

Appendix A – Search Queries

In this section, we report the stepwise refinement procedure of the search queries that led to the identification of studies included in the subsequent screening phase. This process was based on progressively narrowing the research focus through the selection of topics, disciplinary areas, and finally language. The selection of topics was aimed at better focusing on dynamics—such as the recognition of property rights—that directly concern land as a resource. The specification of disciplinary areas allowed for a more accurate selection of quantitative contributions based on statistical inference. Finally, the language criterion was applied to ensure homogeneity across the retrieved studies. Each step in Figure A1 indicates the number of studies retrieved at the corresponding stage.

Figure A1: Process of search query refinement

EconLit Search Query NOFT(wom?n OR gender* OR female) AND NOFT("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND DTYPE("Article") AND PEER(yes) = **544 records**

Scopus Search Query TITLE-ABS-KEY (wom?en OR gender* OR female) AND TITLE-ABS-KEY("land rights OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND (LIMIT-TO (DOCTYPE, "ar")) = **1,483 records**

WoS Search Query TS=(wom?n OR gender* OR female) AND TS=("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") and Article or Early Access (Document Types) = **1,557 records**



EconLit Search Query NOFT(wom?n OR gender* OR female) AND NOFT("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND NOFT(land) AND DTYPE("Article") AND PEER(yes) = **147 records**

Scopus Search Query TITLE-ABS-KEY(wom*en OR gender* OR female) AND TITLE-ABS-KEY("land rights OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND TITLE-ABS-KEY(land) AND (LIMIT-TO (DOCTYPE, "ar")) = **736 records**

WoS Search Query TS=(wom?n OR gender* OR female) AND TS=("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND TS=(land) and Article or Early Access (Document Types) = **1,006 records**



EconLit Search Query NOFT(wom?n OR gender* OR female) AND NOFT("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND NOFT(land) AND DTYPE("Article") AND PEER(yes) = **147 records**

Scopus Search Query TITLE-ABS-KEY (wom?n OR gender* OR female) AND TITLE-ABS-KEY ("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND TITLE-ABS-KEY (land) AND (LIMIT-TO (SUBJAREA , "SOCI") OR LIMIT-TO (SUBJAREA , "ECON")) AND (LIMIT-TO (DOCTYPE , "ar")) = **537 records**

WoS Search Query TS=(wom?n OR gender* OR female) AND TS=("land rights OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND TS=(land) and Article or Early Access (Document Types) and Economics or Development Studies (Web of Science Categories) = **302 records**



EconLit Search Query NOFT(wom?n OR gender* OR female) AND NOFT("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND NOFT(land) AND DTYPE("Article") AND PEER(yes) AND LA(English)= **146 records**

Scopus Search Query TITLE-ABS-KEY (wom?n OR gender* OR female) AND TITLE-ABS-KEY ("land rights" OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND TITLE-ABS-KEY (land) AND (LIMIT-TO (SUBJAREA , "SOCI") OR LIMIT-TO (SUBJAREA , "ECON")) AND (LIMIT-TO (DOCTYPE , "ar")) AND (LIMIT-TO (LANGUAGE , "English")) = **532 records**

WoS Search Query TS=(wom?n OR gender* OR female) AND TS=("land rights OR "land tenure" OR "property rights" OR "ownership rights" OR "access rights" OR "use rights" OR "tenure rights" OR "inherit* rights" OR "tenure security" OR "management rights" OR "control rights") AND TS=(land) and Article or Early Access (Document Types) and Economics or Development Studies (Web of Science Categories) and English (Languages) = **302 records**

Appendix B – Bibliographic Snowballing

Snowballing can be a valid supplementary method to identify relevant studies that may not appear in database searches (Page et al., 2021). Nevertheless, to ensure maximum transparency and reproducibility of the analysis, we report in this section all the articles that were included in the systematic review through this procedure, along with the reference publication from whose bibliography they were identified.

All other articles included in the review were retrieved using the core search strategy (i.e., a systematic search of scientific databases, as described in Section 3).

Table B1: Publications identified via backward snowballing

#	Title	Source
1	Anderson, S. & Genicot, G. (2015). Suicide and property rights in India. <i>Journal of Development Economics</i> , 114, 64–78	Bose & Das, 2017
2	Aziz, N., Ren, Y., Rong, K., & Zhou, J. (2021). Women’s empowerment in agriculture and household food insecurity: Evidence from Azad Jammu & Kashmir (AJK), Pakistan. <i>Land Use Policy</i> , 102, 105249	Schling & Pazos (2024); Aziz et al. (2022)
3	Benjamin, E. O. (2020). Smallholder agricultural investment and productivity under contract farming and customary tenure system: A Malawian perspective. <i>Land</i> , 9(8), 277	Benjamin et al., 2021
4	Bhalotra, S., Brulé, R., Dhabhi, N. A., & Roy, S. (2020). Women’s inheritance rights reform and the preference for sons in India. <i>Journal of Development Economics</i> , 146	Roy, 2015
5	Burrone, S., & Giannelli, G. (2023, August). <i>Do households where women own land fare better for food security? Evidence for Tanzania</i> . (IZA Discussion Paper No. 16382)	Roy, 2015
6	Daudu, A. K., Awotide, B. A., Adefalu, L. L., Kareem, O. W., & Olatinwo, L. K. (2022). Impact of land access and ownership on farm production: Empirical evidence from gender analysis in southwestern Nigeria. <i>African Journal on Land Policy and Geospatial Sciences</i> , 5(19), 889–913	Mdoda & Gidi, 2023
7	Deere, C. D., Durán, R. L., Mardon, M., & Masterson, T. (2004). <i>Female land rights and rural household incomes in Brazil, Paraguay and Peru</i> . (Working Paper No. 2004-08).	Peterman, 2011
8	Holden, S. T. & Ghebru, H. (2011, March). <i>Household welfare effects of lowcost land certification in Ethiopia</i> . (CLTS Working Papers 3/11). Centre for Land Tenure Studies, Norwegian University of Life Sciences	Muchomba, 2017
9	Masterson, T. (2007). Female land rights, crop specialization, and productivity in Paraguayan agriculture. <i>SSRN Electronic Journal</i>	Croppenstedt et al., 2013
10	Melesse, M. B., Dabissa, A., & Bulte, E. (2018). Joint land certification programmes and women’s empowerment: Evidence from Ethiopia. <i>The Journal of Development Studies</i> , 54(10), 1756–1774	Deininger et al., 2021
11	Peterman, A., Pereira, A., Bleck, J., Palermo, T. M., & Yount, K. M. (2017). Women’s individual asset ownership and experience of intimate partner violence: Evidence from 28 international surveys. <i>American Journal of Public Health</i> , 107(5), 747–755	Amir-ud-Din, 2024
12	Rehman, A., Ping, Q., & Razzaq, A. (2019). Pathways and associations between women’s land ownership and child food and nutrition security in Pakistan. <i>International Journal of Environmental Research and Public Health</i> , 16(18), 3360	Chacko et al., 2023

13	Sheldon, H. & Shwachman Kaminaga, A. (2023). What's in a name? Property titling and women's empowerment in Benin. <i>Land Use Policy</i> , 129, 106608	Sheldon & Shwachman Kaminaga, 2022
14	Wiig, H., Bråten, R. H., & Fuentes, D. O. (2011). <i>Land ownership and women's empowerment – Combining survey and experiments in Peruvian rural households</i> . (Background paper for World Development Report 2012). World Bank	Wiig, 2013

Appendix C – List of Articles Included in the Review

This section presents the full list of the 96 articles included in this systematic review.

Table C1: Full list of articles included in the systematic review

#	Study
1	Aderemi, T. A. (2021). Nutritional deficiency and women's empowerment in agriculture: Evidence from Nigeria. <i>African Journal of Agricultural and Resource Economics</i> , 16(4), 314–336. https://doi.org/10.53936/AFJARE.2021.16(4).21
2	Aikins, E. R., Oduro, A. D., & Twerefou, D. K. (2021). Ownership rights and investment in agricultural land in Ghana: A gender analysis. <i>West African Journal of Applied Ecology</i> , 29(1), 49–61.
3	Ajefu, J. B., Singh, N., Ali, S., & Efobi, U. (2022). Women's inheritance rights and child health outcomes in India. <i>Journal of Development Studies</i> , 58(4), 752–767. https://doi.org/10.1080/00220388.2021.2003333
4	Ajefu, J., Uchenna, E., Singh, N., & Ali, S. Z. (2024). Women's inheritance rights and child health outcomes in Kenya. <i>Journal of Family and Economic Issues</i> , 45(1), 137–150. https://doi.org/10.1007/s10834-023-09895-y
5	Akpalu, W., & Bezabih, M. (2015). Tenure insecurity, climate variability and renting out decisions among female small-holder farmers in Ethiopia. <i>Sustainability</i> , 7(6). https://doi.org/10.3390/su7067926
6	Ali, D. A., Deininger, K., & Goldstein, M. (2014). Environmental and gender impacts of land tenure regularization in Africa: Pilot evidence from Rwanda. <i>Journal of Development Economics</i> , 110, 262–275. https://doi.org/10.1016/j.jdeveco.2013.12.009
7	Allendorf, K. (2007). Do women's land rights promote empowerment and child health in Nepal? <i>World Development</i> , 35(11), 1975–1988. https://doi.org/10.1016/j.worlddev.2006.12.005
8	Amir-ud-Din, R., Naz, L., & Ali, H. (2024). Relationship between asset ownership and women's empowerment? Evidence from DHS data from 18 developing countries. <i>Journal of Demographic Economics</i> , 90(2), 154–175. https://doi.org/10.1017/dem.2023.17
9	Anderson, S., & Genicot, G. (2015). Suicide and property rights in India. <i>Journal of Development Economics</i> , 114, 64–78. https://doi.org/10.1016/j.jdeveco.2014.11.004
10	Asfaw, S., & Maggio, G. (2018). Gender, Weather Shocks and Welfare: Evidence from Malawi. <i>Journal of Development Studies</i> , 54(2), 271–291. https://doi.org/10.1080/00220388.2017.1283016
11	Awanyo, L. (2009). Exploring the connections: Land tenure, social identities, and agrobiodiversity practices in Ghana. <i>Geografiska Annaler, Series B: Human Geography</i> , 91(2), 137–155. https://doi.org/10.1111/j.1468-0467.2009.00311.x
12	Aziz, N., Ren, Y., Rong, K., & Zhou, J. (2021). Women's empowerment in agriculture and household food insecurity: Evidence from Azad Jammu & Kashmir (AJK), Pakistan. <i>Land Use Policy</i> , 102, 105249. https://doi.org/10.1016/j.landusepol.2020.105249
13	Bahrami-Rad, D. (2021). Keeping it in the family: Female inheritance, inmarriage, and the status of women. <i>Journal of Development Economics</i> , 153, 102714. https://doi.org/10.1016/j.jdeveco.2021.102714
14	Bairagi, S., Mishra, A. K., & Tran, D. Q. (2022). Disentangling gender-differentiated impacts on food security and poverty: Empirical evidence from Vietnam. <i>Journal of International Development</i> , 34(3), 493–511. https://doi.org/10.1002/jid.3611
15	Balasubramanian, S. A., Kuppasamy, T., & Natarajan, T. (2019). Financial inclusion and land ownership status of women. <i>International Journal of Development Issues</i> , 18(1), 51–69. https://doi.org/10.1108/IJDI-06-2018-0091

- 16 Benjamin, E. O. (2020). Smallholder agricultural investment and productivity under contract farming and customary tenure system: A Malawian perspective. *Land*, 9(8), 277. <https://doi.org/10.3390/land9080277>

- 17 Benjamin, E. O., Ola, O., Sauer, J., & Buchenrieder, G. (2021). Interaction between agroforestry and women's land tenure security in sub-Saharan Africa: A matrilineal perspective. *Forest Policy and Economics*, 133. <https://doi.org/10.1016/j.forpol.2021.102617>

- 18 Bezabih, M., Holden, S., & Mannberg, A. (2016). The role of land certification in reducing gaps in productivity between male- and female-owned farms in rural Ethiopia. *Journal of Development Studies*, 52(3). <https://doi.org/10.1080/00220388.2015.1081175>

- 19 Bhalotra, S., Brulé, R., Dhab, N. A., & Roy, S. (2020). Women's inheritance rights reform and the preference for sons in India. *Journal of Development Economics*, 146. <https://doi-org.ezproxy.unicatt.it/10.1016/j.jdeveco.2018.08.001>

- 20 Bhaumik, S. K., Dimova, R., & Gang, I. N. (2016). Is women's ownership of land a panacea in developing countries? Evidence from land-owning farm households in Malawi. *Journal of Development Studies*, 52(2). <https://doi.org/10.1080/00220388.2015.1060314>

- 21 Biswas, S., Das, U., & Sarkhel, P. (2024). Duration of exposure to inheritance law in India: Examining the heterogeneous effects on empowerment. *Review of Development Economics*, 28(2), 777–799. <https://doi.org/10.1111/rode.13080>

- 22 Bose, N., & Das, S. (2017). Women's inheritance rights, household allocation, and gender bias. *American Economic Review*, 107(5), 150–153. <https://doi.org/10.1257/aer.p20171128>

- 23 Bose, N., & Das, S. (2024). Reassessing the relationship between women's empowerment and fertility: Evidence from India. *Review of Development Economics*, 28(2), 544–573. <https://doi.org/10.1111/rode.13066>

- 24 Brulé, R. (2010, September). *Changes in India's property rights regime and the implications for improved gender parity: Evidence from regression discontinuity analysis of panel data for 17 Indian states*. (APSA 2010 Annual Meeting Paper). <https://ssrn.com/abstract=1644357>

- 25 Burrone, S., & Giannelli, G. (2023, August). *Do households where women own land fare better for food security? Evidence for Tanzania*. (IZA Discussion Paper No. 16382). <https://doi.org/10.2139/ssrn.4541364>

- 26 Daudu, A. K., Awotide, B. A., Adefalu, L. L., Kareem, O. W., & Olatinwo, L. K. (2022). Impact of land access and ownership on farm production: Empirical evidence from gender analysis in Southwestern Nigeria. *African Journal on Land Policy and Geospatial Sciences*, 5(1), 889–913. <https://doi.org/10.48346/IMIST.PRSM/AJLP-GS.V5I1.29079>

- 27 De La O Campos, A. P., Edouard, F., & Salvago, M. R. (2023). Effects of land titling on household tenure security and investments: Evidence from Nicaragua. *Land Use Policy*, 126, 106547. <https://doi.org/10.1016/j.landusepol.2023.106547>

- 28 Deere, C. D., Durán, R. L., Mardon, M., & Masterson, T. (2004). *Female Land Rights and Rural Household Incomes in Brazil, Paraguay and Peru*. (Working Paper No. 2004-08). <https://hdl.handle.net/10419/105741>

- 29 Deininger, K., Goyal, A., & Nagarajan, H. (2013). Women's inheritance rights and intergenerational transmission of resources in India. *Journal of Human Resources*, 48(1), 114–141. <https://doi.org/10.3368/jhr.48.1.114>

- 30 Deininger, K., Xia, F., & Holden, S. (2019). Gendered incidence and impacts of tenure insecurity on agricultural performance in Malawi's customary tenure system. *Journal of Development Studies*, 55(4), 597–619. <https://doi.org/10.1080/00220388.2018.1425395>

- 31 Deininger, K., Xia, F., Kilic, T., & Moylan, H. (2021). Investment impacts of gendered land rights in customary tenure systems: Substantive and methodological insights from Malawi. *World Development*, 147, 105654. <https://doi.org/10.1016/j.worlddev.2021.105654>

- 32 Dillon, B., & Voena, A. (2018). Widows' land rights and agricultural investment. *Journal of Development Economics*, 135, 449–460. <https://doi.org/10.1016/j.jdeveco.2018.08.006>

- 33 Doss, C. (2006). The effects of intrahousehold property ownership on expenditure patterns in Ghana. *Journal of African Economies*, 15(1). <https://doi.org/10.1093/jae/eji025>

- 34 Doss, C., Kim, S. M., Njuki, J., Hillenbrand, E., & Miruka, M. (2014, April). *Women's individual and joint property ownership: Effects on household decisionmaking*. (IFPRI Discussion Paper No. 01347). <http://dx.doi.org/10.2139/ssrn.2483968>

- 35 Efobi, U. R., Beecroft, I., & Atata, S. N. (2019). Female access and rights to land, and rural non-farm entrepreneurship in four african countries. *African Development Review/Revue Africaine de Developpement*, 31(2), 179–189. <https://doi.org/10.1111/1467-8268.12376>

- 36 Garikipati, S. (2009). Landless but not assetless: Female agricultural labour on the road to better status, evidence from India. *Journal of Peasant Studies*, 36(3), 517–545. <https://doi.org/10.1080/03066150903142774>

- 37 Ghebru, H. H., & Holden, S. T. (2013). *Links between tenure security and food security* (IFPRI Discussion Paper No. 01288). Centre for Land Tenure Studies, Norwegian University of Life Sciences. <https://doi.org/http://dx.doi.org/10.2139/ssrn.2343158>

- 38 Goldstein, M., Hounghbedji, K., Kondylis, F., O'Sullivan, M., & Selod, H. (2018). Formalization without certification? Experimental evidence on property rights and investment. *Journal of Development Economics*, 132, 57–74. <https://doi.org/10.1016/j.jdeveco.2017.12.008>

- 39 Goldstein, M., & Udry, C. (2008). The profits of power: Land rights and agricultural investment in Ghana. *Journal of Political Economy*, 116(6). <https://doi.org/10.1086/595561>

- 40 Grabe, S. (2010). Promoting gender equality: The role of ideology, power, and control in the link between land ownership and violence in Nicaragua. *Analyses of Social Issues and Public Policy*, 10(1), 146–170. <https://doi.org/10.1111/j.1530-2415.2010.01221.x>

- 41 Grabe, S. (2015). Participation: Structural and relational power and Maasai women's political subjectivity in Tanzania. *Feminism & Psychology*, 25(4). <https://doi.org/10.1177/09593535155591369>

- 42 Grabe, S., Grose, R. G., & Dutt, A. (2015). Women's land ownership and relationship power: A mixed methods approach to understanding structural inequities and violence against women. *Psychology of Women Quarterly*, 39(1). <https://doi.org/10.1177/0361684314533485>

- 43 Gwako, E. L. M. (2016). Exploring the interactions: Plot-level analysis of Maragoli women farmers' crop control and yields in Western Kenya. *Research in Economic Anthropology*, 36, 285–314. <https://doi.org/10.1108/S0190-128120160000036011>

- 44 Han, W., Zhang, X., & Zhang, Z. (2019). The role of land tenure security in promoting rural women's empowerment: Empirical evidence from rural China. *Land Use Policy*, 86, 280–289. <https://doi.org/10.1016/j.landusepol.2019.05.001>

- 45 Holden, S. T., Deininger, K., & Ghebru, H. (2011). Tenure insecurity, gender, low-cost land certification and land rental market participation in Ethiopia. *Journal of Development Studies*, 47(1), 31–47. <https://doi.org/10.1080/00220381003706460>

- 46 Holden, S. T. and Ghebru, H. (2011, March). *Household welfare effects of lowcost land certification in Ethiopia*. (CLTS Working Papers 3/11). Centre for Land Tenure Studies, Norwegian University of Life Sciences.

- 47 Kamande, M. W., & Bahati, E. M. (2019). Effects of women land rights on agricultural outcomes in Rwanda. *African Journal on Land Policy and Geospatial Sciences*, 2(1), 60–70. <https://doi.org/10.48346/IMIST.PRSM/AJLP-GS.V2I1.15205>

- 48 Kelly, L. D., Deaton, B. J., & Amegashie, J. A. (2019). The nature of property rights in Haiti: Mode of land acquisition, gender, and investment. *Journal of Economic Issues*, 53(3), 726–747. <https://doi.org/10.1080/00213624.2019.1644922>

- 49 Kumar, S., Patel, R., & Chauhan, S. (2020). Does land possession among working women empower them and improve their child health: A study based on National Family Health Survey-4. *Children and Youth Services Review*, 119, 105697. <https://doi.org/10.1016/j.childyouth.2020.105697>

- 50 Kumar, N. & Quisumbing, A. (2012). Inheritance practices and gender differences in poverty and well-being in rural Ethiopia. *Development Policy Review*, 30(5), 573–595.
<https://doi.org/10.1111/j.1467-7679.2012.00589.x>

- 51 Lambert, S., Ravallion, M., & van de Walle, D. (2014). Intergenerational mobility and interpersonal inequality in an African economy. *Journal of Development Economics*, 110, 327–344. <https://doi.org/10.1016/j.jdevec.2014.05.007>

- 52 Linkow, B. (2019). Inheritance practices, investment incentives and women's control over land in rural Kenya. *Journal of African Economies*, 28(3), 304–322.
<https://doi.org/10.1093/jae/ejy025>

- 53 Lovo, S. (2016). Tenure insecurity and investment in soil conservation. Evidence from Malawi. *World Development*, 78, 219–229. <https://doi.org/10.1016/j.worlddev.2015.10.023>

- 54 Masterson, T. (2007). Female land rights, crop specialization, and productivity in Paraguayan agriculture. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.998600>

- 55 Meier Zu Selhausen, F. (2016). What determines women's participation in collective action? Evidence from a Western Ugandan coffee cooperative. *Feminist Economics*, 22(1).
<https://doi.org/10.1080/13545701.2015.1088960>

- 56 Melesse, M. B., Dabissa, A., & Bulte, E. (2018). Joint land certification programmes and women's empowerment: Evidence from Ethiopia. *Journal of Development Studies*, 54(10), 1756–1774. <https://doi.org/10.1080/00220388.2017.1327662>

- 57 Mendola, M., & Simtowe, F. (2015). The welfare impact of land redistribution: Evidence from a quasi-experimental initiative in Malawi. *World Development*, 72, 53–69.
<https://doi.org/10.1016/j.worlddev.2015.02.010>

- 58 Menon, N., van der Meulen Rodgers, Y., & Kennedy, A. R. (2017). Land reform and welfare in Vietnam: Why gender of the land-rights holder matters. *Journal of International Development*, 29(4), 454–472. <https://doi.org/10.1002/jid.3203>

- 59 Menon, N., Van Der Meulen Rodgers, Y., & Nguyen, H. (2014). Women's land rights and children's human capital in Vietnam. *World Development*, 54, 18–31.
<https://doi.org/10.1016/j.worlddev.2013.07.005>

- 60 Mishra, K., & Sam, A. G. (2016). Does women's land ownership promote their empowerment? empirical evidence from Nepal. *World Development*, 78, 360–371.
<https://doi.org/10.1016/j.worlddev.2015.10.003>

- 61 Montcho, M., Padonou, E. A., Montcho, M., Mutua, M. N., & Bayen, P. (2023). Impact of land tenure on livelihoods of women livestock-keepers in Burkina Faso. *Land Use Policy*, 133, 106848. <https://doi.org/10.1016/j.landusepol.2023.106848>

- 62 Muchomba, F. M. (2017). Women's land tenure security and household human capital: Evidence from Ethiopia's land certification. *World Development*, 98, 310–324.
<https://doi.org/10.1016/j.worlddev.2017.04.034>

- 63 Muchomba, F. M., Wang, J. S.-H., & Agosta, L. M. (2014). Women's land ownership and risk of HIV infection in Kenya. *Social Science & Medicine*, 114, 97–102.
<https://doi.org/10.1016/j.socscimed.2014.05.055>

- 64 Murshid, N. S. (2017). An assessment of the association between asset ownership and intimate partner violence in Pakistan. *Public Health*, 150, 1–8.
<https://doi.org/10.1016/j.puhe.2017.05.004>

- 65 Neog, B. J., & Sahoo, B. K. (2020). Rural non-farm diversification, agricultural feminisation and women's autonomy in the farm: Evidence from India. *Australian Journal of Agricultural and Resource Economics*, 64(3), 940–959. <https://doi.org/10.1111/1467-8489.12374>

- 66 Newman, C., Tarp, F., & Van Den Broeck, K. (2015). Property rights and productivity: The case of joint land titling in Vietnam. *Land Economics*, 91(1), 91–105.
<https://doi.org/10.3368/le.91.1.91>

- 67 Nguyen, M., & Le, K. (2023). The impacts of women's land ownership: Evidence from Vietnam. *Review of Development Economics*, 27(1), 158–177.
<https://doi.org/10.1111/rode.12941>
- 68 Nwaka, I.D. (2020). Gender of the family head and food insecurity in urban and rural Nigeria. *African Journal of Economic and Management Studies*, 11(3), 381–402.
<https://doi.org/10.1108/AJEMS-03-2019-0117>
- 69 Owoo, N. S., & Boakye-Yiadom, L. (2015). The gender dimension of the effects of land tenure security on agricultural productivity: Some evidence from two districts in Kenya. *Journal of International Development*, 27(7). <https://doi.org/10.1002/jid.3028>
- 70 Oyawole, F. P., Shittu, A., Kehinde, M., Ogunnaike, G., & Akinjobi, L.T. (2021). Women empowerment and adoption of climate-smart agricultural practices in Nigeria. *African Journal of Economic and Management Studies*, 12(1), 105–119. <https://doi.org/10.1108/AJEMS-04-2020-0137>
- 71 Panda, P., & Agarwal, B. (2005). Marital violence, human development and women's property status in India. *World Development*, 33(5), 823–850.
<https://doi.org/10.1016/j.worlddev.2005.01.009>
- 72 Persha, L., Greif, A., & Huntington, H. (2017, March). *Assessing the impact of second-level land certification in Ethiopia* [Paper presented at the World Bank Conference on Land and Poverty, Washington, DC, United States]
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Appendix D – Details on Articles Included in the Review

This appendix provides summary tables outlining the key characteristics of the studies included in the review. Table D1 details the region, country, data and time coverage, land program or reform (if any), the operationalization of the ‘bundle of rights’ (Schlager & Ostrom, 1992), the methods employed, the outcome measurement level, and our classification.¹ Table D2 shows complementary summary statistics. Complete bibliographic references, corresponding to the same numbering, can be found in Appendix C.

Table D1: Key characteristics of articles included in the review

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
1	Aderemi (2021)	Sub-Saharan Africa	Nigeria	LSMS (2010–11, 2012–13, 2015–16)		Ownership/inheritance	Quasi-experimental	Individual/household	Health
2	Aikins et al. (2022)	Sub-Saharan Africa	Ghana	Ghana Household Asset Survey (GHAS) (2010)		Alienation, Management, Withdrawal	Non-experimental	Individual/household	Investment and environmental sustainability
3	Ajefu et al. (2022)	South Asia	India	DHS (2005–6, 2015–16)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Health, Women’s empowerment
4	Ajefu et al. (2024)	Sub-Saharan Africa	Kenya	DHS (1989–2014)	Law of Succession Act (1881); Law of Succession Amendment Act (1990)	Ownership/inheritance	Quasi-experimental	Individual/household	Health, Women’s empowerment
5	Akpalu & Bezabih (2015)	Sub-Saharan Africa	Ethiopia	Primary (2005)		Exclusion	Non-experimental	Plot	NRM
6	Ali et al. (2014)	Sub-Saharan Africa	Rwanda	Ali et al. (2015) (2004–10)	Land Tenure Regularization Program (2009–2013)	Ownership/inheritance	Quasi-experimental	Plot	Investment and environmental sustainability
7	Allendorf (2007)	South Asia	Nepal	DHS (2001)		Ownership/inheritance	Non-experimental	Individual/household	Health, Women’s empowerment
8	Amid-ud-Din et al. (2023)	Middle East & North Africa, South Asia, Sub-Saharan Africa	Egypt, India, Pakistan, Burkina Faso, Cameroon, Côte d’Ivoire, DRC, Ethiopia, Kenya, Malawi,	DHS (2010–16)		Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment

¹ The outcomes classified are only those relevant to this review as per its inclusion criteria. Individual studies may have examined additional outcomes not classified nor listed here.

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
			Mali, Mozambique, Nigeria, Rwanda, Tanzania, Uganda, Zambia, Zimbabwe						
9	Anderson & Genicot (2015)	South Asia	India	National Crime Records Bureau of India (1967–2004); DHS (2005)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Intra-household dynamics, Women’s empowerment
10	Asfaw & Maggio (2018)	Sub-Saharan Africa	Malawi	LSMS-ISA (2009–10, 2012–13)		Management	Quasi-experimental	Individual/household	Welfare
11	Awanyo (2009)	Sub-Saharan Africa	Ghana	Primary (2002–04)		Access/use, Alienation, Management	Non-experimental	Individual/household	Investment and environmental sustainability
12	Aziz et al. (2021)	South Asia	Pakistan	Primary (2018–19)		Ownership/inheritance	Non-experimental	Individual/household	Health
13	Bahrami-Rad (2021)	South Asia	India	DHS (1992, 1998–99, 2005–6, 2015–16)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
14	Bairagi et al. (2022)	South Asia	Vietnam	LSMS (2010, 2012, 2014, 2016)		Access/use, Management	Non-experimental	Individual/household	Health
15	Balasumbramanian et al. (2019)	Multi-region	Multi-country	Global Findex 2014; various DHS (year unspecified, likely the most recent ones available at the time)		Ownership/inheritance	Non-experimental	Country	Financial inclusion
16	Benjamin (2020)	Sub-Saharan Africa	Malawi	Primary (2018)		Ownership/inheritance	Non-experimental	Plot	Agricultural productivity, Investment and environmental sustainability
17	Benjamin et al. (2021)	Sub-Saharan Africa	Malawi	Primary (2018)		Ownership/inheritance	Non-experimental	Individual/household	Investment and environmental sustainability
18	Bezabih et al. (2016)	Sub-Saharan Africa	Ethiopia	Sustainable Land Management Survey (2005, 2007)	Land Certification Program (1998)	Ownership/inheritance	Quasi-experimental	Plot	Agricultural productivity
19	Bhalotra et al. (2020)	South Asia	India	DHS (1992–93, 1998–99, 2005–6); Rural Economic and Demographic Survey (REDS) (2006)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
20	Bhaumik et al. (2016)	Sub-Saharan Africa	Malawi	Integrated Household Panel Survey (2010–11)		Ownership/inheritance	Non-experimental	Individual/household	Welfare
21	Biswas et al. (2024)	South Asia	India	DHS (2005–6)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
22	Bose & Das (2024)	South Asia	India	DHS (2005–6)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
23	Bose & Das (2017)	South Asia	India	India Human Development Survey (IHDS) (2004–5)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Education
24	Brulé (2010)	South Asia	India	REDS (1971–2008)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Education, Women’s empowerment
25	Burrone & Giannelli (2023)	Sub-Saharan Africa	Tanzania	LSMS (2008–13)		Ownership/inheritance	Non-experimental	Individual/household	Health
26	Daudu (2022)	Sub-Saharan Africa	Nigeria	Primary (2021)		Access/use, Ownership/inheritance	Non-experimental	Individual/household	Agricultural productivity
27	De La O Campos et al. (2023)	Latin America & Caribbean	Nicaragua	Primary (2020)	Land Administration Program (PRODEP) (2002–2013, 2013–20)	Ownership/inheritance	Quasi-experimental	Plot	Financial inclusion, Investment and environmental sustainability
28	Deere et al. (2004)	Latin America & Caribbean	Brazil, Paraguay, Peru	Brazil: Censo Comunitario Rural (2000); Paraguay: LSMS (2000–1); Peru: LSMS (2000)		Management, Ownership/inheritance	Non-experimental	Individual/household	Welfare
29	Deininger et al. (2013)	South Asia	India	REDS (2006)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Education
30	Deininger et al. (2019)	Sub-Saharan Africa	Malawi	National Census of Agriculture and Livestock (NACAL) (2006–7)		Exclusion	Non-experimental	Plot	Agricultural productivity
31	Deininger et al. (2021)	Sub-Saharan Africa	Malawi	IHS (2016–17), IHPS (2016)		Alienation, Management	Non-experimental	Plot	Investment and agricultural productivity
32	Dillon & Voena (2018)	Sub-Saharan Africa	Zambia	Rural Income and Livelihoods Survey (RILS) (2008),		Ownership/inheritance	Quasi-experimental	Individual/household	Investment and environmental sustainability

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
				Headmen survey (2008)					
33	Doss (2006)	Sub-Saharan Africa	Ghana	LSS (1991–92, 1998–99)		Ownership/inheritance	Non-experimental	Individual/household	Investment and environmental sustainability, Education, Health
34	Doss et al. (2014)	South Asia, Sub-Saharan Africa	India, Malawi, Mali, Tanzania	CARE Pathways Program Baseline Survey (2012)		Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment
35	Efobi et al. (2019)	Sub-Saharan Africa	Ethiopia, Malawi, Nigeria, Tanzania	LSMS-ISA (2013–15)		Alienation, Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment
36	Garikipati (2009)	South Asia	India	Primary (2001–3)		Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment
37	Ghebru & Holden (2013)	Sub-Saharan Africa	Ethiopia	Primary (1998, 2001, 2003, 2006, 2010)	Land Certification Program (1998)	Ownership/inheritance	Quasi-experimental	Individual/household	Health
38	Goldstein & Udry (2008)	Sub-Saharan Africa	Ghana	Primary (2000–2)		Ownership/inheritance	Non-experimental	Plot	Agricultural productivity, Investment and environmental sustainability
39	Goldstein et al. (2018)	Sub-Saharan Africa	Benin	Primary (2006, 2011)	Plan Foncier Rural (PFR) (1993–2003)	Ownership/inheritance	Experimental	Plot	Agricultural productivity, Investment and environmental sustainability
40	Grabe (2010)	Latin America & Caribbean	Nicaragua	Primary (2007)		Alienation, Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
41	Grabe (2015)	Sub-Saharan Africa	Tanzania	Primary (year unspecified, likely early 2010s)		Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
42	Grabe et al. (2015)	Latin America & Caribbean, Sub-Saharan Africa	Nicaragua, Tanzania	Nicaragua: Primary (year unspecified, likely early 2010s); Tanzania: Primary (2007)		Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
43	Gwako (2016)	Sub-Saharan Africa	Kenya	Primary (1995–96, 2005–6)		Access/use, Withdrawal	Non-experimental	Plot	Agricultural productivity
44	Han et al. (2019)	East Asia & Pacific	China	Primary (2017)		Alienation, Exclusion, Ownership/inheritance, Withdrawal	Non-experimental	Individual/household	Women’s empowerment

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
45	Holden & Ghebru (2011)	Sub-Saharan Africa	Ethiopia	Primary (1998, 2001, 2003, 2006)	Land Certification Program (1998)	Ownership/inheritance	Quasi-experimental	Plot	Agricultural productivity, Welfare
46	Holden et al. (2011)	Sub-Saharan Africa	Ethiopia	Primary (1998, 2000, 2003, 2006)	Land Certification Program (1998)	Ownership/inheritance	Quasi-experimental	Individual/household	NRM
47	Kamande & Bahati (2019)	Sub-Saharan Africa	Rwanda	Integrated Household Living Conditions Survey (EICV) (2010, 2015)		Alienation, Ownership/inheritance	Non-experimental	Individual/household	Agricultural productivity, Health
48	Kelly et al. (2019)	Latin America & Caribbean	Haiti	Primary (2013)		Access/use, Alienation, Management, Ownership/inheritance, Withdrawal	Non-experimental	Plot	Investment and environmental sustainability
49	Kumar & Quisumbing (2012)	Sub-Saharan Africa	Ethiopia	Rural Household Survey (1997, 2004, 2009)		Ownership/inheritance	Non-experimental	Individual/household	Health, Welfare, Women’s empowerment
50	Kumar et al. (2020)	South Asia	India	DHS (2015–16)		Ownership/inheritance	Non-experimental	Individual/household	Investment and environmental sustainability
51	Lambert et al. (2014)	Sub-Saharan Africa	Senegal	Pauvreté et Structure Familiale (PSF) (2006–07)		Ownership/inheritance	Non-experimental	Individual/household	Welfare
52	Linkow (2019)	Sub-Saharan Africa	Kenya	Rural Economic and Poverty Environment and Agricultural Technology Survey (REPEAT) (2004)		Ownership/inheritance	Non-experimental	Plot	Investment and environmental sustainability
53	Lovo (2016)	Sub-Saharan Africa	Malawi	LSMS-ISA (2016)		Exclusion	Non-experimental	Plot	Investment and environmental sustainability
54	Masterson (2007)	Latin America & Caribbean	Paraguay	LSMS (2000-1)		Ownership/inheritance	Non-experimental	Individual/household	Agricultural productivity
55	Meier Zu Selhausen (2016)	Sub-Saharan Africa	Uganda	Primary (2012)		Ownership/inheritance	Non-experimental	Individual/household	Social capital and collective action
56	Melesse et al. (2018)	Sub-Saharan Africa	Ethiopia	Primary (2012)	Joint Land Certification Program (2004)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
57	Mendola & Simtowe (2015)	Sub-Saharan Africa	Malawi	Primary (2006–9)	Community Based Rural Land Development Project (CBRLDP) (2004–2011)	Ownership/inheritance	Quasi-experimental	Individual/household	Agricultural productivity, Health, Welfare

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
58	Menon et al. (2014)	East Asia & Pacific	Vietnam	Household Living Standards Survey (VHLSS) (2004, 2008)	Land Law (1993)	Access/use, Alienation, Ownership/inheritance	Quasi-experimental	Individual/household	Education, Health
59	Menon et al. (2017)	East Asia & Pacific	Vietnam	Household Living Standards Survey (VHLSS) (2004, 2008)	Land Law (1993)	Access/use, Alienation, Ownership/inheritance	Quasi-experimental	Individual/household	Welfare, Women’s empowerment
60	Mishra & Sam (2016)	South Asia	Nepal	DHS (2001, 2011)	Amendments to the Interim Constitution of Nepal (2002, 2007)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
61	Montcho et al. (2023)	Sub-Saharan Africa	Burkina Faso	Primary (2019–20)		Access/use, Ownership/inheritance	Non-experimental	Individual/household	Welfare
62	Muchomba (2017)	Sub-Saharan Africa	Ethiopia	Rural Household Survey (1994, 1994, 1997, 1999, 2004, 2009)	Land Certification Program (1998)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
63	Muchomba et al. (2014)	Sub-Saharan Africa	Kenya	DHS (1998, 2003, 2008–9)		Access/use, Ownership/inheritance	Non-experimental	Individual/household	Health, Women’s empowerment
64	Murshid (2017)	South Asia	Pakistan	DHS (2012–13)		Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment
65	Neog & Sahoo (2020)	South Asia	India	IHDS (2004–5, 2011–12)		Access/use, Alienation, Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment
66	Newman et al. (2015)	South Asia	Vietnam	Access to Resources Household Survey (VARHS) (2006, 2008, 2010)	Land Law (1993)	Access/use, Alienation, Exclusion, Ownership/inheritance	Quasi-experimental	Plot	Agricultural productivity
67	Nguyen & Le (2023)	East Asia & Pacific	Vietnam	Access to Resources Household Survey (VARHS) (2008, 2010)		Access/use, Alienation, Ownership/inheritance	Non-experimental	Individual/household	Financial inclusion, Social capital and collective action, Women’s empowerment
68	Nwaka et al. (2020)	Sub-Saharan Africa	Nigeria	LSMS-ISA (2010–11, 2012–13)		Ownership/inheritance	Non-experimental	Individual/household	Health
69	Owoo & Boakye-Yiadom (2015)	Sub-Saharan Africa	Kenya	Omondi Obunde et al. (2004) (2001)		Ownership/inheritance	Non-experimental	Individual/household	Agricultural productivity
70	Oyawole et al. (2021)	Sub-Saharan Africa	Nigeria	ECOWAS–RAAF–PASANAO (2017)		Management, Ownership/inheritance	Non-experimental	Plot	Investment and environmental sustainability

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	'Bundle of rights' operationalization	Methods	Outcome(s) measurement level	Outcome classification
71	Panda & Agarwal (2005)	South Asia	India	Primary (2001)		Ownership/inheritance	Non-experimental	Individual/household	Women's empowerment
72	Persha et al. (2017)	Sub-Saharan Africa	Ethiopia	Primary (2007, 2012, 2015)	Land Tenure Administration Program (ELTAP) (2005–2008), Land Administration Program (ELAP) (2008–13)	Ownership/inheritance	Quasi-experimental	Individual/household	Financial inclusion, Investment and environmental sustainability, NRM, Welfare, Social stability
73	Peterman (2011)	Sub-Saharan Africa	Tanzania	Kagera Health and Development Survey (KHDS) (1991–94, 2004)		Ownership/inheritance	Non-experimental	Individual/household	Financial inclusion, Welfare, Women's empowerment
74	Peterman et al. (2017)	East Asia & Pacific, Europe & Central Asia, Latin America & Caribbean, Middle East & North Africa, South Asia, Sub-Saharan Africa	Cambodia, Philippines, Kyrgyz Republic, Dominican Republic, Haiti, Honduras, Egypt, Jordan, Nepal, Pakistan, Burkina Faso, Comoros, Côte d'Ivoire, DRC, Gabon, Gambia, Malawi, Mali, Mozambique, Namibia, Nigeria, Rwanda, Sierra Leone, Tanzania, Togo, Uganda, Zambia, Zimbabwe	Various DHS between 2010–14 (Cambodia: 2014, Philippines: 2013, Kyrgyz Republic: 2012, Dominican Republic: 2010, Haiti: 2012, Honduras: 2011–12, Egypt: 2014, Jordan: 2012, Nepal: 2011, Pakistan: 2012–13, Burkina Faso: 2010, Comoros: 2012, Côte d'Ivoire: 2011–12, DRC: 2013–14, Gabon: 2012, Gambia: 2013, Malawi: 2010, Mali: 2012–13, Mozambique: 2011, Namibia: 2013, Nigeria: 2013, Rwanda: 2010, Sierra Leone: 2013, Tanzania: 2010, Togo: 2013–14, Uganda: 2011, Zambia: 2013–14, Zimbabwe: 2010–11)		Ownership/inheritance	Non-experimental	Individual/household	Women's empowerment

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
75	Quisumbing & Maluccio (2003)	East Asia & Pacific, South Asia, Sub-Saharan Africa	Indonesia, Bangladesh, Ethiopia, South Africa	Indonesia: IFPRI-BIDS-INS (1996–97), Bangladesh: Primary (1996–97), Ethiopia: EHRS (1997), South Africa: ZwaZulu-Natal Income Dynamics Study (KIDS) (1993, 1998)		Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment
76	Quisumbing (2003)	East Asia & Pacific	Philippines	Primary (1985, 1989, 1997, 1998)	Comprehensive Agrarian Reform Program (CARP) (1988)	Ownership/inheritance	Quasi-experimental	Individual/household	Education
77	Rehman & Razzaq (2019)	South Asia	India	DHS (2012–13)		Ownership/inheritance	Non-experimental	Individual/household	Health
78	Rosenblum (2015)	South Asia	India	DHS (1992–93, 1998–99, 2005–06)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Women’s empowerment
79	Roy (2015)	South Asia	India	REDS (1999)	Hindu Succession (Amendment) Act (2005)	Ownership/inheritance	Quasi-experimental	Individual/household	Education
80	Santos et al. (2014)	South Asia	India	Primary (2010–12)	Nijo Griha, Nijo Bhumi (NGNB) (2006)	Ownership/inheritance	Quasi-experimental	Individual/household	Financial inclusion, Health, Investment and environmental sustainability, Women’s empowerment
81	Schling & Pazos (2024)	Latin America & Caribbean	Peru	Primary (2019)	Rural Land Cadaster, Titling and Registration Project (PTRT-3)	Ownership/inheritance	Quasi-experimental	Individual/household	Financial inclusion, Health, Women’s empowerment
82	Sheldon & Shwachman Kaminaga, 2023	Sub-Saharan Africa	Benin	DHS (2017–18)		Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment
83	Shi et al. (2024)	East Asia & Pacific	China	Health and Nutrition Survey (CHNS) (2000, 2004, 2006, 2009, 2011, 2015)	Rural Land Contracting Law (starting between 2003–06, depending on the province)	Alienation	Quasi-experimental	Individual/household	Women’s empowerment
84	Shwachman Kaminaga & Sheldon (2023)	Sub-Saharan Africa	Benin, Burundi, Ethiopia, Malawi,	Various DHS between 2015–17 (Benin: 2017–18;		Ownership/inheritance	Non-experimental	Individual/household	Women’s empowerment

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	‘Bundle of rights’ operationalization	Methods	Outcome(s) measurement level	Outcome classification
			Senegal, Tanzania, Uganda, Zimbabwe	Burundi: 2016–17; Ethiopia: 2016; Malawi: 2015–16; Senegal: 2017; Tanzania: 2015–16; Uganda: 2016; Zimbabwe: 2015)					
85	Sommer et al. (2024)	Multi-region	Multi-country	World Resources Institute's Global Forest Watch (2001–15) (for forest loss); V-Dem (2000) (for property rights)		Ownership/inheritance	Non-experimental	Country	Investment and environmental sustainability
86	Song & Dong (2017)	East Asia & Pacific	China	Women Social Status Survey (CWSS) (2010)		Ownership/inheritance	Non-experimental	Individual/household	Women's empowerment
87	Swaminathan et al. (2012)	South Asia	India	IHDS (2005)		Ownership/inheritance	Non-experimental	Individual/household	Women's empowerment
88	Teklewold (2023)	Sub-Saharan Africa	Ethiopia, Malawi, Tanzania, Nigeria	Various LSMS-ISA between 2010–2017 (Ethiopia: 2013–14, 2015–16; Malawi: 2013–14, 2016–17; Tanzania: 2010–11, 2012–13; Nigeria: 2012–13, 2015–16)		Management, Ownership/inheritance, Withdrawal	Non-experimental	Individual/household	Investment and environmental sustainability
89	Tossou (2022)	Sub-Saharan Africa	Benin	Global Analysis of Vulnerability and Food Security (AGVSA) (2017)		Ownership/inheritance	Non-experimental	Individual/household	Health
90	Totouom (2024)	Sub-Saharan Africa	Cameroon	DHS (2018–19)		Ownership/inheritance	Non-experimental	Individual/household	Investment and environmental sustainability
91	Viet Cuong (2022)	East Asia & Pacific	Vietnam	LSMS (2004, 2014)		Access/use, Ownership/inheritance	Non-experimental	Individual/household	Financial inclusion
92	Walther (2018)	Sub-Saharan Africa	Malawi	HIS (2012)		Ownership/inheritance	Non-experimental	Individual/household	Welfare
93	Ward & Harlow (2021)	Sub-Saharan Africa	Kenya	DHS (2014)		Ownership/inheritance	Non-experimental	Individual/household	Investment and environmental sustainability
94	Wiig (2013)	Latin America & Caribbean	Peru	PeruLandGender Household Survey (PLG) (2010)	Special Land Titling and Cadaster Project (PETT) (1996–2000, 2000–06)	Ownership/inheritance	Quasi-experimental	Individual/household	Women's empowerment

#	Study	Region	Country	Data and time coverage	Program or reform (if any)	'Bundle of rights' operationalization	Methods	Outcome(s) measurement level	Outcome classification
95	Wiig et al. (2011)	Latin America & Caribbean	Peru	PeruLandGender Household Survey (PLG) (2010)	Special Land Titling and Cadaster Project (PETT) (1996–2000, 2000–06)	Ownership/inheritance	Experimental	Individual/household	Women's empowerment
96	Yokying & Lambrecht (2020)	Sub-Saharan Africa	Ghana	Feed the Future Baseline Survey		Alienation, Ownership/inheritance	Non-experimental	Individual/household	Social capital and collective action, Women's empowerment

Table D2: Summary statistics on articles included in the review

	Count (articles)	Percentage (articles)
<i>Regions</i>		
East Asia & Pacific	12	13%
Europe & Central Asia	1	1%
Latin America & Caribbean	10	10%
Middle East & North Africa	2	2%
South Asia	26	27%
Sub-Saharan Africa	54	56%
Multi-region	2	2%
<i>Countries</i>		
Single country	2	2%
Multi-country	94	98%
<i>Development outcomes</i>		
Agricultural productivity	13	14%
Education	8	8%
Financial inclusion	8	8%
Health	20	21%
Intra-household dynamics	1	1%
Investment and environmental sustainability	19	20%
Natural resources management	3	3%
Social capital and collective action	3	3%
Social stability	1	1%
Welfare	11	11%
Women's empowerment	45	47%
<i>Methods</i>		
Non-experimental	57	59%
Quasi-experimental	37	39%
Experimental	2	2%
<i>'Bundle of rights' operationalization</i>		
Ownership/Inheritance	86	90%
Alienation	16	17%
Access/Use	13	13%
Management	9	9%
Withdrawal	5	5%
Exclusion	5	5%
<i>Land program or reform</i>		
Yes	34	35%
No	62	65%
<i>Outcome(s) measurement level</i>		
Plot	16	17%
Individual/Household	78	81%
Country	2	2%

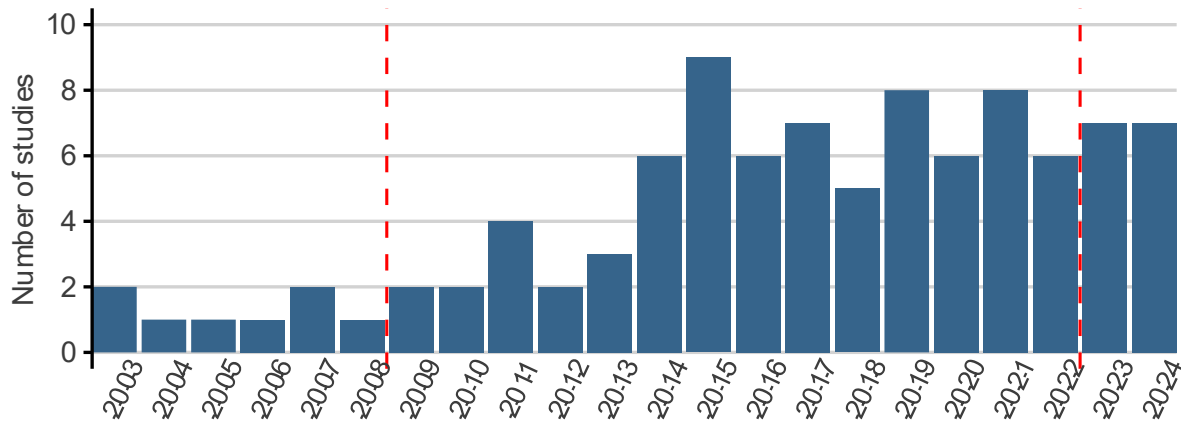
Source: Authors' elaboration. Note: A single study may report on multiple countries and development outcomes, as well as focus on different LR typologies. As a result, the sum of percentages within the 'Regions,' 'Development outcomes,' and "'Bundle of rights' operationalization' categories may exceed 100%.

Appendix E – Trends in Scholarly Publications over Time

Although no study published before 2003 met the eligibility criteria, the subsequent growth in relevant literature reflects rising academic and policy attention to WLR, supported by improved availability of gender-disaggregated data. After 2008, scholarly and policy engagement with land tenure issues increased substantially due to global pressures on farmland and the recognition of

tenure security's importance for rural communities (De Schutter, 2015). This trend is reflected on growing research on women's access to land, highlighting increased focus on vulnerable groups.

Figure E1: Distribution of articles by publication year



Source: Authors' elaboration. Note: The dashed lines mark the start of two significant global events that intensified land pressures in the Global South: the surge in transnational large-scale land acquisitions (2008) and the Russian invasion of Ukraine (2022).

The persistent interest from scholars in this topic over time may have also been sustained by international events such as Russia's invasion of Ukraine, which fueled global concerns about resource availability and food security. By disrupting grain and fertilizer supply chains, the conflict has contributed to rising prices of food, energy and agricultural inputs (Dell'Angelo et al., 2023), intensifying strategic concerns among high-income countries regarding their future access to productive land (Mustafa, 2022; Abay et al., 2023).