

Alert No. 71 (30 December 2021)

1. Conservation Agriculture Effects on Soil Water Holding Capacity and Water-Saving Varied with Management Practices and Agroecological Conditions: A Review. By Ahmed M. Abdallah et al. Agronomy 2021, 11. 2021.
2. Improving weed control in sustainable agro-ecosystems: Role of cultivar and termination timing of rye cover crop. By Roberta Boselli et al. Italian Journal of Agronomy 2021; volume 16. 2021.
3. Direct Driller Magazine: The Future of Your Soils. Issue 16. UK. 2021.
4. Driving crop yield, soil organic C pools, and soil biodiversity with selected winter cover crops under no-till. By Andrea Fiorini et al. Soil & Tillage Research 217. 2021.
5. Benefits of Conservation Agriculture in Watershed Management: Participatory Governance to Improve the Quality of No-Till Systems in the Paraná 3 Watershed, Brazil. By Ivo Mello et al. Agronomy 11. 2021.
6. Soil Health Check-Up of Conservation Agriculture Farming Systems in Brazil. By Jardel Passinato et al. Agronomy 11. 2021.
7. Effect of fertilizer management on the soil bacterial community in agroecosystems across the globe. By Pengfei Dang et al. Agriculture, Ecosystems and Environment 326. 2022.
8. Sustainable mechanization innovations for economic growth of smallholders: Partnership with African Conservation Tillage Network. FAO, ACT. 2021.

9. Attributes of Farm Income Operating on Conservation Agriculture: The Multivariate and ANN Analytics. By Cornea Saha et al. Indian Journal of Extension Education 58 (1): 44-48. 2022.
10. Short-term yield gains or long-term sustainability? – a synthesis of Conservation Agriculture long-term experiments in Southern Africa. By Christian Thierfelder and Blessing Mhlanga. Agriculture, Ecosystems and Environment 326. 2021.
11. Interaction of Inherited Microbiota from Cover Crops with Cash Crops. By Kelly Ulcuango et al. Agronomy 11. 2021.
12. Mobilizing Greater Crop and Land Potentials with Conservation Agriculture. By Amir Kassam et al. Journal of Agricultural Physics 21(1). 2021.

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URL: <http://www.fao.org/conservation-agriculture>

URL: <http://www.act-africa.org/>

URL: <https://ecaf.org/>

URL: <http://www.caa-ap.org/>

Conservation Agriculture (CA) 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 complementary good agricultural production and land management practices to generate and sustain optimum performance.

CA 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. CA systems operate regeneratively at multiple levels to optimally 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 CA, and nor is No-Till on its own. For a practice or a method to be referred to as a CA practice or method, it must be part of a CA system. If not, then it is what it is, a practice or a method

similar to any other with its own name e.g., no-till seeding, or mulching, or crop diversification, etc (more at: <http://www.fao.org/conservation-agriculture>).

The 2018/19 CA area information is available at: [CA Stat — CA Global \(ca-global.net\)](http://ca-global.net)

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