

DAFTAR PUSTAKA

- Anamulai, S., Sanusi, R., Zubaid, A., Lechner, A. M., Ashton-Butt, A., & Azhar, B. (2019). Land use conversion from peat swamp forest to oil palm agriculture greatly modifies microclimate and soil conditions. *Jurnal PeerJ*, 7, 1–16.
- Anggraini, S., & Arifin, Y. W. (2021). Analisis Cadangan Karbon Kelapa Sawit Fase Tanaman Menghasilkan (Tm <20 Tahun) Dilahan Berpirit Kedalaman 40-60 Cm. *Jurnal Ilmu Dan Teknologi Pertanian*, 8(1), 1–8.
- Arimbawa, I. B., Saidy, A. R., Razie, F., Purnomo, J., Hermantoro, Suparyanto, T., & Pardamean, B. (2025). Systematic Literature Review of Oil Palm on Sandy Soils. *Jurnal Communications in Mathematical Biology and Neuroscience*, 2025(49), 1–22.
- Ashton-Butt, A., Aryawan, A. A. K., Hood, A. S. C., Naim, M., Purnomo, D., Suhardi, Wahyuningsih, R., Willcock, S., Poppy, G. M., Caliman, J.-P. R., Turner, E. C., Foster, W., Peh, K. S.-H., & Snaddon, J. L. (2018). Understory Vegetation in Oil Palm Plantations Benefits Soil Biodiversity and Decomposition Rates. *Jurnal Frontiers in Forests and Global Change*, 1(10), 1–13.
- Azwar, W., & Afrillah, M. (2023). Vegetasi Gulma Pada Perkebunan Kelapa Sawit (*Elaeis guineensis* Jacq) Unit Perkebunan Bate Puteh Pt. Agro Sinergi Nusantara. *Jurnal Ilmiah Pertanian*, 19(1), 177–185.
- Bob, J., & Michael, P. S. (2022). Nutrient Dynamics under Unmanaged Rubber, Cocoa, and Oil Palm Plantations in A Sandy Soil under Humid Lowland Tropical Climatic Conditions. *International Journal of Environment*, 11(1), 46–61.
- Dhandapani, S., Ritz, K., Evers, S., & Sjögersten, S. (2019). Environmental Impacts as Affected by Different Oil Palm Cropping Systems in Tropical Peatlands. *Jurnal Agriculture, Ecosystems & Environment*, 276, 8–20.
- Drewer, J., Tarigan, R. S., Banin, L. F., White, S., Raine, E., Luke, S. H., Turner, E. C., Skiba, U., Cowan, N. J., Dewi, J. P., Advento, A. D., Aryawan, A. A. K., Caliman, J.-P., & Pujianto. (2024). *Restoring Understory and Riparian Areas in Oil Palm Plantations does not Increase Greenhouse Gas Fluxes*. 7, 1–14.
- Ernah, Wulandari, E., & Sudarjat. (2021). Pengenalan Standar Perkebunan Kelapa Sawit Berkelanjutan. *Jurnal Abdidias*, 2(1), 92–97.
- Fatima, Setiawan, E., Renata, & Ramadhani, A. (2024). Strategi Pengelolaan Berkelanjutan Kelapa Sawit di Indonesia Sustainable Palm Oil Management Strategy in Indonesia. *Jurnal Ilmiah Ekonomi Dan Pembangunan*, 26(1), 15–28.
- Firison, J., Wiryono, & Brata, B. (2019). Keragaman Jenis Tumbuhan Bawah pada

- Tegakan Kelapa Sawit dan Potensinya sebagai Pakan Ternak Sapi Potong (Kasus di Desa Kungkai Baru Kabupaten Seluma). *Jurnal Penelitian Pengelolaan Sumberdaya Alam Dan Lingkungan*, 8(1), 67–76.
- Firmansyah, M. A. (2014). Karakterisasi, Kesesuaian Lahan dan Teknologi Kelapa Sawit Rakyat di Rawa Pasang Surut Kalimantan Tengah. *Jurnal Penelitian Pertanian Terapan*, 14(2), 97–105.
- Gardner, F. P., Pearce, R. B., & Mitchell, R. L. (1991). *Physiology of Crop Plants*. Iowa State University Press.
- Gupta, S. Das, & Pinno, B. D. (2020). Drivers of Understory Species Richness in Reconstructed Boreal Ecosystems: A Structural Equation Modeling Analysis. *Jurnal Scientific Reports*, 10(1), 1–11.
- Hairiah, K., & Rahayu, S. (2007). *Pengukuran Karbon Tersimpan di Berbagai Macam Penggunaan Lahan*. World Agroforestry Centre (ICRAF).
- Herdiansyah, H., Negoro, H. A., Rusdayanti, N., & Shara, S. (2020). Palm Oil Plantation and Cultivation: Prosperity and Productivity of Smallholders. *Jurnal Open Agriculture*, 5(1), 617–630.
- Hillel, D. (2004). *Introduction to Environmental Soil Physics*. Elsevier Academic Press.
- Juhadi. (2007). Pola-Pola Pemanfaatan Lahan dan Degradasi Lingkungan pada Kawasan Perbukitan. *Jurnal Geografi*, 4(1), 11–24.
- Khozila, R., Suryanti, S., & Kautsar, V. (2021). *Biomassa Tegakkan Tanaman Kelapa Sawit pada Berbagai Umur Tanam pada Tanah Latosol*.
- Kurniawan, S., Corre, M. D., Matson, A. L., Schulte-Bisping, H., Utami, S. R., Straaten, O. van, & Veldkamp, E. (2018). Conversion of Tropical Forests to Smallholder Rubber and Oil Palm Plantations Impacts Nutrient Leaching Losses and Nutrient Retention Efficiency in Highly Weathered Soils. *Jurnal Ilmiah Biogeosciences*, 15, 5131–5154.
- Lakitan, B. (2018). *Dasar-Dasar Fisiologi Tumbuhan*. Rajawali Pers.
- Lewis, K., Rumpang, E., Kho, L. K., Mccalmont, J., Teh, Y. A., Gallego-Sala, A., & Hill, timothy charles. (2020). An Assessment of Oil Palm Plantation Aboveground Biomass Stocks on Tropical Peat Using Destructive and Non-Destructive Methods. *Jurnal Scientific Reports*, 10(1), 1–12.
- Luke, S. H., Purnomo, D., Advento, A. D., Aryawan, A. A. K., Naim, M., Pikstein, R. N., Ps, S., Rambe, T. D., Soeprapto, Caliman, J.-P. R., Snaddon, J. L., Foster, W., & Turner, E. C. (2019). Effects of Understory Vegetation Management on Plant Communities in Oil Palm Plantations in Sumatra, Indonesia. *Jurnal Frontiers in Forests and Global Change*, 2(33), 1–13.
- Malaga, N., Hergoualc'h, K., Kapp, G., & Martius, C. (2021). Variation in Vegetation and Ecosystem Carbon Stock Due to the Conversion of Disturbed

- Forest to Oil Palm Plantation in Peruvian Amazonia. *Jurnal Ecosystems*, 24(2), 351–369.
- Miswarti, Ishak, A., Wulandari, W. A., Firison, J., Rosmanah, S., Ramon, E., Nurmegawati, Calista, I., Yahumri, & Sastro, Y. (2021). Effect of Weeds Management toward Understorey Species Diversity and Soil Fertility under Oil Palm Plantation. *Jurnal E3S Web of Conferences*, 306(05013), 1–7.
- Ngadi, & Noveria, M. (2017). Keberlanjutan Perkebunan Kelapa Sawit di Indonesia dan Prospek Pengembangan di Kawasan Perbatasan. *Jurnal Masyarakat Indonesia*, 43(1), 95–111.
- Ngau, L. D., Fong, S. S., Khoon, K. L., Rumpang, E., Vasander, H., Jauhiainen, J., Yrjälä, K., & Silvennoinen, H. (2022). Mapping Peat Soil Moisture under Oil Palm Plantation and Tropical Forest in Sarawak. *Jurnal Mires and Peat*, 28(13), 1–17.
- Pangestu, R. B. A., Suryanti, S., & Hartati, R. M. (2025). Dominance of Understory Vegetation and Biomass Production of Oil Palm Plantations on Mineral Land. *Jurnal Agronomi Tanaman Tropika*, 7(2), 454 – 459.
- Perez-Sato, M., Errez, A. G.-G., Lopez-Valdez, F., Ayala-Nino, F., Soni-Guillermo, E., Gonzalez-Graillet, M., & Perez-Hernandez, H. (2023). Soil Physicochemical Properties Change by Age of the Oil Palm Crop. *Jurnal Heliyon*, 9(6), 1–9.
- Pertiwi, A. D., Safitri, N. F. A., & Azahro, D. A. (2019). Penyebaran Vegetasi Semak, Herba, dan Pohon Dengan Metode Kuadrat Di Taman Pancasila. *Jurnal Proceeding of Biology Education*, 3(1), 185–191.
- Putera, V. A. V. H., Suryanti, S., & Wilisiani, F. (2023). Keragaman Vegetasi Bawah di Perkebunan Kelapa Sawit Tanaman Menghasilkan pada Berbagai Tahun Tanam. *Jurnal Agroforetech*, 1(3), 1310–1318.
- Ronauly, I. E. (2024). Perkebunan Kelapa Sawit Indonesia yang Berkelanjutan. *Jurnal Syntax Admiration*, 5(12), 5611–5624.
- Rüegg, J., Quezada, J. C., Santonja, M., Ghazoul, J., Kuzyakov, Y., Buttler, A., & Guillaume, T. (2019). Drivers of Soil Carbon Stabilization in Oil Palm Plantations. *Jurnal Land Degradation & Development*, 30(16), 1–12.
- Sabiham, S., & Sukarman. (2012). Pengelolaan Lahan Gambut untuk Pengembangan Kelapa Sawit di Indonesia. *Jurnal Sumberdaya Lahan*, 6(2), 55–66.
- Salisbury, F. B., & Ross, C. W. (1995). *Plant Physiology* (D. R. Lukman & Sumaryono, Eds.; 3rd ed.). Institut Teknologi Bandung.
- Satriawisti, G., & Parung, J. (2024). Keberlanjutan Industri Kelapa Sawit: Literature Review. *Jurnal Teknik Industri*, 19(3), 122–135.
- Sewerniak, P. (2020). Plant Species Richness or Soil Fertility: Which Affects More

- The Productivity of Scots Pine in Central Europe? *Jurnal Annals of Forest Research*, 63(2), 57–73.
- Stone, J., Advento, A. D., Pashkevich, M. D., Aryawan, A. A. K., Caliman, J.-P., Hood, A. S. C., Foster, W. A., Naim, M., Pujianto, Purnomo, D., Suhardi, Tarigan, R. S., Rambe, T. D. S., Widodo, R. H., Luke, S. H., Snaddon, J. L., & Turner, E. C. (2023). Maintaining Understory Vegetation in Oil Palm Plantations Supports Higher Assassin Bug Numbers. *Jurnal Ecological Solutions and Evidence (Wiley Online Library)*, 4(4), 1–13.
- Suri, A. R. A., & Solfiyeni, S. (2024). Analysis Of Understorey Vegetation In The Protected Forest Area Of Kenagarian Padang Mentinggi, Rao District, Pasaman Regency. *Jurnal Biologi Universitas Andalas*, 12(1), 13–20.
- Susanti, E. D., Hera, N., & Zam, S. I. (2021). Perbandingan Vegetasi Gulma pada Perkebunan Kelapa Sawit (*Elaeis Guineensis* Jacq.) Menghasilkan dan Belum Menghasilkan di Lahan Gambut. *Jurnal Agroteknologi*, 12(1), 17–24.
- Tuah, N., Sulaeman, R., & Yoza, D. (2017). Penghitungan Biomassa dan Karbon di Atas Permukaan Tanah di Hutan Larangan Adat Rumbio Kab Kampar. *Jurnal Online Mahasiswa (JOM) Fakultas Pertanian Universitas Riau*, 4(1), 1–10.
- Wawan, W., Amri, A. I., & Akbar, A. N. (2019). Sifat Fisika Tanah dan Produktivitas Kelapa Sawit (*Elaeis Guineensis* Jacq.) di Lahan Gambut pada Kedalaman Muka Air Tanah yang Berbeda. *Jurnal Agroteknologi*, 10(1), 15–22.
- Weil, R. R., & Brady, N. C. (2016). *The Nature and Properties of Soils* (15th ed.). Pearson Education, Inc., Columbus.
- Wigena, G. P., Subardja, D., & Andriati. (2013). Evaluasi Kesesuaian Lahan Mineral dan Gambut untuk Peremajaan Tanaman Kelapa Sawit (Studi Kasus pada Beberapa Kebun Plasma di Provinsi Riau). *Jurnal Sumberdaya Lahan*, 7(2), 77–95.
- Yahya, S., Ariyanti, M., & Asbur, Y. (2022). Perspektif Baru: Manajemen Vegetasi Bawah Tegakan pada Budidaya Kelapa Sawit Berkelanjutan. *Jurnal Agronomi Indonesia*, 50(3), 343–356.
- Yusuf, M., Sulistyawati, E., & Suhaya, Y. (2014). Distribusi Biomassa di Atas dan Bawah Permukaan dari Surian (*Toona Sinensis* Roem.). *Jurnal Matematika & Sains*, 19(2), 69–75.
- Zunis, E. D., Iskandar, & Dewantara, I. (2022). Keanekaragaman Jenis Vegetasi Pada Kawasan Hutan Rakyat Bukit Matok Desa Pemuar Kecamatan Belimbing Kabupaten Melawi. *Jurnal Lingkungan Hutan Tropis*, 1(3), 998–1004.

LAMPIRAN

Kelembapan Tanah







Pengeringan Vegetasi Bawah





Pengambilan Sampel



