

Bibliography

- “About.” RSPO. Accessed January 25, 2021. <https://rspo.org/about>.
- “Acidification.” n.d. Life Cycle Assessment. Accessed January 30, 2021. http://qpc.adm.slu.se/7_LCA/page_10.htm.
- “Acidification Impacts.” n.d. United States Department of Agriculture Forest Service. Accessed January 30, 2021. <https://webcam.srs.fs.fed.us/pollutants/acidification/index.shtml#:~:text=Fossil%20fuel%20burning%20emits%20air,acids%2C%20and%20ammonium%20to%20ecosystems>.
- “Agricultural Water.” CDC. [https://www.cdc.gov/healthywater/other/agricultural/index.html#:~:text=Agricultural%20water%20is%20used%20for,irrigation\)%2C%20and%20frost%20control](https://www.cdc.gov/healthywater/other/agricultural/index.html#:~:text=Agricultural%20water%20is%20used%20for,irrigation)%2C%20and%20frost%20control). Accessed 30 Jan. 2021.
- Annex 5 Environmental Impacts Analyzed and Characterization Factors Contents.”, 2006. <https://ec.europa.eu/environment/waste/pdf/study/annex5.pdf>.
- “Arable and Permanent Cropland Area.” Accessed January 26, 2021. https://www.un.org/esa/sustdev/natlinfo/indicators/methodology_sheets/land/arable_cropland_area.pdf.
- “Artificial Groundwater Recharge.” USGS. https://www.usgs.gov/mission-areas/water-resources/science/artificial-groundwater-recharge?qt-science_center_objects=0#qt-science_center_objects. Accessed 27 Jan. 2021.
- Asem-Hiablie, Senorpe, Thomas Battagliese, Kimberly R. Stackhouse-Lawson, and Alan C. Rotz. 2018. “A life cycle assessment of the environmental impacts of a beef system in the USA.” *The International Journal of Life Cycle Assessment* 24 (May): 441-455. <https://doi.org/10.1007/s11367-018-1464-6>.
- Assessment of Chinese Shrimp Farming Systems Targeted for Export and Domestic Sales.” *Environmental Science & Technology* 45, no. 15 (June): 6531–6538. [dx.doi.org/10.1021/es104058z](https://doi.org/10.1021/es104058z).
- Aubin, Joël, Aurèle Baruthio, Rattanawan Mungkung, and Jerome Lazard. 2015. “Environmental
- Ayer, Nathan W., and Peter H. Tyedmers. 2009. “Assessing alternative aquaculture technologies: life cycle assessment of salmonid culture systems in Canada.” *Journal of Cleaner Production* 17 (3): 362-373. 10.1016/j.jclepro.2008.08.002.

- Ball, Jeff. 1999. "Understanding and Correcting Soil Acidity." *Noble Research Institute*, January 1, 1999.
<https://www.noble.org/news/publications/ag-news-and-views/1999/january/understanding-and-correcting-soil-acidity/>.
- Barrett, Jim. "Corn Planted Acreage Up 3 Percent from 2018." Accessed January 26, 2021.
<https://www.nass.usda.gov/Newsroom/2019/06-28-2019.php>.
- Bergen, Molly. "What You Need to Know about Palm Oil - in 5 Charts." Conservation International. October 04, 2016. Accessed January 11, 2021.
<https://www.conservation.org/blog/what-you-need-to-know-about-palm-oil-in-5-charts>.
- Bernard Kilian, Connie Jones, Lawrence Pratt, Andrés Villalobos. 2006. "Is sustainable agriculture a viable strategy to improve farm income in Central America? A case study on coffee." *Journal of Business Research*, Volume 59, Issue 3: 322-330 (2006).
<https://doi.org/10.1016/j.jbusres.2005.09.015>.
- Boone, Lieselot, Veerle Van linden, Steven De Meester, Bart Vandecasteele, Hilde Muylle, Isabel Roldán-Ruiz, Thomas Nemecek, and Jo Dewulf. "Environmental Life Cycle Assessment of Grain Maize Production: An Analysis of Factors Causing Variability." *Science of The Total Environment* 553 (May 15, 2016): 551–64.
<https://doi.org/10.1016/j.scitotenv.2016.02.089>.
- Bouwman, A. F., D. P. Van Vuuren, R. G. Derwent, and M. Posch. "A Global Analysis of Acidification and Eutrophication of Terrestrial Ecosystems." *Water, Air, and Soil Pollution* 141, no. 1/4 (2002): 349–82. <https://doi.org/10.1023/a:1021398008726>.
- Bunn, Christian, Peter Läderach, Oriana O. Rivera, and Dieter Kirschke. 2015. "A bitter cup: climate change profile of global production of Arabica and Robusta coffee." *Climatic Change* 129, 89–101 (2015). <https://doi.org/10.1007/s10584-014-1306-x>.
- Butusov, Mikhail, and Arne Jernelöv. "Eutrophication." *SpringerBriefs in Environmental Science*, 2013, 57–68. https://doi.org/10.1007/978-1-4614-6803-5_7.
- Cao, Ling, James S. Diana, Gregory A. Keoleian, and Quiming Lai. 2011. "Life Cycle CGIAR. "CGIAR Research Program on Maize." Accessed January 26, 2021.
<https://www.cgiar.org/research/program-platform/maize/>.
- "Chapter 3: Causes of Acidification." n.d. Agriculture Victoria: Victorian Resources Online. Accessed January 30, 2021.

[http://vro.agriculture.vic.gov.au/dpi/vro/vrosite.nsf/0d08cd6930912d1e4a2567d2002579cb/2b4e9f0f68863059ca2574c8002b3e83/\\$FILE/Acid%20soil%20strategy-final%20June%20ch3.pdf](http://vro.agriculture.vic.gov.au/dpi/vro/vrosite.nsf/0d08cd6930912d1e4a2567d2002579cb/2b4e9f0f68863059ca2574c8002b3e83/$FILE/Acid%20soil%20strategy-final%20June%20ch3.pdf).

“Conversion Factors.” Forest Research, May 29, 2018.

<https://www.forestresearch.gov.uk/tools-and-resources/statistics/forestry-statistics/forestry-statistics-2016-introduction/sources/timber/conversion-factors/>.

“Conversion Table.” USSEC. 6 Oct. 2015. <https://ussec.org/resources/conversion-table/>.

Accessed 21 Jan 2021.

Dahiya, Sunil, and Lauri Myllyvirta. 2019. “Global SO₂ emission hotspot database.” Greenpeace International.

https://www.greenpeace.org/static/planet4-africa-stateless/2019/08/5f139f4c-final-global-hotspot-and-emission-sources-for-so2_19th_august-2019.pdf.

Denchak, Melissa. 2016. “Are the Effects of Global Warming Really that Bad?” Natural Resources Defense Council.

<https://www.nrdc.org/stories/are-effects-global-warming-really-bad>.

Djik, M. van. “Mapping Maize Yield Gaps in Africa; Can a Leopard Change Its Spots?” *WUR*, September 19, 2012.

<https://www.wur.nl/de/Publicatie-details.htm?publicationId=publication-way-343233353535>.

Edwards, David P., Trond H. Larsen, Teegan D. S. Docherty, Felicity A. Ansell, Wayne W. Hsu, Mia A. Derhé, Keith C. Hamer, and David S. Wilcove. “Degraded Lands Worth Protecting: The Biological Importance of Southeast Asia’s Repeatedly Logged Forests.” *Proceedings of the Royal Society B: Biological Sciences* 278, no. 1702 (August 4, 2010): 82–90. <https://doi.org/10.1098/rspb.2010.1062>.

Edwards, P., Pullin, R. S. V., & Gartner, J. A. 1988. Research and education for the development of integrated crop-livestock-fish farming systems in the Tropics. International Center for Living Aquatic Resources Management. <https://core.ac.uk/download/pdf/6515188.pdf>

Environmental performance of brackish water polyculture system from a life cycle perspective: A Filipino case study.” *Aquaculture* 435 (January): 217-227.

<http://dx.doi.org/10.1016/j.aquaculture.2014.09.019>.

EPA. 2020. The sources and solutions: Agriculture.

<https://www.epa.gov/nutrientpollution/sources-and-solutions-agriculture>

ESS Website ESS : Emission Shares.” www.fao.org, n.d.

<http://www.fao.org/economic/ess/environment/data/emission-shares/en/>.

Falconnier, Gatien N., Marc Corbeels, Kenneth J. Boote, François Affholder, Myriam Adam, Dilys S. MacCarthy, Alex C. Ruane, et al. “Modelling Climate Change Impacts on Maize Yields under Low Nitrogen Input Conditions in Sub-Saharan Africa.” *Global Change Biology* 26, no. 10 (2020): 5942–64. <https://doi.org/10.1111/gcb.15261>.

Fantin, Valentina, Serena Righi, Irene Rondini, and Paolo Masoni. “Environmental Assessment of Wheat and Maize Production in an Italian Farmers’ Cooperative.” *Journal of Cleaner Production*, Towards eco-efficient agriculture and food systems: selected papers addressing the global challenges for food systems, including those presented at the Conference “LCA for Feeding the planet and energy for life” (6-8 October 2015, Stresa & Milan Expo, Italy), 140 (January 1, 2017): 631–43.

<https://doi.org/10.1016/j.jclepro.2016.06.136>.

FAO. 2020. “Global Fisheries commodities production and trade 1976-2018 (FishstatJ).” Fishery and Aquaculture Statistics. <http://www.fao.org/fishery/statistics/software/fishstatj/en>

FAO Fisheries & Aquaculture. n.d. “Online Query Panels.” Food and Agriculture Organization of the United Nations. <http://www.fao.org/fishery/topic/16140/en>.

FAO. 2011. World Livestock 2011. Livestock in food security.

<http://www.fao.org/3/i2373e/i2373e.pdf>

Food & Water Watch. “Do Farm Subsidies Cause Obesity?,” September 24, 2015.

<https://www.foodandwaterwatch.org/insight/do-farm-subsidies-cause-obesity>.

Food and Agriculture Organization. 2003. *World Agriculture: towards 2015/2030*. United States of America: FAO. <http://www.fao.org/3/y4252e/y4252e00.htm>.

Food and Agriculture Organization. n.d. “Key Facts and Findings.” fao.org. Accessed January 20, 2021. <http://www.fao.org/news/story/en/item/197623/icode/>.

Food and Agriculture Organization of the United Nations. 2020. “Fisheries & Aquaculture - Statistics.” Food and Agriculture Organization of the United Nations.

<http://www.fao.org/fishery/statistics/en>.

- Food and Agriculture Organization of the United Nations. 2021. "Atlantic salmon - Feed Production." Aquaculture Feed and Fertilizer Resources Information System. <http://www.fao.org/fishery/affris/species-profiles/atlantic-salmon/feed-production/en/>.
- Food and Agriculture Organization of the United Nations. 2021. "Atlantic salmon - Feed Production." Aquaculture Feed and Fertilizer Resources Information System. <http://www.fao.org/fishery/affris/species-profiles/atlantic-salmon/feed-production/en/>.
- Fox, Louise, and Thomas Jayne. "Unpacking the Misconceptions about Africa's Food Imports." *Brookings* (blog), December 14, 2020. <https://www.brookings.edu/blog/africa-in-focus/2020/12/14/unpacking-the-misconceptions-about-africas-food-imports/>.
- Fraanje, Walter and Garnett, Tara. "Soy: food, feed, and land use change." FCRN. <https://tabledebates.org/building-blocks/soy-food-feed-and-land-use-change#SOYBB2>. Accessed 17 Jan. 2021.
- Freshwater Withdrawals." EPA. <https://www.epa.gov/report-environment>. Accessed 24 Jan. 2021.
- GHK and BIO Intelligence Services. 2006. "Annex 5 Environmental Impacts Analysed And Characterisation Factors." In *A Study to Examine the Costs and Benefits of the ELV Directive – Final Report*. Brussels: European Commission.
- Gillett, Robert. 2007. "A SHORT HISTORY OF INDUSTRIAL FISHING IN THE PACIFIC ISLANDS." *FAO: The Asia and Pacific Plant Protection Commission (APPPC)*. <http://www.fao.org/3/ai001e/ai001e00.htm#Contents>.
- Giraldi-Díaz, Mario R., Lorena De Medina-Salas, Eduardo Castillo-González, Rosario León-Lira. 2018. "Environmental Impact Associated with the Supply Chain and Production of Grinding and Roasting Coffee through Life Cycle Analysis." *Sustainability* 10, no. 12: 4598. <https://doi.org/10.3390/su10124598>.
- Global Forest Products Facts and Figures." *Fao.org*. Food and Agriculture Organization of the United Nations, 2016. <http://www.fao.org/3/I7034EN/i7034en.pdf>.
- Global trade in soy has major implications for climate" <https://www.sciencedaily.com/releases/2020/05/200507104446.htm>. Accessed 18 Jan. 2021.

- Hannah Ritchie and Max Roser, “Water Use and Stress,” Our World in Data, November 13, 2013, <https://ourworldindata.org/water-use-stress>. Accessed 24 Jan. 2021.
- Heck, Vera, Holger Hoff, Stefan Wirsenius, Carsten Meyer, and Holger Kreft. “Land Use Options for Staying within the Planetary Boundaries – Synergies and Trade-Offs between Global and Local Sustainability Goals.” *Global Environmental Change* 49 (March 2018): 73–84. <https://doi.org/10.1016/j.gloenvcha.2018.02.004>.
- Hillocks, R.J. “Addressing the Yield Gap in Sub-Saharan Africa.” *Outlook on Agriculture* 43, no. 2 (June 1, 2014): 85–90. <https://doi.org/10.5367/oa.2014.0163>.
- Holka, M., J. Bieńkowski, J. Jankowiak, and R. Dąbrowicz. “Life Cycle Assessment of Grain Maize in Intensive, Conventional Crop Production System,” 2017. </paper/LIFE-CYCLE-ASSESSMENT-OF-GRAIN-MAIZE-IN-INTENSIVE-%2C-Holka-Bie%25%84kowski/d60944ec562db8a9bff5fbd98770f2cb486275ec>.
- Home | Sustainable Development.” Accessed January 26, 2021. <https://sdgs.un.org/>.
- Hospido, A., M.E. Vazquez, A. Cuevas, G. Feijoo, and M.T. Moreira. 2006. “Environmental assessment of canned tuna manufacture with a life-cycle perspective.” *Resources, Conservation and Recycling*, no. 47 (January), 56-72. <https://www.sciencedirect.com/science/article/pii/S0921344905001515>.
- Hospido, Almudena, and Peter Tyedmers. 2005. “Life cycle environmental impacts of Spanish tuna fisheries.” *Fisheries Research*, no. 76 (May), 174-186. <https://www.sciencedirect.com/science/article/abs/pii/S016578360500175X>.
- HOW DOES DROUGHT AFFECT OUR LIVES?” NDMC. <https://drought.unl.edu/Education/DroughtforKids/DroughtEffects.aspx#:~:text=Farmers%20may%20lose%20money%20if,and%20water%20for%20their%20animals>. Accessed 24 Jan. 2021.
- Hughes, A. C. 2017. Understanding the drivers of Southeast Asian biodiversity loss. <https://esajournals.onlinelibrary.wiley.com/doi/10.1002/ecs2.1624>
- In Environmental Management: Science and Engineering for Industry, 57-75. N.p.: Butterworth-Heinemann. <https://doi.org/10.1016/B978-0-12-811989-1.00005-1>. International. https://www.greenpeace.org/static/planet4-africa-stateless/2019/08/5f139f4c-final-global-hotspot-and-emission-sources-for-so2_19th_august-2019.pdf.

- International Coffee Organization. 2020. "Impact of Covid-19 on the global coffee sector: the demand side." ICO Coffee Break Series, no. 1, April 2020.
<http://www.ico.org/documents/cy2019-20/coffee-break-series-1e.pdf>.
- International Seafood Sustainability Foundation. n.d. "Fishing Methods: An Overview." ISSF.
<https://iss-foundation.org/about-tuna/fishing-methods/>.
- Irrigation and Water Use. USDA.
<https://www.ers.usda.gov/topics/farm-practices-management/irrigation-water-use/#:~:text=Agriculture%20is%20a%20major%20user,percent%20in%20many%20Western%20States>. Accessed 24 Jan. 2021.
- "Irrigation Methods: Furrow or Flood Irrigation." USGS.
https://www.usgs.gov/special-topic/water-science-school/science/irrigation-methods-furrow-or-flood-irrigation?qt-science_center_objects=0#qt-science_center_objects. Accessed 21 Jan. 2021.
- Jurgensen, C, Walter Kollert, and A Lebedys. "ASSESSMENT of INDUSTRIAL ROUNDWOOD PRODUCTION from PLANTED FORESTS." , 2014.
<http://www.fao.org/3/a-i3384e.pdf>.
- Katare, Bhagyashree, Holly H. Wang, Jonathan Lawing, Na Hao, Timothy Park, and Michael Wetzstein. 2020. "Toward Optimal Meat Consumption." *American Journal of Agricultural Economics* 102, no. 2 (January). <https://doi.org/10.1002/ajae.12016>.
- Khatun, Rahima, Mohammad Imam Hasan Reza, M. Moniruzzaman, and Zahira Yaakob. "Sustainable Oil Palm Industry: The Possibilities." *Renewable and Sustainable Energy Reviews*. March 27, 2017. Accessed January 23, 2021.
<https://www.sciencedirect.com/science/article/pii/S1364032117304203>.
- Kim, Seungdo, Bruce E. Dale, and Robin Jenkins. "Life Cycle Assessment of Corn Grain and Corn Stover in the United States." *The International Journal of Life Cycle Assessment* 14, no. 2 (March 1, 2009): 160–74. <https://doi.org/10.1007/s11367-008-0054-4>.
- Klein, Daniel, Christian Wolf, Christoph Schulz, and Gabriele Weber-Blaschke. "20 Years of Life Cycle Assessment (LCA) in the Forestry Sector: State of the Art and a Methodical Proposal for the LCA of Forest Production." *The International Journal of Life Cycle Assessment* 20, no. 4 (January 20, 2015): 556–75.
<https://doi.org/10.1007/s11367-015-0847-1>.

- Knudsen, Marie Trydeman, et al. "Transport is important in the carbon footprint of imported organic plant products." ICROFS. <https://core.ac.uk/download/pdf/45495317.pdf>. Accessed 27 Jan. 2021.
- Koch P. and Salou T. 2015. AGRIBALYSE® : Rapport Méthodologique – Version 1.2. March 2015. Ed ADEME. Angers. France. 385 p.
- “Land Degradation.” Global Environment Facility, March 24, 2016. <https://www.thegef.org/topics/land-degradation#:~:text=Globally%2C%20about%2025%20percent%20of>.
- Leinonen, I., Williams, A. G., & Kyriazakis, I. 2016. Comparing the environmental impacts of UK turkey production systems using analytical error propagation in uncertainty analysis. *Journal of Cleaner Production*, 112, 141–148. <https://doi.org/10.1016/j.jclepro.2015.06.024>
- Leinonen, I., Williams, A. G., Wiseman, J., Guy, J., & Kyriazakis, I. 2012a. Predicting the environmental impacts of chicken systems in the United Kingdom through a life cycle assessment: Broiler production systems. *Poultry Science*, 91(1), 8–25. <https://doi.org/10.3382/ps.2011-01634>
- Lewis, Jessa, and David Runsten. 2008. “Is Fair Trade-Organic Coffee Sustainable in the Face of Migration? Evidence from a Oaxacan Community.” *Globalizations*, 5:2: 275-290, <https://www.tandfonline.com/doi/full/10.1080/14747730802057738>.
- Li, Li & Wu, Wenliang & Giller, Paul & O'Halloran, John & Liang, Long & Peng, Peng & Zhao, Guishen. 2018. Life Cycle Assessment of a Highly Diverse Vegetable Multi-Cropping System in Fengqiu County, China. *Sustainability*. 10. 983. <https://doi.org/10.3390/su10040983>.
- Li, Yi, Jiahui Shang, Chi Zhang, Wenlong Zhang, Lihua Niu, Longfei Wang, and Huanjun Zhang. “The Role of Freshwater Eutrophication in Greenhouse Gas Emissions: A Review.” *Science of the Total Environment* 768 (May 2021): 144582. <https://doi.org/10.1016/j.scitotenv.2020.144582>.
- Love, David C., Frank Asche, Zach Conrad, Ruth Young, Jamie Harding, Elizabeth M. Nussbaumer, Andrew L. Thorne-Lyman, and Roni Neff. 2020. “Food Sources and Expenditures for Seafood in the United States.” *Nutrients* 12, no. 6 (June): 1810. <https://doi.org/10.3390/nu12061810>.

- Maina, Joan J., Urbanus. N. Mutwiwa¹, Gareth. M. Kituu¹, and M. Githiru. 2015. "Evaluation of Greenhouse Gas Emissions along the Small-Holder Coffee Supply Chain in Kenya." *Journal of Sustainable Research in Engineering* vol. 2 (4): 111-120 (2015).
<http://ir.jkuat.ac.ke/handle/123456789/2171>.
- Marine Harvest. 2015. *Salmon Farming Industry Handbook 2015*. Bergen, Norway: n.p.
http://www.aquacase.org/other_information/docs/2015-salmon-industry-handbook.pdf.
- Marine Harvest. 2015. *Salmon Farming Industry Handbook 2015*. Bergen, Norway: n.p.
http://www.aquacase.org/other_information/docs/2015-salmon-industry-handbook.pdf.
- Mazzetto, Andre M., George Bishop, David Styles, Claudia Arndt, Robert Brook, and Dave Chadwick. 2020. "Comparing the environmental efficiency of milk and beef production through life cycle assessment of interconnected cattle systems." *Journal of Cleaner Production* 277 (December). <https://doi.org/10.1016/j.jclepro.2020.124108>.
- McNevin, Aaron. n.d. "Farmed Salmon." World Wildlife Fund. Accessed January, 2021.
<https://www.worldwildlife.org/industries/farmed-salmon#:~:text=Salmon%20aquaculture%20is%20the%20fastest,US%2C%20Europe%2C%20and%20Japan>.
- McNevin, Aaron. n.d. "Farmed Salmon." World Wildlife Fund. Accessed January, 2021.
<https://www.worldwildlife.org/industries/farmed-salmon#:~:text=Salmon%20aquaculture%20is%20the%20fastest,US%2C%20Europe%2C%20and%20Japan>.
- Michigan State University Extension.
<https://www.canr.msu.edu/news/feeding-the-world-in-2050-and-beyond-part-1>.
- Minami, Wataru, Kunihiro Yasui, Katsuyuki Nakano, and Hee-Joon Kim. 2004. "Life Cycle Inventory of Air Pollutants for Consumption of Tuna." *Nippon Suisan Gakkaishi* 70, no. 4 (January): 548-554. https://www.jstage.jst.go.jp/article/suisan/70/4/70_4_548/_article.
- Mordor Intelligence. 2021. *Shrimp Market - Growth, Trends, COVID-19 Impact, and Forecasts (2021 - 2026)*.
https://www.researchandmarkets.com/reports/5238781/shrimp-market-growth-trends-covid-19-impact?utm_source=GNOM&utm_medium=PressRelease&utm_code=6znzbh&utm_campaign=1264547+-+Shrimp%3a+The+Future+of+the+%2445%2b+Billion+Market%2c+2019+to+2024&utm_exec=joca2.

- Muralikrishna, Iyyanki V., and Valli Manickam. 2017. "Chapter Five - Life Cycle Assessment." In *Environmental Management: Science and Engineering for Industry*, 57-75. N.p.: Butterworth-Heinemann. <https://doi.org/10.1016/B978-0-12-811989-1.00005-1>.
- Myhrvold, N. 2020. "Coffee." Encyclopedia Britannica, June 1, 2020. <https://www.britannica.com/topic/coffee>.
- National Oceanic and Atmospheric Administration. 2018. "American seafood industry steadily increases its footprint: New report also shows consistently high landings, value for U.S. fisheries." National Oceanic and Atmospheric Administration. <https://www.noaa.gov/media-release/american-seafood-industry-steadily-increases-its-footprint>.
- National Oceanic and Atmospheric Administration. 2020. "Ocean acidification." National Oceanic and Atmospheric Administration. <https://www.noaa.gov/education/resource-collections/ocean-coasts/ocean-acidification>.
- National Oceanic and Atmospheric Administration Fisheries. n.d. "U.S. Imports of Shrimp (All Types) by Country With Comparisons." National Oceanic and Atmospheric Administration Fisheries. Accessed January 30, 2021. <https://www.st.nmfs.noaa.gov/apex/f?p=169:2>.
- Oceanic and Atmospheric Administration. <https://www.noaa.gov/education/resource-collections/ocean-coasts/ocean-acidification>.
- National Research Council. 1993. Sustainable Agriculture and the Environment in the Humid Tropics. <https://www.nap.edu/read/1985/chapter/5>
- Oddsson, Guðmundur V. 2020. "A Definition of Aquaculture Intensity Based on Production Functions—The Aquaculture Production Intensity Scale (APIS)." *Water* 12, no. 3 (March): 765. <https://doi.org/10.3390/w12030765>.
- Organization for the Promotion of Responsible Tuna Fisheries. 2004. "Longline or Purse seine?" OPRT. <http://oprt.or.jp/eng/dr-miyakes-tuna-chat/longline-or-purse-seine/>.
- Parker, R. Implications of high animal by-product feed inputs in life cycle assessments of farmed Atlantic salmon. *Int J Life Cycle Assess* 23, 982–994 (2018). <https://doi.org/10.1007/s11367-017-1340-9>
- Parker, Robert W., Ian Vázquez-Rowe, and Peter H. Tyedmers. 2014. "Fuel performance and carbon footprint of the global purse seine tuna fleet." *Journal of Cleaner Production*,

(May), 1-8.

<https://www.sciencedirect.com/science/article/pii/S0959652614004776?via%3Dihub>.

Patel, Seeta S. *Environmental Impacts of Palm Oil*. Accessed January 23, 2021.

Payn, Tim, Jean-Michel Carnus, Peter Freer-Smith, Mark Kimberley, Walter Kollert, Shirong Liu, Christophe Orazio, Luiz Rodriguez, Luis Neves Silva, and Michael J. Wingfield.

“Changes in Planted Forests and Future Global Implications.” *Forest Ecology and Management* 352 (September 2015): 57–67. <https://doi.org/10.1016/j.foreco.2015.06.021>.

Pelletier, Nathan, Peter Tyedmers, Ulf Sonesson, Astrid Scholz, Friederike Ziegler, Anna Flysjo, Sarah Kruse, Beatriz Cancino, and Howard Silverman. 2009. “Not All Salmon Are Created Equal: Life Cycle Assessment (LCA) of Global Salmon Farming Systems.” *Environmental Science & Technology* 43, no. 23 (September): 8730–8736. 10.1021/es9010114.

Pimentel, David, and Marcia Pimentel. 2003. “Sustainability of meat-based and plant-based diets and the environment.” *The American Journal of Clinical Nutrition* 78, no. 3 (September): 660S-663S. <https://doi.org/10.1093/ajcn/78.3.660S>.

Pitesky, M. E., Stackhouse, K. R., & Mitloehner, F. M. 2009. Clearing the Air. *Advances in Agronomy*, 1–40. [https://doi.org/10.1016/S0065-2113\(09\)03001-6](https://doi.org/10.1016/S0065-2113(09)03001-6)

“Pollutants.”

[https://www.emep.int/mscw/pollutants.html#:~:text=Acidifying%20and%20eutrophying%20pollutants%20originate,\)%20and%20ammonia%20\(NH3%20\)](https://www.emep.int/mscw/pollutants.html#:~:text=Acidifying%20and%20eutrophying%20pollutants%20originate,)%20and%20ammonia%20(NH3%20)). Accessed 18 Jan. 2021.

Poore, J., and T. Nemecek. “Reducing Food’s Environmental Impacts through Producers and Consumers.” *Science* 360, no. 6392 (May 31, 2018): 987–92.

<https://doi.org/10.1126/science.aag0216>.

Provolo, Giorgio & Mattachini, Gabriele & Finzi, A. & Cattaneo, Martina & Guido, Viviana & Riva, Elisabetta. 2018. Global Warming and Acidification Potential Assessment of a Collective Manure Management System for Bioenergy Production and Nitrogen Removal in Northern Italy. *Sustainability*. <https://doi.org/10.3390/su10103653>.

Ramirez-Cabral, Nadiezhda Y. Z., Lalit Kumar, and Farzin Shabani. “Global Alterations in Areas of Suitability for Maize Production from Climate Change and Using a

- Mechanistic Species Distribution Model (CLIMEX).” *Scientific Reports* 7, no. 1 (July 19, 2017): 5910. <https://doi.org/10.1038/s41598-017-05804-0>.
- Reinout Heijungs, Guinée J B, Centrum For Milieukunde (Leiden, and National Reuse Of Waste Research Programme (Nederland. *Environmental Life Cycle Assessment of Products*. Leiden: Centre Of Environmental Science, 1992.
- Ritchie, Hannah, and Max Roser. “Land Use.” *Our World in Data*, November 13, 2013. <https://ourworldindata.org/land-use>.
- Ritchie, Hannah, and Max Roser. “Land Use.” *Our World in Data*, September 2019. <https://ourworldindata.org/land-use>.
- Ritchie, Hannah. 2017. “Meat and Dairy Production.” *Our World in Data*. <https://ourworldindata.org/meat-production>.
- Rocha, Jaun C., et al. “Toward understanding the dynamics of land change in Latin America: potential utility of a resilience approach for building archetypes of landsystems change.” Resilience Alliance, 2019. Accessed 26 Jan. 2021.
- Rockström, Johan, Ottmar Edenhofer, Juliana Gaertner, and Fabrice DeClerck. “Planet-Proofing the Global Food System.” *Nature Food* 1, no. 1 (January 2020): 3–5. <https://doi.org/10.1038/s43016-019-0010-4>.
- Sadaka, Sammy. “Biodiesel.” UAEX. <https://www.uaex.edu/publications/pdf/FSA-1050.pdf>. Accessed 21 Jan. 2021.
- Sarkar, Santosh Kumar. *Marine Algal Bloom: Characteristics, Causes and Climate Change Impacts*. Singapore: Springer Singapore, 2018. <https://doi.org/10.1007/978-981-10-8261-0>.
- Saswattecha, Kanokwan, Melissa C. Romero, Lars Hein, Warit Jawjit, and Carolien Kroeze. “Non-CO2 Greenhouse Gas Emissions from Palm Oil Production in Thailand.” Taylor & Francis. December 02, 2015. Accessed January 25, 2021. <https://www.tandfonline.com/doi/full/10.1080/1943815X.2015.1110184>.
- Scientific Committee on Animal Health and Animal Welfare. 1998. Welfare aspects of the production of foie gras in ducks and geese. FAO. https://ec.europa.eu/food/sites/food/files/safety/docs/sci-com_scah_out17_en.pdf
- Sepulveda-Jauregui, Armando, Jorge Hoyos-Santillan, Karla Martinez-Cruz, Katey M. Walter Anthony, Peter Casper, Yadira Belmonte-Izquierdo, and Frédéric Thalasso.

- “Eutrophication Exacerbates the Impact of Climate Warming on Lake Methane Emission.” *Science of the Total Environment* 636 (September 15, 2018): 411–19.
<https://doi.org/10.1016/j.scitotenv.2018.04.283>.
- Shamshak, Gina L., James L. Anderson, Frank Asche, Taryn Garlock, and David C. Love. 2019.
 “U.S. seafood consumption.” *Journal of the World Aquaculture Society*, (May).
<https://doi.org/10.1111/jwas.12619>.
- Silva, George. 2018. “Feeding the world in 2050 and beyond – Part 1: Productivity challenges.”
 Michigan State University Extension.
<https://www.canr.msu.edu/news/feeding-the-world-in-2050-and-beyond-part-1>.
- “Soil Acidity.” n.d. Soil Quality. Accessed January 30, 2021.
<http://soilquality.org.au/factsheets/soil-acidity#:~:text=The%20main%20cause%20of%20soil,hydrogen%20ions%20in%20the%20soil>.
- “Soy Agriculture in the Amazon Basin.” Yale. Accessed 26 Jan. 2021.
- “Soybeans.” University of Nebraska-Lincoln. <https://cropwatch.unl.edu/bioenergy/soybeans>.
 Accessed 21 Jan. 2021.
- “State of the World’s Forests.” www.fao.org, n.d. <http://www.fao.org/3/X6953E/X6953E02.htm>.
- Steffen, W., K. Richardson, J. Rockstrom, S. E. Cornell, I. Fetzer, E. M. Bennett, R. Biggs, et al.
 “Planetary Boundaries: Guiding Human Development on a Changing Planet.” *Science*
 347, no. 6223 (January 15, 2015): 1259855–55. <https://doi.org/10.1126/science.1259855>.
- Stocker, Neil. “An Argument for Intensive Forest Management.” www.fao.org. Accessed
 January 18, 2021. <http://www.fao.org/3/XII/0750-B1.htm>.
- Sub-Saharan Africa Food Products Imports by Country 2018 | WITS Data.” Accessed January
 26, 2021.
https://wits.worldbank.org/CountryProfile/en/Country/SSF/Year/LTST/TradeFlow/Import/Partner/by-country/Product/16-24_FoodProd.
- Supasri, Titaporn, Norihiro Itsubo, Shabbir H. Gheewala, and Sate Sampattagul. “Life Cycle
 Assessment of Maize Cultivation and Biomass Utilization in Northern Thailand.”
Scientific Reports 10 (February 26, 2020). <https://doi.org/10.1038/s41598-020-60532-2>.

The Growth of Soy Impacts and Solutions.“ WWF.

http://awsassets.panda.org/downloads/wwf_soy_report_final_feb_4_2014_1.pdf.

Accessed 29 Nov. 2021.

Tigchelaar, Michelle, David S. Battisti, Rosamond L. Naylor, and Deepak K. Ray. “Future Warming Increases Probability of Globally Synchronized Maize Production Shocks.” *Proceedings of the National Academy of Sciences* 115, no. 26 (June 26, 2018): 6644–49. <https://doi.org/10.1073/pnas.1718031115>.

Tollrian. 2018. “Rising pCO₂ in Freshwater Ecosystems Has the Potential to Negatively Affect Predator-Induced Defenses in *Daphnia*.” *Current Biology* 28, no. 2 (January): 327-332. <https://doi.org/10.1016/j.cub.2017.12.022>.

Truong, A. H., Kim, M. T., Nguyen, T. T., Nguyen, N. T., & Nguyen Q. T. 2018. Methane, Nitrous Oxide and Ammonia Emissions from Livestock Farming in the Red River Delta, Vietnam: An Inventory and Projection for 2000–2030. *Sustainability* 10(10):3826. <https://doi.org/10.3390/su10103826>

Tyedmers, Peter, and Robert Parker. 2012. “Fuel Consumption and Greenhouse Gas Emissions from Global Tuna Fisheries: A preliminary assessment.” *ISSF Technical Report*, (March). <https://iss-foundation.org/download-monitor-demo/download-info/issf-technical-report-2012-03-fuel-consumption-and-greenhouse-gas-emissions-from-global-tuna-fisheries-a-preliminary-assessment/>.

Tzanetou, Evagelia and Karasali, Helen. "Glyphosate Residues in Soil and Air: An Integrated Review." <https://www.intechopen.com/books/pests-weeds-and-diseases-in-agricultural-crop-and-animal-husbandry-production/glyphosate-residues-in-soil-and-air-an-integrated-review>
Accessed 18 Jan. 2021.

Union of concerned scientists. “CO₂ and Ocean Acidification: Causes, Impacts, Solutions.” Union of Concerned Scientists, 2019. <https://www.ucsusa.org/resources/co2-and-ocean-acidification>.

United Nations Economic Food And Agriculture Organization Of The United Nations Europe. *Forest Product Conversion Factors*. S.L.: Food & Agriculture Org, 2020.

- United States Geological Survey. n.d. “Acid Rain and Water.” United States Geological Survey. Accessed January 30, 2021.
https://www.usgs.gov/special-topic/water-science-school/science/acid-rain-and-water?qt-science_center_objects=0#.
- University of Georgia Extension. 2018. Organic poultry production vs. other systems.
<https://extension.uga.edu/publications/detail.html?number=C1139&title=Organic%20Poultry%20Production%20vs.%20Other%20Systems>
- USDA ERS - Data Feature: How Is Land Used.” Accessed January 26, 2021.
<https://www.ers.usda.gov/amber-waves/2012/march/data-feature-how-is-land-used/>.
- US EPA,OAR,OAP,CPPD. “Greenhouse Gas Equivalencies Calculator | US EPA.” US EPA, February 19, 2019. <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>.
- Van Der Vossen, H. A. M. 2005. “A critical analysis of the agronomic and economic sustainability of organic coffee production.” *Expl Agric.*, vol. 41: 449–473 (2005).
<https://pdfs.semanticscholar.org/0c0b/0ba8e7513b443930b7f60cdd8b4472f7214d.pdf>.
- Volaille Label Rouge. 2020. What is Label Rouge poultry?
<http://www.volaillelabelrouge.com/en/what-is-label-rouge-poultry/>
- Voora, Vivek, et al. “Global Market Report: Soybeans.” IISD.
<https://www.iisd.org/system/files/2020-10/ssi-global-market-report-soybean.pdf>.
 Accessed 17 Jan. 2021.
- Vranken, Liesbet, Tessa Avermaete, Dimitrios Petalios, and Erik Mathijs. 2014. “Curbing global meat consumption: Emerging evidence of a second nutrition transition.” *Environmental Science & Policy* 39 (May): 95-106. <https://doi.org/10.1016/j.envsci.2014.02.009>.
- Wang, Chong, Xiaolin Li, Tingting Gong, and Hongyan Zhang. “Life Cycle Assessment of Wheat-Maize Rotation System Emphasizing High Crop Yield and High Resource Use Efficiency in Quzhou County.” *Journal of Cleaner Production* 68 (April 1, 2014): 56–63.
<https://doi.org/10.1016/j.jclepro.2014.01.018>.
- “Water in Agriculture.” World Bank, 2017.
<https://www.worldbank.org/en/topic/water-in-agriculture>.
- “Water Scarcity.” UN. <https://www.unwater.org/water-facts/scarcity/>. Accessed 30 Jan. 2021.
- “Water Scarcity.” WWF.
<https://www.worldwildlife.org/threats/water-scarcity#:~:text=When%20waters%20run%20dry,water%20scarcity>

- [20dry%2C%20people,and%20other%20water%2Dborne%20illnesses](#). Accessed 24 Jan. 2021.
- Weiss, Linda C., Leonie Pötter, Annika Steiger, Sebastian Kruppert, Uwe Frost, and Ralph Tollrian. 2018. "Rising pCO₂ in Freshwater Ecosystems Has the Potential to Negatively Affect Predator-Induced Defenses in *Daphnia*." *Current Biology* 28, no. 2 (January): 327-332. <https://doi.org/10.1016/j.cub.2017.12.022>.
- "Why Has Africa Become a Net Food Importer? Explaining Africa Agricultural and Food Trade Deficits | African Growth and Development Policy Modeling Consortium (AGRODEP)." Accessed January 26, 2021. <http://www.agrodep.org/fr/resource/why-has-africa-become-net-food-importer-explaining-africa-agricultural-and-food-trade-defic>.
- Why is the Amazon Rainforest Important?" WWF. https://wwf.panda.org/discover/knowledge_hub/where_we_work/amazon/about_the_amazon/why_amazon_important/. Accessed 27 Jan. 2021.
- Wiedemann, S. G., McGahan, E. J., & Murphy, C. M. 2017. Resource use and environmental impacts from Australian chicken meat production. *Journal of Cleaner Production*, 140, 675-684. <https://doi.org/10.1016/j.jclepro.2016.06.086>
- Williams, A. G., Pell, E., Webb, J., Tribe, E., Evans, D., Moorhouse, E., Watkiss, P. 2008. Final Report for Defra Project FO0103, Comparative Life Cycle Assessment of Food Commodities Procured for UK Consumption through a Diversity of Supply Chains. UK.
- World Shrimp Market Situation and Outlook." n.d. Food and Agriculture Organization of the United Nations. Accessed January 30, 2021. [http://www.fao.org/3/ac058e/AC058E04.htm#:~:text=While%20almost%20three%2Dquarters%20of,EEC%20countries%20\(0.5%20kg\)](http://www.fao.org/3/ac058e/AC058E04.htm#:~:text=While%20almost%20three%2Dquarters%20of,EEC%20countries%20(0.5%20kg)).
- Wouter M. J. Achten et al. "Life Cycle Assessment of a Palm Oil System with Simultaneous Production of Biodiesel and Cooking Oil in Cameroon." May 24, 2010. Accessed January 18, 2021.
- Zheng, H., Huang, H., Chen, C. et al. 2017. Traditional symbiotic farming technology in China promotes the sustainability of a flooded rice production system. *Sustain Sci* 12, 155–161. <https://doi.org/10.1007/s11625-016-0399-8>