# O POPULATION CONNECTION

# Human Impacts on the Environment

# RECOMMENDED READINGS

### **ACADEMIC SOURCES:**

- Ament, J.M., et al. (2019). Compatibility between agendas for improving human development and wildlife conservation outside protected areas: Insight from 20 years of data. *People in Nature*, 1, 305-316. https://doi.org/10.1002/pan3.10041
- 2. Bastin, J.F., et al. (2019). Global tree restoration potential. *Science*, 365(6448), 76-79. DOI: 10.1126/science. aax0848. https://science.sciencemag.org/content/365/6448/76/tab-pdf
- 3. Bennet, L. (2017). Deforestation and climate change. *The Climate Institute*. pp. 1-17. http://climate.org/wp-content/uploads/2017/04/deforestation-final\_r1.pdf
- 4. Bilgili, F., Kocak, E., Bulut, U. (2016). The dynamic impact of renewable energy consumption on CO2 emissions: A revisited environmental kuznets curve approach. *Science Direct*, 54, 838-845. https://www.sciencedirect.com/science/article/abs/pii/S1364032115011594
- 5. Godber, O. and Wall, R. (2014). Livestock and food security: vulnerability to population growth and climate change. *Global Change Biology*, 20(10). Pp. 3092-3102. https://doi.org/10.1111/gcb.12589
- 6. Goudie, A. (2018). *Human Impact on the Natural Environment*. Oxford: John Wiley & Sons Ltd. http://bcs.wiley.com/he-bcs/Books?action=index&itemId=1118576578&bcsId=8207
- 7. Heede, Richard (2019). *Carbon Majors: Updating activity data, adding entities, & calculating emissions: A Training Manual, Climate Accountability Institute*, Snowmass, Colorado, September, 56 pp. https://climateaccountability.org/pdf/TrainingManual%20CAI%2030Sep19hires.pdf
- 8. Licker, R. et al. (2019). Attributing ocean acidification to major carbon producers, *Environmental Research Letters*, 14(12). https://iopscience.iop.org/article/10.1088/1748-9326/ab5abc/pdf
- 9. Liu, X., Zhang, S., Bae, J. (2017). The impact of renewable energy and agriculture on carbon dioxide emissions: Investigating the environmental Kuznets curve in four selected ASEAN countries. *Journal of Cleaner Production*, 164 pp. 1239-1247. https://doi.org/10.1016/j.jclepro.2017.07.086
- 10. Longobardi P, Montenegro A, Beltrami H, Eby M (2016). Deforestation Induced Climate Change: Effects of Spatial Scale. *PLoS ONE 11*(4). https://doi.org/10.1371/journal.pone.0153357
- 11. Mekonnen, M., and Hoekstra, A. (2016). Four billion people facing severe water scarcity. *Science Advances*, 2(2), 1-6. https://advances.sciencemag.org/content/advances/2/2/e1500323.full.pdf
- 12. Richey, A.S., et al. (2015). Quantifying renewable groundwater stress with GRACE. *Water Resources Research*, *15*(7), 5217-5238. https://doi.org/10.1002/2015WR017349
- 13. Vermeulen, S.J., Campbell, B.M., Ingram, J. (2012). Climate change and food systems. *Annual Review of Environment and Resources*, 37, pp. 195-222. https://www.annualreviews.org/doi/pdf/10.1146/annurev-environ-020411-130608



#### **GENERAL SOURCES:**

- 1. AfDB. (2011). The middle of the pyramid: dynamics of the middle class in Africa. *Chief Economist Complex*. www.afdb.org.https://www.afdb.org/fileadmin/uploads/afdb/Documents/Publications/The%20Middle%20 of%20the%20Pyramid\_The%20Middle%20of%20the%20Pyramid.pdf
- 2. Bruckner T., I.A. Bashmakov, Y. Mulugetta, H. Chum, A. de la Vega Navarro, J. Edmonds, A. Faaij, B. Fungtammasan, A. Garg, E. Hertwich, D. Honnery, D. Infield, M. Kainuma, S. Khennas, S. Kim, H. B. Nimir, K. Riahi, N. Strachan, R. Wiser, and X. Zhang, (2014): Energy Systems. In: *Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change* Edenhofer, O., R. Pichs-Madruga, Y. Sokona, E. Farahani, S. Kadner, K. Seyboth, A. Adler, I. Baum, S. Brunner, P. Eickemeier, B. Kriemann, J. Savolainen, S. Schlömer, C. von Stechow, T. Zwickel and J.C. Minx (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA. https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc\_wg3\_ar5\_frontmatter.pdf
- 3. Creating a Sustainable Food Future: A Menu of Solutions to Feed Nearly 10 Billion People by 2050: Final Report. (2019). *The World Bank. UN Environment. UNDP. CIRAD. INRA.* https://wrr-food.wri.org/sites/default/files/2019-07/WRR\_Food\_Full\_Report\_0.pdf
- 4. Denchak, M. (2018). Fossil Fuels: The Dirty Facts. *Natural Resources Defense Council.* https://www.nrdc.org/stories/fossil-fuels-dirty-facts#sec-whatis
- 5. Friedlingstein, P. et al (2019). Global Carbon Budget 2019. *Earth System Science Data*, *11*, 1783-1838, DOI: 10.5194/essd-11-1783-2019. https://www.globalcarbonproject.org/carbonbudget/19/publications.htm
- 6. Gibbs, D., Harris, N., Seymour, F. (2018). By the numbers: The value of tropical forests in the climate change equation. *World Resources Institute:* https://www.wri.org/blog/2018/10/numbers-value-tropical-forests-climate-change-equation
- 7. Gilbert, N. (2012). One-third of our greenhouse gas emissions come from agriculture. *Nature News:* https://www.nature.com/news/one-third-of-our-greenhouse-gas-emissions-come-from-agriculture-1.11708#/b1
- 8. Global Risks Report: A Decade Left: Confronting Runaway Climate Threat. (2019). *World Economic Forum*. http://reports.weforum.org/global-risks-report-2020/a-decade-left/#hide/fn-8
- 9. Intergovernmental Panel on Climate Change. (2019). Climate Change and Land. https://www.ipcc.ch/report/srccl/
- 10. Intergovernmental Panel on Climate Change. (2018). Special Report: Global Warming of 1.5°C: Summary for Policymakers. https://www.ipcc.ch/sr15/chapter/spm/
- 11. Intergovernmental Panel on Climate Change. (2019). Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems. Summary for Policymakers. https://www.ipcc.ch/site/assets/uploads/2019/08/Edited-SPM\_Approved\_Microsite\_FINAL.pdf
- 12. Pezzini, M. OECD Development Centre. (2012). An emerging middle class. OECD Observer. http://oecdobserver.org/news/fullstory.php/aid/3681/An\_emerging\_middle\_class.html
- 13. Ranganathan, J. et al. (2018). How to sustainably feed 10 billion people by 2050, in 21 charts. *World Resources Institute*. https://www.wri.org/blog/2018/12/how-sustainably-feed-10-billion-people-2050-21-charts



#### **GENERAL SOURCES:**

- 14. Renewable Energy Sources Cut Carbon Emissions, Efficiently Increase Electricity Output Worldwide, Delegates Say in Second Committee. (2018). *United Nations. General Assembly. Second Committee. Seventy-third Session, 14th Meeting.* https://www.un.org/press/en/2018/gaef3501.doc.htm
- 15. Ritchie, H. and Roser, M. (2017). Fossil Fuels. Our World in Data. https://ourworldindata.org/fossil-fuels
- 16. Global Risks Report: A Decade Left: Confronting Runaway Climate Threat. (2019). World Economic Forum.
- 17. The Causes of Climate Change. (2019). Facts. Global Climate Change: Vital Signs of the Planet. *NASA*. https://climate.nasa.gov/causes/
- 18. The Paris Agreement: Essential Elements. (2019). *United Nations Framework Convention on Climate Change (UNFCC)*. https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement
- 19. Thornton, P. (2012). Recalibrating food production in the developing world: global warming will change more than just the climate. *CCAFS Policy Brief*, (6). CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). https://hdl.handle.net/10568/24696
- 20. Transportation and Global Warming. (2018). *Center for Biological Diversity.* https://www.biological diversity.org/programs/climate\_law\_institute/transportation\_and\_global\_warming/
- 21. United Nations Department of Economic and Social Affairs. (2019). World Population Prospects 2019. Highlights. New York. https://population.un.org/wpp/Publications/Files/WPP2019\_Highlights.pdf
- 22. UN Report: Nature's dangerous decline 'unprecedented'; Species extinction rates 'accelerating.' (2019). *United Nations*. https://www.un.org/sustainabledevelopment/blog/2019/05/nature-decline-unprecedented-report/
- 23. U.S. energy facts explained. (2019). *U.S. Energy Information Administration*. https://www.eia.gov/energy-explained/us-energy-facts/
- 24. UNEP (2019). Emissions Gap Report 2019. *Executive Summary.* United Nations Environment Programme, Nairobi. https://www.unenvironment.org/resources/emissions-gap-report-2019
- 25. World Meteorological Organization (2019). United In Science: High-level synthesis report of latest climate science information convened by the Science Advisory Group of the UN Climate Action Summit 2019. https://wedocs.unep.org/bitstream/handle/20.500.11822/30023/climsci.pdf?sequence=1&isAllowed=y
- 26. World Water Development Report 2019: Leaving No One Behind. (2019). *United Nations.* https://unesdoc.unesco.org/ark:/48223/pf0000367306

## **RELEVANT ARTICLES:**

- 1. Bradford, A. (2018). Deforestation: Facts, Causes and Effects. *Live Science:* https://www.livescience.com/27692-deforestation.html
- 2. Dean, A. (2019). Deforestation and climate change. *Climate Council.* https://www.climatecouncil.org.au/deforestation/



#### **RELEVANT ARTICLES:**

- 3. Flavelle, C. (2019). Climate change threatens the world's food supply, United Nations warns. *The New York Times*. https://www.nytimes.com/2019/08/08/climate/climate-change-food-supply.html
- 4. Gibbs, D., Harris, N., Seymour, F. (2018). By the numbers: The value of tropical forests in the climate change equation. *World Resources Institute*: https://www.wri.org/blog/2018/10/numbers-value-tropical-forests-climate-change-equation
- 5 Mooney, C. and Dennis, B. (2019). New U.N. climate report: Monumental change already here for world's oceans and frozen regions. Climate and Environment. *The Washington Post.* https://www.washington-post.com/climate-environment/2019/09/25/new-un-climate-report-massive-change-already-here-worlds-oceans-frozen-regions/
- 6. Plumer, B. (2019). Humans are speeding extinction and altering the natural world at an 'unprecedented' pace. *The New York Times*. https://www.nytimes.com/2019/05/06/climate/biodiversity-extinction-unit-ed-nations.html
- 7. Plumer, B. and Sengupta, S. (2019). Biodiversity loss is urgent. Spreading the message is hard. *The New York Times*. https://www.nytimes.com/2019/05/08/climate/nyt-climate-newsletter.html
- 8. Report: There's a growing water crisis in the global south. (2019). *National Public Radio*. https://www.npr.org/sections/goatsandsoda/2019/08/13/750777462/report-theres-a-growing-water-crisis-in-the-global-south
- 9. Roberts, D. (2018). This graphic explains why 2 degrees of global warming will be way worse than 1.5. *Vox.* https://www.vox.com/energy-and-environment/2018/1/19/16908402/global-warming-2-degrees-climate-change
- 10. Sengupta, S. and Cai, W. (2019). A quarter of humanity faces looming water crises. *The New York Times*. https://www.nytimes.com/interactive/2019/08/06/climate/world-water-stress.html
- 11. Sexton, C. (2019). Economic growth can help wildlife numbers, but human population growth does not. *Earth.com.* https://www.earth.com/news/economic-growth-wildlife-numbers/
- 12. Troianovski, A., and Mooney, C. (2019). Radical Warming in Siberia Leaves Millions on Unstable Ground. *The Washington Post*: https://www.washingtonpost.com/graphics/2019/national/climate-environment/climate-change-siberia/
- 13. Gibbs, D., Harris, N., Seymour, F. (2018). By the numbers: The value of tropical forests in the climate change equation. *World Resources Institute:* https://www.wri.org/blog/2018/10/numbers-value-tropical-forests-climate-change-equation