



DAFTAR PUSTAKA

- Ambarwati, D. 2016. Analisis Teknis dan Usaha Budidaya Udang Vaname (*Litopenaeus vannamei*) dalam Tambak di Pesisir Kabupaten Bantul. Universitas Gadjah Mada.
- Andriyanto, F., A. Efani, dan H. Riniwato. 2013. Analisis faktor-faktor produksi usaha pembesaran udang vanname (*Litopenaeus vannamei*) di Kecamatan Paciran Kabupaten Lamongan Jawa Timur. J ECSOFiM. 1(1):82–96.
- Arrobbi, F.T. 2016. Analisis Finansial Budidaya Udang Vaname di Pantai Kuwaru Desa Poncosari Kecamatan Srandakan Kabupaten Bantul. Universitas Gadjah Mada.
- Barti. 2017. Analisis Teknik dan Usaha Budidaya Udang Vaname (*Litopenaeus vannamei* Boone, 1931) dalam Tambak pada Lahan Pasir di Pesisir Kecamatan Galur Kabupaten Kulon Progo. Universitas Gadjah Mada.
- Bogetoft, P. dan L. Otto. 2025. Benchmark and Frontier Analysis Using DEA and SFA.
- Briggs, M., S. Funge-Smith, R. Subasinghe, dan M. Phillips. 2004. Introductions and movement of *Penaeus vannamei* and *Penaeus stylirostris* in Asia and the Pacific. Bangkok: FAO.
- Coelli, T., D. S. P. Rao, dan G. E. Battese. 2005. An Introduction to Efficiency and Productivity Analysis. <https://www.jstor.org/stable/2343100>.
- Cooper, W.W., L. M. Seiford, dan J. Zhu. 2011. Handbook on Data Envelopment Analysis. edisi kedua. London: Springer.
- Dinas Kelautan dan Perikanan Daerah Istimewa Yogyakarta (Dislautkan DIY). 2024. Kompilasi Data Monografi Kelautan dan Perikanan Daerah Istimewa Yogyakarta 2023.
- Duy, D.T., N. H. Nga, H. Berg, C. T. Da. 2023. Assessment of technical, economic, and allocative efficiencies of shrimp farming in the Mekong Delta, Vietnam. J World Aquac Soc. 54(4):915–930. doi:10.1111/jwas.12915.
- FAO. 2009. *Penaeus vannamei* In Cultured aquatic species fact sheets. https://www.fao.org/fishery/docs/CDrom/aquaculture/I1129m/file/en/en_whitelegshrimp.htm.
- FAO. 2016. Sustainable intensification of aquaculture in the Asia-Pacific region. Documentation of successful practices.
- FAO. 2024. The State of World Fisheries and Aquaculture 2024 – Blue Transformation in action. Rome. <https://doi.org/10.4060/cd0683en>.
- Farrell, M.J. 1957. The measurement of productive efficiency. Journal of the Royal Statistical Society. 120(3):253–290. doi:10.1002/0471667196.ess7018. <https://www.jstor.org/stable/2343100>.
- Ghee-Thean, L., G. M. N. Islam, dan M. M. Ismail. 2016. Malaysian white shrimp (*P. vannamei*) aquaculture: An application of stochastic frontier analysis on technical efficiency. Int Food Res J. 23(2):638–645.
- Hukom, V., R. Nielsen, dan M. Nielsen. 2021. Effects of co-management on technical efficiency and environmental stressors: An application to small-scale shrimp



- polyculture in Indonesia. *Aquac Econ Manag.* 26(1):98–117.
doi:10.1080/13657305.2021.1897190.
<https://doi.org/10.1080/13657305.2021.1897190>.
- Ichdayati, L.I., S. Hartoyo, Y. Syaukat, dan U. Kuntjoro. 2013. Pengaruh polutan tambak terhadap efisiensi teknis produksi bandeng Di Kabupaten Karawang. 1(2):107–124.
- Integrated Taxonomic Information System (ITIS). 2025. *Penaeus vannamei* Boone, 1931. [accessed 2025 Jan 1].
https://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=95646#null.
- Islam, S., S. Mitra, dan A. Khan. 2023. Technical and cost efficiency of pond fish farms: Do young educated farmers bring changes? *J Agric Food Res.* 12(March):100581. doi:10.1016/j.jafr.2023.100581.
<https://doi.org/10.1016/j.jafr.2023.100581>.
- Jusmiaty, M. A. Tuwo, dan B. Bahari. 2017. Efisiensi usaha budidaya udang vanname. *J Sosio Agribisnis.* 1(1):37–47. doi:10.33772/jsa.v2i2.7593.
- Kementerian Kelautan dan Perikanan (KKP). 2024. Menteri Trenggono Fokus Bangun Hulu Perikanan untuk Sokong Hilirisasi. [accessed 2024 Jan 6].
<https://www.kkp.go.id/news/news-detail/menteri-trenggono-fokus-bangun-hulu-perikanan-untuk-sokong-hilirisasi-ZYI5.html>.
- Kementerian Kelautan dan Perikanan Republik Indonesia. 2023. Profil Pasar Udang.
<https://kkp.go.id/download-pdf/Materi - profil-pasar-udang667533620a258.pdf>.
- Long, L.K. 2021. Cost efficiency analysis in aquaculture: Data envelopment analysis with a two-stage bootstrapping technique. *Aquac Econ Manag.* 26(1):77–97. doi:10.1080/13657305.2021.1896605.
<https://doi.org/10.1080/13657305.2021.1896605>.
- Long, L.K., L. V. Thap, dan N. T. Hoai. 2020. An application of data envelopment analysis with the double bootstrapping technique to analyze cost and technical efficiency in aquaculture: Do credit constraints matter? *Aquaculture.* 525(March):735290. doi:10.1016/j.aquaculture.2020.735290.
<https://doi.org/10.1016/j.aquaculture.2020.735290>.
- Ma'sum, M. 2017. Analisis Teknik dan Usaha Budidaya Udang Vaname (*Litopenaeus vannamei* Boone, 1931) dalam Tambak pada Lahan Pasir di Pesisir Kecamatan Temon Kabupaten Kulon Progo. Universitas Gadjah Mada.
- Nurhidayati, I., D. A. H. Lestari, T. Endaryanto. 2022. Efisiensi Produksi Dan Pendapatan Budidaya Udang Vanname Dengan Sumber Modal Busb Di Kecamatan Rawajitu Timur. *J Ilmu-Ilmu Agribisnis.* 10(1):26. doi:10.23960/jiia.v10i1.5646.
- Orbeta, M.L.G., L. N. Digal, I. J. T. Astronomo, C. Q. Balgos, S. G. P. Placencia, M. P. Loquias, dan P. E. Codog. 2023. Analyzing factors affecting the technical efficiency of small-scale seaweed farms using a two-stage double bootstrap DEA approach. *J Appl Aquac.* 35(1):123–148. doi:10.1080/10454438.2021.1945520.
- Primavera, J. 1991. Intensive prawn farming in the Philippines: ecological, social, and economic implications. *AMBIO A J Hum Environ.* 20(1):28–33.



<http://hdl.handle.net/10862/1342>.

- Priyono, S.B. 2020. Daya Dukung Lahan Pasir Pesisir di Kabupaten Bantul Untuk Budidaya Intensif Berkelanjutan Udang Vaname (*Litopenaeus vannamei* Boone, 1931).
- Purnamasari, I., M. Muntalim, F. Mas'ud, dan E. S. Prihatini. 2023. Analisis faktor produksi dan tingkat efisiensi teknis budidaya udang vaname di Kecamatan Turi Kabupaten Lamongan. *Grouper*. 14(2):106–111. doi:10.30736/grouper.v14i2.214.
- Rahman, T., R. Nielsen, A. Khan, dan M. Asmild. 2019. Efficiency and production environmental heterogeneity in aquaculture : a meta-frontier DEA approach. 509(January):140–148. doi:10.1016/j.aquaculture.2019.05.002.
- Republik Indonesia. 2016. Peraturan Menteri Kelautan dan Perikanan tentang Pedoman Umum Pembesaran Udang Windu (*Penaeus monodon*) dan Udang Vaname (*Litopenaeus vannamei*). Republik Indonesia.
- Republik Indonesia. 2020. Lampiran II tentang Rencana Pembangunan Jangka Menengah Nasional Tahun 2020-2024 Proyek Prioritas Strategis (Major Project). Republik Indonesia.
- Silkman R.H. 1986. Review of Measuring Efficiency: An Assessment of Data Envelopment Analysis. *New Directions for Program Evaluation*. *Contemp Psychol A J Rev*. 33(1). doi:10.1037/025343.
- De Silva M.L.I., M. A. S. Ranjula, M. Thanuja, D. M. Katuwawala, A. P. Sumanapala. 2021. Review on impacts of *Litopenaeus vannamei* on aquaculture. *Wildlanka*. 9(1).
- Simar, L. dan P. W. Wilson. 2007. Estimation and inference in two-stage, semi-parametric models of production processes. *J Econom*. 136(1):31–64. doi:10.1016/j.jeconom.2005.07.009.
- Simm J. dan G. Besstremyannaya. 2023. Robust Data Envelopment Analysis (DEA) for R. <https://github.com/jaak-s/rDEA>.
- Suadi, H. Saksono, dan B. Triyatmo. 2019. Perception-based indicator for sustainability of shrimp culture in the less favorable areas at Southern Coast of Yogyakarta. *J Perikan Univ Gadjah Mada*. 21(2):53. doi:10.22146/jfs.50960.
- Suharyadi. 2011. Budidaya Udang Vaname (*Litopenaeus vannamei*). Jakarta: Kementerian Kelautan dan Perikanan.
- Supono. 2019. Budidaya Udang Vaname Salinitas Rendah, Solusi untuk Budidaya di Lahan Kritis. Hudaidah S, editor. Yogyakarta: Graha Ilmu.
- Tamariska, A.Y., S. B. Priyono, Suadi, B. Triyatmo. 2024. Towards Sustainable Shrimp Farming: Life Cycle Assessment of Farming Practices at the Less Favorable Areas of Yogyakarta's Southern Coast. *Turkish J Fish Aquat Sci*. 24(9). doi:10.4194/TRJFAS23908.
- Theodoridis, A., C. Batzios, A. Ragkos, dan P. Angelidis. 2017. Technical efficiency measurement of mussel aquaculture in Greece. 1025–1037. doi:10.1007/s10499-016-0092-z.