

Alert No. 55 (5 July 2018)

1. [Plantas de Cobertura: Manual Técnico. By Ademir Calegari, Projeto Solovivo. IAPAR, Brazil \(2016\).](#)
2. [Potential for Conservation Agriculture in the Dry Marginal Zone of Central Syria: A Preliminary Assessment. By Baqir Lalani et al. Sustainability 10:1-19 \(2018\).](#)
3. [The 4 per 1000 goal and soil carbon storage under agroforestry and Conservation Agriculture systems in sub-Saharan Africa. By Marc Corbeels et al. \(2018\).](#)
4. [Census Parcels Cropping System Classification from Multitemporal Remote Imagery: A Proposed Universal Methodology. By Luis García-Torres et al. PLoS ONE 10\(2\) \(2014\).](#)
5. [Effect of tillage and crop \(cereal versus legume\) 1 on greenhouse gas emissions and Global Warming Potential in a non-irrigated Mediterranean field. By Guillermo Guardia et al. Agriculture Ecosystems & Environment \(2016\).](#)
6. [Driving factors of soil carbon accumulation in Oxisols in long-term no-till systems of South Brazil. By Ademir de Oliveira Ferreira et al. Science of the Total Environment 622–623 \(2018\) 735–742 \(2018\).](#)
7. [Climate risk management and rural poverty reduction. By James Hansen et al. Agricultural Systems \(2018\).](#)
8. [Agricultural Policies and Investment Priorities for Managing Natural Resources, Climate Change and Air Pollution; Policy brief. By Raj Paroda et al. TAAS, CIMMYT, ICAR, CCAFS, WB \(2018\).](#)

9. [Phenotyping Conservation Agriculture Management Effects on Ground and Aerial Remote Sensing Assessments of Maize Hybrids Performance in Zimbabwe. By Adrian Gracia-Romero et al. Remote Sens. 10 \(349\): 1-21 \(2018\).](#)
10. [Changes in soil organic carbon during 22 years of pastures, cropping or integrated crop/livestock systems in the Brazilian Cerrado. By Selenobaldo A. C. de Sant-Anna et al. Nutr Cycl Agroecosyst. 108:101–120 \(2017\).](#)
11. [Soil health – What should the doctor order? By M. Wood and A. M. Litterick. Soil Use and Management, 33, 339–345. \(2017\).](#)
12. [Should Soil Testing Services Measure Soil Biological Activity? By Alan J. Franzluebbers. Agric. Environ. Lett. 1 \(2016\).](#)
13. [Feeding the Nation and the World — Sustainably: The soil health roadmap to productive, sustainable farming in the 21st century and beyond. NRCS, USDA \(2011\).](#)
14. [On-farm soil health evaluations: Challenges and opportunities. By Douglas L. Karlen et al. Journal of Soil and Water Conservation. 72\(2\):26-31 \(2017\).](#)
15. [Complementary practices supporting conservation agriculture in southern Africa. A review. By Christian Thierfelder et al. Agronomy for Sustainable Development 38:16 \(2018\).](#)
16. [Zero-tillage as a pathway for sustainable wheat intensification in the Eastern Indo-Gangetic Plains: does it work in farmers' fields? By Alwin Keil et al. Food Sec. 7:983–1001 \(2015\).](#)
17. [Farm-level Economic Analysis - Is Conservation Agriculture Helping the Poor? By Baqir Lalani et al. Ecological Economics 141: 144–153 \(2017\).](#)
18. [Does Zero Tillage Improve the Livelihoods of Smallholder Cropping Farmers? By Tamer El-Shater et al. Journal of Agricultural Economics, 67 \(1\): 154–172 \(2016\).](#)

19. [Minimal soil disturbance and increased residue retention increase soil carbon in rice-based cropping systems on the Eastern Gangetic Plain. By Md. Khairul Alam et al. Soil and Tillage Research 183: 28-41 \(2018\).](#)
20. [Enzymes and C pools as indicators of C build up in short-term conservation agriculture in a savanna ecosystem in Cambodia. By Lyda Hok et al. Soil & Tillage Research 177:125-133 \(2018\).](#)

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Conservation Agriculture is based on the practical application of three interlinked principles of: (i) Continuous no or minimum mechanical soil disturbance (no-till seeding/planting and no-till weeding); (ii) permanent maintenance of soil much cover (crop biomass, stubble and cover crops); and (iii) diversification of cropping system (rotations and/or sequences and/or associations involving annuals and perennials, including legumes), along with other complementary good agricultural practices (more at: www.fao.org/ag/ca)

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