Christopher Graham

Department of Plant Science, South Dakota State University
SDSU West River Ag Center, 1905 Plaza Blvd, Rapid City, SD 57702

Education

2012	Ph.D. Cornell University. Department Crop and Soil Science. Dissertation title: Balancing nitrogen sinks and sources across diverse agroecosystems (advisor: Prof. Harold van Es).
2008	M.P.A. Columbia University. Environmental Science and Policy
2006	B. S. Arizona State University. Geography. Summa cum laude

Professional Appointments

2013-	Assistant Professor and Extension Agronomist, South Dakota State University, Department of Plant Science
2012-2013	Agricultural Specialist, Water Stewardship Inc., Annapolis, MD
2009-2012	Research Assistant, Cornell University, Department of Crop and Soil Science
2009-2010	Teaching Assistant, Cornell University, Department of Crop and Soil Science

Additional Relevant Experience

2017	Farmer-to-Farmer Volunteer – Democratic Republic of Congo
2016	Farmer-to-Farmer Volunteer - Ethiopia
2008	Columbia University/Rockefeller Foundation research grant evaluating agricultural water projects in Kenya, Ethiopia, Rwanda and Uganda
2006-2007	Fulbright Fellowship, Mauritius, Developing Indexes for Drought Monitoring across the Island

Primary Departmental Responsibilities

Research – 25%, Extension – 75%

Research focus is on water- and nitrogen-use efficiency in dryland farming systems. Additional responsibilities include coordinating crop performance trials for western South Dakota, crops include sorghum, corn, winter wheat, spring wheat, field peas, safflower and oats**.**

Selected peer-reviewed journal publications

1. **Graham, C.J.,** D. Thavarajah, R. Beck. 2018. Dietary reference intake and nutritional yield of lentils in the northern Great Plains. Crop Sci.
2. Adhikari, A. D., Nielsen, K., Harveson, R. M., **Graham, C.,** Beck, R. and Mathew, F. 201X. Bacterial blight of Lentil ( ) caused by pv. . Plant Health Progress
3. **Graham, C.J.**, D. Thavarajah. 2017. Carbohydrate content in lentils (Lens culinaris Medikus): Genotypic and environmental effects. Comm Soil Sci Plant An. 48:2447-2454.
4. **Graham, C.J**. and J. Varco. 2017. The effect of stabilized urea and split-applied nitrogen on sunflower yield and oil content. Am. J. Plant Sci.
5. **Graham, C.J.,** A. Bly, H. Woodard and P. Fixen. 2017. Chloride Fertilizers Increase Spring Wheat Yields in the Northern Great Plains. Agron. J. 109:327-334.
6. Morrell, F. J., P. Grassini, H.S Yang; K. G. Cassman, J. Van Wart, R. W. Elmore, M. Licht, J. A. Coulter, I. A. Ciampitti, C. M. Pittelkow; S. M. Brouder, P. Thomison; J. Lauer, **C. Graham** and R. Massey. 2016. Can crop simulation models be used to predict local to regional maize yields and total production in the U.S. Corn Belt? Field Crops Research. 192:1-12.
7. **Graham, C.J.,** H.M. van Es and J.J. Melkonian. 2013. Nitrous oxide emissions are greater in silt loam soils with a legacy of manure application than without. Biol Fertil Soils 49:1123-1129.
8. Xue, Y, H.M. van Es, R.R. Schindelbeck, B.N. Moebius-Clune, J.J. Melkonian, **C.Graham** and P. Yang. 2013. Effects of N placement, carbon distribution and temperature on N2O emissions in clay loam and loamy sand soils. Soil Use and Management 29:240-249.
9. Foshee, J., A. Ghosh, **C. Graham**, W. Murray, C. Salama and T Siegfried. 2008. Thirsty for change: Considering water privatization in developing nations. Consilience: Journal of Sustainable Development

Book and Production Manual Chapters

1. **Graham, C**.J., D. Clay and S. Bruggman. 2017. Developing yield response curves for fertilizers and seeding rates. In. Clay et al. (Eds.) American Society of Agronomy, Wisconsin
2. **Graham et al. (Eds),** Northern Great Plains Sorghum Production Manual.
3. **Graham, C.J.** and G. Carlson. 2016. Corn Seeding Rates in South Dakota. In. Clay et al. (Eds.), South Dakota State University, College of Agriculture and Biological Sciences, AgBio Communications Unit, Box 2218A, Brookings, South Dakota 57007
4. **Graham, C.J.** and A. Bly. 2016. Corn Nitrogen Timing. In. Clay et al. (Eds.), South Dakota State University, College of Agriculture and Biological Sciences, AgBio Communications Unit, Box 2218A, Brookings, South Dakota 57007