

Alert No. 75 (24 May 2022)

1. Long Term Effects of Tillage–Crop Rotation Interaction on Soil Organic Carbon Pools and Microbial Activity on Wheat-Based System in Mediterranean Semi-Arid Region. By Sayda Jaziri et al. Agronomy 12. 2022.
2. Open Questions and Research Needs in the Adoption of Conservation Agriculture in the Mediterranean Area. By Michele Rinaldi et al. Agronomy 12. 2022.
3. Conservation Agriculture in Semi-Arid Zimbabwe: A Promising Practice to Improve Finger Millet (*Eleusine coracana* Gaertn.) Productivity and Soil Water Availability in the Short Term. By Vengai Mbanyele et al. Agriculture 12. 2022.
4. Impact and opportunity of Conservation Agriculture on food and nutrition security in Timor Leste. By Vincente De et al. National Centre for Scientific Research, National University of Timor Lorosa'e and FAO, Dili, Timor Leste. 2018.
5. Effect of Catch Crops and Tillage Systems on the Content of Selected Nutrients in Spring Wheat Grain. By Cezary Andrzej Kwiatkowski et al. Agronomy 22. 2022.
6. Comparison of mechanized conservation agriculture and conventional tillage in Zambia: A short-term agronomic and economic analysis. By Godfrey Omulo et al. Soil & Tillage Research 221. 2022.
7. Weed interference and wheat productivity in a conservation agriculture-based maize-wheat-mungbean system. By S. Ghosh et al. Journal of Crop and Weed, 18(1): 111-119. 2022.

8. Improving Water Productivity in Conservation Agriculture. By Girija Prasad Patnaik et al. Advances in Agronomy Vol. 17. AkiNik Publications, New Delhi. 2022.
9. Early season plant cover supports more effective pest control than insecticide applications. By Elizabeth K. Rowen et al. Ecological Applications. 2021.
10. Sustainable Intensification of a Rice–Maize System through Conservation Agriculture to Enhance System Productivity in Southern India. By Mangal Deep Tuti et al. Plants 11. 2022.
11. Zero tillage has important consequences for soil pore architecture and hydraulic transport: A review. By D. Luke R. Wardak et al. Geoderma 422. 2022.
12. Integration of tillage indices and textural features of Sentinel-2A multispectral images for maize residue cover estimation. By Xiaoyun Xiang et al. Soil & Tillage Research 221. 2022.
13. Ditching the Plough: A social history of how Western Australian farmers started a revolution in their paddocks that gave us modern farming. MSc Thesis. By Jo Fulwood. Murdoch University, Australia. 2021.
14. Global Soil Organic Carbon Sequestration Potential Map (GSOCseq v.1.1) Technical report. FAO, Rome. 2022.
15. Recarbonizing Global Soils: A technical manual of recommended management practices. 6 volumes. FAO, Rome. 2022.
16. Ecosystem Services: Types, Management and Benefits. Edited by Hanuman Singh Jatav and Vishnu D. Rajput. Nova Science Publishers, New York, USA. 2022.
17. Climate change, agriculture and livelihoods in Lebanon: Consolidated livelihoods exercise for analyzing resilience. By Nadim Farajalla et al. American University of Beirut and World Food Programme. 2022.

- 18. Biennial Africa Climate Smart Agriculture Stakeholders Conference. Accra, Ghana. 1-2 December 2020. Edited by Oluwole A. Fatunbi and Paolo Sarfatti.**
- 19. The Future of Agriculture: A common agenda -- Recommendations of the Commission on the Future of Agriculture (ZKL). 2021.**
- 20. The Future of Food Production. Association of Equipment Manufacturers. 2022.**
- 21. Transforming Food Systems with Farmers: A Pathway for the EU. Insight Paper. World Economic Forum. 2022.**

Amir Kassam

Moderator

Global CA-CoP

e-mail: amirkassam786@gmail.com

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. There is no such thing as partial CA.

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

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