

Alert No. 53 (15 February 2018)

- 1. Climate Smart Agriculture Sourcebook. Summary Second Edition. FAO, Rome (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/book/1.pdf>**
- 2. Innovative Viable Solution to Rice Residue Burning in Rice-Wheat Cropping System through Concurrent Use of Super Straw Management System-fitted Combines and Turbo Happy Seeder. Policy Brief No. 2. National Academy of Agricultural Sciences, New Delhi, India (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/technical/2.pdf>**
- 3. Soil carbon debt of 12,000 years of human land use. By Jonathan Sanderman et al. PNAS 114 (36): 9575-9580 (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/paper/3.pdf>**
- 4. Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. By Jennifer W. Harden et al. Global Change Biology 1-17 (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/paper/4.pdf>**
- 5. The ecology of soil carbon pools, vulnerabilities, and biotic and abiotic control. By Robert Jackson et al. Annu. Rev. Ecol. Evol. Syst. 48:419-445 (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/paper/5.pdf>**
- 6. Recent Highlights on Healthy Soils Work around the World prepared by Breakthrough Strategies and Solutions (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/technical/6.pdf>**
- 7. Reducing greenhouse gas emissions in agriculture without compromising food security? By Stefan Frank et al. Environ. Res. Lett. 12: 1-14 (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/paper/7.pdf>**
- 8. An Innovative Versatile Multi-crop Planter for Crop Establishment Using Two-wheel Tractors. By Md Enamul Haque et al. Agricultural Mechanization in Asia, Africa and Latin America 48 (3): 34-39 (2017). <http://www.conservationalagriculturedatabase.eu/database/assets/paper/8.pdf>**

- 9.** Adoption impacts of Conservation Agriculture technology at farm level in Bangladesh. By M. A. Monayem Mia et al. BARI, Bangladesh, ACIAR, Australia and Murdoch University, Australia (2017).
<http://www.conservationsagriculturedatabase.eu/database/assets/technical/9.pdf>
- 10.** Weed control under conservation agriculture in dryland smallholder farming systems of southern Africa. A review. By Nicole Lee and Christian Thierfelder. *Agron. Sustain. Dev.* 37 (48): 4-25 (2017).
<http://www.conservationsagriculturedatabase.eu/database/assets/paper/10.pdf>
- 11.** The adaptive capacity of maize-based conservation agriculture systems to climate stress in tropical and subtropical environments: A meta-regression of yields. By Peter Steward et al. *Agriculture, Ecosystems and Environment* 251: 194-202 (2018).
<http://www.conservationsagriculturedatabase.eu/database/assets/paper/11.pdf>
- 12.** Can conservation tillage mitigate climate change impacts in Mediterranean cereal systems? A soil organic carbon assessment using long term experiments. By Ileana Iocola et al. *European Journal of Agronomy* 90@ 96-107 (2017).
<http://www.conservationsagriculturedatabase.eu/database/assets/paper/12.pdf>
- 13.** Conservation Agriculture and Soil Carbon Sequestration. By Ch. Srinivasarao et al. In: *Conservation Agriculture*. Chapter 19. PP 479-523. M. Farooq and K.H.M. Siddique (eds). Springer International, Switzerland (2015).
<http://www.conservationsagriculturedatabase.eu/database/assets/book/13.pdf>
- 14.** Conservation Agriculture and its impact on soil quality and maize yield: A South African perspective. By Nkanyiso J. Sithole et al. *Soil & Tillage Research* 162: 55–67 (2016). <http://www.conservationsagriculturedatabase.eu/database/assets/paper/14.pdf>
- 15.** Conventional tillage decreases the abundance and biomass of earthworms and alters their community structure in a global meta-analysis, By Maria Jesus I. Briones and Olaf Schmidt. *Global Change Biology* 23:4396–4419 (2017).
<http://www.conservationsagriculturedatabase.eu/database/assets/paper/15.pdf>
- 16.** Proceedings of the 7th World Congress on Conservation Agriculture. 1-4 August 2017, Aapresid, Rosario, Argentina.
<http://www.conservationsagriculturedatabase.eu/database/assets/book/16.pdf>
- 17.** Up-dating Conservation Agriculture Database in AquaStat, FAO.

The CA land area database is updated periodically based on the feedback received from our regular sources of information. These include: official government sources, no-till associations, NGOs, national and international research institutes, and informed

individuals. The information is posted in AquaStat. The latest figures (update 2013/14) can be seen at the FAO CA-Website at: <http://www.fao.org/ag/ca/6c.html>

An interim update for 2015/16 can be found on pages 16-19 of the Proceedings of the 7th World Congress on Conservation Agriculture at:
https://proceedingswcca.files.wordpress.com/2017/08/7th-wcca_proceedings_final.pdf

Amir Kassam

Moderator

e-mail: amirkassam786@gmail.com

URL: www.fao.org/ag/ca

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