

DAFTAR PUSTAKA

- Andreini, E., J. Finzei, Devil Rao, Stephanie Larson-Propian, and James W. O. (2017). Estimation of the requirement for water and ecosystem benefits of cow-calf production on California rangeland. The Society for Range Management. *Rangelands*. doi:10.1016/j.rala.2017.12.001
- Asem-Hiable, S., Thomas Battagliese, Kimberly R. Stackhouse-Lawson, C. Alan Rotz. (2019). A life cycle assessment of the environmental impacts of a beef in the USA. *The International Journal of Life Cycle Assessment*. <https://doi.org/10.1007/s11367-018-1464-6>
- Badan Pusat Statistik. Impor Daging Sejenis Lembu Menurut Negara Asal Utama, 2010-2020. <https://www.bps.go.id/statictable/2019/02/14/2011/import-daging-sejenis-lembu-menurut-negara-asal-utama-2010-2019.html>
- Baxter, Lisa L., Charles P. W., Jhones O. S., C. Philip B., and Paul E. G. (2017). Stocker beef production on low-water-input systems in response to legume inclusion: II. Water footprint. *Crop Science*, Vol. 57:2303-2312. doi: 10.2135/cropsci2017.05.0289
- Bhagat, S., A. K. Santra, Sharad Mishra, V. N. Khune, M. D. Bobade, Ashutosh Dubey, Aayush Yadav, Anupam Soni, Sweta Banjare and Gajendra Yadav. (2020). The water footprint of livestock production system and livestock products: A dark area: A review. *International Journal of Fauna and Biological Studies* 7(1): 83-88.
- Capper, J. L. (2011). The environmental impact of beef production in the United States: 1977 compared with 2007. *J. Anim. Sci*, Vol. 89:4249-4261. doi:10.2527/jas.2010-3784
- Chapagain A. K., & Hoekstra A. Y. (2004). Water footprints of nations. Value of Water Research Report Series No. 16. Delft, the Netherlands: UNESCO-IHE. www.waterfootprint.org/Reports/Report16Vol1.pdf
- Chapagain A. K., & Hoekstra A. Y. (2003). Virtual water flows between nations in relation to trade in livestock and livestock products. Value of Water Research Report Series No. 13. Delft, the Netherlands: UNESCO-IHE. www.waterfootprint.org/Reports/Report13Vol1.pdf
- Descheemaeker, Katrien., Tilahun Amede, Amare Haileslassie. (2010). Improving water productivity in mixed crop-livestock farming systems of sub-Saharan Africa. *Agricultural Water Management*, Vol. 97:579–586. doi:10.1016/j.agwat.2009.11.012
- Eady, S., James V., and Justin Macdonnell. (2011). On-farm greenhouse gas emissions and water use: case studies in the Queensland beef industry. *Animal Production Science*. Vol. 51:667-681. 10.1071/ANI1030

Greenwood, Paul L. (2021). Review : An overview of beef production from pasture and feedlot globally, as demand for beef and the need for sustainable practices increase. *Animal, The International Journal of Animal Biosciences*. <https://doi.org/10.016/j.animal.2021.100295>

Hoekstra, A. Y., Ashok K. C., Maite M. A., & M. Mekonnen. (2011). *The Water Footprint Assessment Manual: Setting the Global Standard*. Daugherty Water for Food Global Institute: Faculty Publications. 77. <https://digitalcommons.unl.edu/wffdocs/77>

Hoekstra, A. Y. (2012). The hidden water resource use behind meat and dairy. *Animal frontiers*, Vol. 2(2): 3-8.

Hoekstra, A. Y. (2014). Water for Animal Products : A Blind Spot in Water Policy. *Environmental Research Letters*, 9:1-3. doi:10.1088/1748-9326/9/9/091003.

Hoekstra, A. Y. (2015). The Water Footprint : The Relation Between Human Consumption and Water Use. *Springer Water*, 35-48. DOI 10.1007/978-3-319-16393-2_3.

Hoekstra, A. Y. (2017). Water Footprint Assessment: Evolvement of a New Research Field. *Water Resour Manage*, 31:3061–3081. DOI 10.1007/s11269-017-1618-5.

Hoekstra, A. Y. & A. K. Chapagain. (2007). Water Footprints of Nations : Water Use by People as A Function of Their Consumption Pattern. *Water Resour Manage*, 21:35-48. DOI 10.1007/s11269-006-9039-x

Ibidhi, R. & H. Ben Salem. (2020). Water Footprint of Livestock Products and Production Systems : A Review. *Animal Production Science*, CSIRO. <https://doi.org/10.1071/ANI17705>.

ISO 14046:2014 *Environmental management—Water Footprint—Principles, Requirements and Guidelines*; ISO: Geneva, Switzerland, 2014. <https://www.iso.org/standard/43263.html>

Iyyanki V. Muralikrishna, Valli Manickam. (2017). *Environmental Management*. Elsevier Inc. Pp : 57-75.ISBN 978-0-12-811989-1. <http://dx.doi.org/10.1016/B978-0-12-811989-1.00005-1>

Junior, U. J. R. & Mauricio D. (2021). The water footprint of beef cattle in the amazon region, Brazil. *Ciencia Rural, Santa Maria*. Vol. 51(8). <https://doi.org/10.1590/0103-8478cr20190294>

Kannan, Narayanan, Edward Osei, Oscar Gallego, Ali Saleh. (2017). Estimation of green water footprint of animal feed for beef cattle production in Southern Great Plains. *Water Resources and Industry*, Vol. 17:11–18. <http://dx.doi.org/10.1016/j.wri.2016.12.002>

Leenes, W. Gerbens & A. Y. Hoekstra. (2011). The water footprint of biofuel-based transport. *Energy & Environmental Science*. Vol. 4:2658-2668. DOI: 10.1039/c1ee01187a

Leenes, P.W. Gerbens, M.M. Mekonnen, A.Y. Hoekstra. (2013). The water footprint of poultry, pork and beef: A comparative study in different countries and production systems. *Water Resources and Industry*, 1–2:25–36. <http://dx.doi.org/10.1016/j.wri.2013.03.001>.

Legesse, G., K. H. Ominski, K. A. Beauchemin, S. Pfister, M. Martel, E. J. McGeough, A. Y. Hoekstra, R. Kroebel, M. R. C. Cordeiro, and T. A. McAllister. (2017). BOARD-INVITED REVIEW: Quantifying water use in ruminant production. *J. Anim. Sci.*, Vol. 95:2001–2018. doi:10.2527/jas2017.1439

Maré, Frikkie Alberts., Henry Jordaan and Mesfin Mergia Mekonnen. (2020). The Water Footprint of Primary Cow-Calf Production: A Revised Bottom-Up Approach Applied on Different Breeds of Beef Cattle. *Water*, Vol. 12:23–25. doi:10.3390/w12092325

Mekonnen, Mesfin M., Christoper M. U. N., Chittaranjan R., Galen E. E., Arjen Y. Hoekstra. (2019). Water productivity in meat and milk production in the US from 1960 to 2016. *Environmental International*, Vol. 132, 105084. <https://doi.org/10.1016/j.envint.2019.105084>

Mekonnen, Mesfin M. & Hoekstra, A. Y. (2010). *The Green, Blue, and Grey Water Footprint of Farm Animals and Animal Products*. Value of Water Research Report Series No. 48, UNESCO-IHE, Delft, the Netherlands.

Mekonnen, Mesfin M. & Hoekstra, A. Y. (2011). *The Green, Blue, and Grey Water Footprint of crops and derived crop products*. *Hydrol. Earth Syst.* 15, 1577–1600.

Mekonnen, Mesfin M. & Hoekstra, A. Y. (2012). A Global Assessment of the Water Footprint of Farm Animal Products. *Ecosystem*, 15:401–415. DOI : 10.1007/s10021-011-9517-8.

Mekonnen, Mesfin M. and Winnie Gerbens-Leenes. (2020). The Water Footprint of Global Food Production. *Water*, Vol. 12, 2696. doi:10.3390/w12102696.

Molina, C. Navarrete., C.A. Meza-Herrera, M.A. Herrera-Machucab, N. Lopez-Villalobos, A. Lopez-Santos, F.G. Veliz-Deras. (2019). To beef or not to beef: Unveiling the economic environmental impactgenerated by the intensive beef cattle industry in an arid region. *Journal of Cleaner Production*, 231. <https://doi.org/10.1016/j.jclepro.2019.05.267>.

Ngxumeshe, Ayanda M., Motshekwe Ratsaka, Bohani Mteleni and Khathutshelo Nephawo. (2020). Sustainable Application of Livestock Water Footprints in Different Beef Production Systems of South Africa. *Sustainability*, 12, 9921; doi:10.3390/su12239921.

Noya, I., L. Lijo, O. Pineiro, R. Lopez-Carracelas, B. Omil, M. T. Barral, A. Merino, G. Feijoo, and M. T. Moreira. (2019). *Water Footprint of Livestock Farming*. Springer Nature Singapore Pte Ltd. Environmental Water Footprints. <https://doi.org/10.1007/978-981->

13-2508-3_2.

Palhares, J. C. P., Marcela M., Ciniro C. J. (2017). Impact of roughage-concentrate ratio on the water footprints of beef feedlots. *Agricultural Systems*, Vol, 155:126-135. <https://doi.org/10.1016/j.agsy.2017.04.009>

Palhares, J. C. P., Marcela M., Taisla Inara N. (2021). Water footprint of a tropical beef cattle production systems: The impact of individual animal and feed management. *Advances in Water Resources*, Vol. 149, 103853. <https://doi.org/10.1016/j.advwatres.2021.103853>

Palmatier, Robert. W., Mark B. Houston, John Hulland. (2018). Review Articles : Purpose, Process, and Structure. *Journal of the Acad. Mark. Sci.* Vol. 46:1-5. DOI 10.1007/s11747-017-0563-4.

Parker, D. B. & Michael S. Brown. (2003). Water consumption for livestock and poultry production. *Encyclopedia of Water Science*, 1-5. DOI: 10.1081/E-EWS 120010303

Peters, G. M., Stephen G. Wiedemann, Hazel V. R., Robyn W. T. (2010). Accounting for water use in Australian red meat production. *Int J Life Cycle Assess.* Vol. 15:311-320. DOI 10.1007/s11367-010-0161-x

Pimentel, D. & M. Pimentel. (2003). Sustainability of meat-based and plant-based diets and the environment. *Am. J. Clin. Nutr.* Vol. 78:660S-3S. <https://academic.oup.com/ajcn/article/78/3/660S/4690010>

Pighin, Dario., Adriana Pazos, Verónica Chamorro, Fernanda Paschetta, Sebastián Cunzolo, Fernanda Godoy, Valeria Messina, Anibal Pordomingo and Gabriela Grigioni. (2015). A Contribution of Beef to Human Health: A Review of the Role of the Animal Production Systems. *The Scientific World Journal*. Volume 2016, Article ID 8681491, 10 pages. <http://dx.doi.org/10.1155/2016/8681491>.

Ran, Y., M. Lannerstad, M. Herrero , C.E. Van Middelaar, I.J.M. De Boer. (2016). Assessing water resource use in livestock production: A review of methods. *Livestock Science*, Vol. 187:68-79. <http://dx.doi.org/10.1016/j.livsci.2016.02.012>

Ridoutt, Bradley G. , Peerasak Sanguansri , Michael Freer & Gregory S. Harper. (2012). Water footprint of livestock: comparison of six geographically defined beef production systems. *Int J Life Cycle Assess.* Vol. 17:165–175. DOI 10.1007/s11367-011-0346-y

Rosegrant, M. W., Cai, X. & Cline, S. A. (2002). World Water and Food to 2025: Dealing with Scarcity. International Food Policy Research Institute.

Rotz, C. A., B. J. Isenberg, K. R. Stackhouse-Lawson, and E. J. Pollak. (2013). A simulation-based approach for evaluating and comparing the environmental footprints of beef production systems. *J. Anim. Sci.* Vol. 91:5427-5437. Doi:10.2527/jas2013-6506

Rotz, C. A., S. Asem-Hiable, J. Dillon, and H. Bonifacio. (2015). Cradle-to-farm gate environmental footprints of beef cattle production in Kansas, Oklahoma, and Texas. *J. Anim. Sci.* Vol. 93:2509-2519. Doi:10.2527/jas2014-8809

Rotz, C. A., S. Asem-Hiable, Sara P., Greg T. (2019). Environmental footprints of beef cattle production in the United States. *Agricultural Systems*. Vol. 169:1-13. <https://doi.org/10.1016/j.agsy.2018.11.005>

Rudatin, Ari. (2016). Analysis on Indonesia's beef import. *Economic Journal of Emerging Markets*. Vol. 8(1):65-72. DOI:10.20885/ejem.vol8.iss1.art5

Sawalhah, M. N., Hatim M. E. G., Jerry L. H., Andres F. C., Sheri S. dan Craig G. (2021). Water footprint of rangeland beef production in New Mexico. *Water*, Vol. 13, 1950. <https://doi.org/10.3390/w13141950>

Smith, Stephen B., Takafumi Gotoh, Paul L. G. (2018). Current Situation and Future Prospects for Global Beef Production : Overview of Special Issue. *Asian-Australias J Anim Sci.*, Vol. 31(7):927-932. <https://doi.org/10.5713/ajas.18.0405>.

Spore, Tyler J., Mekonnen, M., Neale, Christopher M. U., Watson, Andrea K., MacDonald, James C., & Erickson, Galen E. (2020). *Evaluation of the water footprint of beef cattle production in Nebraska*. Nebraska beef cattle reports. 1071. <https://digitalcommons.unl.edu/animalscinbcr/1071>

Thomassen, M.A. Zonderland., M. Lieffering, S.F. Ledgard. (2014). Water footprint of beef cattle and sheep produced in New Zealand: water scarcity and eutrophication impacts. *Journal of Cleaner Production*, Vol. 73:253-262. <http://dx.doi.org/10.1016/j.jclepro.2013.12.025>

Vasconcelos, J. T., Tedeschi, L. O., Fox D. G., Galyean, M. L., Greene, L. W. (2007). Feeding nitrogen and phosphorus in beef cattle feedlot production to mitigate environmental impacts. *Prof. Anim. Sci.*, Vol. 23:8-17. [https://doi.org/10.1532/S1080-7446\(15\)30942-6](https://doi.org/10.1532/S1080-7446(15)30942-6)

West, C. P. & Lisa L. Baxter. (2018). Water footprint of beef production on Texas High Plains pasture. *Water International*, Vol. 43(6):887-891. <https://doi.org/10.1080/02508060.2018.1515574>

Wiedemann, S., Eugene McGahan, Caoilinn M., Ming-Jia Yan, Beverly H., Greg Thoma, Stewart L. (2015a). Environmental impacts and resource use of Australian beef and lamb exported to the AS determined using life cycle assessment. *Journal of Cleaner Production*, Vol. 94:67-75. <https://dx.doi.org/10.1016/j.jclepro.2015.01.073>

Wiedemann, S., B. K. Henry, E. McGahan, T. Grant, C.M. Murphy, G. Niethe. (2015b). Resource use and greenhouse gas intensity of Australian beef production: 1981-2010. *Agricultural Systems*, Vol. 133:109-118. <https://dx.doi.org/10.1016/j.agsy.2014.11.002>

Wiedemann, S., Eugene McGahan, Caoilinn M., Ming-Jia Yan. (2016). Resource use and environmental impacts from beef production in eastern Australia investigated using life cycle assessment. *Animal Production Science*, Vol. 56:882-894.
<https://dx.doi.org/10.1071/ANI4687>

Wilfong, A. & Travis O'Quinn, Ph. D. (2018). *How Much Meat To Expect From Your Animal*. K-STATE Research and Extension, Kansas State University.
www.bookstore.ksre.ksu.edu.

