

CONSERVATION AGRICULTURE REFERENCES

- Alcántara, Viridiana, Axel Don, Reinhard Well, and Rolf Nieder. 2016. "Deep Ploughing Increases Agricultural Soil Organic Matter Stocks." *Global Change Biology* 22 (8): 2939–2956. <https://doi.org/10.1111/gcb.13289>.
- CTIC. 2017. "Report of the 2016-17 National Cover Crop Survey." September. West Lafayette, Indiana. <https://doi.org/10.3929/ethz-a-007116300>.
- Daughtry, C.S.T., P.C. Doraiswamy, E.R. Hunt, A.J. Stern, J.E. McMurtrey, and J.H. Prueger. 2006. "Remote Sensing of Crop Residue Cover and Soil Tillage Intensity." *Soil and Tillage Research* 91 (1–2): 101–8. <https://doi.org/10.1016/J.STILL.2005.11.013>.
- FAO. n.d. "Climate-Smart Agriculture." Accessed June 28, 2015. <http://www.fao.org/climate-smart-agriculture/en/>.
- "FAO:AG:Conservation Agriculture." 2015. Conservation Agriculture. 2015. <http://www.fao.org/ag/ca/>.
- Farooq, Muhammad, and Kadambot HM Siddique. 2015. *Conservation Agriculture*. Springer. <http://link.springer.com/content/pdf/10.1007/978-3-319-11620-4.pdf>.
- Finney, Denise M., Charles M. White, and Jason P. Kaye. 2016. "Biomass Production and Carbon/Nitrogen Ratio Influence Ecosystem Services from Cover Crop Mixtures." *Agronomy Journal* 108 (1): 39–52. <https://doi.org/10.2134/agronj15.0182>.
- Food and Agriculture Organization (FAO). 2016. "Summary: The Agriculture Sectors in the Intended Nationally Determined Contributions." Rome, Italy. <http://www.fao.org/3/a-i5666e.pdf>.
- Friedrich, Theodor, Rolf Derpsch, and Amir Kassam. 2012. "Overview of the Global Spread of Conservation Agriculture." *Field Actions Science Reports. The Journal of Field Actions*, no. Special Issue 6 (June). <http://factsreports.revues.org/1941>.
- Gabriel, José Luis, Alberto Garrido, and Miguel Quemada. 2013. "Cover Crops Effect on Farm Benefits and Nitrate Leaching: Linking Economic and Environmental Analysis." *Agricultural Systems* 121 (October): 23–32. <https://doi.org/10.1016/j.agsy.2013.06.004>.
- Giller, Ken E., Ernst Witter, Marc Corbeels, and Pablo Tittonell. 2009. "Conservation Agriculture and Smallholder Farming in Africa: The Heretics' View." *Field Crops Research* 114 (1): 23–34. <https://doi.org/10.1016/j.fcr.2009.06.017>.

Govaerts, Bram, N. Verhulst, A. Castellanos-Navarrete, K. D. Sayre, J. Dixon, and L. Dendooven. 2009. "Conservation Agriculture and Soil Carbon Sequestration: Between Myth and Farmer Reality." *Critical Reviews in Plant Sciences* 28 (3): 97–122. <https://doi.org/10.1080/07352680902776358>.

Griscom, Bronson W., Justin Adams, Peter W. Ellis, Richard A. Houghton, Guy Lomax, Daniela A. Miteva, William H. Schlesinger, et al. 2017. "Natural Climate Solutions." *Proceedings of the National Academy of Sciences* 114 (44): 11645–50. <https://doi.org/10.1073/pnas.1710465114>.

Guyton, Kathryn Z., Dana Loomis, Yann Grosse, Fatiha El Ghissassi, Lamia Benbrahim-Tallaa, Neela Guha, Chiara Scoccianti, et al. 2015. "Carcinogenicity of Tetrachlorvinphos, Parathion, Malathion, Diazinon, and Glyphosate." *The Lancet Oncology* 16 (5): 490–491. [https://doi.org/10.1016/S1470-2045\(15\)70134-8](https://doi.org/10.1016/S1470-2045(15)70134-8).

Hellin, Jonathan, and Santiago López Ridaura. 2016. "Soil and Water Conservation on Central American Hillsides: If More Technologies Is the Answer, What Is the Question?" *AIMS Agriculture and Food* 1 (2): 194–207. <https://doi.org/10.3934/agrfood.2016.2.194>.

Kaye, Jason P., and Miguel Quemada. 2017. "Using Cover Crops to Mitigate and Adapt to Climate Change. A Review." *Agronomy for Sustainable Development* 37 (1). <https://doi.org/10.1007/s13593-016-0410-x>.

Knowler, Duncan, and Ben Bradshaw. 2007. "Farmers' Adoption of Conservation Agriculture: A Review and Synthesis of Recent Research." *Food Policy* 32 (1): 25–48. <https://doi.org/10.1016/j.foodpol.2006.01.003>.

Lal, Rattan. 2010. "Managing Soils and Ecosystems for Mitigating Anthropogenic Carbon Emissions and Advancing Global Food Security." *BioScience* 60 (9): 708–21. <https://doi.org/10.1525/bio.2010.60.9.8>.

Mayer, Allegra, Zeke Hausfather, Andrew D. Jones, and Whendee L. Silver. 2018. "The Potential of Agricultural Land Management to Contribute to Lower Global Surface Temperatures." *Science Advances* 4 (8): 1–9. <https://doi.org/10.1126/sciadv.aag0932>.

Miguez, Fernando E., and Germán A. Bollero. 2005. "Review of Corn Yield Response under Winter Cover Cropping Systems Using Meta-Analytic Methods." *Crop Science* 45 (6): 2318–29. <https://doi.org/10.2135/cropsci2005.0014>.

Mutua, Joseph, Jonathan Muriuki, Peter Gachie, Mieke Bourne, and Jude Capis. 2014. "Conservation Agriculture With Trees: Principles and Practice." *A Simplified Guide for Extension Staff and Farmers. World Agroforestry Centre, (ICRAF) Nairobi, Kenya.* <http://www.worldagroforestry.org/downloads/Publications/PDFS/TM17693.pdf>.

Nail, Elizabeth L., Douglas L. Young, and William F. Schillinger. 2007. "Diesel and Glyphosate Price Changes Benefit the Economics of Conservation Tillage versus Traditional Tillage." *Soil and Tillage Research* 94 (2): 321–27. <https://doi.org/10.1016/j.still.2006.08.007>.

Pittelkow, Cameron M., Xinqiang Liang, Bruce A. Linn, Kees Jan van Groenigen, Juhwan Lee, Mark E. Lundy, Natasja van Gestel, Johan Six, Rodney T. Venterea, and Chris van Kessel. 2015. "Productivity Limits and Potentials of the Principles of Conservation Agriculture." *Nature* 517 (7534): 365–368. <https://doi.org/10.1038/nature13809>.

Poeplau, Christopher, and Axel Don. 2015. "Carbon Sequestration in Agricultural Soils via Cultivation of Cover Crops—A Meta-Analysis." *Agriculture, Ecosystems & Environment* 200: 33–41.

Poulton, Paul, Johnny Johnston, Andy Macdonald, Rodger White, and David S. Powlson. 2018. "Major Limitations to Achieving '4 per 1000' Increases in Soil Organic Carbon Stock in Temperate Regions: Evidence from Long-Term Experiments at Rothamsted Research, United Kingdom." *Global Change Biology* 24 (6): 2563–2584. <https://doi.org/10.1111/gcb.14066>.

Powlson, David S., Clare M. Stirling, M. L. Jat, Bruno G. Gerard, Cheryl A. Palm, Pedro A. Sanchez, and Kenneth G. Cassman. 2014. "Limited Potential of No-till Agriculture for Climate Change Mitigation." *Nature Climate Change* 4 (8): 678–683.

Quemada, M., M. Baranski, M.N.J. Nobel-de Lange, A. Vallejo, and J.M. Cooper. 2013. "Meta-Analysis of Strategies to Control Nitrate Leaching in Irrigated Agricultural Systems and Their Effects on Crop Yield." *Agriculture, Ecosystems & Environment* 174 (July): 1–10. <https://doi.org/10.1016/j.agee.2013.04.018>.

Quemada, Miguel, and Craig S.T. Daughtry. 2016. "Spectral Indices to Improve Crop Residue Cover Estimation under Varying Moisture Conditions." *Remote Sensing* 8 (8). <https://doi.org/10.3390/rs8080660>.

Rodale Institute. n.d. "Rodale Institute :: Organic Pioneers since 1947." Accessed June 28, 2015. <http://rodaleinstitute.org/>.

Scharlemann, Jörn P.W., Edmund V.J. Tanner, Roland Hiederer, and Valerie Kapos. 2014. "Global Soil Carbon: Understanding and Managing the Largest Terrestrial Carbon Pool." *Carbon Management* 5 (1): 81–91. <https://doi.org/10.4155/cmt.13.77>.

Smith, P. D., Z. Martino, D. Cai, and H. Gwary. 2007. "Agriculture." In *Climate Change 2007: Mitigation of Climate Change: Contribution of Working Group III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change*, edited by Bert Metz. Cambridge ; New York: Cambridge University Press. <http://www.ipcc.ch/pdf/assessment-report/ar4/wg3/ar4-wg3-chapter8.pdf>.

Transon, Julie, Raphaël d’Andrimont, Alexandre Maignard, and Pierre Defourny. 2018. “Survey of Hyperspectral Earth Observation Applications from Space in the Sentinel-2 Context.” *Remote Sensing* 10 (2): 1–32. <https://doi.org/10.3390/rs10020157>.

West, Tristram O., and Gregg Marland. 2002. “A Synthesis of Carbon Sequestration, Carbon Emissions, and Net Carbon Flux in Agriculture: Comparing Tillage Practices in the United States.” *Agriculture, Ecosystems and Environment* 91 (1–3): 217–32. [https://doi.org/10.1016/S0167-8809\(01\)00233-X](https://doi.org/10.1016/S0167-8809(01)00233-X).

Zhao X, Liu S-L, Pu C, et al. « Methane and nitrous oxide emissions under no-till farming in China: a meta-analysis.” *Glob Change Biol* 2016;22(4):1372–84