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## **Refereed journal papers**

*Under review or accepted*

- Nouri Maman, Mohamed Dicko, Gonda Abdou, C. Wortmann. 2017. Sorghum and groundnut sole and intercrop nutrient response in semi-arid West Africa. *Agron. J.* submitted.
- Tarfa BD, Maman N, Ouattara K, Wortmann, C. 2017. Groundnut and soybean response to nutrient application in West Africa. *Agron. J.* submitted.
- Maman, N., MK Dicko, G. Abdou, Z. Kouyaté, and C. Wortmann. 2017. Pearl millet and cowpea intercrop response to applied nutrients in West Africa. *Agron. J.* submitted.
- Blanco-Canqui, H., M. Sindelar, C. Wortmann, and G. Kreikemeier. 2017. Aerial interseeded cover crop and corn residue harvest: soil and crop impacts. *Agron J* submitted.
- Serme, I., K. Ouattara, I.O. Traore, S. Ouedraogo, S. Youl, B. Ouattara, F. Lompo, P.M. Sedogo, C. Wortmann, A. Bationo. 2016. Maize response to fertilizer on Ferralsol and Luvisol in the South Sudan zone of Burkina Faso. FRES-D-16-00355.
- Ndungu-Magiroi, K.W., C.S. Wortmann, C. Kibunja, C. Senkoro, T.J.K. Mwangi, D. Wamae, M. Kifuko-Koech, and J. Msakyi. 2016. Fertilizer response of maize-bean intercrop relative to maize sole crop responses. *Nutr. Cycl. Agroecosys* submitted.
- Keziah W. Ndungu-Magiroi, Angela Kasozi, Kayuki C. Kaizzi, Teresah Mwangi, Mary Koech, Catherine N. Kibunja, Dixon Wamae and C.S. Wortmann. 2016. Finger millet response to nitrogen, phosphorus and potassium in Kenya and Uganda. *Nutr. Cycl. Agroecosys* submitted.
- Macharia, M., C. Wortmann, G. Oduor, H. Rware, R. Cyamweshi, M. Kansiime, C. J. Senkoro. 2016. Dynamic optimization of fertilizer recommendations for finance constrained farmers. *Internat. J. Agric. Sustain.* Submitted.
- Abunyewa, A., C.S. Wortmann et al. 2015. Nitrogen use by grain sorghum as affected by planting practice and nitrogen rate. *AJAR*
- Van Liew, M.W., C.S. Wortmann, D.N. Moriasi, K.W. King, D.C. Flanagan, T.L. Veith, G.W. McCarty, D.B. Bosch, and M.D. Tomer, 2016. Simulating streamflow and water quality in crop production areas of the United States. *ASABE*. In press.
- Baffaut, C., N.O. Nelson, J.A. Lory, A. Senaviratne, A. Bhandari, R. Udawatta, D. Sweeney, M. Helmers, M. Van Liew, A. Mallarino, and C. Wortmann. 2016. Multi-site evaluation of APEX for water quality: 1. Best professional judgement. *JEQ*. First look.
- Tesfahunegn, G.B. and C.S. Wortmann. 2016. Maize [*Zea Mays* (L.)] crop-nutrient response functions extrapolation for Sub-Saharan Africa. *Agric. Syst.* submitted

Stewart, Z. P., Shapiro, C. A., Wortmann, C. S., Paparozzi, E. T., Shaver, T. M. & Schlegel, V. L. 2016. Effect of iron and zinc nanoparticle, chelate, and sulfate foliar applications to deficient maize. *Crop Science* submitted.

Nelson, N.O, C. Baffaut, C., J.A. Lory, A. Senaviratne, A. Bhandari, R. Udawatta, D. Sweeney, M. Helmers, M. Van Liew, A. Mallarino, and C. Wortmann. 2016. Multi-site evaluation of apex for water quality: ii regional parameterization. *JEQ first look*

### *Published*

Alemayehu, A., T. Tamado, D. Nigussie, D. Zigzaw, T. Kinde, and C. Wortmann. 2017. Maize-common bean intercropping to optimize maize-based crop production. *J. Agric. Sci.* p 1-13. doi:10.1017/S0021859617000193

Wortmann, C.S., M. Milner, K.C. Kaizzi, N. Maman, R.A. Cyamweshi, M.K. Dicko, C. Kibunja, M. Macharia, R. Maria, P. Nalivata, D. Negash, D. Nkonde, K. Ouattara, C.J. Senkoro, B.D. Tarfa, F.M. Tetteh. 2017. Maize-nutrient response information applied across Sub-Saharan Africa. *Nutr. Cycl. Agroecosyst.* 107:175-186.

Alemayehu Assefa, Tamado Tana, Nigusie Dechassa, Yigzaw Dessalgn, Kinde Tesfaye and Wortmann C.S. 2016. Maize-common bean/lupine intercrop productivity and profitability in maize based cropping systems of Northwestern Ethiopia. *Ethiop. J. Sci. Technol.* 9:69-85.

Nansamba, A., K.C. Kaizzi, A.B. Twaha, P. Ebanyat and C.S. Wortmann. 2016. Reduced tillage, rotation, and soil fertility management for sorghum production in Uganda. *Agron. J.* 108:1-10.

Abunyewa, A.A., R.B. Ferguson, C.S. Wortmann and S.C. Mason. 2016. Grain sorghum leaf reflectance and nitrogen status. *Afri. J. Agric. Res.* 11:825-836.

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### **Other peer reviewed publications**

- Shapiro, C., R. Ferguson, C. Wortmann, T. Shaver, B. Krienke and B. Maharjan. 2017. Nebraska Nitrogen Management Present and Future.
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4. Jansen, J. and C.S. Wortmann. 2012. Adapting a “Fertilizer Optimization Tool” for other crops and response functions”: a programmer’s user guide.
5. Developed the Uganda Fertilizer Optimization Tool that enables farmers with much limited capital for fertilizer purchase to maximize their net returns to fertilizer use.
6. Revised the Nebraska P Index
7. Redesigned and updated soil fertility.unl.edu website, 2010.
8. Designed and provided content for the ‘soil management’ parts of the Cropwatch Crops website (2009-2010).
9. Co-led the design and development of the Heartland Bioenergy & Water Resources website (2009-10).
10. Revised soiltest.unl.edu. 2009.
11. Contributed the UNL Water website (2008-10).
12. Contributed to Manure Management eXtension (2008-10).
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14. Contributed to the Heartland Nutrient Management Website (2006-10)
15. Nebraska P Index, with erosion calculator added. 2006.