

Alert No. 68 (22 July 2021)

1. [The agroecological transition of agricultural systems in the Global South. Edited by F-X, Cote et al. AFD and CIRAD \(2019\).](#)
2. [Agri-Hire in Sub-Saharan Africa: Business models for investing in sustainable mechanization. By Karim Houmy et al. FAO Investment Centre \(2021\).](#)
3. [Advances in Conservation Agriculture Volume 3: Adoption and Spread. Edited by A.H. Kassam, Burleigh Dodds, Cambridge, UK \(September 2021\).](#)
4. [Design, fabrication and assessment of direct seeder in Benin Republic. By Ephrème Dossavi Dayou et al. AgricEngInt: CIGR Journal \(2021\).](#)
5. [Farmer-led Regenerative Agriculture for Africa. By Lunn-Rockcliffe et al. Institute for Global Study, London \(2020\).](#)
6. [Mapping farmer perceptions, Conservation Agriculture practices and on-farm measurements: The role of systems thinking in the process of adoption. By Baqir Lalani et al. Agricultural Systems 191 \(2021\).](#)
7. [Climate reality check 2020: 20 Understandings, observations and insights. By David Pratt et al. Breakthrough – National Centre for Climate Restoration \(2020\).](#)
8. [Reorienting Indian Agriculture: Challenges and Opportunities. By R.S. Paroda. CABI, Wallingford, UK \(2018\).](#)
9. [Pesticides in a case study on no-tillage farming systems and surrounding forest patches in Brazil. By Karlo Alves da Silva et al. Nature Portfolio. Scientific Reports \(2021\).](#)

- 10. The State of Food Security and Nutrition in the World. Transforming food systems for food security, improved nutrition and affordable healthy diets for all. FAO, Rome (2021).**
- 11. Sustainable Intensification of Maize-Legume Systems for Food Security in Eastern and Southern Africa (SIMLESA): Lessons and Way Forward. By Erin Wilkus et al. ACIAR (2021).**
- 12. Manual on Conservation Agriculture and Scale Appropriate Agricultural Mechanization in Smallholder Systems. By Yadvinder-Singh et al. CIMMYT (2021).**
- 13. The United Nations World Water Development Report 2021: Water and Climate Change. UNESCO (2021).**
- 14. Why do medium- and large-scale farmers succeed practicing CA and small-scale farmers often do not? – experiences from Paraguay. Rolf Derpsch et al. International Journal of Agricultural Sustainability (2015).**

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Conservation Agriculture is an ecological approach to regenerative sustainable agriculture and ecosystem management based on the practical application of context-specific and locally adapted three interlinked principles of: (i) Continuous no or minimum mechanical soil disturbance (no-till seeding/planting and weeding, and minimum soil disturbance with all other farm operations including harvesting); (ii) permanent maintenance of soil mulch cover (crop biomass, stubble and cover crops); and (iii) diversification of cropping system (economically, environmentally and socially adapted rotations and/or sequences and/or associations involving annuals and/or perennials, including legumes and cover crops). These practices are complemented with other good agricultural production and land management practices. Conservation Agriculture systems are present in all continents, involving rainfed and irrigated systems including annual cropland systems, perennial systems, orchards and plantation systems, agroforestry systems, crop-livestock systems, pasture and rangeland systems, organic production systems and rice-based systems. Conservation Agriculture systems operate regeneratively at multiple levels to harness a range of productivity, economic, environmental and social benefits as well as address local and global concerns related to food and water security, climate change, land degradation, biodiversity and smallholder agricultural development. Conservation Tillage, Reduced

Tillage, Low tillage and Minimum Tillage are not Conservation Agriculture, and nor is No-Till on its own (more at: <http://www.fao.org/conservation-agriculture>).

The latest (2015/16) CA area information available from: [**Global spread of Conservation Agriculture. By A. Kassam et al. International Journal of Environmental Studies. Published Online \(2018\).**](#)

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