

**Alert No. 61 (31 January 2020)**

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2. Conservation Agriculture in trouble? Estimating the economic impact of an eventual glyphosate prohibition in Spain. By G.Pardo and Y.Martinez. Planta Daninha 37:e019197994. 2019.
3. Analysing challenges facing smallholder farmers and Conservation Agriculture in South Africa: A system dynamics approach. By Wolfgang von Loeper et al. SAJEMS Asset research NS 19 (2016) No 5:747-77 (2016).
4. Producing food while protecting the environment: Inter-disciplinary research methods for international research on Conservation Agriculture based sustainable intensification (CASI). By John M. Dixon et al. Agricultural Science Special Issue: ACIAR at Work: Interdisciplinary research into smallholder farming systems. Combined Volumes 30(2) and 31(1): Eds. J.M.Dixon and S.G.Coffey (2019).
5. Bridging the disciplinary gap in conservation agriculture research, in Malawi. A review. By Thirze D. G. Hermans et al. Agronomy for Sustainable Development 40:3 ((2020).
6. Identifying the drivers and predicting the outcome of Conservation Agriculture globally. By John P. Laborde et al. Agricultural Systems 177 (2020).
7. An Opportunity for Regenerative Rice Production: Combining Plastic Film Cover and Plant Biomass Mulch with No-Till Soil Management

- to Build Soil Carbon, Curb Nitrogen Pollution, and Maintain High-Stable Yield. By Shi Hua Lv et al. Agronomy 9 (2019).
8. The spread of no-till in conservation agriculture systems in Italy: indications for rural development policy-making. By Danilo Marandola et al. Agricultural and Food Economics 7:7 (2019).
  9. Modeling the Impacts of Conservation Agriculture with a Drip Irrigation System on the Hydrology and Water Management in Sub-Saharan Africa. By Tewodros Assefa et al. Sustainability 1 (2018).
  10. Tillage and crop rotations enhance populations of earthworms, termites, dung beetles and centipedes: evidence from a long-term trial in Zambia. By T. Muoni et al. The Journal of Agricultural Science 1:11 (2019).
  11. Productivity and profitability of maize-legume cropping systems under conservation agriculture among smallholder farmers in Malawi. By Amos Gwira et al. Acta Agriculturae Scandinavica, Section B — Soil & Plant Science (2020).
  12. Combining no-till with rye (*Secale cereale*L.) cover crop mitigates nitrous oxide emissions without decreasing yield. By Andrea Fiorinia et al. Soil & Tillage Research 196 (2020).

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Conservation Agriculture is an ecosystem approach to regenerative sustainable agriculture and land 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 much 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 perennials, including legumes and cover crops), along with other complementary 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 Tillage and Minimum Tillage are not Conservation Agriculture, and nor is No-Till on its own (more at: <http://www.fao.org/conservation-agriculture>).

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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