

## NUTRIENT MANAGEMENT REFERENCES

“2016: The State of Food and Agriculture.” UN-FAO, 2016.

Ahlgren, Serina, Andras Baky, Sven Bernesson, Åke Nordberg, Olle Norén, and Per-Anders Hansson. “Consequential Life Cycle Assessment of Nitrogen Fertilisers Based on Biomass – a Swedish Perspective.” *Insciences Journal*, November 27, 2012, 80–101. doi:10.5640/insc.020480.

“AQUASTAT Database Database Query Results.” Accessed September 26, 2016. <http://www.fao.org/nr/water/aquastat/data/query/results.html>.

Brentrup, F, J Küsters, J Lammel, P Barraclough, and H Kuhlmann. “Environmental Impact Assessment of Agricultural Production Systems Using the Life Cycle Assessment (LCA) Methodology II. The Application to N Fertilizer Use in Winter Wheat Production Systems.” *European Journal of Agronomy* 20, no. 3 (February 2004): 265–79. doi:10.1016/S1161-0301(03)00039-X.

Chantigny, Martin H., Philippe Rochette, Denis A. Angers, Shabtai Bittman, Katherine Buckley, Daniel Massé, Gilles Bélanger, Nikita Eriksen-Hamel, and Marc-Olivier Gasser. “Soil Nitrous Oxide Emissions Following Band-Incorporation of Fertilizer Nitrogen and Swine Manure.” *Journal of Environmental Quality* 39, no. 5 (October 2010): 1545–53.

Drury, C. F., W. D. Reynolds, X. M. Yang, N. B. McLaughlin, T. W. Welacky, W. Calder, and C. A. Grant. “Nitrogen Source, Application Time, and Tillage Effects on Soil Nitrous Oxide Emissions and Corn Grain Yields.” *Soil Science Society of America Journal* 76, no. 4 (2012): 1268. doi:10.2136/sssaj2011.0249.

Ehmke, Tanner. “The 4 Rs of Nutrient Management.” *Crops and Soils Magazine*, 2012.

Engel, R., D. L. Liang, R. Wallander, and A. Bembenek. “Influence of Urea Fertilizer Placement on Nitrous Oxide Production from a Silt Loam Soil.” *Journal of Environment Quality* 39, no. 1 (2010): 115. doi:10.2134/jeq2009.0130.

“Fertilizers.” Accessed October 21, 2016. <http://faostat.fao.org/beta/en/#data/RF/visualize>.

Gagnon, Bernard, Noura Ziadi, Philippe Rochette, Martin H. Chantigny, and Denis A. Angers. “Fertilizer Source Influenced Nitrous Oxide Emissions from a Clay Soil under Corn.” *Soil Science Society of America Journal* 75, no. 2 (2011): 595. doi:10.2136/sssaj2010.0212.

Griscom et al, "Natural climate solutions". *Proceedings of the National Academy of Sciences*, 114 (44) 11645-11650.

Lal, R. "Carbon Emission from Farm Operations." *Environment International* 30, no. 7 (September 2004): 981–90. doi:10.1016/j.envint.2004.03.005.

Licker, Rachel, Matt Johnston, Jonathan A. Foley, Carol Barford, Christopher J. Kucharik, Chad Monfreda, and Navin Ramankutty. "Mind the Gap: How Do Climate and Agricultural Management Explain the 'yield Gap' of Croplands around the World?" *Global Ecology and Biogeography* 19, no. 6 (November 1, 2010): 769–82. doi:10.1111/j.1466-8238.2010.00563.x.

Millar, Neville, G. Philip Robertson, Peter R. Grace, Ron J. Gehl, and John P. Hoben. "Nitrogen Fertilizer Management for Nitrous Oxide (N<sub>2</sub>O) Mitigation in Intensive Corn (Maize) Production: An Emissions Reduction Protocol for." *Mitigation and Adaptation Strategies for Global Change* 15, no. 2 (February 2010): 185–204. doi:10.1007/s11027-010-9212-7.

Napier, T L, and T. Bridges. "Adoption of Conservation Production Systems in Two Ohio Watersheds: A Comparative Study." *Journal of Soil and Water Conservation* 57, no. 4 (August 2002): 229–35.

"Nitrous Oxide Emissions | Climate Change | US EPA." Accessed April 6, 2016.  
<https://www3.epa.gov/climatechange/ghgemissions/gases/n2o.html>.

"Nutrient Management: Nitrate Vulnerable Zones - GOV.UK." Accessed October 21, 2016.  
<https://www.gov.uk/guidance/nutrient-management-nitrate-vulnerable-zones>.

"Nutrient Management Planning & Land Treatment Planning | Agency of Agriculture Food & Markets." Accessed October 21, 2016. <http://agriculture.vermont.gov/water-quality/farmer-assistance/nmp-ltp>.

Reay, Dave S., Eric A. Davidson, Keith A. Smith, Pete Smith, Jerry M. Melillo, Frank Dentener, and Paul J. Crutzen. "Global Agriculture and Nitrous Oxide Emissions." *Nature Climate Change* 2, no. 6 (June 2012): 410–16. doi:10.1038/nclimate1458.

"Reduced Use of Nitrogen Fertilizer — American Carbon Registry." Accessed September 26, 2016. <http://americancarbonregistry.org/resources/reduced-use-of-nitrogen-fertilizer>.

Robertson, G. Philip, and Peter M. Vitousek. "Nitrogen in Agriculture: Balancing the Cost of an Essential Resource." *Annual Review of Environment and Resources* 34, no. 1 (October 15, 2009): 97–125. doi:10.1146/annurev.environ.032108.105046.

Shcherbak, Iurii, Neville Millar, and G. Philip Robertson. "Global Metaanalysis of the Nonlinear Response of Soil Nitrous Oxide (N<sub>2</sub>O) Emissions to Fertilizer Nitrogen." *Proceedings of the National Academy of Sciences* 111, no. 25 (June 24, 2014): 9199–9204. doi:10.1073/pnas.1322434111.

Skowrońska, Monika, and Tadeusz Filipek. "Life Cycle Assessment of Fertilizers: A Review." *International Agrophysics* 28, no. 1 (January 1, 2014). doi:10.2478/intag-2013-0032.

Smith, L. E. D., and G. Siciliano. "A Comprehensive Review of Constraints to Improved Management of Fertilizers in China and Mitigation of Diffuse Water Pollution from Agriculture." *Agriculture, Ecosystems & Environment*, Sustainable intensification of China's agriculture: the key role of nutrient management and climate change mitigation and adaptation, 209 (November 1, 2015): 15–25. doi:10.1016/j.agee.2015.02.016.

Stuart, D., R. L. Schewe, and M. McDermott. "Reducing Nitrogen Fertilizer Application as a Climate Change Mitigation Strategy: Understanding Farmer Decision-Making and Potential Barriers to Change in the US." *Land Use Policy* 36 (January 2014): 210–18. doi:10.1016/j.landusepol.2013.08.011.

Tenuta, M., and E. G. Beauchamp. "Nitrous Oxide Production from Granular Nitrogen Fertilizers Applied to a Silt Loam." *Canadian Journal of Soil Science* 83, no. 5 (November 2003): 521–32.

Venterea, Rodney T., Maharjan Bijesh, and Michael S. Dolan. "Fertilizer Source and Tillage Effects on Yield-Scaled Nitrous Oxide Emissions in a Corn Cropping System." *Journal of Environment Quality* 40, no. 5 (2011): 1521. doi:10.2134/jeq2011.0039.

World Bank. "Agricultural Nitrous Oxide Emissions (% of Total)." 2015. <http://data.worldbank.org/indicator/EN.ATM.NOXE.AG.ZS/countries/1W?display=graph>.

ZebARTH, B J, P. Rochette, D L Burton, and M. Price. "Effect of Fertilizer Nitrogen Management on N<sub>2</sub>O Emissions in Commercial Corn Fields." *Canadian Journal of Soil Science* 88, no. 2 (May 1, 2008): 189–95. doi:10.4141/CJSS06010.

Zhang, Wei-feng, Zheng-xia Dou, Pan He, Xiao-Tang Ju, David Powlson, Dave Chadwick, David Norse, et al. "New Technologies Reduce Greenhouse Gas Emissions from Nitrogenous Fertilizer in China." *Proceedings of the National Academy of Sciences* 110, no. 21 (May 21, 2013): 8375–80. doi:10.1073/pnas.1210447110.