

DAFTAR PUSTAKA

- Abubakar, R. 2010. Ekonomi Pemasaran. Proyek dan Pengadaan Buku Ekonomi. PT Sumber Bahagia. Jakarta.
- Abule, E. 2015. Changes in grazing land management and implications on livestock production in west Shoa zone. International Livestock Research Institute. Ethiopia.
- Adane, K. dan T. Berhan. 2005. Effect of harvesting frequency and nutrient levels on natural pasture in the central high lands of Ethiopia. Trop. Sci. 45: 77-82.
- Adereti, F. O., O.E, Fapojuwo, and A. S. Onasanya. 2006. Information utilization on cocoa production techniques by farmers in Oluyole local government area of Oyo state, Nigeria. European J. of Soc. Sciences. 3(1): 1–7.
- Adekoya, A.E. and M.A. Ajayi. 2000. An assessment of farmers' awareness and practice of land management techniques in Iddo LGA of Oyo State. J. Environ. Ext. 1(1): 98 -104.
- Agustiyani, D.M. 1985. Desmodium dan manfaatnya. Buletin Kebun Raya. 6 (6): 137-140.
- Agustono, B., M. Lamid, A. Ma'ruf, dan M.T.E. Purnama. 2017. Identifikasi limbah pertanian dan perkebunan sebagai bahan pakan inkonvensional di Banyuwangi. J. Medik Vet.s 1 (1): 12:22.
- Allen, O.N. dan E. K. Allen. 1981. The Leguminosae A Source Book of Characteristics Uses and Nodulation. The University of Wisconsin Press.
- Altieri, M. A. 2002. Agroecología el camino hacia una agricultura sustentable. Sarandón S. J, ed. Ediciones Científicas Americanas.
- Amalo, S., B Hartono dan H. D. Utami. 2012. Model simulasi peningkatan ternak sapi induk pola gaduhan terhadap curahan tenaga kerja: studi kasus di Kecamatan Amanuban Selatan, Propinsi Nusa Tenggara Timur. JSP. 10 (1): 30-38.
- Amam, H.B., Setyawan, M.W.Jadmiko, P.A. Harsita, S. Rusdiana, dan M. Luthfi. 2020. Pengaruh sumber daya manusia terhadap aksesibilitas sumber daya usaha ternak sapi potong rakyat. JITRO. 8 (1): 57-65.
- Ampaire, A. and M.F Rothschild. 2010. Effects of training and facilitation of farmers in Uganda on livestock development. LRRD. 22. Article #130. Retrieved December 19, 2020, from <http://www.lrrd.org/lrrd22/7/ampa22130.htm>.
- Anonim. 2010. Penyusunan Rancangan Teknis Pengembangan Konvesisonal Kerbau Moa. Laporan Penelitian. Kerjasama Dinas Pertanian dan Peternakan Kabupaten Maluku Barat Daya dengan RACIK Inatitute. Ambon.
- Anonim. 2017. Provinsi Maluku Dalam Angka. Badan Pusat Statistik Provinsi Maluku.

- Anonim, 2019. Tropical Plants Database. Ken Fern. tropical.theferns.info. tropical.theferns.info/viewtropical.php?id=Desmodium+triflorum (Diakses tanggal, 23 Februari, 2020).
- Ansah, I.G.K., D. Eib, and R. Amoako. 2015. Socioeconomic determinants of livestock production technology adoption in Northern Ghana. *AJAEES*, 5(3): 166-182.
- AOAC, 2005. Official Methods of Analysis. Association of Official Analytical Chemists Editor: Horwits, W and G.W. Latimer, Jr. Published by AOAC International. 18th Edition. USA.
- Arfa'i., K. Wardhono, A M. Fuah, dan A. Syaefuddin. 2009. Potensi pengembangan usaha sapi potong dalam sistem Uusahatani di Kabupaten Lima Puluh Kota Sumatera Barat. *J.Indonesia.Trop.Anim.Agric.* 34 (1):65-73.
- Arora, D and J. Twyman.2018. Gender roles among small-scale livestock producers in Costa Rica. Research Program on Climate Change Agriculture and Food Security (CCAFS).
- Arsyad, A. dan W. Nahraeni. 2016. Pengaruh pemberian kredit dan faktor-faktor yang mempengaruhi produksi usaha sapi perah. *Jurnal AgribiSains*. 2 (2):1-10.
- Asdak, C. 2012. Kajian Lingkungan Hidup Strategis: Jalan Menuju Pembangunan Berkelanjutan. Yogyakarta: Gadjah Mada University Press.
- Ashari., E. Juarini, Sumanto, B. Wibowo, Suratman, dan K. Dwiyanto. 1996. Analisis potensi wilayah penyebaran dan pengembangan peternakan. Balai Penelitian Ternak.Bogor.
- Asriany, A. 2016. Kearifan lokal dalam pemeliharaan kerbau lokal di desa Randan Batu Kabupaten Tanah Toraja. *Buletin Nutrisi dan makanan Ternak*. 12(2):64-72.
- Astier, M., E.N. Speelman, R.S. López, O.R. Masera, and C.E.R. González. 2011. Sustainability indicators, alternative strategies and trade-offs in peasant agroecosystems: analysing 15 case studies from Latin America. *nt J Agric Sustain*. 9(3): 409-422.
- Atuhaire, A. M., P. Boma, and S. Mugerwa. 2018. Pasture management strategies for sustainable livestock production in Karamoja pastoral system, Uganda. *LRRD*. 30. Article #178. Retrieved December 2, 2020, from <http://www.lrrd.org/lrrd30/10/aatuh30178.html>.
- Bahrn., H. Aunurohman, T. Widyastuti, dan N. Hidayat. 2017. Kajian potensi hijauan pakan lokal di wilayah KPH Banyumas Timur. *Proceeding Seminar Teknologi dan Agribisnis Peternakan V: Teknologi dan Agribisnis Peternakan untuk Mendukung Ketahanan Pangan*, Fakultas Peternakan Universitas Jenderal Soedirman 18 November 2017; 488-492
- Bahua, I. M. dan M. Limonu. 2014. Hubungan karakteristik petani dengan kompetensi usaha tani jagung di tiga kecamatan di Kabupaten Pohuwato. (Internet): <file:///c:/users/user/downloads/hubungan-karakteristik-peternakan-dengan-kompetensi-usatahani-jagung-di-tiga-kecamatan-di-kabupaten-pohuwato.pdf> (Diakses tanggal 10 Mei, 2020)

- Bakrie, B. 2001. Improvement of nutritive quality of crop by-products using bioprocess technique and their uses for animals. <http://www.ias.unu.edu/Proceedings/icibs/ibs/info/Indonesia/bakrie1.htm>. Diakses 21 Agustus 2021
- Bakkabulindi, F. E. K. 2014. A call for a return to rogers' Innovation diffusion theory. *Makerere J. of Higher Education*, 6 (1): 55 – 85.
- [Balitnak] Balai Penelitian Peternakan. 1997. Analisis Potensi Wilayah di Jawa Barat. Bogor.
- Baker J., M. D. Duffy, and A. Lamberti. 2001. Farm succession in Iowa. Working Paper, Beginning Farmer Center, Iowa
- Bamualin, A.M. dan Z. Muhammad. 2007. Situasi dan keadaan ternak kerbau Indonesia. *Proceeding Seminar dan Lokakarya Nasional Usaha ternak Kerbau*: 32-39.
- Bank Indonesia. 2010. Sistem Informasi Pola Pembiayaan/Lending Model Usaha Kecil. Jakarta.
- Barlas, Y. 2005. Multiple test for validation of system dynamics type of simulation models. *European J. of Operational Res.* 42 (1): 59 – 87.
- Bere, E.K. dan Rifa'i. 2021. Evaluasi karakteristik peternak terhadap produksi sapi bali di Kabupaten Belu, Nusa Tenggara Timur. *J. Agriovet.* 3 (2): 133-144.
- Bernabucci, U., N. Lacetera, L.H. Baumgard, R.P. Rhoads, B.Ronchi, and A. Nardone. 2010. Metabolic and hormonal acclimation to heat stress in domesticated ruminants. *J. Animal.* 4 (7): 1167–1183. <https://doi.org/10.1017/S175173111000090X> (Diakses tanggal 19 Februari, 2018).
- Bettencourt, E. M. V., M. Tilman, V. Narciso, M. L. S. Carvalho, and P. D. S. Henriques. 2014. The role of livestock functions in the well being and development of Timor-Leste rural communities. *LRRD.* 26. <http://www.lrrd.org/lrrd26/4/bett26069.htm> (Diakses tanggal 22 Oktober, 2018).
- Bijman, J., G. Ton, and G. Meijerink. 2007. Empowering Smallholder Farmers in Markets: National and International Policy Initiatives. WUR: Wageningen.
- Blackburn, J. 2011. Measuring Sustainable City; Project Huston. Huston: A. Shell Center for Sustainable White Paper.
- [BPS] Badan Pusat Statistik. 2016. Kecamatan Pulau Moa dalam Angka.
- [BPS] Badan Pusat Statistik. 2017. Kecamatan Pulau Moa dalam Angka.
- [BPS] Badan Pusat Statistik. 2018. Kecamatan Pulau Moa dalam Angka.
- [BPS] Badan Pusat Statistik. 2019. Statistik Indonesia. 07/04/daac1ba18cae1e90706ee58a/ statistik-indonesia-2019.html (Diakses Tanggal 11 Mei, 2020).
- Borec, A., Z. Bohak, J.Turk, and J. Prisenk. 2013. The succession status of family farms in the Mediterranean region of Slovenia. *J. Sociol.* 45 (3): 316-337. https://www.researchgate.net/publication/286074410_The_Succession_Status_of_Family_Farms_in_the_Mediterranean_Region_of_Slovenia (Diakases tanggal 18 April, 2020).

- Borg, L. and P. Groenen. 2005. *Modern Multidimensional Scaling: Theory and Applications* (2nd ed). Springer-Verlag, New York.
- Borges de Oliveira, S.V., A.B. Leoneti, G.M.M Caldo, and M.M. Borges de Oliveira. 2011. Generation of bioenergy and biofertilizer on a sustainable rural property. *Biomass & Bioenergy*. 35 (7): 2608–2618.
- Bourgeois, R. and F. Jesus. 2004. Participatory propective analysis, exploring and anticipating challenges with stakeholders. Center for Alleviation of Poverty through Secondary Crops Development in Asia and The Pacific and French. Agricultural Reasearch Center for Internasional Development Monograph. 46: 1-29.
- Botlhoko, G.J. and O.I. Oladele. 2013. Factors affecting farmers participation in agricultural projects in Ngaka Modiri Molema District North West Province, South Africa. *J Hum Ecol*. 41(3): 201-206.
- Budiari, N.L.G., I.N. Adijaya dan I.N Suteressa. 2021. Potensi limbah jagung manis mendukung ketersediaan pakan ternak sapi bali di Kecamatan Klungkung, Kabupaten Klungkung. *Bul.Tek.Inf.Pertan*. 19 (1): 57-63.
- Budiyanto, K. 2011. Tipologi pendayagunaan kotoran sapi dalam upaya mendukung pertanian organik di desa Sumber Sari Kecamatan Poncokusumo, Kabulaten Malang. *J. Gamma*. F (1): 42-49.
- Cash, D. W. 2001. In order to aid in diffusing useful and practical information: agricultural extension and Boundary Organizations. *Sci. Technol Hum*. 26 (4): 431-453.
- Cassidy, A. and B. Mcgrath. 2015. Farm, place and identity construction among Irish Farm Youth Who Migrate. *J. Rural Stud*. 37 (1): 20 – 28.
- Ceven, S, A.O. Nyatichi, and G. Yansheng. 2010. The cost of climate change in Tanzania: impacts and adaptations. *JAS*. 6(3):182-196.
- Chalid, T., T. Herawati, dan Hastono. 2014. Strategi peningkatan produktivitas kerbau melalui perbaikan pakan dan genetik. *Wartazoa*. 24(2): 83-96.
- Chand, P., S. Sirohi, and S.K. Sirohi. 2015. Development and application of an integrated sustainability index for small-holder dairy farms in Rajasthan, India. *J. Eco. Indicators*. 56:23-30.
- Chantalakhana, C. and P. Sikunmun. 2002. *Sustainable Smallholder Animal System in the Tropic*. Kasetsart University Press.
- Chinchilla, V., J. M.J Woodward-Greene, C. P. Van-Tassell, C. W. Masiga, and M.F. Rothschild. 2018. Predicting live weight of rural African goats using body measurements. *LRRD*. 30. Article #123. Retrieved October 27, 2018, from <http://www.lrrd.org/lrrd30/7/josue30123.html>.
- Collier, R. J., L. H. Baumgard, R. B. Zimbelman, and Y. Xiao. 2019. Heat stress: physiology of acclimation and adaptation. *Anim. Front*. 9 (1): 12–19. <https://doi.org/10.1093/af/vfy031>. (Diakses tanggal 21 Juni, 2020).
- Cooper, D. R. and P.S. Schindler. 2011. *Business Research Methods*. McGraw-Hill International Edition.

- Cornelissen, A.M.G., J. Van den Berg, W.J. Koops, M. Grossman, and H.M.J. Udo. 2001. Assesment of the contribution of sustainability indicators to sustainability development: a novel aproach using fuzzy set theory. *Agric. Ecosyst. Environ.* 86:173-185.
- Crovo O, F. Aburto, C.da Costa-Reidel. 2021. Effects of livestock grazing on soil health and recovery of adegraded Andean Araucaria forest. *Land Degrad Dev.* 2021;32: 4907–4919
- Crowder, L.V. and N. R. Chheda. 1982. *Tropical Grassland Husbandry*. Longman, London and New York.
- Csoto, M. 2010. Information flow in agriculture through new channels for improved effectiveness. *J. of Agrárinformatika*. 1(2): 25-34
- Dahlanuddin., O. Yanuarioanto, D.P Poppi, S.R. McLennan, and S.P. Quigley. 2014. Liveweight gain and feed intake of weaned Bali cattle fed grass and tree legumes in West Nusa Tenggara, Indonesia. *Anim Prod Sci.* 54:915-921.
- Dale, V. H. and S. C. Beyeler. 2001. Challenges in The Development and Use of Ecological Indicators. *Ecological Indicators*. 1: 3 – 10.
- Damry. 2009. Produksi dan kandungan nutrisi hijauan padang penggembalaan alam di Kecamatan Lore Utara, Kabupaten Poso. *J. Agroland* .16 (4): 296-300.
- Das Neves, L.C.M, A. Converti, and T.C. V. Penna.. 2009 Biogas Production: New Trends for Alternative Energy Sources in Rural and Urban Zones. *Chem. Eng. Technol.* 32 (8): 1147–1153
- De Graaf, H. J., C. J. M. Musters, and W. J. T. Keurs. 1996. Sustainable development: Looking for new strategies. *Ecol Econ.* 16: 205–216
- Delia, G., T. Randolph, D. Oumar, and C.P. Henning. 2008. Training farmers in rational drug use improves their management of cattle trypanosomosis: A cluster randomized trial in south Mali. *Preventive Veterinary Medicine.* 83 (1): 83-97.
- De Lima, D. dan C. Ch. E. Latupeirissa. 2020. Pemanfaatan limbah pertanian tanaman pangan sebagai pakan ternak ruminansia di Kecamatan Lolong Guba Kabupaten Buru. *J. Agrinimal.* 8 (2): 57-14.
- Denata, O.S.P., S. F.W, dan M.T.F. Tuhumury. 2020. Sistem pemasaran kerbau di Pulau Moa Kabupaten Maluku Barat Daya. *J.Agrilan.* 8 (3): 279-293
- Dewi, R.P. dan M. Kholik. 2018. Kajian potensi pemanfaatan biogas sebagai salah satu sumber energi alternatif di wilayah Magelang. *JoME.* 2 (1): 9-14.
- Direktorat Budidaya Ternak Ruminansia. 2009. *Pedoman Optimalisasi Penggunaan Bahan Pakan Lokal*. Direktorat Jenderal Peternakan. Departemen Pertanian. Jakarta.
- Ditjen PKH Kementan. 2012. *Penetapan Rumpun/Galur Ternak Indonesia Tahun 2010-2011*. Direktorat Jenderal Pertanian dan Kesehatan Hewan Kementerian Pertanian. Jakarta.

- Djamin, Z. 1993. Perencanaan dan Analisa Proyek. Fakultas Ekonomi Universitas Indonesia. Jakarta.
- Dolhalewan, R., E. Kurnianto, dan Sutopo. 2014. Pola konservasi kerbau Moa dan alternatif konservasinya di Pulau Moa Kabupaten Maluku Barat Daya. *J. Agrinimal*. 3 (2): 72-77.
- Dossa, L.H., B. Rischkowsk, R. Birne, and C. Wollny. 2008. Socio-economic determinants of keeping goats and sheep by rural people in Southern Benin. *Agric.Hum.Values*. 25: 581–592.
- Dudi, C., H. Sumantri, Martojo, dan A. Anang. 2012. Kajian pola pemuliaan kerbau lokal yang berkelanjutan dalam mendukung kecukupan daging nasional. *J. Ilmu Ternak*. 12: 11-19.
- Fadairo, A.O.O. and B.O. Oyelami. 2019. Listenership of Latoju Oja Radio Extension Programme among farmers in Oyo State, Nigeria. *J. Agric. Ext*. 23 (1):66-78.
- FAO. 1989. Sustainable Development and Natural Resources Management. Twenty-Fifth Conference, Paper C 89/2 simp 2, Food and Agriculture Organization, Rome.
- FAO. 2002. Water Buffalo: an Asset Undervalued, pp.1-6. FAO Regional Office for Asia and the Pacific, Bangkok, Thailand. http://www.aphca.org/publications/files/w_buffalo.pdf (Diakses tanggal 21 Mei, 2019).
- FAO. 2004. Carbon Segugstration in dryland soil. <Http://www.fao.org/aocrep/007/y5738c/y5738e00.htm> (Diakses tanggal 21 Mei, 2019).
- FAO. 2005. Buffalo production and research. FAO Regional Office For Europe Inter-Regional Cooprative Research Network on Buffalo (SCORENA). FAO Organization of The United Nations. Roma: 1-2.
- FAO. 2006. Alien Invasive Species: Impacts on forests and forestry - A review. <j6854e/j6854e00.htm> (Diakses tanggal 9 Januari, 2020).
- Farahdiba, A.A., A. Ramdhaniati, dan E.S. Soedjono. 2014. Teknologi dan manajemen program biogas sebagai salah satu energi alternatif yang berkelanjutan di Kabupaten Malang. *J. Inov. Kewirausahaan*. 3(2):14-159.
- Farrell, A. and M. Hart. 1998. What does sustainability really mean? The search for useful indicators. *Environ. Sci. Policy*. 40 (9): 4-9.
- Fauzy, A. dan S. Anna. 2005. Permodelan Sumberdaya Perikanan dan Kelautan untuk Analisis Kebijakan. PT Gramedia Pustaka Utama. Jakarta.
- Fauzi, A. 2013. Analisis Keberlanjutan melalui Rapid Appraisal dan Multidimensional Scaling (RAP+/MDS). Bogor: Program Studi Pengelolaan Sumberdaya Alam dan Lingkungan. Tesis. Sekolah Pascasarjana, Institut Pertanian Bogor.
- Fawole, O. P. and R. Olajide. 2012. Awareness and use of information communication technologies by farmers in Oyo State, Nigeria. *J. Agric. Food Inf*. 13 (4): 326 – 337.
- Firman, A., L. Budimulati, M. Paturochman, and M. Munandar. 2018. Succession models on smallholder dairy farms in Indonesia. *LRRD*. 30. Article

- #176. Retrieved October 26, 2020, from <http://www.lrrd.org/lrrd30/10/achma30176.html>.
- Firmansyah, I. 2018. Eximpro untuk Interpretative Structural Modeling. Eximpro Software. Bogor.
- Fisheries Com. 1999. Rapfish Project. <http://fisheries.com/project/rapfish> (Diakses tanggal 12. Agustus, 2019).
- Fuady I., P. D Lubis, dan R.W.E. Lumintang. 2012. Perilaku komunikasi petani dalam pencarian informasi pertanian organik (kasus petani bawang merah di Desa Srigading Kabupaten Bantul). J.Komun.Pembang. 10 (2):10-18.
- Galloway, L. and R. Mochrie. 2005. The use of ICT in rural firms: a policy-orientated literature review. The J. of Policy, Regulation and Strategy for Telecommunications. 7 (1): 33-46.
- Galopin, G. 2003. A Ysystem Approach to Sustainability and Sustainable Development. Sustainable Development and Human Settlements Division. Nations Unidas. Santiago, Chile.
- Gandini, G.C, and E. Villa. 2003. Analysis of the cultural value of local livestock breeds: a methodology. J. Anim. Breed. Genet. 120 (1), 1–11.
- Gao, F., M. Li, and Y. Nakamori. 2008. Critical systems thinking as a way to manage knowledge. Syst. Dynamics Rev. 20 (1): 3 - 19.
- Ghozali, I. 2011. Aplikasi Analisis Multivariate Dengan Program SPSS. Badan Penerbit Universitas Diponegoro. Semarang.
- Gibson, U.N., S.U Nwbo, C. Nwofoke, C. Igboji, A.N. Ezech, and N.B. Mbam. 2020. Socio-economic determinants of agripneurship choice among Youths in Ebonyi State, Nigeria. J. of Agric. Extension. 24 (1): 24-33.
- Gikaba, J M., K.S. Muthoni, and B.O. Bebe. 2014. Influence of drought duration on livestock feeding practices by Maasai Pastoralists in Kajiado County Kenya. IJIAS. 8 (1): 225-231.
- Guntoro, B., Rochijan, B. P Widyobroto, Indratiningsih, N. Umami, S. Nurtini, and A. Pertiwinigrum, 2015. Constraints of Value Chain in Dairy Industry in Central Java. Proceeding The 6th International Seminar on Tropical Animal Production Integrated Approach in Developing Sustainable Tropical Animal Production October 20-22, 2015, Yogyakarta, Indonesia: 619-623.
- Gylfason, T. 2001. Natural resources, education, and economic development. European Econ.Rev. 45: 847-859.
- Hae, V.H., M. M.M. Kleden, dan S. T. Temu. 2020. Produksi, komposisi botani dan kapasitas tampung hijauan pada padang penggembalaan alam awal musim kemarau di Kabupaten Sumba Timur. JNP. 7 (1): 14-22.
- Hansen, J.W. 1996. Is agricultural sustainability a useful concept?. Agric. Syst. 50(2): 177-143.
- Hardjowigeno, S. 2003. Ilmu Tanah. Ed ke-3. Jakarta (ID): PT. Mediatama Sarana Perkasa. Jakarta
- Hartono, B. and E.S. Rohaeni. 2014. Contribution to income of traditional beef cattle farmer households in Tanah Laut Regency, South Kalimantan,

- Indonesia.LRRD. 26. Article #141. Retrieved February 1, 2019, from <http://www.lrrd.org/lrrd26/8/hart26141.htm>.
- Haryati, U., Haryanto, dan A, Abdurachman. 1995. Pengendalian erosi dan aliran permukaan serta produksi tanaman pangan dengan berbagai teknik konservasi pada tanah Typic Eutropepts di Ungaran. Jawa Tengah. Pembr. Penel. Tanah dan Pupuk. 13: 40-50.
- Hasan, M., A. Sapei., J. Purwanto, dan Sukardi. 2011. Kajian kebijakan pengelolaan sumberdaya air pada Daerah Aliran Sungai Citarum. J. Sumberd. Air. Vol. 7(2), 105- 118.
- Hasdi A. A., A. M. Fuah, dan Salundik. 2015. Analisis keberlanjutan peternakan sapi perah di Wisata Agro Istana Susu Cibugary di Pondok Ranggon Cipayung Jakarta Timur. J.I.Produksi Teknol. Hasil Peternakan. 03 (3):157-165.
- Hasinah, H. 2009. Potensi pengembangan ternak kerbau sebagai sumber daya genetik lokal dalam konteks sosial budaya masyarakat. Proceeding Seminar dan Lokakarya Nasional Kerbau 2009. Brebes, 11-13 Nopember 2009:170-177.
- Hawolambani, Y.U., H.P Nastiti, dan Y.H. Manggol. 2015. Produksi hijauan makanan ternak dan komposisi botani padang penggembalaan alam pada musim hujan di Kecamatan Amarasi Barat Kabupaten Kupang. J. Nukleus Peternak. 2 (1) :59 - 65
- Heinen, J.T. 1994. Emerging, diverging and converging paradigms on sustainable development. Int. J. Sustain. Dev. World Ecol. 1: 23-33.
- Hicks, J., R.Sappey, P. Basu, D.Keogh, and R. Gupta. 2012. Succession planning in Australian farming. Australas. Account. Bus. Finance J. 6 (4), 94-110. <http://ro.uow.edu.au/cgi/viewcontent.cgi?article=1388&context=aabfj> (Diakses tanggal 11 Februari, 2020).
- Hidayanto, M. 2010. Peningkatan produktivitas lahan berkelanjutan untuk perkebunan kakao rakyat di kawasan perbatasan Kalimantan Timur-Malaysia. (Disertasi). Program Studi Pengelolaan Sumberdaya Alam dan Lingkungan, Sekolah Pascasarjana Institut Pertanian Bogor, Bogor.
- Hidayat, N.N., S. Mastuti, R. Widiyanti, dan E. Yuwono. 2021. Analisis trend populasi dan potensi pengembangan ternak kerbau di Provinsi Jawa Tengah. Proceeding Seminar Teknologi dan Agribisnis Peternakan VIII–Webinar: Fakultas Peternakan Universitas Jenderal Soedirman, 24-25 Mei 2021. Purwokerto: 608-615.
- Hilmiati, N., Dahlanuddin, and T. Panjaitan. 2021. Communal grazing area is as a potential source of calves in dry Sumbawa Island, Indonesia: the improvement of opportunities and challenges. The 3rd International Conference of Animal Science and Technology. IOP Conf. Series: Earth and Environmental Science 788 : 1-8.
- Idowu, A.C., A.K. Aromolaran, O. E. Fapojuwo, A.F.O, Ayinde, T Masunaga, and T. Wakatsuki. 2020. Effect of information sources on farmers' adoption of sawah Eco-technology in Nigeria. J. Agric. Ext. 24 (1): 64-74.

- ILRI (International Livestock Research Institute). 1995. Livestock Policy Analysis, ILRI Training Manual 2. ILRI. Nairobi, Kenya.
- Insam, H., M. Gomez-Brandon, and J. Ascher. 2015. Manure-based biogas fermentation residues: Friend or foe of soil fertility? *Soil Biol. Biochem.* 84 (2): 1-14.
- Ikun, A. 2018. Faktor-faktor yang mempengaruhi tingkat populasi ternak kerbau di Kecamatan Biboki Anleu Kabupaten Timor Tengah Utara. *JAS.* 3(3):38-42.
- Jackson, H. L. and Mtengeti E. J. 2005. Assessment of animal manure production, management and utilization in Southern Highlands of Tanzania. *LRRD*. 17. Article #110. Retrieved October 21, 2019, from <http://www.lrrd.org/lrrd17/10/jack17110.htm>.
- Jimenez, E.A., J.G Gonza;ez, M.T Amaral, and F.L. Fredou. 2021. Sustainability indicators for the integrated assessment of coastal small-scale fisheries in the Brazilian Amazon. *J. Ecoecon.* 181: 10-19.
- Kalangia, L S., Y.Syaukat, S.U Kuntjoro and A. Priyanti. 2016. Factors affecting profit analysis of beef cattle farming in East Java, Indonesia. *LRRD*. 28: Article #226. Retrieved September 21, 2021, from <http://www.lrrd.org/lrrd28/12/kala28226.htm>.
- Kamba, M. A. 2009. An overview of the provision of information for rural development in Nigeria. *Samaru. J. of Information Studies.* 9 (1): 14-17. Retrieved July 5 2019 from http://www.academia.edu/641187/An_Overview_of_the_Provision_of_Information_for_Rural_Development_in_Nigeria.
- Kasim, S. A. 2000. *Ekonomi Produksi Pertanian*. Fakultas Pertanian Unlam. Banjar Baru.
- Kavanagh, P. F. 2001. *Rapid Appraisal of Fisheries (Rapfish) Project*. Rapfish Software Des Eruption (For Microsoft Excel). University of British Columbia. Fisheries Centre. Vancouver.
- Kavanagh, P. F. and T.J. Pitcher. 2004. *Implementing Microsoft Excel Software for Rapfish: A Technique for The Rapid Appraisal of Fisheries Status*. Canada: Fisheries Center University of British Columbia.
- Kavana, P Y., J.B. Kizima, and Y.N. Msanga. 2005. Evaluation of grazing pattern and sustainability of feed resources in pastoral areas of eastern zone of Tanzania. *LLRD*. 17, Art. #5. Retrieved August 21, 2021, from <http://www.lrrd.org/lrrd17/1/kava17005.htm>
- Kay, R. and J. Alder. 1999. *Coastal Planning and Mangement*. Routledge. New York.
- Kebede, D. 2016. Impact of climate change on livestock productive and reproductive performance. *LRRD*. 28. Article #227. Retrieved September 23, 2021, from <http://www.lrrd.org/lrrd28/12/kebe28227.htm>
- Kementerian Komunikasi dan Informasi Indonesia. 2015. *Pemanfaatan dan Pemberdayaan Teknologi Informasi dan Komunikasi Pada Petani dan Nelayan (Survey Rumah Tangga Best Practices)* edisi 2015. Pusat

Penelitian dan Pengembangan Penyelenggaraan Pos dan Informatika.
Badan Penelitian dan Pengembangan Sumber Daya Manusia Kementerian
Komunikasi dan Informatika. Jakarta.

Komariah., Burhanuddin, dan N. Permatasari. 2018. Analisis potensi dan pengembangan kerbau lumpur di Kabupaten Serang. JIPTHP. 06 (3): 90-97.

Konlan, S. P., A.A. Ayantunde, W.Addah, H.K. Dei, and F.K. Avornyo. 2016. Evaluation of feed resource availability for ruminant production in northern Ghana. Int. J. Livest. Res. 6. Article# 6: 39-59. doi:10.5455/ijlr.20160613094759 (Diakses tanggal 15 September, 2019).

Kushartono, B. dan N. Iriani. 2004. Inventarisasi Keanekaragaman Pakan Hijauan Guna Mendukung Sumber Pakan Ruminansia. Prosiding Temu Teknis Nasional Tenaga Fungsional Pertanian. Pusat Penelitian dan Pengembangan Peternakan. Bogor: 66-71.

Kusnadi, U. 2007. Kelayakan usaha kerbau untuk penghasil bibit dan daging di beberapa agroekosistem. Proceeding Seminar Nasional Teknologi Peternakan dan Veteriner. Puslitbang Peternakan, Bogor, 13-14 Agustus 2008:186-192.

Kusnadi, U., D.A. Kusumaningrum, R.G. Sianturi, dan E. Triwulanningsih. 2005. Fungsi dan peranan kerbau dalam sistem usahatani di Propinsi Banten. Proceeding Seminar Nasional Teknologi Peternakan dan Veteriner. 17–18 September 2005. Puslitbang Peternakan, Bogor: 316 – 322.

Lakitan, B. 2011. Dasar-Dasar Fisiologi Tumbuhan. Cetakan ke-10. Raja Grafindo Persada. Jakarta.

Lamy, E. S., van Harten, E. S.Baptista, M.M.M Guerra, and A. M.de Almeida. 2012. Factors Influencing Livestock Productivity. Environmental Stress and Amelioration in Livestock Production.

Lansamputty, J., W. Roessali, S.I. Santoso, and B.T. Eddy. 2017. Determinant of household business scale of Moa Buffaloes at Moa Island Southwest Maluku Regency. IOP Conf: Series: Earth and Enviromental Science. 119: 1-9.

Lainsamputty, J.M. 2021. Analisis potensi individu peternak Kerbau Moa di Pulau Moa Provinsi Maluku. Jago Tolis.1 (2): 45-50.

Lemcke, B. 2010. Production Parameters from Different Breeds. of Water Buffalo in Australia. Proc. 9th World Buffalo Congress, Brazil.

Lobley, M., B.J. Baker, and I. Whitehead. 2010. Farm succession and retirement: some international comparisons. J. of Agric, Food Systems, and Community Development. 1 (1): 49-64. (Diakses tanggal 20 Juni, 2016).

Majja, M. and R. D. Bahur. 2008. Rural non-farm employment and incomes in the Himalayas. Economic Development and Cultural Change (EDCC). 57 (1): 163-193.

Maleko, D. D. and M. L. Koipapi. 2015. Opportunities and constraints for overcoming dry season livestock feed shortages in communal semi-arid rangelands of Northern Tanzania: A case of Longido District. LRRD. 27.

Article #70. Retrieved October 7, 2019, from <http://www.lrrd.org/lrrd27/4/male27070.html>.

- Malhotra, N.K. 2006. Riset Pemasaran: Pendekatan Terapan. PT Indeks Gramedia, Jakarta.
- Malika U.E and H.A. Hudori. 2021. Rapid appraisal: a sustainability analysis of dairy cattle agribusiness based on resources accessibility. The 3rd International Conference On Food and Agriculture. IOP Conference Series: Earth and Environmental Science. 672:1-8.
- Manu, A. E. 2013. Produktivitas padang penggembalaan sabana Timor Barat. J. Pastura. 3 (1): 25-29.
- Mariyam., S. Muliani, K. Muhammad, dan Nurlaila. 2016. Reduksi pencemaran limbah ternak sapi dengan pengolahan menjadi pupuk organik untuk mendukung Go-Organik di Desa Gona Kecamatan Kajua Kabupaten Bone Sulawesi Selatan. J. Dinamika Pengabdian. 2 (1): 55-63.
- Markvichitr, K. 2006. Role of reactive oxygen species in the buffalo sperm fertility assessment. Proceeding International Seminar The Artificial Reproductive Biotechnologies for Buffaloes. ICARD and FFTC-ASPAC Bogor, Indonesia. Augustus 29 - 31, 2006: 68 - 78.
- Martínez-García, C. G., P. Dorward, and T. Rehman. 2012. Farm and socio-economic characteristics of smallholder milk farmers and their influence on technology adoption in Central Mexico. Trop. Anim. Health Prod. 44 (6): 1199–1211.
- Masikati, P. 2010. Improving the water productivity of integrated crop livestock systems in the semiarid tropics of Zimbabwe: an ex ante analysis using simulation modeling. Retrieved September 17, 2017,
- Mastuti, R., F. Alham, C. Gustiana, H. Hanisah, M. Jamil, M. Muslimah and R. Rozalina. 2019. Sustainability of technological dimension in dairy agribusiness. Annual Conference of Science and Technology Journal of Physics: Conference Series 1375. IOP Publishing: 1-9.
- Matitaputty, P. R., Yusuf, dan J.F. Salamen. 2017. Pengelolaan sumber daya genetik rumpun ternak kerbau Moa dalam sosial budaya lokal masyarakat Maluku Barat Daya. Pembangunan Pertanian Wilayah Berbasis Kearifan Lokal dan Kemitraan. Badan Penelitian dan Pengembangan Pertanian Kementerian Pertanian Jakarta: 246-263.
- Matassino, D. dan A Cappuccio. 1998. Costs of animal products and standard of living. Proceeding of the 8th World Conference on Animal Production. Seul. June 28-July 4, 1998. Seoul National University. Seoul. Korea.
- Mburu, S., J. Njuki, and J. Kariuki. 2012. Intra-household access to livestock information and financial services in Kenya. LRRD. 24. Article #38. Retrieved November 6, 2020, from <http://www.lrrd.org/lrrd24/2/mbur24038.htm>.
- McDermott, J.J., S.J. Staal, H.A. Freeman, M. Herrero, and J.A. Van de Steeg. 2010. Sustaining Intensification of smallholder livestock systems in the tropics. Livest. Sci. 130: 95–109.

- Mc-Ilroy, R. J. 1976. Pengantar Budidaya Padang Rumput Tropika. Diterjemahkan oleh S. Susetyo, Soedarmadi, I. Kismono dan S. Harini I.S. Pradnya Paramita. Jakarta.
- Memon, A. and A. M. Khushk. 2004. Economic analysis of buffalo dairy farms in Sindh. *Indus J. of Biological Sciences*. 1 (2): 231-240.
- Minde, G.P., S.S. Magdum, and V. Kalyanraman. 2013. Biogas as a sustainable alternative for current energy need of India. *J. Sust. Energy Environ*. 4 (3): 121-132.
- Mosher, A. T. 1991. *Getting Agriculture Moving*. Frederick A. Praeger, Inc. Publishers. New York.
- Mubiyarto. 1989. *Pengantar Ekonomi Pertanian*. Lembaga Pendidikan dan Penerangan Ekonomi dan Sosial, Jakarta.
- Muddassir, M., M.S. Al Shenaifi, K.H. Salah, A.B. Alhafi. 2020. Adoption of improved maize production technologies in Punjab Province, Pakistan. *J. Agric. Ext*. 24 (2): 1-11.
- Muhajirin., Despal, dan Khalil. 2017. Pemenuhan kebutuhan nutrisi sapi potong bibit yang digembalakan di padang Mengantas. *Buletin Makanan Ternak*. 104 (1): 9-20.
- Mujuni, A., K. Natukunda, and D.R. Kugonza. 2012. Factors affecting the adoption of beekeeping and associated technologies in Bushenyi District, Western Uganda. *LRRD*. 24. Article #133. Retrieved January 18, 2019, from <http://www.lrrd.org/lrrd24/8/muju24133.htm>.
- Munyua, H. 2000. Application ICTs in Africa Agricultural Sector: a gender perspective. Canada, Canada International Development Research Centre: 85-87.
- Mulijanti, L. S. dan A. Sinaga. 2016. Efektivitas pendampingan teknologi tanam jajar legowo terhadap perubahan sikap dan pengetahuan petani di Kabupaten Sumedang Jawa Barat. (Internet): https://pse.litbang.pertanian.go.id/ind/pdf/prosiding_2016/1_2.pdf. (Diakses tanggal 07 Juni, 2020).
- Muniappan, R. and D. Nandwani. 2002. Survey of arthropod pests and invasive weeds in the Republic of the Marshall Islands. Publication #1, College of the Marshall Islands: 1–15.
- Munasinghe, M. 1993. *Environmental Economics and Sustainable Development*. World Bank Environment Paper Number 3. The World Bank. Washington D.C.
- Munthalib, H.A. 2006. Potensi sumber daya ternak kerbau di Nusa Tenggara Bara. *Proceeding Lokakarya Nasional Usaha Ternak Kerbau Mendukung Program Kecukupan Daging Sapi*. Sumbawa, 4-5 Agustus 2006. Puslitbang Peternakan Bogor: 64-72.
- Muzzo, B. I. and F.D. Provenza. 2018. A review of strategies for overcoming challenges of beef production in Tanzania. *LRRD*. 30. Article #199. Retrieved November 17, 2020, from <http://www.lrrd.org/lrrd30/12/iddy30199.html>.

- Mwilawa, A J., D.M. Komwihangilo, and M. L Kusekwa. 2008. Conservation of forage resources for increasing livestock productivity in traditional forage reserves in Tanzania. *Afrika. J. Eco.* 46: 85-89.
- Mwakaje, A. G. 2010. Information and Communication Technology for Rural Farmers Market Access in Tanzania. *J. Inf. Technol. Impact.* 10:111-128. Retrieved January 12, 2015 from <http://www.jiti.com/v10/jiti.v10n2.111-128.pdf>.
- Ngongo, Y., D.K. Hau, N. Kotta, and J. Nulik. 2021. Forage tree legumes and sustainable upland farming in Timor Island – Indonesia. IC-FSSAT 2021. IOP Conf. Series: Earth and Environmental Science. 807: 1-8.
- Nkoa, R. 2014. Agricultural benefits and environmental risks of soil fertilization with anaerobic digestates: A review. *Agron. Sust. Dev.* 34 (3): 473-492.
- Nanda, A. S. and T. Nakao, 2003. Role of buffalo in the socioeconomic development of rural Asia: Current status and future prospectus. *Anim. Sci. J.* 74: 443 – 455.
- Nardone, A., B. Ronchi, N.Lacetera. M.S. Ranieri, and U. Bernabucci. 2010. Effects of climate changes on animal production and sustainability of livestock systems. *Livest. Sci.*130 (1): 57-69.
- National Research Council. 1984. Nutrient Requirement of Beef Cattle. 6Th rev.ed. Washington DC: National Academy Press.
- Nazam, M., S. Sabiham, B. Pramudya, Widiatmaka, dan I. W. Rusastra. 2011 Penetapan luas lahan optimum usahatani padi sawah mendukung kemandirian pangan berkelanjutan di Nusa Tenggara Barat. *J. Agro Ekon.* 29 (2): 113 – 145.
- Njau, F. B. C., J. Lwelamira, and C. Hyandye. 2013. Ruminant livestock production and quality of pastures in the communal grazing land of semi arid central Tanzania. *LRRD.* 25. *Article #146*. Retrieved September 30, 2021, from <http://www.lrrd.org/lrrd25/8/Njau25146.htm>
- Nsoanya, L. N. and M. G. Nenna. 2011. Adoption of improved cassava production technologies in Anambra-East Local Government Area of Anambra State, Nigeria. *J. of Research for International Development.* 9 (2): 36 – 43.
- Nsoso, S. J., M. Monhkei, and O.M. Modise. 2005. A survey of Indigenous Tswana Farmers in some extension areas of Kgatleng Agricultural Districts in Botswana: Demographic, production and marketing parameters. *Botswana J. of Agricul. and Applied Sci.* 1(1):10-18.
- Nurfaizin, dan R. R. Matitaputty. 2017. Karakteristik sifat kuantitatif dan kualitatif kambing lokal di Pulau Moa, Provinsi Maluku. *Proceeding Seminar Nasional Teknologi Peternakan dan Veteriner:* 322-328.
- Nurkholis., S. Nusantara, A. Awaludin, M. Adhyatma, dan B. Djuni. 2021. Pemanfaatan kotoran ternak sebagai sumber energi alternatif di Kelompok ternak sapi potong Sido Makmur Umbul Sari Jember. *JoCD* 1 (2): 100-104.

- Nurmalina, R. 2008. Analysis of Sustainability Index and Status of Rice Availability System in Several Regions in Indonesia. *J. Agro Economic*. 26 (1): 47-79.
- Olwande, J. M., Smale, M. K. Mathenge, F. Place, and D. Mithöfer. 2015. Agricultural marketing by smallholders in Kenya: A comparison of maize, kale and dairy. *Food Policy*. 52: 22-32.
- Onesimus, Y., A. Supriyanton, T. Widayati, dan I. Sumpe. 2015. Komposisi botani dan persebaran jenis-jenis hijauan lokal padang penggembalaan alam di Papua Barat. *J. Pastura*. 4 (2): 62 -65.
- Opschoor, H. 2000. The ecological footprint: measuring rod or metaphor. *Ecol. Econ*. 32 (3): 363-365.
- Ora, F.H. 2015. Padang Penggembalaan Daerah Tropis. Deepublish. Yogyakarta.
- Orgill, M., L. Gilson, and W. Chitha. 2019. A qualitative study of the dissemination and diffusion of innovations: bottom up experiences of senior managers in three health districts in South Africa. *Int. J. Equity Health*. 18 (1): 53-67.
- Orskov, E.R., K.Y. Anchang, M. Subedi, and J. Smith. 2014. Overview of holistic application of biogas for small scale farmers in Sub-Saharan Africa. *Biomass and Bioenergy*. 70 (4): 4-16.
- Osak, R. E., M. F, B. Hartono, Z. Fanani, and H.D. Utami. 2015. Biogas and bioslurry utilization on dairy-horticulture integrated farming system in Tutar Nongkojajar, District of Pasuruan, East Java, Indonesia. *LRRD*. 27, Article #65. Retrieved September 1, 2021, from <http://www.lrrd.org/lrrd27/4/osak27065.htm>.
- Paltasingh, K. R. And P Goyari. 2018. Impact of farmer education on farm productivity under varying technologies: case of paddy growers in India. *Agric and Food Economics*. 6 (1):1-19.
- Pasha,T. N. and Z. Hayat. 2012. Present situation and future perspective of buffalo production in Asian. *J. Anim.Plant Sci*. 22 (3): 250-256.
- Phanthavongs, S. and U. Saikia. 2013. Biogas digesters in small pig farming systems in Lao PDR: evidence of an impact. *LRRD*. 25. Article #216. Retrieved October 21, 2019, from <http://www.lrrd.org/lrrd25/12/phan25216.htm>.
- Pitcher, T.J. 1999. Rapfish, A Rapid Appraisal Technique For Fisheries, And Its Application to The Code of Conduct For Responsible Fisheries. *FAO Fisheries Circular*. No.947.
- Pitcher, T.J. and D. Preikshot. 2001. RAPFISH: a rapid appraisal technique to evaluate the sustainability status of fisheries. *Fisheries Research* 49.
- Pitcher, T.J., M.E. Lam, C. Ainsworth, A. Martindale. K. Nakamura, R.I. Perry, and T. Ward. 2013. Improvements to Rapfish: A Rapid Evaluation Technique for Fisheries Integrating Ecological and Human Dimensions. *J. Fish Biol*. 83 (4): 865-889.

- Polhaupessy, U. 2004. Pengembangan plasma nutfah Kerbau Moa. Laporan Penelitian. Kerjasama Dinas Peternakan dan Jurusan Peternakan Fakultas Pertanian Universitas Pattimura. Ambon.
- Power, A. G. 2010. Ecosystem services and agriculture: tradeoffs and synergies. *Philosophical Transactions of the Royal Society*. 365: 2959-2971.
- Praharani, L. dan E. Triwulanningsih. 2008. Karakterisasi bibit kerbau pada agroekosistem dataran tinggi. *Proceeding. Seminar dan Lokakarya Nasional. Usaha ternak kerbau*. Jambi, 22 – 23 Juni 2007. Puslitbang Peternakan, Bogor: 113 – 1 23.
- Praptiwi, I.I., D.S. Susanti, A.T. Damayanti, Y Mangera, dan N. Umami. 2017. Potensi berbagi jenis vegetasi sebagai hijauan pakan ternak di padang penggembalaan Kampung Sota, Kabupaten Merauke. *J. Agricola*. 7 (1): 15-24.
- Prawesti, N., R. Witjaksono, dan A.B. Raya. 2010. Motivasi Anak Petani menjadi Petani. *J. Agro. Ekonomi* 17 (1): 11-18.
- Prawiradiputra, B. R. 1985. Perubahan Komposisi Vegetasi Padang Rumput Alam akibat Pengendalian Ki Rinyuh (*Chromolaena odorata* (L) R.M. King and H. Robinson) di Jonggol, Jawa Barat. Thesis. Fakultas Pascasarjana Institut Pertanian Bogor. Bogor.
- Rahardi, F. dan R. Hartono. 2003. Agribisnis Peternakan. P.T. Penebar Swadaya, Jakarta.
- Rahayu, A., A. N. Bambang, dan G. Hardiman. 2013. Strategi peningkatan status keberlanjutan kota Batu sebagai kawasan agropolitan. *J. Ekosains*. 5 (1): 21-34.
- Rahetlah, V. B., J.M. Randrianaivoarivony, B. Andrianarisoa, and V. L. Ramalanjaona. 2014. Yield response of elephant grass (*Pennisetum purpureum*) to guano organic fertilizer in the Highlands of Madagascar. *LRRD*. 26. Article #3. Retrieved December 2, 2020, from <http://www.lrrd.org/lrrd26/1/rahe26003.htm>.
- Ramadhan, D.R., S. Mulatsih, dan A.A. Amin. 2015. Keberlanjutan sistem, budidaya ternak sapi perah pada peternakan rakyat di Kabupaten Bogor. *JAE*. 33 (1): 51-72.
- Randu, M.D.S. dan B. Hartono. 2020. Keberlanjutan dimensi ekonomi, teknologi infrastruktur dan hukum kelembagaan untuk evaluasi pengembangan Kuda Sandelwood di Kabupaten Sumba Barat Daya. *J. Sains Peternak. Indonesia*. 5 (1): 50-59.
- Rao, N. H. 2006. A framework for implementing information and communication technologies in agricultural development in India. *Technol. Forecast Soc. Change*. 74 (4): 491-518.
- Reggeti, J. and R. Rodrigues. 2004. *Proceeding 7th World Buffalo Congress*. 20 – 23 October, 2004: 55 – 58. Makati City, Philippines.
- Risna., Asnidar., M. Dewi., M. Amin, dan A.B.L. Ishak. 2017. Perubahan perilaku peternak pada kegiatan sekolah lapang pendampingan pengembangan kawasan peternakan sapi potong di Sulawesi Tengah. *Prosiding Seminar*

- Nasional Teknologi Peternakan dan Veteriner 2017. DOI: <http://dx.doi.org/10.14334/Pros.Semnas.TPV-2017:228-236> (Diakses tanggal 14 Maret, 2020).
- Ristianingrum A., M.A. Chozin, Machfud, Sugiyanta, dan S. Mulatsih. 2016. Optimalisasi keberlanjutan pengembangan usaha padi organik di kabupaten Cianjur, Jawa Barat. *Jurnal Manajemen dan Agribisnis*. Vol 13 (1):37-49.
- Rivai, R.S. dan I. S. Anugerah. 2011. Konsep dan implementasi pertanian berkelanjutan di Indonesia. *Forum Penelitian Agro Ekonomi*. 29 (1): 13 – 25.
- Rohaeni, E. S. 2014. Analisis potensi wilayah untuk pengembangan usaha ternak sapi potong di Kabupaten Tanah Laut Kalimantan Selatan. *Proceeding Seminar Nasional. Balai Pengkajian Teknologi Pertanian (BPTP) Kalimantan Selatan*. Banjarbaru, 6-7 Agustus 2014: 493-501.
- Rowlinson, P. 2008. Adapting livestock production systems to climate change temperate zones. *Proceeding International Conference Livestock and Global Climate Change 2008*. 17-20 May, 2008 Hammamet, Tunisia: 61-63.
- [RPJMD] Rencana Pembangunan Jangka Menengah Daerah Kabupaten Maluku Barat Daya. 2016. Maluku Barat Daya. Provinsi Maluku.
- Ruhimat, I.S. 2017. Peningkatan kapasitas kelembagaan kelompok tani dalam pengembangan usahatani agroforestry: studi kasus di Desa Cukangkawung, Kecamatan Sodonghilir, Kabupaten Tasikmalaya, Provinsi Jawa Barat. *J.Penelit. Sosial dan Ekonomi Kehutan*. 14 (1): 1-17.
- Rusastra, I. W. 2011. Kinerja industri peternakan: isu dan kebijakan antisipasi peningkatan produksi dan daya saing. *Makalah Presentase dalam Lokakarya RPJP Puslitbang Peternakan Pada Tanggal 27 Januari 2011*. Bogor.
- Rusdiana., I.G.M Budiharsana, dan Sumanto. 2014. Analisis pendapatan usaha pertanian dan peternakan kerbau di Lombok, Nusa Tenggara Barat. *JAREE*. 2: 56-67
- Saida., S. Sabiham, S. H.Sutjahjo, dan Widiatmaka. 2012. Analisis keberlanjutan usahatani hortikultura buah-buahan pada lahan berlereng di hulu DAS Jeneberang. *J. Ilmiah Bertani*. 6 (2): 162-177.
- Salamena, J.F., B.J. Papilaja, dan P.M. Ririmase. 2009. Karakterisasi dan identifikasi produktivitas kerbau di pulau Moa kabupaten Maluku Barat Daya Provinsi Maluku. *Laporan Penelitian Hibah Penelitian Strategi Nasional. Universitas Pattimura, Ambon*.
- Salamena, J.F., I. Sangadji, J.M. Tatipikalawan, B.J. Papilaya, T.N Tiven, D. De Lima, D. Malle. 2015. Kajian strategis pembangunan industri peternakan berbasis pemberdayaan masyarakat di Provinsi Maluku. *Laporan Penelitian. Kerjasama Dinas Pertanian Provinsi Maluku dan Jurusan Peternakan Faperta Unpatti. Ambon*.
- Santoso. 2005. Analisis Statistik dengan Microsoff Excel dan SPSS. Andi Offset, Yogyakarta.

- Santoso, M.C., I.A.D Giriantari, dan W.G. Ariastini. 2019. Studi pemanfaatan kotoran ternak untuk pembangkit listrik tenaga biogas di Bali. *J. Spektrum*. 6 (4): 58-65.
- Sarandon, S. J. and C. C. Flores. 2009. Evaluación de la sustentabilidad en agroecosistemas: una propuesta metodológica. *Agroecología*. 4: 19-28.
- Sari, E.M., M. A. N. Abd, dan Sulaiman. 2015. Kajian aspek teknis pemeliharaan kerbau lokal di Kabupaten Gayo Lues. *Agripet*. 15 (1): 57-60.
- Saragih, B. and T. Sipayung. 2002. Biological utilization in developmentalism and environmentalism. Paper Presented at the International Seminar on Natural Resources Accounting Environmental Economic Held in Yogyakarta, Indonesia, April 29.
- Schwalbach, L. M., I.B. Groenewald, and C.B. Marfo. 2001. A survey of smallscale cattle farming systems in the North West Province of South Africa. *South Afri. J. Anim. Sci*. 31 (3): 200-204.
- Sejian, V., V.P. Maurya, K.C. Sharma, and S. M. K. Naqvi. 2012. Concept of multiple stresses and its significance on livestock productivity, in: Sejian V, Naqvi S.M.K., T. Ezeji., J. Lakritz., R.Lal (Eds.), *Environmental Stress and Amelioration in Livestock Production*. Springer Berlin Heidelberg, Berlin, Heidelberg: 129–150. https://doi.org/10.1007/978-3-642-29205-7_6 (Diakses tanggal 27 Mei, 2019).
- Senanayake, R. 1991. Sustainable agriculture: definition and parameters for measurement. *J. Sustain. Agric*. 1 (4): 7 – 28.
- Sethi, R. K. 2003. Improving riverine and swamp buffaloes through breeding. *Proceedings of the Fourth Asian Buffalo Congress, New Delhi, India*. 25-28 Februari: 51-60.
- Shelton, H. M. 2000. Tropical forage tree legumes in agroforestry systems *J. Unasylva*. 51: 25-32
- Siba, F. G., I. W. Suarna, dan N. N. Suryani. 2017. Evaluasi padang penggembalaan alami Maronggela di Kabupaten Ngada Provinsi Nusa Tenggara Timur. *Majalah Ilmiah Peternakan*. 20 (1) :1-4.
- Simanungkalit, R. D. M., D. A. Suriadikarta, R. Saraswati, D. Setyorini, dan W. Hartatik. 2006. Pupuk organik dan pupuk hayati. Balai Besar Litbang Sumberdaya Lahan Pertanian, Badan Penelitian dan Pengembangan Pertanian. Bogor: 58-82.
- Siregar, S. B. 1994. *Ransum Ternak Ruminansia*, Penebar Swadaya, Jakarta.
- Situngkir, S., L. Pulina, dan Erida. 2007. Peranan ibu rumah tangga dalam meningkatkan pendapatan keluarga (Kasus: Pedagang Sayur di Kota Madya Jambi). *J. Manaj. Pembang*. Ed. 7 Juli 2007.
- Smith, C. S. and G. T. McDonald. 1998. Accessing the sustainability of agriculture at the planning stage. *J. of Environmental Management*. 52:15 – 37.
- Soekanto, S. 2009. *Sosiologi Suatu Pengantar*. Raja Grafindo Perkasa. Jakarta.

- Suhandi., Nurcahayati, dan Y.A. Padang. 2011. Meningkatkan kualitas biogas dengan penambahan gula. *J. Tek. Rekayasa*. 12 (1): 10-18.
- Suhubdy. 2005. Teknologi pakansia: Teknologi efektif untuk penyajian pakan ternak ruminansia. Naskah Teknologi tepat guna pertanian dan rancang bangun. Anugerah Teknologi Tepat Guna oleh Gubernur NTB, 17 Desember 2005:1-7.
- Sumiati. 2011. Analisis kelayakan finansial dan faktor-faktor yang memotivasi peternak dalam kegiatan agroforesti. Tesis. Institut Pertanian Bogor. Bogor.
- Suresti, A., R Wati, dan I. Indrayani. 2013. Analisis potensi sumber daya manusia untuk pengembangan usaha peternakan sapi potong di Kabupaten Pesisir Selatan. *JPI*. 15 (1): 7-16
- Sutarto. 2008. Hubungan sosial ekonomi peternak dengan tingkat adopsi inovasi teknologi komoditas jagung di Sidoharjo Wonogiri. file://C:/Users/User/Downloads/ Agritex-1.pdf. (Diakses tanggal 07 Juni, 2016).
- Suwarno, J. 2011. Pengembangan kebijakan pengelolaan berkelanjutan DAS Ciliwung Hulu, Kabupaten Bogor. Disertasi. Program Studi Pengelolaan Sumberdaya Alam dan Lingkungan, Sekolah Pascasarjana, Institut Pertanian Bogor, Bogor.
- Suyitman. 2010. Model pengembangan kawasan agropolitan keberlanjutan berbasis peternakan sapi potong terpadu di Kabupaten Situbondo. Disertasi. Institut Pertanian Bogor. Bogor.
- Suyitman, S.H., Sutjahjo, dan A. Djulardi. 2012. Status keberlanjutan wilayah berbasis peternakan sapi potong terpadu di Kabupaten Lima Puluh Kota Sumatera Barat. *J. Peternak. Indonesia*. 14 (1): 318-336.
- Stock, C. D., R. I. Papandick, K. E. Saxton, G. S. Campbell, and F. K. Van Evert. 1994. A Frame Work For Evaluating The Sustainability of Agricultural Production Systems. *American J. of Alternative Agricu*. 9 (1): 45 – 50.
- Suharto, E. 2005. Membangun Masyarakat dan Memberdayakan Rakyat. Kajian Strategis Pembangunan kesejahteraan Sosial dan Pekerjaan Sosial. Rafika Aditama. Bandung.
- Supardi S., S. Haryadi, dan A. Fahrudin. 2017. Analisis keberlanjutan pembangunan Kota Tepian Pantai (Studi kasus: Kota Baubau Provinsi Sulawesi Tenggara). *J. Wil. Lingkung*. 5 (3):188-204.
- Suherman, D. dan I. Herdiawan. 2014. Tanaman legum pohon *Desmodium rensonii* sebagai tanaman pakan ternak bermutu. *J. Pastura*. 4 (2): 100-104.
- Sukananta I.K, Dukat dan A.Yuniati. 2015. Hubungan karakteristik dan motivasi petani dengan kinerja kelompok tani Studi Kasus Desa Cisaat Kecamatan Dukupuntang). *J. Agrijati*. 20 (1): 17-34.
- Sutanto, A. dan L. Hendraningsih. 2011. Analisis keberlanjutan usaha sapi perah di Kecamatan Ngantang Kabupaten Malang. *J. Gamma*. 7 (1): 1-12.
- Syamsu, J. A., A. Lily, Sofyan, K. Mudikdjo, dan E. G. Said, 2003. Daya dukung limbah pertanian sebagai sumber pakan ternak ruminansia di Indonesia. *J. Wartazoa*. 13: 32-37.

- Tang S., Z. Guan, and S. Jin. 2010. Formal and Informal credit markets and rural credit demand in China. Selected Paper prepared for presentation at the Agricultural & Applied Economics Associations 2010 AAEA, CAES & WAEA Joint Annual Meeting, Denver, Colorado.
- Tavares, L., E. Baliarti, C. T. Noviandi, T. S. M. Widi. 2018. Produksi hijauan padang penggembalaan alam di Posto Administrativo Balibo dan Atabae, Municipio Bobonaro, Timor-Leste. Proceeding Seminar Teknologi dan Agribisnis Peternakan VI: Pengembangan Sumber Daya Genetik Ternak Lokal Menuju Swasembada Pangan Hewani ASUH, Fakultas Peternakan Universitas Jenderal Soedirman. 7 Juli 2018: 239-242.
- Tessema, Z., A. Ashagre, and M. Solomon. 2010. Botanical composition, yield and nutritional quality of grass land in relation to stages of harvesting and fertilizer application in the highlands of Ethiopia. Afrika. J. Range Forage Sci. 27 (3): 117 -124.
- Thamrin, S.H., Sutjahjo, C. Herison, dan S. Bilaham. 2007. Analisis keberlanjutan wilayah perbatasan Kalimantan Barat-Malaysia untuk mengembangkan kawasan Agropolitan; Studi Kasus Kecamatan Bengkayang. J.Agro Ekonomi. 25 (2):103-124.
- Thornton, P.K. and M. Herrero. 2010. Potential for reduced methane and carbon dioxide emissions from livestock and pasture management in the tropics. Proceeding of the National Academy of Sciences. 107 (46): 19667-19672.
- Tiro, B. M.W., F. Palobo, A. Petrus, Beding, dan M. Thamrin. 2020. Kajian dinamika bobot badan sapi potong dan potensi pakan di Kabupaten Marauke, J. Pertani. agros.22 (2): 113 -127.
- Tjitropranoto, P. 2003. Penyuluhan Pertanian Masa Kini dan Masa Depan. "Dalam Membentuk Pola Perilaku Manusia Pembangunan. IPB Press. Bogor.
- Tolera, A., R. C. Merkel, A. L Goetsch, T. Sahlu, and T. Negesse. 2000. Nutritional constraints and future prospects for goat production in East Africa. In: Merkel R C, Abebe G and Goetsch A L (eds.). The opportunities and challenges of enhancing goat production in East Africa. Proceedings of a conference held at Debub University, Awassa, Ethiopia from November 10 to 12, 2000. E (Kika) de la Garza Institute for Goat Research, Langston University, Langston, OK:43-57.
- Tolera, A. and A. Abebe. 2007. Livestock production in pastoral and agro-pastoral production systems of southern Ethiopia. LRRD. 19. Article #177. Retrieved September 24, 2020, from <http://www.lrrd.org/lrrd19/12/tole19177.htm>.
- Tonglolangi, Y.Y. 2014. Teknologi biogas dari kotoran ternak sebagai sumber energi alternatif. JDS. 1 (1): 1- 4.
- Triwulanningsih, E. 2005. Laporan Hasil Penelitian Breeding dan Reproduksi Ternak Kerbau di Indonesia Balitnak, Ciawi, Bogor.
- UNESCO. 2017. Education for sustainability http://www.portal.unesco.org/en/files/5202/10421363810lessons_learned.doc/lessons_learned. (Diakses Tanggal 22 Oktober, 2018).

- United Nations. 2005. World Summit Sustainable Development. United Nations. Johannesburg.
- Utami, A. S. J. 2021. Potensi dan kendala pengembangan kerbau (bubbalus bubalis) dalam masyarakat Bali. *Bul.Tek.Inf.Pertan.* 18 (3): 213-220.
- Usman., Hasan, M. M.Hanafi, M.A. Kaharm, dan Elihami. 2020. Pemanfaatan kotoran ternak sebagai bahan pembuatan biogas. *JCE Volume 1* (1): 13-20
- Van Calker, K.J., B. Paul, M. Barentsen, G.W.J. Giesen, and R.B.M Huirne. 2005. Identifying and ranking attributes that determine sustainability in Dutch dairy farming. *Agric Human Values.* 22: 53–63.
- Van den berg H. and J. Jiggins. 2007. Investing in farmers-The impacts of farmer field schools in relation to integrated pest management. *J. World Dev.* 35 (4): 663-686.
- Veleva, V. and M. Ellenbecker. 2001. Indicators of sustainable production: framework and methodology. *J. Clean. Prod.* 9 (6): 519-549.
- Wahyudi, A.F., A.S. Jamis, A. Zainuddin, A. Rifin. 2017. Menuju Agribisnis Indonesia Berdaya Saing. Departemen Agribisnis Fakltad Ekonomi dan Manajemen IPB. Bogor.
- Waithaka, M.M., P. K. Thornton, K.D. Shepherd, and N.N. Ndiwa. 2007. Factors affecting the use of fertilizers and manure by smallholders: the case of Vihiga, Western Kenya. *Nutr Cycl Agroecosyst.* 78 (1): 211–224.
- Walker, J. 2002. Environmental Indicators and Sustainable Agriculture. CSIRO Land and Water. Canberra.
- Wibowo, M.H.S., B. Guntor, and E. Sulastrri. 2011. Assessment of agribusiness development program implementation of beef cattle farming in sekadau regency, west kalimantan. *Buletin Peternakan.* 35 (2):143-153. <http://journal.ugm.ac.id/buletinpeternakan/article/view/601/427>. (Diakses 8 Maret, 2020).
- Wibowo, E. 2013. Pola kemitraan antara petani tebu rakyat kredit (TRK) dan mandiri (TRM) dengan pabrik gula modjopanggoong tulungagung. *J. Manaj. Agribisnis,* 13 (1), 1-12.
- Widodo, M. W. 2008. Perkembangan Ekonomi dan Perencanaan Usahatani di Indonesia. Ed. 1 Cet. 1.
- Widodo, T.W., A. Nurhasanah, A. Asari, and R. Elita. 2009. Pemanfaatan limbah industri pertanian untuk energi biogas. Balai Besar Pengembangan Mekanisasi Pertanian, Serpong, Tangerang.
- Widiati, R. 2012. Fainancial fersibility of beef cattle breeding with various capital aid in rural area of Gunung Kidul District of Yogyakarta. *Buletin Peternakan.* 36 (2): 122-128. <http://journal.ugm.ac.id/buletinpeternakan/article/view/1588/1376> (Diakses tangga, 24 Mei, 2018).
- Widiati, R. 2014. Membangun industri peternakan sapi potong rakyat dalam mendukung kecukupan daging sapi. *Wartasoa.* 24 (4):191-200.
- Widyarini, M. 2009. Analisis kelayakan usaha tani padi denan pembiayaan kredit komersil pada kantor cabang PT Bank Rakyat Indonesia (Persero) di

- Tangerang. Paper. Gent Universitiet, Belgia. <http://202.146.5.33/kompas-cetak/0705/14/Jabar/21915.htm>. 2009 (Diakses tanggal, 27 Agustus, 2018).
- Williams, T.O., S. F. Rivera, and T.G. Kelley. 1997. The Influence of Socioeconomic Factors on the Availability and Utilization of Crop Residues as Animal Feeds International Livestock Research Institute, ICRISAT Sahelian Center, BP 12404, Niamey, Niger International Crops Research Institute for the Semi-Arid Tropics, Patancheru 502324, Andhra Pradesh, India.
- Wiyono, S., M. Sangadji, M.U. Ahsan, and S. Abdulah. 2015. Farmer generation research on household farmers of paddy and horticulture. Oxfarm Indonesia, 1 - 41. <http://images.agriprofocus.nl/upload/2015KRKPLaporanKajianRegenerasiPetani1466659556.pdf>. (Diakses tanggal, 5 Februari, 2018).
- Wu, R. and X. Xu. 1991. Cultivar control of feijicao *Chromolaena odorata* (L) R.M. King and H. Robinson) by planting signal grass (*Brachiaria decumbens* Stapf) in Southern Yunnan, People's Republic of China. Proc. Second International Workshop on the Biological Control and Management of *Chromolaena odorata*. Biotrop, Bogor. www.ehs.cdu.au/chromolaena/pubs/biblio2: 1 - 16. (Diakses tanggal, 13 Januari, 2016).
- Yanti, Y. And M. Yayota. 2017. Agricultural by-products as feed for ruminants In tropical area: nutritive value and mitigating methane emission. Reviews in Agricultural Science. 5 :65-76.
- Yasin, S. 2013. Produksi Ternak Ruminansia (Kerbau dan Sapi). Pustaka Reka Cipta. Bandung.
- Yogaswara, H. 2015. The crisis of farmer regeneration: the serious problem in agriculture. Science and Knowledge Intitution of Indonesia. Suara Pembaharuan Media 3(A19).
- Yoku, O., A. Supriyanton, T. Widayati, dan I. Sumpe. 2014. Produksi padang penggembalaan alam dan potensi pengembangan sapi Bali dalam mendukung program kecukupan di Papua Barat. J. Pastura. 3 (2): 102 – 105.
- Yuniawan, A. and Y.A. Dehen. 2015. Sustainability analysis of beef cattle fattening in Ciamis Regency, West Java Province, Indonesia. JESD. 6 (20): 146-158.
- Yusuf, M., A. Fahrudin, C. Kusmana, M.M. Kamal. 2016. Analisis faktor penentu dalam pengelolaan berkelanjutan Estuaria Das Tallo. J. Analisis Kebijakan. 13 (1): 41-51.
- Yusriani, Y., Y. N. Anggraeny, N. Usrina, Y. Zurriyati, Salfina, and E. S. Rohaeni. 2021. Product as potential of supporting agricultural by large ruminant feed in Bireun Regency. IC-FSSAT 2021. IOP Conf. Series: Earth and Environmental Science 807:1-10.