

# **Global CA-CoP** CONSERVATION AGRICULTURE COMMUNITY OF PRACTICE *for sustainable agriculture and land management*

## **Alert No. 57 (19 December 2018)**

1. The adaptive capacity of maize-based Conservation Agriculture systems to climate stress in tropical and sub-tropical environments: a meta-regression analysis. By Peter Steward et al. *Agricultural Ecosystems and Environment* 251: 194-202 (2018).
2. A Review of Tillage Practices and Their Potential to Impact the Soil Carbon Dynamics. By Promil Mehra et al. *Advances in Agronomy* (2018)
3. Manual for smallholders' Conservation Agriculture in rice-based systems. By Enamul Haque et al. ACIAR and Murdoch University, Australia.
4. Listening to earthworms burrowing and roots growing – acoustic signatures of soil biology activities. By Marine Lacoste et al. *Scientific Reports* 8: 10236 (2018).
5. Effects of agricultural management practices on soil quality: A review of long-term experiments for Europe and China. By Zhanguo Bai et al. *Agriculture, Ecosystems and Environment* 265: 1-7 (2018).
6. How Conservation Agriculture can mitigate greenhouse gas emissions and enhance soil carbon storage in croplands. By Craig Drury et al. Croplands Research Group/Conservation Agriculture Network. Global Research Alliance on Agricultural Greenhouse Gases (2017).
7. Conservation Agriculture systems alter the electrical characteristics (Eh, pH and EC) of four soil types in France. By Olivier Husson et al. *Soil & Tillage Research* 176: 57-68 (2018).
8. Co-designing innovative cropping systems that match biophysical and socio-economic diversity: The DATE approach to Conservation Agriculture in Madagascar, Lao PDR and Cambodia. By Olivier Husson et al. *Renewable Agriculture and Food Systems* (2016).
9. Conservation Agriculture Improves Soil Quality, Crop Yield, and Incomes of Smallholder Farmers in North Western Ghana. By Jesse Naab et al. *Frontiers in Plant Science* 8 (2017).
10. No-till banana planting on crop residue mulch: Effect on soil quality and soil functioning. By Marc Dorel et al. *Fruits* 65: 55–68 (2010).
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16. Evaluation of long-term Conservation Agriculture and crop intensification in rice-wheat rotation of Indo-Gangetic Plains of South Asia: Carbon dynamics and productivity. By S.K.Samal et al. *European Journal of Agronomy* 90: 198-208 (2017).
17. Long-term use of cover crops and no-till shift soil microbial community life strategies in agricultural soil. By Rodomir Schmidt et al. *PLoS ONE* 13 (2) e0192953 (2018).
18. When the going gets tough: Performance of stress tolerant maize during the 2015/16 (El Niño) and 2016/17 (La Niña) season in southern Africa. By Peter Setimela et al. *Agriculture, Ecosystems and Environment* 268:79-89 (2018).
19. Data Descriptor: Smart subsidies for catchment conservation in Malawi. By A. R. Bell et al. *Sci. Data* 5 (2018)..
20. Impact of 47 years of no tillage and stubble retention on soil aggregation and carbon distribution in a Vertisol. By Jayaraman Somasundaram et al. *Land Degradation and Development* (2016).
21. Conservation Agriculture enhances resistance of maize to climate stress in a Malawian medium-term trial. By Peter Steward et al. *Agriculture, Ecosystems and Environment* (2018).
22. Differential impacts of Conservation Agriculture technology options on household income in Sub-Saharan Africa. By Justice Tambo and Jonathan Mockshell. *Ecological Economics*15:195-105 (2018).
23. Sustainable Weed Management for Conservation Agriculture: Options for Smallholder Farmers. By Brian Sims et al. *Agriculture* 8 (2018).
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Latest (2015/16) CA area information available at: **Global spread of Conservation Agriculture. By A. Kassam et al. International Journal of Environmental Studies. Published Online (2018)**