Darrell Norton, L. 2014. *Water Erosion Risk Prediction In Eucalyptus Plantations Predição do risco de erosão hídrica em florestas de eucalipto* (Vol. 38, Issue 2).
- Assessment, M. E. 2003. Millennium ecosystem assessment. *Ecosystems*.
- Autovino, D., Rallo, G., & Provenzano, G. 2018. Predicting soil and plant water status dynamic in olive orchards under different irrigation systems with Hydrus-2D: Model performance and scenario analysis. *Agricultural Water Management*, 203, 225–235. <https://doi.org/https://doi.org/10.1016/j.agwat.2018.03.015>
- Aziza, N. 2023. *BukuDigital-MetodologiPenelitianbab12* (S. Haryanti (ed.)).
- Barea, J.-M., Pozo, M. J., Azcon, R., & Azcon-Aguilar, C. 2005. Microbial co-operation in the rhizosphere. *Journal of Experimental Botany*, 56(417), 1761–1778.
- Bonan, G. B. 2008. Forests and climate change: forcings, feedbacks, and the climate benefits of forests. *Science*, 320(5882), 1444–1449.
- Boyer, J. S. 1982. Plant productivity and environment. *Science*, 218(4571), 443–448.
- Brady, N. C. 1984. *The nature and properties of soils*.
- Canton, H. 2021. Food and agriculture organization of the United Nations—FAO. In *The Europa directory of international organizations 2021* (pp. 297–305). Routledge.
- Carneiro, M., Fabião, A., & Madeira, M. 2014. Effects of site preparation and slash

- management on growth and understory vegetation of *Eucalyptus globulus* plantations along a rotation time span in Portugal. *European Journal of Forest Research*, 133, 941–955.
- Chazdon, R. L. 2008. Beyond deforestation: restoring forests and ecosystem services on degraded lands. *Science*, 320(5882), 1458–1460.
- Colchester, M. 2007. Promised land: palm oil and land acquisition in Indonesia: implications for local communities and indigenous peoples. (*No Title*).
- Davies, P. J. 2004. *Plant hormones: biosynthesis, signal transduction, action!* Springer Science & Business Media.
- De Moraes Gonçalves, J. L., Alvares, C. A., Higa, A. R., Silva, L. D., Alfenas, A. C., Stahl, J., de Barros Ferraz, S. F., de Paula Lima, W., Brancalion, P. H. S., & Hubner, A. 2013. Integrating genetic and silvicultural strategies to minimize abiotic and biotic constraints in Brazilian eucalypt plantations. *Forest Ecology and Management*, 301, 6–27.
- FAO. 2020. *Global Forest Resources Assessment 2020*.
- Gebbers, R., & Adamchuk, V. I. 2010. Precision agriculture and food security. *Science*, 327(5967), 828–831.
- Gibbs, H. K., Ruesch, A. S., Achard, F., Clayton, M. K., Holmgren, P., Ramankutty, N., & Foley, J. A. 2010. Tropical forests were the primary sources of new agricultural land in the 1980s and 1990s. *Proceedings of the National Academy of Sciences*, 107(38), 16732–16737.
- Glick, B. R., Todorovic, B., Czarny, J., Cheng, Z., Duan, J., & McConkey, B. 2007. Promotion of plant growth by bacterial ACC deaminase. *Critical Reviews in Plant Sciences*, 26(5–6), 227–242.
- Hartmann, H. T., & Kester, D. E. (1959). *Plant propagation: principles and practices*.
- Harwood, C. 1998. *Eucalyptus pellita: an Annotated Bibliography*.
- Hasdar, M., Wadli, W., & Meilani, D. (2021). Rancangan Acak Lengkap dan Rancangan Acak Kelompok pada pH Gelatin Kulit Domba Dengan Pretreatment Larutan NaOH. *Journal of Technology and Food Processing (JTFP)*, 1(01), 17–23.
- Hatfield, J. L., & Prueger, J. H. 2015. Temperature extremes: Effect on plant growth and development. *Weather and Climate Extremes*, 10, 4–10.
- IRWANTO. 2007. *budidaya budidaya*. <http://www.irwantoshut.com/>

- Kha, L., Harwood, C., Kien, N., Baltunis, B., Hai, N., & Thinh, H. (2012). Growth and wood basic density of acacia hybrid clones at three locations in Vietnam. *New Forests - NEW FOREST*, 43. <https://doi.org/10.1007/s11056-011-9263-y>
- KLHK. 2021. *Statistik Lingkungan Hidup dan Kehutanan 2021*.
- Koh, L. P., & Wilcove, D. S. 2008. Is oil palm agriculture really destroying tropical biodiversity? *Conservation Letters*, 1(2), 60–64.
- Kozlowski, T. T., & Pallardy, S. G. 1997. *Growth control in woody plants*. Elsevier.
- Laclau, J.-P., Ranger, J., de Moraes Gonçalves, J. L., Maquère, V., Krusche, A. V., M'Bou, A. T., Nouvellon, Y., Saint-André, L., Bouillet, J.-P., & de Cassia Piccolo, M. 2010. Biogeochemical cycles of nutrients in tropical Eucalyptus plantations: main features shown by intensive monitoring in Congo and Brazil. *Forest Ecology and Management*, 259(9), 1771–1785.
- Lal, R. 2004. Soil carbon sequestration impacts on global climate change and food security. *Science*, 304(5677), 1623–1627.
- Lal Rattan. 1990. *Filter Results Shipping Eligible for Free Shipping Expedited Shipping Available Item Condition Seller Rating Other Options Change Currency + Add to Wishlist Browse related Subjects Agronomy Gardening Tropics Soil erosion Soil conservation Soil Erosion in the Tropics: Principles and Management*. McGraw-Hill.
- Lambers, H., Chapin III, F. S., & Pons, T. L. 2008. *Plant physiological ecology*. Springer Science & Business Media.
- Lithourgidis, A. S., Dordas, C. A., Damalas, C. A., & Vlachostergios, D. N. 0. 2011. Annual intercrops: an alternative pathway for sustainable agriculture. *Australian Journal of Crop Science*, 5(4), 396–410.
- Marschner, H. 2011. *Marschner's mineral nutrition of higher plants*. Academic press.
- Matula, R., Šrámek, M., Kvasnica, J., Uherková, B., Slepíčka, J., Matoušková, M., Kutchartt, E., & Svátek, M. 2019. Pre-disturbance tree size, sprouting vigour and competition drive the survival and growth of resprouting trees. *Forest Ecology and Management*, 446, 71–79. <https://doi.org/https://doi.org/10.1016/j.foreco.2019.05.012>
- Morgan, R. P. C. 2009. *Soil erosion and conservation*. John Wiley & Sons.
- Munns, R., & Tester, M. 2008. Mechanisms of salinity tolerance. *Annu. Rev. Plant Biol.*, 59(1), 651–681.

- Nawir, A. A., Murniati, M., & Rumboko, L. 2007. *Forest rehabilitation in Indonesia: where to after more than three decades?*
- Oerke, E.-C. 2006. Crop losses to pests. *The Journal of Agricultural Science*, 144(1), 31–43.
- Ouyang, L., Wu, J., Zhao, P., Zhu, L., & Ni, G. 2021. Stand age rather than soil moisture gradient mainly regulates the compromise between plant growth and water use of *Eucalyptus urophylla* in hilly South China. *Land Degradation & Development*, 32(7), 2423–2436.
- Pan, Y., Birdsey, R. A., Fang, J., Houghton, R., Kauppi, P. E., Kurz, W. A., Phillips, O. L., Shvidenko, A., Lewis, S. L., & Canadell, J. G. 2011. A large and persistent carbon sink in the world's forests. *Science*, 333(6045), 988–993.
- Pimentel, D., Harvey, C., Resosudarmo, P., Sinclair, K., Kurz, D., McNair, M., Crist, S., Shpritz, L., Fitton, L., & Saffouri, R. 1995. Environmental and economic costs of soil erosion and conservation benefits. *Science*, 267(5201), 1117–1123.
- Pirard, R., Dal Secco, L., & Warman, R. 2016. Do timber plantations contribute to forest conservation? *Environmental Science & Policy*, 57, 122–130.
- Pretty, J. 2008. Agricultural sustainability: concepts, principles and evidence. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 363(1491), 447–465.
- Rawana. 2023. *Light intensity effect on number of seedlings and growth of Gyrrinops versteegii*.
- Ryan, M. G., Stape, J. L., Binkley, D., Fonseca, S., Loos, R. A., Takahashi, E. N., Silva, C. R., Silva, S. R., Hakamada, R. E., & Ferreira, J. M. 2010. Factors controlling *Eucalyptus* productivity: how water availability and stand structure alter production and carbon allocation. *Forest Ecology and Management*, 259(9), 1695–1703.
- Saribun, D. S. 2007. Pengaruh jenis penggunaan lahan dan kelas kemiringan lereng terhadap bobot isi, porositas total, dan kadar air tanah pada Sub-DAS Cikapundung Hulu. *Jurusan Ilmu Tanah Fakultas Pertanian Universitas Padjadjaran. Jatinangor*.
- Schmidt, S., Tresch, S., & Meusburger, K. 2019. Modification of the RUSLE slope length and steepness factor (LS-factor) based on rainfall experiments at steep alpine grasslands. *MethodsX*, 6, 219–229.
- Shukla, P. R., Skeg, J., Buendia, E. C., Masson-Delmotte, V., Pörtner, H.-O., Roberts, D. C., Zhai, P., Slade, R., Connors, S., & Van Diemen, S. 2019.

Climate Change and Land: an IPCC special report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems.

- Smith, H. 2000. Phytochromes and light signal perception by plants—an emerging synthesis. *Nature*, 407(6804), 585–591.
- Suhartati, T., Siregar, U. J., & Puspitasari, D. 2015. Pengaruh Kelerengan terhadap Pertumbuhan Eucalyptus pelita di Lahan Berlereng. *Manajemen Hutan Tropika*, 21(2), 78–89.
- Taiz, L., & Zeiger, E. 2010. *Plant Physiology (5th ed.)* (5th ed.). Sinauer Associates.
- Tilman, D., Cassman, K. G., Matson, P. A., Naylor, R., & Polasky, S. 2002. Agricultural sustainability and intensive production practices. *Nature*, 418(6898), 671–677.
- Turnbull, L. A., Coomes, D., Hector, A., & Rees, M. 2004. Seed mass and the competition/colonization trade-off: competitive interactions and spatial patterns in a guild of annual plants. *Journal of Ecology*, 97–109.
- Wang, W., Vinocur, B., & Altman, A. 2003. Plant responses to drought, salinity and extreme temperatures: towards genetic engineering for stress tolerance. *Planta*, 218, 1–14.
- Williams, L. J., & Abdi, H. 2010. Fisher's least significant difference (LSD) test. *Encyclopedia of Research Design*, 218(4), 840–853.
- Zhang, N., Wang, M., & Wang, N. 2002. Precision agriculture—a worldwide overview. *Computers and Electronics in Agriculture*, 36(2–3), 113–132.

LAMPIRAN

Lampiran 1. Label Plot



Lampiran 2. Tanaman Minggu-0 dan Minggu-8



Lampiran 3. Alat dan Bahan



Garmin



Finger Counter

Satin



Bibit *Eucalyptus pelita*

Pita Ukur



Meteran



Lampiran 4. Tabel Jumlah Tanaman PerPlot

Tabel 8. Jumlah Tanaman PerPlot

Jumlah	Kelerengan 0-10%	Kelerengan 10-15%	Kelerengan 15-25%
Plot 1	65	56	55
Plot 2	57	58	55
Plot 3	51	61	61