

DAFTAR PUSTAKA

- Afriliana, A. (2018). Teknologi Pengolahan Kopi Terkini. DeePublish.Yogyakarta.
- Agustin, E. K., & Vitri R. G. (2021). Fenologi Pembungan dan Penyerbukan *Cereus jamacaru* D.C. (Cactaceae) Koleksi Kebun Raya Bogor. *Jurnal Agronomi Indonesia*, 49(1): 82-88.
- Angka, A. W., & Suryani D. (2021). Dampak Perubahan Iklim terhadap Produktivitas Kopi Robusta di Desa Kurrak Kecamatan Tapango Kabupaten Polewali Mandar. *Media Agribisnis*, 5(2): 133-139. <https://doi.org/10.35326/agribisnis.v5i2.1594>
- Ansar. (2019). Teori Ekonomi Mikro. IPB Press. Bogor.
- Aridana, I. K. A., & I. G. A. Wesnawa. (2018). Iklim Mikro dan Produktivitas Perkebunan Kopi Robusta (*Cafea Robusta*) di Kecamatan Pupuan. *Jurnal Pendidikan Geografi Undiksha*, 6(3): 145-153.
- Asgar, Y. P. 2010. Analisis Pergerakan dan Volatilitas Beberapa Saham LQ-45 pada Periode Krisis Global. *Tesis*. Sekolah Pascasarjana, Institut Pertanian Bogor.
- Assamha, F. H. (2017). Dampak Perubahan Iklim terhadap Produktivitas Tanaman Kopi di Kabupaten Tana Toraja. *Skripsi*. Fakultas Matematika dan Ilmu Pengetahuan Alam, Institut Pertanian Bogor.
- Atems, B., & Sardar N. (2021). Exploring asymmetries in the effect of El Nino Southern Oscillation on U.S food and agricultural stock prices. *The Quarterly Review of Economics and Finance*, 81: 1-14. <https://doi.org/10.1016/j.qref.2021.04.013>
- Australian Government Bureau of Meteorology. (2017). Climate Glossary: Southern Oscillation Index. <http://www.bom.gov.au/climate/glossary/soi.shtml>. Diakses pada 4 Desember 2022.
- Avelino, J., Cristancho, M., Georgiou, S., Imbach, P., Aguilar, L., Bornemann, G., Laderach, P., Anzueto, F., Hruska, A. J., Morales, C. (2015). The coffee rust crises in Colombia and Central America (2008-2013): impacts, plausible causes and proposed solutions. *Food Security*. 7(2), 303–321.
- Badan Meteorologi, Klimatologi dan Geofisika. (2023). Kriteria ENSO. <https://cews.bmkg.go.id/enso-kriteria.php>.
- Badan Penyuluh Pertanian Jawa Tengah. (2018). Budidaya Kopi 2018. <https://bapeltan.distanbun.jatengprov.go.id/upload/materi/Budidaya%20Kopi%202018.pdf>. Diakses pada 20 Desember 2022.
- Badan Pusat Statistik. (2021). Statistik Kopi Indonesia 2021. Badan Pusat Statistik. Jakarta.
- Badan Pusat Statistik. (2023). Statistik Indonesia 2023. Badan Pusat Statistik. Jakarta.

- Badan Riset dan Inovasi Nasional. (2023). Menebar Wangi Kopi di Masa Mendatang. <https://indonesia.go.id/kategori/komoditas/6998/menebar-wangi-kopi-di-masa-mendatang?lang=1>
- Baharuddin. (2017). Mikroekonomi. IPB Press. Bogor.
- Bastianin, A., Alessandro L., & Matteo M. (2018). Economic impacts of El Nino southern oscillation: evidence from the Colombian coffee market. *Agricultural Economics*, 49(5): 623-633. <https://doi.org/10.1111/agec.12447>
- Basuki, A. & Nano P. (2022). Analisis Regresi dalam Penelitian Ekonomi dan Bisnis (Dilengkapi Aplikasi SPSS dan Eviews). Rajawali Pers. Depok.
- Bilen, C., El Chami, D., Mereu, V., Trabucco, A., Marras, S., & Spano, D. (2023). A Systematic Review on the Impacts of Climate Change on Coffee Agrosystems. *Plants*, 12(1), 1–20. <https://doi.org/10.3390/plants12010102>
- Bjorkman, M. (1992). What is Productivity?. *IFAC Proceedings Volumes*, 25 (8): 203-210. [https://doi.org/10.1016/S1474-6670\(17\)54065-3](https://doi.org/10.1016/S1474-6670(17)54065-3)
- Boer, R., Akhmad F., Rahmi A. 2014. Relationship between Pacific and Indian Ocean Sea Surface Temperature Variability and Rice Production, Harvesting Area and Yield in Indonesia. *EEPSA conference on The Economics of Climate Change*, 27-28.
- Braun, J. V. & Tadesse G. (2012). Global Food Price Volatility and Spikes: An Overview of Costs, Causes, and Solutions. *ZEF Discussion Papers on Development Policy*, 161. <https://doi.org/10.22004/ag.econ.120021>
- Cahyaningtyas, I. (2022). Dampak ENSO (*El Nino Southern Oscillation*) Terhadap Produktivitas, Volume Ekspor, dan Volatilitas Harga Karet Alam di Indonesia. Tesis. Fakultas Pertanian, Universitas Gadjah Mada.
- Cahyaningtyas, I., Utami, A. W., & Waluyati, L. R. (2022). Indonesia's Natural Rubber Productivity and Technically Specified Natural Rubber 20 Export: The Effect of El Nino Southern Oscillation. *Agraris*, 8(2), 215–230. <https://doi.org/10.18196/agraris.v8i2.14320>
- Camargo, A.P., Camargo, M.B.P. (2001). Definição e esquematização das fases fenológicas do cafeeiro arábica nas condições tropicais do Brasil. *Bragantia*, 60 (1): 65-68. <https://doi.org/10.1590/S0006-87052001000100008>
- Campuzano-Duque, L.F., Herrera, J.C., Ged, C., & Blair, M.W. (2021). Bases for the Establishment of Robusta Coffee (*Coffea canephora*) as a New Crop for Colombia. *Agronomy*, 11, 2550. <https://doi.org/10.3390/agronomy11122550>
- Cashin, P., Kamiar M., & Mehdi R. (2017). Fair weather or foul? The macroeconomic effects of El Nino. *Journal of International Economics*, 106: 37-54. <http://dx.doi.org/10.1016/j.jinteco.2017.01.010>
- Craparo, A.C.W., P. J. A. Van Asten, P. Laderach, L. T. P. Jassogne, S.W. Grab. (2015). *Coffea arabica* yields decline in Tanzania due to climate change. *Global implications. Agricultural and Forest Meteorology*, 207: 1-10. <http://dx.doi.org/10.1016/j.agrformet.2015.03.005>

- Davis, A. P., Gole, T. W., Baena, S., & Moat, J. (2012). The Impact of Climate Change on Indigenous Arabica Coffee (*Coffea arabica*): Predicting Future Trends and Identifying Priorities. *PLoS ONE*, 7(11), 10–14. <https://doi.org/10.1371/journal.pone.0047981>
- Debertin, D. L. (2012). *Agricultural Production Economics: Second Edition*. University of Kentucky, Departement of Agricultural Economic.
- Deribe, H. (2019). Review on Factors which Affect Coffee (*Coffea Arabica* L.) Quality in South Western, Ethiopia. *International Journal of Forestry and Horticulture*, 5(1), 12–19. <https://doi.org/10.20431/2454-9487.0501003>
- Dinas Pertanian dan Perkebunan Provinsi NTB. (2020). Rekapitulasi Produksi, Luas Panen, dan Produktivitas Padi Di Provinsi NTB. <https://data.ntbprov.go.id/dataset/rekapitulasi-produksi-luas-panen-dan-produktivitas-padi-di-provinsi-ntb>. Diakses pada 1 September 2023.
- Dinas Pertanian dan Ketahanan Pangan Provinsi Nusa Tenggara Timur. (2018). Data Produksi Tanaman Perkebunan Tahun 2018-2021 Provinsi Nusa Tenggara Timur. Dinas Pertanian dan Ketahanan Pangan Provinsi Nusa Tenggara Timur. Kupang.
- Dinas Pertanian dan Pangan Provinsi Papua. (2022). *Buku Statistik Perkebunan Tahun 2021*. Dinas Pertanian dan Pangan Provinsi Papua. Jayapura.
- Direktorat Jenderal Perkebunan. (2012). *Pedoman Praktis Praktek Budidaya Kopi yang Baik (Good Agricultural Practice/ GAP on Coffee)*. Direktorat Jenderal Perkebunan. Jakarta.
- Direktorat Jenderal Perkebunan. (2014). *Pedoman Teknis Budidaya Kopi yang Baik (Good Agricultural Practice/ GAP on Coffee)*. Direktorat Jenderal Perkebunan. Jakarta.
- Direktorat Jenderal Perkebunan. (2016). Karat Daun Kopi (*Hemileia vastatrix* B.et Br.). <https://sinta.ditjenbun.pertanian.go.id/karat-daun-kopi-hemileia-vastatrix-b-et-br/>. Diakses pada 20 Desember 2022.
- Direktorat Jenderal Perkebunan. (2022). *Statistik Perkebunan Unggulan Nasional 2020-2022*. Sekretariat Direktorat Jenderal Perkebunan. Jakarta.
- Direktorat Jenderal Pengendalian Perubahan Iklim. (2017). Dampak & Fenomena Perubahan Iklim. <http://ditjenppi.menlhk.go.id/kcpi/index.php/info-iklim/dampak-fenomena-perubahan-iklim/234-petani-kopi-di-bengkulu-gagal-panen>. Diakses pada 20 Desember 2022.
- Ekananda, M. (2016). *Analisis Ekonometrika Time Series: Edisi 2*. Mitra Wacana Media. Jakarta.
- Fadholi, A. (2013). Studi Dampak El Nino dan Indian Ocean Dipole (IOD) terhadap Curah Hujan di Pangkalpinang. *Jurnal Ilmu Lingkungan*, 11(1): 43-50.
- Fajri, H. C., Hermanto, S., & Sahara. (2019). Impact of Climate Change on Food Price in the Affected Provinces of El Nino and La Nina Phenomenon: Case of Indonesia. *International Journal of Food and Agricultural Economics*, 7(4): 329-339.

- Firdaus, M. (2019). Aplikasi Ekonometrika Untuk Data Panel dan Time Series. IPB Press. Bogor.
- Firdaus, M. (2020). Aplikasi Ekonometrika dengan E-Views, Stata, dan R. IPB Press. Bogor.
- Firmansyah. (2006). Analisis Volatilitas Harga Kopi Internasional. *Usahawan*, 7(36): 44-53.
- Gabungan Eksportir Kopi Indonesia. (2022). Areal dan Produksi. <http://gaeki.or.id/areal-dan-produksi/>. Diakses pada 12 Desember 2022.
- Gilbert, C.L. & C.W. Morgan. (2010). Food Price Volatility. *Philosophical Transaction of the Royal Society B*, 365: 3023-3034. <https://doi.org/10.1098/rstb.2010.0139>
- Ginting, R. (2007). Pengaruh Curah Hujan Terhadap Produktivitas Kopi Robusta (*Coffea canephora*). Skripsi. Fakultas Pertanian, Universitas Brawijaya.
- Girma, B. (2023). The Impact of Climate Change on Coffee Processing: A Review. *Agriculture, Forestry and Fisheries*, August. <https://doi.org/10.11648/j.aff.20231204.14>
- Gujarati, D. & Dawn C.P. (2009). Basic Econometrics. McGraw-Hill. New York.
- Hardjanto, A. (2014). Volatilitas Harga Pangan dan Pengaruhnya Terhadap Indikator Makroekonomi Indonesia. Tesis. Sekolah Pascasarjana, Institut Pertanian Bogor.
- Hasibuan, A. M., Randriani, E., Wicaksono, I. N. A., Dani, & Santoso, T. J. (2022). Local-adapted and high-yield varieties for sustainable Robusta coffee farming: Evidence from South Sumatera, Indonesia. *IOP Conference Series: Earth and Environmental Science*, 974(1). <https://doi.org/10.1088/1755-1315/974/1/012130>
- Heino, M., Michael J., Philip J., Dieter G., Vera H., Stefan S., & Matti K. (2018). Two-thirds of global cropland area impacted by climate oscillations. *Nature Communications*, <https://doi.org/10.1038/s41467-017-02071-5>
- Helbling T., Mercer-Blackman V., Cheng K. 2008. Commodities Boom: Riding a Wave. *Finance and Development*. 45(1): 10–15.
- Herlina, N., & Prasetyorini, A. (2020). Effect of Climate Change on Planting Season and Productivity of Maize (*Zea mays* L.) in Malang Regency. *Jurnal Ilmu Pertanian Indonesia*, 25(1), 118–128. <https://doi.org/10.18343/jipi.25.1.118>
- Hinnah, F. D., Sentelhas, P. C., Gleason, M. L., Dixon, P. M., & Zhang, X. (2020). Assessing biogeography of coffee rust risk in Brazil as affected by the El Niño Southern Oscillation. *Plant Disease*, 104(4), 1013–1018. <https://doi.org/10.1094/PDIS-01-19-0207-SR>
- Huchet-Bourdon, M. (2011). Agricultural Commodity Price Volatility: An Overview. *OECD Food, Agriculture and Fisheries Papers*. 52. <http://dx.doi.org/10.1787/5kg0t00nrthc-en>

- Hulupi, R. (2012). Prospek Klon-Klon Lokal Kopi Robusta Asal Bengkulu. *Warta*, 24(2): 6-12.
- Iizumi, T., Luo, J. J., Challinor, A. J., Sakurai, G., Yokozawa, M., Sakuma, H., Brown, M. E., & Yamagata, T. (2014). Impacts of El Niño Southern Oscillation on the global yields of major crops. *Nature Communications*, 5(May), 1–7. <https://doi.org/10.1038/ncomms4712>
- Irianto, G. & Suciantini. (2006). Anomali Iklim: Faktor Penyebab, Karakteristik, dan Antisipasinya. *Iptek Tanaman Pangan*, 2: 101-121.
- International Coffee Organization. (2005). Coffee Price Volatility. International Coffee Council, Salvador Brazil. https://www.ico.org/show_document.asp?id=826
- International Coffee Organization. (2019). Coffee Development Report 2019. International Coffee Organization. London. ISBN: 978-1-5272-4994-3.
- International Coffee Organization. (2023a). Coffee Report and Outlook (CRO): April 2023. International Coffee Organization. https://icocoffee.org/documents/cy2022-23/Coffee_Report_and_Outlook_April_2023_-_ICO.pdf. Diakses Pada 31 Januari 2024.
- International Coffee Organization. (2023b). Coffee Report and Outlook (CRO): December 2023. International Coffee Organization. https://icocoffee.org/documents/cy2022-23/Coffee_Report_and_Outlook_December_2023_-_ICO.pdf. Diakses Pada 31 Januari 2024.
- International Coffee Organization. (2022). Trade Statistics Tables. International Coffee Organization. <https://www.ico.org/prices/po-production.pdf>. Diakses pada 11 Desember 2022.
- Irawan, B. (2006). Fenomena Anomali Iklim El Nino dan La Nina: Kecenderungan Jangka Panjang Dan Pengaruhnya Terhadap Produksi Pangan. *Forum Penelitian Agro Ekonomi*, 24(1): 28-45.
- Jayakumar, M., & Rajavel, M. (2017). Coffee yield forecasting using climate indices based agrometeorological model in Kerala. *Mausam*, 68(2), 309–316. <https://doi.org/10.54302/mausam.v68i2.633>
- Jayakumar, M., Rajavel, M., Surendran, U., Gopinath, G., & Ramamoorthy, K. (2017). Impact of climate variability on coffee yield in India—with a micro-level case study using long-term coffee yield data of humid tropical Kerala. *Climatic Change*, 45, 335–349. <https://doi.org/10.1007/s10584-017-2101-2>
- Juanda, B dan Junaidi. (2021). *Ekonometrika Deret Waktu: Teori dan Aplikasi*. IPB Press. Bogor.
- Kain, M. M., Abdul W., & Apolinaris S. G. (2018). Analisis Pengaruh El Nino terhadap Hujan di NTT. *Jurnal Fisika*, 3(2): 155-162.

- Kalkuhl, M., Joachim V.B. & Maximo T. (2016). Volatile and Extreme Food Prices, Food Security, and Policy: An Overview. *Springer*, Cham. https://doi.org/10.1007/978-3-319-28201-5_6
- Kanwil Ditjen Perbendaharaan Papua. (2021). Kajian Fiskal Regional Provinsi Papua. Kanwil Ditjen Perbendaharaan Papua. Jayapura.
- Karim, A., Hifnalisa, H., & Manfarizah, M. (2021). Analysis of arabica coffee productivity due to shading, pruning, and coffee pulp-husk organic fertilizers treatments. *Coffee Science*, 16(e161903). <https://doi.org/10.25186/v16i.1903>
- Kath, J., Byraredy, V. M., Craparo, A., Nguyen-Huy, T., Mushtaq, S., Cao, L., & Bossolasco, L. (2020). Not so robust: Robusta coffee production is highly sensitive to temperature. *Global Change Biology*, 26(6), 3677–3688. <https://doi.org/10.1111/gcb.15097>
- Kath, J., Mittahalli Byraredy, V., Mushtaq, S., Craparo, A., & Porcel, M. (2021). Temperature and rainfall impacts on robusta coffee bean characteristics. *Climate Risk Management*, 32(October 2020), 100281. <https://doi.org/10.1016/j.crm.2021.100281>
- Kementerian Pertanian. (2022). Outlook Komoditas Perkebunan Kopi. Pusat Data dan Sistem Informasi Pertanian. Jakarta.
- Khoiruddin, M. L. (2020). Pengaruh El Nino Southern Oscillation Terhadap Produktivitas, Daya Saing, dan Volatilitas Harga CPO Indonesia. Tesis. Fakultas Pertanian, Universitas Gadjah Mada.
- Khusaini, M. (2013). Ekonomi Mikro: Dasar-Dasar Teori. Universitas Brawijaya Press. Malang.
- Kishore, K., A.R. Subbiah, Tien S., Sri D., Sutarto A., Peter R., & Adang S. (2000). Indonesia Country Study. Asian Disaster Preparedness Center (ADPC). Thailand.
- Kudama, G. (2019). Factors Influencing Coffee Productivity in Jimma Zone, Ethiopia. *World Journal of Agricultural Sciences*, 15(4), 228–234. <https://doi.org/10.5829/idosi.wjas.2019.228.234>
- Kurniawan, H., Evizal, R., Septiana, L. M., & Rini, M. V. (2022). Pertumbuhan dan Hasil Kopi Grafting Robusta/Liberika pada Klon dan Waktu Pemupukan yang berbeda. *Jurnal Agrotropika*, 21(2), 131–140. <https://doi.org/10.23960/ja.v21i2.6288>
- Kusumaningrum, R. & Rahmah F.S. (2021). Dampak Pandemi Covid-19 terhadap Volatilitas Harga Eceran Beberapa Komoditas Pangan di Jabodetabek. *Scientific Journal of Reflection: Economic, Accounting, Management and Business*. 4(4): 700-710.
- Läderach, P., Ramirez-Villegas, J., Navarro-Racines, C., Zelaya, C., Martinez-Valle, A., & Jarvis, A. (2017). Climate change adaptation of coffee production in space and time. *Climatic Change*, 141(1), 47–62. <https://doi.org/10.1007/s10584-016-1788-9>

- Latupeirissa, E. (2019). Budidaya Tanaman Kopi. <http://cybex.pertanian.go.id/mobile/artikel/89112/BUDIDAYA-TANAMAN-KOPI/>. Diakses pada 12 Desember 2022.
- Lemma, D. T., & Megersa, H. G. (2021). Impact of climate change on agriculture and its mitigation strategies: A review. *World Journal of Agricultural Sciences*, 17(2), 81–89. <https://doi.org/10.5829/idosi.wjas.2021.81.89>
- Leo, G. A. P., Wirianata, H., & Santosa, T. N. B. (2023). Analisis Pengaruh Curah Hujan Terhadap Produktivitas Kopi (*Coffea Sp.*) Ke. Gemawang, Kab. Temanggung, Jawa Tengah. *Agroforetech*, 1(01), 95–102.
- Liefert, W., & S. Persaud. (2009). The Transmission of Exchange Rate Changes to Agricultural Prices. Economic Research Report 55942, United States Department of Agriculture, Economic Research Service. DOI: 10.22004/ag.econ.55942
- Lindsey, R. (2009). Climate Variability: Oceanic Nino Index. <https://www.climate.gov/news-features/understanding-climate/climate-variability-oceanic-ni%C3%B1o-index>. Diakses pada 4 Desember 2022.
- Marit, E. L. (2019). Kopi Papua: Strategi Pemberdayaan Orang Asli Papua dalam Industri Kreatif di Era Otsus Papua. *Jurnal Ekonomi Manajemen & Bisnis*, 20(2): 121-129.
- Martono, Ricky V. (2019). Analisis Produktivitas dan Efisiensi. Gramedia Pustaka Utama. Jakarta.
- Masters, G. Peter B., Julie F. (2010). Climate Change and Agricultural Commodities. CABI Working Paper 2, 38 pp
- Miftahuljanah, Ketut S., & Putri S. A. (2020). Volatilitas dan Transmisi Harga Cabai Merah Keriting pada Pasar Vertikal di Provinsi Bengkulu. *Jurnal Agro Ekonomi*, 38(1): 29-39. <http://dx.doi.org/10.21082/jae.v38n1.2020.29-39>
- Mursyid, & Lamtana. (2020). Dasar-Dasar Ekonomi Mikro. BPFE-Yogyakarta. Yogyakarta.
- National Center for Atmospheric Research. (2022). Indeks SST Nino (Nino 1+2, 3, 3.4, 4; ONI dan TNI). <https://climatedataguide.ucar.edu/climate-data/nino-sst-indices-nino-12-3-34-4-oni-and-tni>. Diakses pada 4 Desember 2022.
- National Centers for Environmental Information. (2022). El Niño/Southern Oscillation (ENSO). <https://www.ncei.noaa.gov/access/monitoring/enso/sst>. Diakses pada 25 September 2023.
- NOAA. (2016). Global impacts of El Nino and La Nina. <https://www.climate.gov/news-features/featured-images/global-impacts-el-ni%C3%B1o-and-la-ni%C3%B1a>
- National Oceanic and Atmospheric Administration. (2023a). Cold & Warm Episodes by Season. https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php

- National Oceanic and Atmospheric Administration. (2023b). El Nino Southern Oscillation (ENSO). <https://www.climate.gov/news-features/understanding-climate/climate-variability-oceanic-nino-index>
- Nopriyandi, R., & Haryadi. (2017). Analisis Ekspor Kopi Indonesia. *Jurnal Paradigma Ekonomika*, 12(1): 1-10.
- Ovalle-Rivera, O., Läderach, P., Bunn, C., Obersteiner, M., & Schroth, G. (2015). Projected shifts in *Coffea arabica* suitability among major global producing regions due to climate change. *PLoS ONE*, 10(4), 1–13. <https://doi.org/10.1371/journal.pone.0124155>
- Peña-Q., A. J., Ramírez-C., C., Bermúdez-F., L. N., & Riaño-H., N. M. (2016). Rainfall Patterns Associated with the Oceanic Niño Index in the Colombian Coffee Zone. *Journal of Agricultural Science*, 8(3), 56–63. <https://doi.org/10.5539/jas.v8n3p56>
- Pindyck, R. S. & D. L. Rubinfeld. (2013). *Microeconomics* (Eight Edition). Pearson Education. United States of America.
- Pracoyo, T. K., & Antyo P. (2006). *Aspek Dasar Ekonomi Mikro*. Grasindo. Jakarta.
- Prasetyo, B., Irwandi, H., & Pusparini, N. (2018). Karakteristik Curah Hujan Berdasarkan Ragam Topografi Di Sumatera Utara. *Jurnal Sains & Teknologi Modifikasi Cuaca*, 19(1), 11. <https://doi.org/10.29122/jstmc.v19i1.2787>
- Prasetyo, S.B., Nurul A. & Moh. D. M. (2017). Dampak Perubahan Iklim terhadap Produktivitas Kopi Robusta (*Coffea robusta*) di Kabupaten Malang. *Jurnal Produksi Tanaman*, 55(5): 805-811.
- PT Perkebunan Nusantara XII. (2019). Robusta Coffee. <https://ptpn12.com/2019/07/09/robusta-coffee/>
- Pusat Data dan Sistem Informasi Pertanian. (2022). Outlook Kopi. Pusat Data dan Sistem Informasi Pertanian. Jakarta
- Pusat Penyuluh Pertanian. (2019). Pengaruh Ketinggian Tempat dan Iklim Ekstrim pada Kopi. <http://cybex.pertanian.go.id/mobile/artikel/78725/PENGARUH-KETINGGIAN-TEMPAT-DAN-IKLIM-EKSTRIM-PADA-KOPI/>. Diakses pada 19 Desember 2022.
- Pusat Penyuluh Pertanian (2020). Hama Tanaman Kopi. <http://cybex.pertanian.go.id/mobile/artikel/95967/Hama-Tanaman-Kopi/>. Diakses pada 20 Desember 2022.
- Puspitasari, Dian K., & Adhitya M. K. (2019). Aplikasi Model ARCH/GARCH dalam Menganalisis Volatilitas Harga Bawang Merah. *Informatika Pertanian*. 28(1): 21-30.
- Rahardjo, P. (2012). *Kopi*. Penebar Swadaya. Depok.
- Rahardjo, P. (2021). *Panduan Berkebun Kopi*. Penebar Swadaya. Depok.

- Rahayu, M. F., Chang W., & Anindita R. (2015). Volatility Analysis and Volatility Spillover Analysis of Indonesia's Coffee Price Using Arch/Garch, and Egarch Model. *Journal of Agricultural Studies*, 3(2): 37-48.
- Ramalia, M., Sandile M., & Daan du T. (2011). Agricultural Productivity in South Africa: Literature Review. Report on agricultural productivity in South Africa. Department Agriculture, Forestry and Fisheries. Republic of South Africa.
- Ridwan, I., A Ala., Irfansyah T., Rafiuddin, M. Farid & F. Haring. (2020). Good Agriculture Practice (GAP) of arabica coffee (*Coffea arabica* L.): Implementation on the smallholder estate in Enrekang Regency. IOP Conference Series: Earth and Environmental Science, 575. DOI:10.1088/1755-1315/575/1/012113.
- Rosadi, D. (2012). *Ekonometrika & Analisis Runtun Waktu Terapan dengan E-Views*. Penerbit Andi. Yogyakarta.
- Sadelina, N. (2020). Dampak Perubahan Iklim Terhadap Harga Komoditas Kopi di Daerah Terdampak Fenomena El Nino dan La Nina. *Skripsi*. Fakultas Ekonomi dan Manajemen, Institut Pertanian Bogor.
- Santoso, A. (2016). Pengaruh Perubahan Iklim terhadap Produksi Tanaman Pangan di Provinsi Maluku. *Jurnal Penelitian Pertanian Tanaman Pangan*, 35(1): 29-38. <http://dx.doi.org/10.21082/jpptp.v35n1.2016.p29-38>
- Sarvina, Y., June, T., Sutjahjo, S. H., Nurmalina, R., & Surmaini, E. (2021). The impacts of climate variability on coffee yield in five indonesian coffee production centers. *Coffee Science*, 16. <https://doi.org/10.25186/.v16i.1917>
- Sarwono, J. (2016). *Prosedur-Prosedur Analisis Populer Aplikasi Riset Skripsi dan Tesis dengan Eviews*. Penerbit Gava Media. Yogyakarta.
- Satriana, E. D., Harianto, Dominicus S. P. (2019). Pengaruh Volatilitas Nilai Tukar Terhadap Kinerja Ekspor Utama Pertanian Indonesia. *Buletin Ilmiah Litbang Perdagangan*, 13 (2): 163-186.
- Scaife, A., Guilyardi, E., Cain, M., & Gilbert, A. (2019). What is the El Niño–Southern Oscillation? *Weather*, 74(7), 250–251. <https://doi.org/10.1002/wea.3404>
- Seksi Pengolahan dan Pemasaran Bidang Perkebunan Dinas Pertanian. (2020). Panen Kopi. <https://distan.humbanghasundutankab.go.id/index.php/read/news/63>. Diakses pada 17 Desember 2022.
- Sihaloho, T.M. (2009). Strategi Pengembangan Agribisnis Kopi di Kabupaten Humbang Hasundutan Sumatera Utara. *Skripsi*. Fakultas Pertanian, Institut Pertanian Bogor.
- Sihombing, F. N., Supriana, T., & Ayu, S. F. (2020). Identifying the Factors Contributing to the Volume of Coffee Export from North Sumatra to the United States, Malaysia and Japan. *Caraka Tani: Journal of Sustainable Agriculture*, 36(1), 83. <https://doi.org/10.20961/carakatani.v36i1.43357>

- Silva, K., Glauco D., Taynara T., Jose R. (2020). Influence of El Niño and La Niña on coffee yield in the main coffee-producing regions of Brazil. *Theoretical and Applied Climatology*, 139:1019–1029. <https://doi.org/10.1007/s00704-019-03039-9>
- Ssenkaaba, J. (2019). Price Determination in Coffee Market: The Impact of Supply and Demand Shifts. Thesis. School of Business and Economics, UiT The Arctic University of Norway.
- Suaydhi. (2016). Karakteristik Awal dan Panjang Musim di Indonesia. Prosiding Pertemuan Ilmiah XXX HFI Jateng & DIY, 109-114
- Sudarma, I. & Abd. R. (2018). Dampak perubahan iklim terhadap sektor pertanian di Provinsi Bali. *Journal on Socio-Economics of Agriculture and Agribusiness*, 2(1): 87-98. <https://doi.org/10.24843/SOCA.2018.v12.i01.p07>
- Suhardi. (2016). Pengantar Ekonomi Mikro. Penerbit Gava Media. Yogyakarta.
- Sukirno, S. (2019). Mikroekonomi Teori Pengantar. Rajagrafindo Persada. Kota Depok.
- Supriadi, H. (2014). Budidaya Tanaman Kopi untuk Adaptasi dan Mitigasi Perubahan Iklim. *Perspektif*, 13(1): 35-52.
- Syakir, M., Surmaini, E. (2017). Perubahan Iklim dalam Konteks Sistem Produksi dan Pengembangan Kopi di Indonesia. *Jurnal Litbang Pertanian*, 36(2): 77-90. <https://doi.org/10.21082/jp3.v36n2.2017.p77-90>
- Syverson, C. (2011). What Determines Productivity?. *Journal of Economic Literature*. 49(2): 326-365. <https://www.jstor.org/stable/23071619>
- Tothova, M. (2011). Main Challenges of Price Volatility in Agricultural Commodity Markets. Springer New York. New York.
- Trenberth, K. E. (2017). El Niño Southern Oscillation (ENSO). In Encyclopedia of Ocean Sciences, Third Edition: Volume 1-5. Elsevier Inc. <https://doi.org/10.1016/B978-0-12-409548-9.04082-3>
- Ubilava, D. (2012). El Nino, La Nina, and world coffee price dynamics. *Agricultural Economics*, 43 (1): 17-26. <https://doi.org/10.1111/j.1574-0862.2011.00562.x>
- Utami, T. I., Handayani, T., & Kuswanto. (2019). Exposure of dryland Farming to the ENSO Phenomenon in Kebumen District. *IOP Conference Series: Earth and Environmental Science*, 303(1). <https://doi.org/10.1088/1755-1315/303/1/012024>
- Utomo, R. S. (2014). Kelayakan Industri Kopi di Provinsi Kalimantan Barat. *Jurnal Bina Praja*, 6(3): 205-212.
- Wagner, S., Jassogne, L., Price, E., Jones, M., & Preziosi, R. (2021). Impact of climate change on the production of coffea arabica at Mt. Kilimanjaro, Tanzania. *Agriculture (Switzerland)*, 11(1), 1–15. <https://doi.org/10.3390/agriculture11010053>



- Wibowo, H. E. & Ridha R. N. (2023). Analisis Volatilitas Harga Komoditas Hortikultura Strategis di Provinsi Bengkulu. *Jurnal Bisnis Tani*, 9(1): 1-12.
- Widarjono, A. (2005). Ekonometrika: Teori dan Aplikasi Untuk Ekonomi dan Bisnis. Yogyakarta. EKONISIA.
- Winarno, W. W. (2017). Analisis Ekonometrika dan Statistika dengan Eviews. Yogyakarta. STIM YKPN.
- Winarto, Y., K. Stigter, B Dwisatrio, M. Nurhaga, & Bowolaksono. (2013). Agrometeorological learning increasing farmers knowledge in coping with climate change and unusual risks. *Southeast Asian Studies*, 2(2): 323-349.
- Winston, E., Laak, J. Op De, Marsh, T., Lempke, H., & Chapman, K. (2005). Arabica coffee manual for Lao-PDR. FAO Regional Office for Asia and the Pacific.
- Yuliasmara, F. (2016). Strategi Mitigasi Perkebunan Kopi Menghadapi Perubahan Iklim. *Warta*, 28(3): 1-7.
- Yuliasmara, F. (2017). El Nino Effect on Coffee Growth and Productivity on Several Agroforestry Systems in Gunitir Mountain Coffee Farms, East Java, Indonesia. *Pelita Perkebunan*, 33(3): 168-179.