

DAFTAR PUSTAKA

- Ali, M. A., Inubushi, K., Joo Kim, P., & Amin, S. (2019). Management of paddy soil towards low greenhouse gas emissions and sustainable rice production in the changing climatic conditions. *Soil Contamination and Alternatives for Sustainable Development*, 89–103.
- Anggraini, W. M., Ginting, R., & Jufri, M. (2015). Analisis faktor-faktor yang mempengaruhi indeks pertanaman (IP) padi sawah di Kabupaten Simalungun (Kasus: Kecamatan Panombeian Panei, Kabupaten Simalungun). *Journal On Social Economic Of Agriculture And Agribusiness*, 4(2).
- Ardiyanto. (2021). *IP400 Tanaman Padi*. Kementrian Pertanian. <http://cybex.pertanian.go.id/mobile/artikel/98136/IP400-TANAMAN-PADI/>. Diakses tanggal 12 April 2023.
- Arif, C., Setiawan, B. I., Widodo, S., Rudiyanto., Hasanah, N. A. I., & Mizoguchi, M. (2015). Pengembangan model jaringan saraf tiruan untuk menduga emisi gas rumah kaca dari lahan sawah dengan berbagai rejim air. *Jurnal Irigasi*, 10(1), 1–10.
- Badan Pusat Statistik. (2023). *Statistik Indonesia 2023* (Vol. 1101001). Badan Pusat Statistik. Jakarta.
- Davamani, V., Parameswari, E., & Arulmani, S. (2020). Mitigation of methane gas emissions in flooded paddy soil through the utilization of methanotrophs. *Science of the Total Environment*, 726, 138570.
- Dirjen Tanaman Pangan. (2020). *Petunjuk Teknis Bantuan Pemerintah Program Peningkatan Produksi, Produktivitas, dan Mutu Hasil Tanaman pangan*. Kementrian Pertanian. Jakarta
- FAO. (2014). *Family Farmers: Feeding the world, caring for the earth*. Food and Agriculture Organization of the United Nations. Roma.
- Gerungan, R. A., & Pandelaki, M. C. T. (2020). Pengaruh rekayasa pengairan terhadap produktivitas budidaya padi (*Oryza sativa*) sawah. *Matematika, Sains, Dan Teknologi*, 21(1), 11–21.
- Gupta, K., Kumar, R., Baruah, K. K., Hazarika, S., Karmakar, S., & Bordoloi, N. (2021). Greenhouse gas emission from rice fields: a review from Indian context. *Environmental Science and Pollution Research*, 28(24), 30551–30572.
- Hardke, J. T. (2013). *Arkansas Rice Production Handbook*. University of Arkansas Division of Agriculture Cooperative Extension Service. Arkansas.
- Hartatik, W., & Widowati, L. R. (2015). Pengaruh pupuk majemuk NPKS dan NPK terhadap pertumbuhan dan hasil padi sawah pada inceptisol. *Penelitian Pertanian Tanaman Pangan*, 34(3), 175–186.
- Hermawan, E. (2010). Kondisi Iklim Indonesia Saat Ini dan Prediksinya Dalam Beberapa Bulan Mendatang Berbasis Hasil Analisis Data Iklim Global. *Prosiding Seminar Nasional Fisika*, 66–79.
- Jin, W., Cao, W., Liang, F., Wen, Y., Wang, F., Dong, Z., & Song, H. (2020). Water management impact on denitrifier community and denitrification activity in a paddy soil at different growth stages of rice. *Agricultural Water Management*,

241, 1–12.

- Kartikawati, R., & Nursyamsi, D. (2013). Pengaruh pengairan, pemupukan, dan penghambat nitrifikasi terhadap emisi gas rumah kaca di lahan sawah tanah mineral. *Ecolab*, 7(2), 49–108.
- Low Carbon Development Indonesia. (2020). Pertanian. <https://lcd-indonesia.id/grk-pertanian/>. Diakses tanggal 20 April 2023.
- Minamikawa, K., & Sakai, N. (2005). The effect of water management based on soil redox potential on methane emission from two kinds of paddy soils in Japan. *Agriculture, Ecosystems and Environment*, 107(4), 397–407.
- Mulyani, S. (2023). Panen Raya IP 400 di Klaten, Mentan Yasin Limpo: Contoh Pertanian Nasional. Pemkab Klaten. <https://klatenkab.go.id/panen-raya-ip-400-di-klaten-mentan-yasin-limpo-contoh-pertanian-nasional/>. Diakses tanggal 20 April 2023.
- Naharia, O., Saeni, M. S., Sabihan, S., & Burhan, H. (2005). Teknologi pengairan dan pengolahan tanah pada budidaya padi sawah untuk mitigasi gas metana (CH₄). *Berita Biologi*, 7(4), 173–180.
- Nakajima, M., Cheng, W., Tang, S., Hori, Y., Yaginuma, E., Hattori, S., Hanayama, S., Tawaraya, K., & Xu, X. (2016). Modeling aerobic decomposition of rice straw during the off-rice season in an Andisol paddy soil in a cold temperate region of Japan: Effects of soil temperature and moisture. *Soil Science and Plant Nutrition*, 62(1), 90–98.
- Nasrullah, M. K., & Rafsanjani, A. (2022). Distribution of rice plant pests (*Oryza sativa* L.) in vegetative and generative phases: analytical study. *AGRICUS: Advances Agriculture Science & Farming*, 1(3), 123–126.
- Nie, T., Chen, P., Zhang, Z., Qi, Z., Lin, Y., & Xu, D. (2019). Effects of different types of water and nitrogen fertilizer management on greenhouse gas emissions, yield, and water consumption of paddy fields in cold region of China. *International Journal of Environmental Research and Public Health*, 16(9), 1–16.
- Ning, D., Zhang, Y., Qin, A., Gao, Y., Duan, A., Zhang, J., Liu, Z., Zhao, B., & Liu, Z. (2023). Interactive effects of irrigation system and level on grain yield, crop water use, and greenhouse gas emissions of summer maize in North China Plain. *Science of the Total Environment*, 864.
- Nisha, F. N., & Arif, C. (2019). Pengembangan Model Denitrification Decomposition (DNDC) Untuk Pendugaan Emisi Gas Metana (CH₄) Dari Lahan Padi Sawah. *Jurnal Teknik Sipil Dan Lingkungan*, 4(1), 1–12.
- Nurzannah, S. E. (2021). Peningkatan Indeks Pertanaman. *BBP2TP*. Bogor.
- Pangaribuan, D. H., Ginting, Y. C., Saputra, L. P., & Fitri, H. (2017). Aplikasi pupuk organik cair dan pupuk anorganik terhadap pertumbuhan, produksi, dan kualitas pascapanen jagung manis (*Zea mays* var. *saccharata* Sturt.) . *J. Hort. Indonesia*, 8(1), 59–67.
- Prasada, I. M. Y., & Rosa, T. A. (2018). Dampak alih fungsi lahan sawah terhadap ketahanan pangan di Daerah Istimewa Yogyakarta. *Jurnal Sosial Ekonomi Pertanian*. 210-224.
- Prayitno, M. B., Runtung, P. E. A., & Karimuddin, Y. (2019). Pengaruh muka air tanah dan pupuk nitrogen terhadap emisi karbon tanaman padi di Tanah

- gambut. *Prosiding Seminar Nasional Lahan Suboptimal*, 225–235.
- Purba, T., Ningsih, H., Purwaningsih, Junaedi, A. S., Gunawan, B., Junairiah, Firgiyanto, R., & Arsi. (2021). *Tanah dan Nutrisi Tanaman*. Yayasan Kita Menulis. Medan.
- Purnamayani, R., Etika, A. P. W., & Syahbuddin, H. (2021). Komponen Usahatani Pendukung Penerapan Peningkatan Indeks Pertanaman pada Beberapa Agroekosistem. *Jurnal Penelitian Pertanian Tanaman Pangan*, 5(1), 47.
- Pusat Data dan Sistem Informasi Pertanian. (2022). *Statistik Konsumsi Pangan Tahun 2022*. Kementerian Pertanian. Jakarta
- Rahayu, N. D., Sasmito, B., & Bashit, N. (2018). Analisis pengaruh fenomena indian ocean dipole (Iod) terhadap curah hujan di Pulau Jawa. *Jurnal Geodesi Undip*, 7(1), 57–67.
- Ramadhani, F., Pullanagari, R., Kereszturi, G., & Procter, J. (2021). Mapping a cloud-free rice growth stages using the integration of proba-v and sentinel-1 and its temporal correlation with sub-district statistics. *Remote Sensing*, 13(8), 1–21.
- Ramadhanti, Y. K., Suwanto, & Suminah. (2023). Sikap petani terhadap penerapan program IP400 di Kecamatan Bendosari Kabupaten Sukoharjo. *INTELEKTIVA*, 4(5), 23–31.
- Ramija, K. EL, Manurung, E. D., Batubara, S. F., & Susanto, A. N. (2016). Evaluasi kualitas air irigasi pada budidaya padi IP 400 di Kabupaten Simalungun. *Prosiding Seminar Nasional*, 738–747.
- Ravn, N. R., Michelsen, A., & Reboleira, A. S. P. S. (2020). Decomposition of organic matter in caves. *Frontiers in Ecology and Evolution*, 8, 1–12.
- Rawung, C. F. (2015). Efektivitas ruang terbuka hijau (RTH) dalam mereduksi emisi gas rumah kaca (GRK). *Jurnal Media Matrasain*, 12(2), 17–32.
- Sari, I. M. (2020). Pengaruh pengairan terhadap hasil emisi gas nitro-oksida (N₂O) pada padi sawah. *Konservasi Hayati*, 16(1), 46–52.
- Shaukat, M., Muhammad, S., Maas, E. D. V. L., Khaliq, T., & Ahmad, A. (2022). Predicting methane emissions from paddy rice soils under biochar and nitrogen addition using DNDC model. *Ecological Modelling*, 466, 1–12.
- Šimon, T., & Czakó, A. (2014). Influence of long-term application of organic and inorganic fertilizers on soil properties. *Plant, Soil and Environment*, 60(7), 314–319.
- Siregar, D., Marbun, P., & Marpaung, P. (2013). Pengaruh varietas dan bahan organik yang berbeda terhadap bobot 1000 butir dan biomassa padi sawah IP 400 pada musim tanam I. *Jurnal Online Agroekoteknologi*, 1(4), 1413–1421.
- Siregar, E. S., & Nasution, F. E. (2019). Peranan pola pengairan dan metode pengendalian hama tikus terhadap produksi padi sawah. *Jurnal Agroteknologi Fakultas Pertanian*, 4(2), 44–52.
- Suhery, N., Jaya, M. M., Khikmawati, L. T., Sarasati, W., Tanjov, Y. E., Larasati, R. F., Azis, M. A., Purwanto, A., Sari, I. P., Mainnah, M., & Satyawan, N. M. (2023). The relationship of rainy and wind season with lemuru fishing season based on pengembangan fishing port. *Marine Fisheries : Journal of Marine Fisheries Technology and Management*, 14(1), 77–90.
- Suli, A. A. T., & Damanik, M. (2023). Correlation of rice production and

- greenhouse gas emissions in North Sulawesi province. *Jurnal Ilmu Pertanian Indonesia (JIPI)*, 28, 229–234.
- Surmaini, E., Runtunuwu, E., & Las, I. (2011). Upaya sektor pertanian dalam menghadapi perubahan iklim. *Jurnal Litbang Pertanian*, 30(1), 1–7.
- Unger, I. M., Motavalli, P. P., & Muzika, R. M. (2009). Changes in soil chemical properties with flooding: A field laboratory approach. *Agriculture, Ecosystems and Environment*, 131(1–2), 105–110.
- Utomo, M., Sabrina, T., Sudarsono, Lumbanraja, J., Rusman, B., & Wawan. (2016). *Ilmu Tanah: Dasar-Dasar dan Pengelolaan* (1st ed.). Kencana. Jakarta.
- Wang, J. Y., Jia, J. X., Xiong, Z. Q., Khalil, M. A. K., & Xing, G. X. (2011). Water regime-nitrogen fertilizer-straw incorporation interaction: field study on nitrous oxide emissions from a rice agroecosystem in Nanjing, China. *Agriculture, Ecosystems and Environment*, 141(3–4), 437–446.
- XIONG, Z.-Q., XING, G.-X., & ZHU, Z.-L. (2007). Nitrous oxide and methane emissions as affected by water, soil and nitrogen. *Pedosphere*, 17(2), 146–155.
- Xu, X., Shi, Z., Li, D., Rey, A., Ruan, H., Craine, J. M., Liang, J., Zhou, J., & Luo, Y. (2016). Soil properties control decomposition of soil organic carbon: Results from data-assimilation analysis. *Geoderma*, 262, 235–242.
- Yunianti, I. F., Yulianingrum, H., & Ariani, M. (2020). Pengaruh pemberian variasi bahan organik terhadap peningkatan produksi padi dan penurunan emisi metana (CH₄) di lahan sawah tadah hujan. *Ecolab*, 14(2), 79–90.