PERPETUATION OF POVERTY IN RURAL TANZANIA

Dan Raleigh and Madison Coleman

FOOTNOTES

- 1. "Subsistence Farming," Cambridge Dictionary, accessed April 10, 2020, https://dictionary.cambridge.org/us/dictionary/english/subsistence-farming.
- 2. Jennifer Chait, "Learn About Inputs in Organic Farming," The Balance: Small Business, accessed April 10, 2020, https://www.thebalancesmb.com/definition-of-input-2538250.
- 3. Carla Tardi, "Value Chain," Investopedia, last modified July 5, 2020, https://www.investopedia.com/terms/v/valuechain.asp.
- 4. Todd Clark and Saeed Zaman, "Food and Energy Price Shocks: What Other Prices are Affected?" Economic Commentary no. 14 (August 2011), https://econpapers.repec.org/article/fipfedcec/y_3a2011_3ai_3aaug24_3an_3a2011-14.htm.
- Mark Nord, Margaret Andrews, and Steven Carlson, Household Food Insecurity in the United States, 2005, (USDA, 2005), vi, https://www.ers.usda.gov/webdocs/publications/45655/29206_err29_002.pdf?v=41334.
- 6. "Agropastoralism," Merriam-Webster, accessed December 16, 2019, https://www.merriam-webster.com/dictionary/agropastoralism.
- James Chen, "Rotating Credit and Savings Association (ROSCA)," Investopedia, last updated September 17, 2019, https://www.investopedia.com/terms/r/rotating-credit-and-savings-association.asp.
- 8. "What is a Cooperative?" University of California Small Farm Program, Division of Agriculture and Natural Resources, University of California, accessed April 10, 2020, http://sfp.ucdavis.edu/cooperatives/what is/.
- 9. "What is child labour," International Labour Organization, accessed July 22, 2020, https://www.ilo.org/ipec/facts/lang--en/index.htm.
- **10.** "Agroecology," Merriam-Webster, accessed July 22, 2020, https://www.merriam-webster.com/dictionary/agroecology.
- 11. "East African Countries 2020," World Population Review, accessed July 8, 2020, https://worldpopulationreview.com/country-rankings/east-african-countries.
- 12. "Data: Tanzania," The World Bank, accessed July 8, 2020, https://data.worldbank.org/country/tanzania.
- **13.** "Tanzania: Rural Population," Trading Economics, accessed October 18, 2019, https://tradingeconomics.com/tanzania/rural-population-percent-of-total-population-wb-data.html.
- **14.** "Kenya: Rural Population," Trading Economics, accessed October 18, 2019, https://tradingeconomics.com/kenya/rural-population-percent-of-total-population-wb-data.html.
- **15.** "Zambia: Rural Population," Trading Economics, accessed October 18, 2019, https://tradingeconomics.com/zambia/rural-population-percent-of-total-population-wb-data.html.
- **16.** "Agriculture and Food Security," USAID, last updated December 19, 2019, https://www.usaid.gov/tanzania/agriculture-and-food-security.
- 17. "Africa: Tanzania," The World Factbook, Central Intelligence Agency, last updated August 17, 2020, https://www.cia.gov/library/publications/resources/the-world-factbook/geos/tz.html.
- **18.** "Tanzania GDP," Trading Economics, accessed July 22, 2020, https://tradingeconomics.com/tanzania/gdp.
- 19. "GDP per capita (current US\$) Tanzania," The World Bank, accessed July 22, 2020, https://data.worldbank.org/indicator/NY.GDP.PCAP.CD?locations=TZ.
- 20. "GDP per capita (current US\$) Kenya," The World Bank, accessed July 22, 2020, https://data.worldbank.org/indicator/NY.GDP.PCAP.CD?locations=KE.
- 21. "GDP per capita (current US\$) Zambia," The World Bank, accessed July 22, 2020, https://data.worldbank.org/indicator/NY.GDP.PCAP.CD?locations=ZM.
- 22. "United States GDP per capita," Trading Economics, accessed August 13, 2020, https://tradingeconomics.com/united-states/gdp-per-capita.

- 23. "Africa: Tanzania," The World Factbook.
- 24. "Tanzania Tourist Arrivals Increase by 12.9% in 2013 to Reach 1,26 M," Tanzania Invest, May 26, 2017, https://www.tanzaniainvest.com/tourism/tourist-arrivals-reach-2016.
- 25. "Tanzania Corruption Report," Risk & Compliance Portal, accessed July 22, 2020, https://www.ganintegrity.com/portal/country-profiles/tanzania/.
- 26. Samira Lindner, "Tanzania: Overview of Corruption and Anti-Corruption," Anti-Corruption Resource Centre, March 7, 2014,
 - https://www.transparency.org/files/content/corruptiongas/Country profile Tanzania 2014.pdf.
- 27. Rob Swinkels, "Poverty and Equity Brief, Sub-Saharan Africa, Tanzania," The World Bank, April 2020,
 - https://databank.worldbank.org/data/download/poverty/33EF03BB-9722-4AE2-ABC7-AA2972D68 AFE/Global POVEQ TZA.pdf.
- 28. "Measuring Poverty," The World Bank, last updated April 10, 2020, https://www.worldbank.org/en/topic/measuringpoverty#2.
- 29. "Poverty," The World Bank, last updated April 16, 2020, https://www.worldbank.org/en/topic/poverty/overview.

nt-a-new-picture-of-growth-for-tanzania-emerges.

- **30.** "Poverty & Equity Data Portal: Tanzania" The World Bank, accessed July 22, 2020, http://povertydata.worldbank.org/poverty/country/TZA.
- 31. "Tanzania Mainland Poverty Assessment: A New Picture of Growth for Tanzania Emerges," The World Bank, May 7, 2015, https://www.worldbank.org/en/country/tanzania/publication/tanzania-mainland-poverty-assessme
- 32. Swinkels, "Poverty and Equity Brief."
- 33. "Africa: Tanzania," The World Factbook, Central Intelligence Agency, accessed April 10, 2020, https://www.cia.gov/library/publications/resources/the-world-factbook/geos/tz.html.
- 34. Swinkels, "Poverty and Equity Brief."
- 35. Nadia Belhaj Hassine Belghith et al., "Tanzania Mainland Poverty Assessment: Executive Summary," World Bank Group, 2019, http://documents1.worldbank.org/curated/en/431111575939381087/pdf/Executive-Summary.pdf.
- **36.** Swinkels, "Poverty and Equity Brief."
- 37. Belghith et al., "Tanzania Mainland Poverty Assessment."
- 38. "Land Title and Water in Rural Tanzania: Protecting the Livelihoods of Poor Farmers," Global Hunger Index, October 2012, https://www.globalhungerindex.org/case-studies/2012-tanzania.html.
- 39. "What is Subsistence Farming?" Africa Development Promise, October 6, 2014, https://www.africadevelopmentpromise.org/what-is-subsistence-farming/.
- **40.** Ibid.
- **41.** Roselyne Alphonce, "Addressing the mismatch between food and nutrition policies and needs in Tanzania," Africa Growth Initiative at Brookings, 2017, https://www.brookings.edu/wp-content/uploads/2017/10/erh-tanzania-policy-brief.pdf.
- 42. Brett Inder et al., "Livelihoods and Child Welfare among Poor Rural Farmers in East Africa," African Development Review 29, no. 2 (2017): 180, https://www.wvi.org/sites/default/files/Livelihoods%20paper-Carolyn%20Kabore.pdf.
- **43**. Ibid.
- 44. Ibid.
- **45.** Denise Wolter, "Tanzania Why a Potential Food Exporter is Still Importing Food," Organisation for Economic Co-operation and Development, 2008, https://www.oecd.org/dev/41302291.pdf.
- **46.** Ibid.
- **47.** John Spacey, "11 Types of Economic Infrastructure," Simplicable, May 31, 2017, https://simplicable.com/new/economic-infrastructure.
- 48. Alexander Sarris, Sara Savastano, and Luc Christiaensen, "The Role of Agriculture in Reducing Poverty in Tanzania: A Household Perspective from Rural Kilimanjaro and Ruvuma" FAO Commodity and Trade Policy Research Working Paper No. 19, June 2006, http://www.fao.org/3/a-ah468e.pdf.

- 49. Waly Wane, Jacques Morisset, and Isis Gaddis, "(Not) On the Move: Road Transport in Tanzania," World Bank Blogs, May 14, 2013, https://blogs.worldbank.org/africacan/not-move-road-transport-tanzania.
- 50. Chiponda Chimbelu, "Poor Infrastructure Is Key Obstacle to Development in Africa," DW, accessed May 18, 2019, https://www.dw.com/en/poor-infrastructure-is-key-obstacle-to-development-in-africa/a-15264436.
- 51. Sarris, Savastano, and Christiaensen, "The Role of Agriculture in Reducing Poverty in Tanzania."
- 52. Alain de Janvry, Rinku Murgai, and Elisabeth Sadoulet, "Rural Development and Rural Policy," University of California at Berkeley and The World Bank, June 1999, https://are.berkeley.edu/~esadoulet/papers/Handbook_text.pdf.
- 53. Jeni Klugman, "A Sourcebook for Poverty Reduction Strategies," Volume 2: Macroeconomic and Sectoral Approaches, (Washington, DC: The World Bank, 2002), http://documents1.worldbank.org/curated/en/681651468147315119/text/298000v-2.txt.
- **54.** Ibid.
- **55.** Ibid.
- 56. Josephine Lister, "There's A Growing Educational Gap Between Rural And Urban Areas, Connectivity Could Help Solve It," hundrED, June 27, 2018, https://hundred.org/en/articles/there-s-a-growing-educational-gap-between-rural-and-urban-areas-connectivity-could-help-solve-it.
- 57. "Primary School Net and Gross Attendance Rates, Tanzania," Education Policy and Data Center, accessed July 22, 2020, https://www.epdc.org/sites/default/files/documents/Tanzania coreusaid.pdf.
- 58. Klugman, "A Sourcebook for Poverty Reduction Strategies."
- 59. "Primary School Net and Gross Attendance Rates, Tanzania," Education and Policy Data Center.
- 60. Gideon Kwesigabo et al., "Tanzania's Health System and Workforce Crisis," Journal of Public Health Policy 33, no. 1 (2012): S35–S44, https://www.researchgate.net/profile/Phyllis_Freeman/publication/260100357_Tanzania's_health_system_and_workforce_crisis/links/5dcab4c1299bf1a47b32e962/Tanzanias-health-system-and-workforce-crisis.pdf.
- 61. Masuma Mamdani and Maggie Bangser, "Poor People's Experiences of Health Services in Tanzania: A Literature Review," Reproductive Health Matters 12, no. 24 (2004): 138–153, https://doi.org/10.1016/S0968-8080(04)24135-0.
- 62. L. Gilson, M. Magomi, and E. Mkangaa, "The Structural Quality of Tanzanian Primary Health Facilities," Bulletin of the World Health Organization 73, no. 1 (1995): 105–114, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2486583/.
- 63. "Tanzania: Service Delivery Indicators," The World Bank, May 2016, http://pubdocs.worldbank.org/en/635711464369507187/WB-SDI-Brief-Tanzania-HEALTH-v6-print.pdf.
- 64. Ibid.
- 65. Aloisia Shemdoe et al., "Explaining Retention of Healthcare Workers in Tanzania: Moving On, Coming to 'Look, See and Go', or Stay?" Human Resources for Health 14, no. 1 (January 2016): 2, https://doi.org/10.1186/s12960-016-0098-7.
- 66. "Tanzania: Service Delivery Indicators," The World Bank.
- 67. Véronique Zinnen et al., "Motivation of Human Resources for Health: A Case Study at Rural District Level in Tanzania," The International Journal of Health Planning and Management 27, no. 4 (June 2012): 327–347, https://doi.org/10.1002/hpm.2117.
- 68. Klugman, "A Sourcebook for Poverty Reduction Strategies."
- 69. Zinnen et al., "Motivation of Human Resources for Health."
- 70. Suzanne Pengfold et al., "Staff Experiences of Providing Maternity Services in Rural Southern Tanzania – A Focus on Equipment, Drug and Supply Issues," BMC Health Services Research 13, no. 61 (February 2013), https://bmchealthservres.biomedcentral.com/articles/10.1186/1472-6963-13-61.
- 71. "Tanzania: Service Delivery Indicators," The World Bank.
- 72. UNICEF, "Maternal and Child Health Fact Sheet," UNICEF, November 2017, https://www.unicef.org/tanzania/reports/maternal-and-child-health-fact-sheet.

- 73. "Tanzania Human Development Report 2017: Social Policy in the Context of Economic Transformation," United Nations Development Programme, (2017), 13, http://hdr.undp.org/sites/default/files/thdr2017launch.pdf.
- 74. Gumisai Mutume, "African Women Battle for Equality," Africa Renewal, United Nations, July 2005, https://www.un.org/africarenewal/magazine/july-2005/african-women-battle-equality.
- 75. "Tanzania Human Development Report 2017," United Nations Development Programme.
- 76. Mutume, "African women battle for equality."
- 77. Valerie Nelson and Tanya Stathers, "Resilience, Power, Culture, and Climate: A Case Study from Semi-Arid Tanzania, and New Research Directions," Gender & Development 17, no. 1 (February 2009), https://doi.org/10.1080/13552070802696946.
- 78. "Tanzania Human Development Report 2017," United Nations Development Programme.
- 79. Mark Blackden, Sudharshan Canagarajah, Stephan Klasen, and David Lawson, "Gender and Growth in Sub-Saharan Africa," United Nations University, April 2006, 5, https://www.wider.unu.edu/sites/default/files/rp2006-37.pdf.
- **80.** Akshay Kohli and Chandrima Das, "Time poverty: The key to addressing gender disparity," IDR, November 29, 2017, https://idronline.org/time-poverty-the-key-to-addressing-gender-disparity/.
- 81. "Tanzania Human Development Report 2017," United Nations Development Programme.
- 82. Kibrom T. Sibhatu and Matin Qaim, "Rural food security, subsistence agriculture, and seasonality," PLoS One 12, no. 1, (2017), https://dx.doi.org/10.1371%2Fjournal.pone.0186406.
- 83. Ibid.
- 84. Pedram Rowhani, David B. Lobell, Marc Linderman, and Navin Ramankutty, "Climate Variability and Crop Production in Tanzania," Agricultural and Forest Meteorology 151, no. 4 (2011): 449–460, https://doi.org/10.1016/j.agrformet.2010.12.002.
- 85. Robert Rudolf, "The impact of maize price shocks on household food security: Panel evidence from Tanzania," Food Policy 85, (May 2019): 40–54, https://www.sciencedirect.com/science/article/pii/S0306919218303191.
- 86. Kibrom T. Sibhatu and Matin Qaim, "Rural food security, subsistence agriculture, and seasonality," PLoS One 12, no. 10, (2017), https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5648179/.
- 87. Kinabo J. et al., "Food Intake and Dietary Diversity of Farming Households in Morogoro Region, Tanzania," African Journal of Food, Agriculture, Nutrition and Development 16, no. 4 (2016), https://doi.org/10.18697/ajfand.76.16045.
- **88.** Ibid.
- 89. Elizabeth T. Rogawski McQuade et al., "Seasonal Food Insecurity in Haydom, Tanzania, Is Associated with Low Birthweight and Acute Malnutrition: Results from the MAL-ED Study," The American Journal of Tropical Medicine and Hygiene 100, no. 3 (March 2019), https://dx.doi.org/10.4269%2Fajtmh.18-0547.
- 90. Ibid.
- 91. "Nutrition," UNICEF, accessed July 18, 2020, https://www.unicef.org/tanzania/what-we-do/nutrition.
- 92. George Joseph et al., "Understanding the Geographical Distribution of Stunting in Tanzania: A Geospatial Analysis of the 2015–16 Demographic and Health Survey," World Bank Group, January 2019,
 - http://documents.worldbank.org/curated/en/834741546530273286/pdf/WPS8688.pdf.
- **93.** "2018 Findings on the Worst Forms of Child Labor," Bureau of International Labor Affairs, accessed October 18, 2019,
 - https://www.dol.gov/sites/dolgov/files/ILAB/child_labor_reports/tda2018/Tanzania.pdf.
- **94.** Ibid.
- "Child Labour and the Youth Decent Work Deficit in Tanzania," International Labour Organization, 2018,
 - https://www.ilo.org/wcmsp5/groups/public/---ed_norm/---ipec/documents/publication/wcms_65177 9.pdf.
- 96. "2018 Findings on the Worst Forms of Child Labor," Bureau of International Labor Affairs.
- **97**. Ibid.
- 98. Ibid.

- 99. "Child Labour in Tanzania: Country Report, 2000/2001 Integreated Labour Force and Child Labour Survey," International Programme on the Elimination of Child Labour, 2001, www.ilo.org/ipecinfo/product/download.do?type=document&id=5107.
- 100. "2018 Findings on the Worst Forms of Child Labor," Bureau of International Labor Affairs.
- 101. "What is child labour," International Labour Organization, accessed July 18, 2020, https://www.ilo.org/ipec/facts/lang--en/index.htm.
- 102. "2018 Findings on the Worst Forms of Child Labor," Bureau of International Labor Affairs.
- 103. Krista Mahr, "Tanzania struggles to end child labor from the lure of gold," Reuters, April 3, 2017.
 - https://www.reuters.com/article/us-tanzania-mining-children-feature/tanzania-struggles-to-end-child-labor-from-the-lure-of-gold-idUSKBN176007.
- 104. "Child Labor and Forced Labor Reports | Tanzania," Bureau of International Labor Affairs, U.S. Department of Labor, accessed July 27, 2020,
 - https://www.dol.gov/agencies/ilab/resources/reports/child-labor/tanzania.
- 105. "Solution & Impact," Sustainable Agriculture Tanzania, accessed July 27, 2020, https://kilimo.org/sustainable-agriculture-tanzania-sat/vision-mission/.
- 106. Ibid.
- 107. "Sustainable Agriculture Tanzania (SAT)," Great Nonprofits, accessed July 27, 2020, https://greatnonprofits.org/org/sustainable-agriculture-tanzania-sat.
- **108.** "Solution & Impact," Sustainable Agriculture Tanzania.
- 109. "Organic Agriculture Advanced," Sustainable Agriculture Tanzania, accessed July 27, 2020, https://kilimo.org/farmer-training-centre/organic-agriculture-advanced/.
- **110.** "Conservation Agriculture," Sustainable Agriculture Tanzania, accessed July 27, 2020, https://kilimo.org/farmer-training-centre/conservation-agriculture/.
- 111. "Animal Production Basics," Sustainable Agriculture Tanzania, accessed July 27, 2020, https://kilimo.org/farmer-training-centre/animal-production/.
- 112. "Sustainable Agriculture Tanzania (SAT)," Great Nonprofits.
- 113. "Solution & Impact," Sustainable Agriculture Tanzania.
- 114. Ibid.
- 115. United Republic of Tanzania Ministry of Livestock and Fisheries Development, Tanzania Livestock Modernization Initiative, July 2015,
 - https://livestocklivelihoodsandhealth.org/wp-content/uploads/2015/07/Tanzania_Livestock_Moder nization_Initiative_July_2015.pdf.
- 116. Ibid.
- 117. Ibid.
- 118. "Livestock Data in Tanzania," World Bank, accessed July 27, 2020, https://www.worldbank.org/content/dam/Worldbank/document/Africa/Tanzania/tz-the-role-of-livest ock-data-in-rural-africa-a-tanzanian-case-study-infographic.pdf.
- 119. United Republic of Tanzania Ministry of Livestock and Fisheries Development, Tanzania Livestock Modernization Initiative.
- **120.** Ibid.
- 121. "Tanzania Livestock Master Plan (LMP)," International Livestock Research Institute, accessed July 27, 2020, https://www.ilri.org/research/projects/tanzania-livestock-master-plan-Imp.
- 122. United Republic of Tanzania Ministry of Livestock and Fisheries Development, "Tanzania Livestock Master Plan (2017/18-2021/22)," (December 2017), https://www.mifugouvuvi.go.tz/uploads/projects/1553601793-TANZANIA%20LIVESTOCK%20MA STER%20PLAN.pdf.
- 123. Food and Agriculture Organization of the United Nations, "Options for Low-Emission Development in the Tanzania Dairy Sector," FAO, 2019, v, http://www.fao.org/3/CA3215EN/ca3215en.pdf.
- 124. United Republic of Tanzania Ministry of Livestock and Fisheries Development, "Tanzania Livestock Master Plan (2017/18–2021/22)," December 2017, https://www.mifugouvuvi.go.tz/uploads/projects/1553601793-TANZANIA%20LIVESTOCK%20MA STER%20PLAN.pdf.
- **125.** Food and Agriculture Organization of the United Nations, "Options for Low-Emission Development."

- 126. United Republic of Tanzania Ministry of Livestock and Fisheries Development, Tanzania Livestock Modernization Initiative, July 2015, 9, https://livestocklivelihoodsandhealth.org/wp-content/uploads/2015/07/Tanzania_Livestock_Moder nization_Initiative_July_2015.pdf.
- "We Catalyze Communities to Tackle the Multi-Dimensional Drivers of Poor Health," Lwala, accessed July 27, 2020, https://lwala.org/community-led-health/.
- **128.** Ibid.
- 129. "Lwala 2019 Annual Report," Lwala, 2019, https://lwala.org/wp-content/uploads/2020/02/2019-Lwala-Annual-Report-Web-version.pdf.
- 130. Alemayehu Geda, Niek de Jong, Germano Mwabu, and Mwangi Kimenyi, "Determinants of Poverty in Kenya: A Household Level Analysis," ISS Working Paper Series/General Series 347 (2001): 8–9, https://repub.eur.nl/pub/19095/wp347.pdf.
- 131. "Lwala 2019 Annual Report," Lwala.
- 132. Joseph R. Starnes et al., "Under-five mortality in Rongo Sub-County of Migori County, Kenya: Experience of the Lwala Community Alliance 2007-17 with evidence from a cross-sectional survey," PLoS One 13, no. 9 (2018), https://dx.doi.org/10.1371%2Fjournal.pone.0203690.
- **133.** Ibid.