

## DAFTAR PUSTAKA

01 - *Climates - Green Building Learning Hub.* (n.d).  
<https://greenbuilding.ft.ugm.ac.id/01-climates/>

Aditya, R. (2025). *Rakor Bencana Hidrometeorologi, BMKG Sebut Musim Hujan Tahun ini Berbeda.* Badan Meteorologi, Klimatologi, Dan Geofisika.

Arnerić, J. (2024). 8.2 *Unit Root Testing | Econometrics.*

Ascencio-Vásquez, J., Brecl, K., & Topič, M. (2019). *Methodology of Köppen-Geiger-Photovoltaic Climate Classification and Implications to Worldwide Mapping of PV System Performance.* *Solar Energy*, 191, 672–685.

Ayazi, H. & Elsheikh, E. (2019). *Climate Refugees: The Climate Crisis and Rights Denied.* Berkeley, CA: Othering & Belonging Institute, University of California Berkeley.

Azmi, F. (2024). *Khofifah Ungkap Jumlah Sapi Potong Hingga Perah di Jatim Lebih dari 5 Juta.* Detikjatim.

Badan Meteorologi, Klimatologi, dan Geofisika. (2021). *Climate Variability.*

Badan Meteorologi, Klimatologi, dan Geofisika. (2023). *63% Wilayah Sudah Masuk Musim Kemarau, Indonesia Bersiap Hadapi El Nino.*

Badan Pusat Statistik. (2024). *Peternakan dalam Angka 2024.* Vol. 9, No. Publikasi 05200.24015.

Badan Pusat Statistik. (2025). *Statistik Indonesia 2025: Statistical Yearbook of Indonesia 2025.* Vol. 53, No. Publikasi 03200.25004.

Badan Pusat Statistik. (n.d.). <https://sensus.bps.go.id/main/index/st2023>

Badan Pusat Statistik Indonesia. <https://www.bps.go.id/id>.

Belomestny, D., Krymova, E., & Polbin, A. (2021). *Bayesian TVP-VARX Models with Time Invariant Long-run Multipliers*. *Economic Modelling*, 101, 105531.

Bose E., Hravnak M., & Sereika S. M. (2017). *Vector Autoregressive Models and Granger Causality in Time Series Analysis in Nursing Research: Dynamic Changes Among Vital Signs Prior to Cardiorespiratory Instability Events as an Example*. *Nurs Res.* 2017 Jan/Feb;66(1):12-19. PMID: 27977564; PMCID: PMC5161241.

Brockwell, P. J. & Davis, R. A. (2016). *Introduction to Time Series and Forecasting*. In Springer texts in statistics.

Cermak, A. (2024). *What is climate change?*. NASA Science.

Cheng, M., McCarl, B., & Fei, C. (2022). *Climate Change and Livestock Production: A Literature Review*. *Atmosphere*, 13(1), 140.

Cortez, R. M., Johnston, W. J., & Dastidar, A. G. (2023). *Managing the Content of LinkedIn Posts: Influence on B2B Customer Engagement and Sales?*. In *Journal of Business Research* (Vol. 155, p. 113388) [Journal-article].

Dakhore, K. K., Karunakar, A., Jadhav, J. D., Kadam, Y. E., Waskar, D. P., & Kumar, P. V. (2020). *Analysis of Drought in the Maharashtra by Using the Standardized Precipitation Index*. *Journal of Agrometeorology*. Vol. 22. 43-50.

Direktorat Jenderal Peternakan dan Kesehatan Hewan Kementerian Pertanian Republik Indonesia. (2018). *Kementan Dorong Investor Kembangbiakan Sapi di Kepulauan Aru*.

Direktorat Jenderal Peternakan dan Kesehatan Hewan Kementerian Pertanian Republik Indonesia. (2024). *Buku Statistik Peternakan dan Kesehatan Hewan 2024*. ISSN 2964-1047, Volume 3.

Dunn, R. & National Center for Atmospheric Research Staff (Eds). (2025). *The Climate Data Guide: HadEX3: Gridded Temperature and Precipitation Climate Extremes Indices (CLIMDEX data)*.

- Ellerhoff, B., Kirschner, M. J., Ziegler, E., Holloway, M. D., Sime, L., & Rehfeld, K. (2022). *Contrasting State-Dependent Effects of Natural Forcing on Global and Local Climate Variability*. *Geophysical Research Letters*, 49(10).
- European Union. (2025). *Standardized Precipitation Index (SPI)*.
- Eurostat. (2025). *Agricultural Production - Livestock and Meat*.
- Fanchette, Y., Ramenah, H., Tanougast, C., & Benne, M. (2020). *Applying Johansen VECM Cointegration Approach to Propose a Forecast Model of Photovoltaic Power Output Plant in Reunion Island*. *AIMS Energy*, 8(2), 179–213.
- Food and Agriculture Organization of the United Nations. (2021). *World Programme for the Census of Agriculture 2010*.
- Food and Agriculture Organization of the United Nations. (2022). *More Fuel for the Food/Feed Debate*.
- Gerber, P. J., Steinfeld, H., Henderson, B., Mottet, A., Opio, C., Dijkman, J., Faluccci, A. & Tempio, G. (2013). *Tackling Climate Change through Livestock – A Global Assessment of Emissions and Mitigation Opportunities*. Food and Agriculture Organization of the United Nations (FAO), Rome.
- Ghaleb, B. D. S. (2024). *Towards a Dynamic Model of Human Needs: A Critical Analysis of Maslow's Hierarchy*. *International Journal of Multidisciplinary Approach Research and Science*, 2(03), 1028–1046.
- Greene, W. H. (2002). *Econometric Analysis*. 5th Edition, Prentice Hall, Upper Saddle River, 802.
- Gujarati, D. N. (2003). *Basic Econometrics*. 4th Edition. New York et al.: McGraw-Hill Higher Education.
- Gujarati, D. N. & Porter, D. C. (2009). *Basic Econometrics (5th ed.)*. McGraw-Hill/Irwin.

Gyamerah, S. A., Owusu, V., & Kwakye, S. O. (2024). *Marginal Impact of Climate Variability on Crop Yields in Ghana*. *Scientific African*, 25, e02314.

Hassani, H., Mashhad, L. M., Royer-Carenzi, M., Yeganegi, M. R., & Komendantova, N. (2025). *White Noise and Its Misapplications: Impacts on Time Series Model Adequacy and Forecasting*. *Forecasting*, 7(1), 8.

Hauser, M. (2018). *Vector Error Correction Model, VECM*. In *Financial Econometrics* (pp. 1–58).

Herrero, M., Mason-D’Croz, D., Thornton, P. K., Fanzo, J., Rushton, J., Godde, C., Bellows, A., De Groot, A., Palmer, J., Chang, J., Van Zanten, H., Wieland, B., DeClerck, F., Nordhagen, S., Beal, T., Gonzalez, C., & Gill, M. (2023). *Livestock and Sustainable Food Systems: Status, Trends, and Priority Actions*. In *Springer eBooks* (pp. 375–399).

InfoPublik. (2021). *BPS: SP 2020 Jumlah Penduduk Jatim 40,67 Juta Jiwa*.

Intergovernmental Panel on Climate Change. (2018). *Observed Climate Variability and Change*.

Irwanto, D. (2023). *Kemarau Buat Peternak di Pesisir Jatim Jual Sapi untuk Beli Jerami*. Media Indonesia, Metro TV.

Jiang, P., Ding, W., Yuan, Y., Ye, W., & Mu, Y. (2021). *Interannual Variability of Vegetation Sensitivity to Climate in China*. *Journal of Environmental Management*, 301, 113768.

Joy A., Dunshea F. R., Leury B. J., Clarke I. J., DiGiacomo K., & Chauhan S. S. (2020). *Resilience of Small Ruminants to Climate Change and Increased Environmental Temperature: A Review*. *Animals (Basel)*. 2020 May 17;10(5):867. doi: 10.3390/ani10050867. PMID: 32429527; PMCID: PMC7278399.

Juanda, B. (2020). *Model ARIMA (Metode Box-Jenkins)*.

Kamus Besar Bahasa Indonesia Daring. <https://kbbi.web.id>.

- Kaua, C. G., Thenya, T., & Mutune, J. M. (2021). *Analyzing Effects of Climate Variability in the Nexus of Informal Microfinance Institutions: A Case Study of Tharaka South Subcounty, Kenya*. *Challenges in Sustainability*, 9(1), 1–15.
- Kazanski, C. E., Balehegn, M., Jones, K., Bartlett, H., Calle, A., Garcia, E., Hawkins, H., Mayberry, D., McDonald-Madden, E., Odadi, W. O., Zionts, J., Clark, M., Garnett, T., Herrero, M., VanZanten, H., Ritten, J., Mallmann, G., Harrison, M. T., Bossio, D., & Gennet, S. (2025). *Context is Key to Understand and Improve Livestock Production Systems*. *Global Food Security*, 45, 100840.
- Kementerian Hukum Jawa Barat. (2024). *Asta Cita Presiden dan Wakil Presiden Republik Indonesia* [Instagram].
- Keyantash, J. & National Center for Atmospheric Research Staff (Eds). (2025). *The Climate Data Guide: Standardized Precipitation Index (SPI)*.
- Khusun, H., Februhartanty, J., Anggraini, R., Mognard, E., Alem, Y., Noor, M. I., Karim, N., Laporte, C., Poulain, J., Monsivais, P., & Drewnowski, A. (2022). *Animal and Plant Protein Food Sources in Indonesia Differ Across Socio-Demographic Groups: Socio-Cultural Research in Protein Transition in Indonesia and Malaysia*. *Frontiers in Nutrition*, 9.
- Kolter, Z., Do, C., & Ma, T. (2020). *Linear Algebra Review and Reference*. Stanford University.
- Kozian, L. L., Machado, M. R., & Osterrieder, J. R. (2025). *Modeling Commodity Price Co-movement: Building on Traditional Time Series Models and Exploring Applications of Machine Learning Algorithms*. *Decisions in Economics and Finance*.
- Kurniawan, D. (2023). *Musim Kemarau Dampak El Nino di Jatim Diprediksi Sampai Desember 2023*. *Liputan6.com*.
- LibreTexts. (2022). 9.2: *The Elements of Climate*. Geosciences LibreTexts.

Lindsey, R. & Dahlman, L. (2025). *Climate Change: Global Temperature*. NOAA Climate.gov.

Mack, Simon & FAO Expert Consultation on Strategies for Sustainable Animal Agriculture in Developing Countries, (1990 : Rome, Italy). (1993). *Strategies for Sustainable Animal Agriculture in Developing Countries : Proceedings of the FAO Expert Consultation Held in Rome, Italy 10-14 December 1990 / edited by Simon Mack*. Rome : Food and Agriculture Organization of the United Nations.

Margalit, D. & Rabinoff, J. (2020). *Interactive Linear Algebra*.

Martudji, T. (2023). *Dihantam Badai PMK, Provinsi Jatim Tegar, Bangkit, Tuntaskan Vaksinasi*. iNFONews - Lugas Tanpa Batas.

Matopote, G., & Joshi, N. P. (2024). *Associations between Climate Variability and Livestock Production in Botswana: A Vector Autoregression with Exogenous Variables (VARX) Analysis*. *Atmosphere*, 15(3), 363.

Mbow, C., C. Rosenzweig, L. G. Barioni, T. G. Benton, M. Herrero, M. Krishnapillai, E. Liwenga, P. Pradhan, M. G. Rivera-Ferre, T. Sapkota, F. N. Tubiello, Y. Xu. (2022). Food Security. In: *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* [P. R. Shukla, J. Skea, E. Calvo Buendia, V. Masson-Delmotte, H.-O. Pörtner, D. C. Roberts, P. Zhai, R. Slade, S. Connors, R. van Diemen, M. Ferrat, E. Haughey, S. Luz, S. Neogi, M. Pathak, J. Petzold, J. Portugal Pereira, P. Vyas, E. Huntley, K. Kissick, M. Belkacemi, J. Malley, (eds.)].

McLeod, S. (2025). *Maslow's Hierarchy of Needs*. Simply Psychology.

Munir, R. (munir). *Beberapa Distribusi Peluang Kontinu [Bahan Kuliah]*. II2092 Probabilitas dan Statistik.

Muschilati, E., & Irsalinda, N. (2020). *Forecasting Tourist Visit using the Vector Autoregressive Exogenous Method (VARX)*. *Jurnal Ilmiah Matematika*, 7(2), 81.

- Myquant. (2024). *How does Augmented Dickey-Fuller Test Works? | Chapter 2, Statistics* [Video]. YouTube.
- Nadiar, F., & Pattisinai, A. R. (2020). *Modern Tropical House: Elevating Traditional Tropical House on Thermal Building Performance due to Environmental Issue*. Journal of Physics Conference Series, 1569(4), 042023.
- National Oceanic and Atmospheric Administration. (2023). *Tropical Weather Systems*.
- Nugroho, A. (2025). *Tingkatkan Populasi Ternak Kambing, Dosen UGM Dorong Kolaborasi 59 Fakultas Peternakan*. Universitas Gadjah Mada.
- Oliveira, C. P., de Sousa, F. C., da Silva, A. L., Schultz, É. B., Londoño, R. I. V., & de Souza, P. A. R. (2025). *Heat Stress in Dairy Cows: Impacts, Identification, and Mitigation Strategies—A Review*. Animals, 15(2), 249.
- Parra, L. C., Silvan, A., Nentwich, M., Madsen, J., Parra, V. E., & Babadi, B. (2025). *VARX Granger Analysis: Models for Neuroscience, Physiology, Sociology and Econometrics*. PLoS ONE, 20(1), e0313875.
- Place, S. E. (2024). *Environmental Sustainability of Livestock Systems*. In Meat and Muscle Biology (Vols. 1–5) [Journal-article].
- Primacy E-Books. (2022). *Classifications of Farm Animals based on Type of Stomach - Primacy E-Books*.
- Pusat Data dan Sistem Informasi Pertanian Kementerian Pertanian. (2024). *Statistik Makro Sektor Pertanian 2024*.
- Pusat Data dan Sistem Informasi Pertanian Sekretariat Jenderal Kementerian Pertanian. (2024). *Statistik Ketenagakerjaan Sektor Pertanian Agustus 2024*.
- Rahmawati, Y. & Rachmawati, D. (2025). *Tragedi Banjir Bekasi: 55 Ekor Sapi Mati, Kerugian Mencapai Rp1,3 Miliar*. suara.com.

- Rashidi, T. H. (2021). *Transportation Statistics and Databases*. In Elsevier eBooks (pp. 574–586).
- Ratnaningsih, D. J. & Hakim, R. B. F. (2019). *MSIM4310 Modul 01: Prinsip Dasar Penyajian Data*.
- Rosso, G., Galinari, G., & Tordin, C. (2025). *Study Reveals Ways to Boost Livestock Productivity without Clearing New Land*. Embrapa.
- RTMath. (2021). *Augmented Dickey-Fuller (ADF) Test*. FinMath User Guide.
- Saida, M. D. N. (2024). *Analisis Kinerja Perdagangan Komoditas Daging Sapi* (Saefudin & Wahyuningsih, S., Eds.) [Report]. Pusat Data dan Sistem Informasi Pertanian.
- Salem, H. B. & López-Francos, A. (2013). *Feeding and Management Strategies to Improve Livestock Productivity, Welfare and Product Quality Under Climate Change*. Zaragoza: CIHEAM / INRAT / OEP / IRESA / FAO.
- Salsabila, N. A., Wahyuningsih, S., & Purnamasari, I. (2022). *Pemodelan Vector Autoregressive Exogenous (VARX) untuk Meramalkan Data Ekspor Total dan Impor Total di Indonesia*. Jambura Journal of Probability and Statistics.
- Sanjaya, S., Cantik, B. K. P., & Wardaningrum, A. S. (2024). *Analisis Derajat Bencana Kekeringan di Pulau Jawa Akibat Fenomena El-Nino 2023*. Jurnal Teknik Sumber Daya Air, 115–126.
- Santi, R. C. N. & Eniyati, S. (2015). *Implementasi Statistik dengan Database MySQL*. Dinamik, vol. 20, no. 2.
- Sari, D. P. (2021). *A Review of How Building Mitigates the Urban Heat Island in Indonesia and Tropical Cities*. Earth, 2(3), 653–666.
- Sekretariat Jenderal Kementerian Pertanian. (2022). *Outlook Komoditas Daging Sapi*. Pusat Data dan Sistem Informasi Pertanian.

Sekretariat Jenderal Kementerian Pertanian. (2022). *Outlook Susu*. Pusat Data dan Sistem Informasi Pertanian.

Shah, S. A., Jeffrey, K., Robertson, C., & Aziz Sheikh. (2025). *Impact of COVID-19 Pandemic on Elective Care Backlog Trends, Recovery Efforts, and Capacity Needs to Address Backlogs in Scotland (2013–2023): A Descriptive Analysis and Modelling Study*. In *The Lancet Regional Health - Europe*.

Silalahi, R. A., Hafsari, A. A., Situmorang, D., Ginting, N. E. B., Girsang, A. B., Martin, M., Febriyansi, E., & Ompusunggu, D. P. (2024). *Hasil Perhitungan Asumsi Klasik: Tentang Uji Autokorelasi, Normalitas, dan Heterokedatisitas*. (2024). In *Jurnal Ilmiah Multidisipliner (JIM)*: Vol. 8 (Issue No. 12, p. 218).

Smith, D., Ilham, N., Putri, R., Widjaja, E., Nugroho, W. S., Cooper, T. L., Nuradji, H., Dharmayanti, N. L. P. I., & Mayberry, D. (2024). *Calculation of Livestock Biomass and Balue by Province in Indonesia: Key Information to Support Policymaking*. *Preventive Veterinary Medicine*, 226, 106164.

Soumya, N., Banerjee, R., Banerjee, M., Mondal, S., Babu, R., Hoque, M., Reddy, I., Nandi, S., Gupta, P., & Agarwal, P. (2021). *Climate Change Impact on Livestock Production*. In Elsevier eBooks (pp. 109–148).

Soumya, N., Mondal, S., & Singh, R. L. (2021). *Introduction*. In Elsevier eBooks (pp. 1–17).

StataCorp. (2025). *Varstable — Check Eigenvalue Stability Condition*.

StataCorp. (2025). *Varsoc — Obtain Lag-order Selection Statistics for VAR and VEC Models*.

Stock, J. H. & Watson, M. W. (2015). *Introduction to Econometrics*. Boston: Pearson.

Sudrajad, P. & Adiarto. (2011). *Pengaruh Stress Panas Terhadap Performa Produksi Susu Sapi Friesian Holstein di Balai Besar Pembibitan Ternak Unggul Sapi Perah Baturraden*.

- Tardiolo, G., La Fauci, D., Riggio, V., Daghigho, M., Di Salvo, E., Zumbo, A., & Sutera, A. M. (2025). *Gut Microbiota of Ruminants and Monogastric Livestock: An Overview*. *Animals*, 15(5), 758.
- Thornton P., Nelson G., Mayberry D., & Herrero M. (2022). *Impacts of Heat Stress on Global Cattle Production During the 21st Century: A Modelling Study*. *Lancet Planet Health*. 2022 Mar;6(3):e192-e201. doi: 10.1016/S2542-5196(22)00002-X. PMID: 35278386.
- Trefethen, L. N. & Bau, D. (1997). *Numerical Linear Algebra*. Society for Industrial and Applied Mathematics.
- United Nations Development Programme. (2021). *1.2. Types of Climate and Climate Zones | UNDP Climate Box*.
- VAR modelling*. (2024). <https://cran.r-project.org/web/packages/vars/vars.pdf>.
- von Der Heydt, A. S., Ashwin, P., Camp, C. D., Crucifix, M., Dijkstra, H. A., Ditlevsen, P., & Lenton, T. M. (2020). *Quantification and Interpretation of the Climate Variability Record*. *Global and Planetary Change*, 197, 103399.
- Warella, R. Y., Wattimanela, H. J., & Ilwaru, V. Y. I. (2021). *Sifat-sifat dan Kejadian Khusus Distribusi Gamma*. *Barekeng*, vol. 15, no. 1, pp. 47-58.
- Wei, W.W.S. (2006). *Time Series Analysis Univariate and Multivariate Methods*. 2nd Edition, Addison Wesley, New York, 33-59.
- Wiratri, M., Baddarudin, Mahyudin, I., Mahreda, E. S., & Supari. (2022). *Proyeksi Pergeseran Tipe Iklim Oldeman di Wilayah Kalimantan Selatan pada Akhir Abad 21 Berdasarkan Simulasi CORDEX-SEA*. *EnviroScienteeae*, 18(2), 87–99.
- Yustiana, M., Zainuri, M., Sugianto, D. N., Batubara, M. P. N., & Hidayat, A. M. (2022). *Dampak Variabilitas Iklim Inter-Annual (El Niño, La Niña) Terhadap Curah Hujan dan Anomali Tinggi Muka Laut di Pantai Utara Jawa Tengah*. *BULETIN OSEANOGRAFI MARINA*, 12(1), 109–124.

Zivot, E. & Wang, J. (2006). *Modeling Financial Time Series with S-PLUS®*. In Springer eBooks.

Zulfikar. (2023). *Standar Deviasi (Statistik)*.