

Publications

Kentucky

Published Written Works

- 1) Borer, E.T., E.W. Seabloom, D.S. Gruner, W.S. Harpole, H. Hillebrand, E.M. Lind, P.B. Adler, J. Alberti, T.M. Anderson, J.D. Bakker, L. Biederman, D. Blumenthal, C.S. Brown, L.A. Brudvig, Y.M. Buckley, M. Cadotte, C. Chu, E.E. Cleland, M.J. Crawley, P. Daleo, E.I. Damschen, K.F. Davies, N.M. DeCrappeo, G. Du, J. Firn, Y. Hautier, R.W. Heckman, A. Hector, J. HilleRisLambers, O. Iribarne, J.A. Klein, J.M.H. Knops, K.J. La Pierre, A.D.B. Leakey, W. Li, A.S. MacDougall, R.L. McCulley, B.A. Melbourne, C.E. Mitchell, J.L. Moore, B. Mortensen, L.R. O'Halloran, J.L. Orrock, J. Pascual, S.M. Prober, D.A. Pyke, A.C. Risch, M. Schuetz, M.D. Smith, C.J. Stevens, L.L. Sullivan, R.J. Williams, P.D. Wragg, J.P. Wright, and L.H. Yang. 2014. Herbivores and nutrients control grassland plant diversity via light limitation. *Nature* 508:517-520.
- 2) Crowther, T., D. Maynard, J. Leff, E. Oldfield, R.L. McCulley, N. Fierer, M. Bradford. 2014. Predicting the responsiveness of soil biodiversity to deforestation: a cross-biome study. *Global Change Biology* 20(9):2983-2994. doi: 10.1111/gcb.12565
- 3) Gilliam, F.S., R. Hedl, M. Chudomelova, R.L. McCulley, and J.A. Nelson. 2014. Variation in vegetation and microbial linkages with slope aspect in a montane temperate hardwood forest. *Ecosphere* 5(5): art66-art66.
- 4) Hall, S.L., R.L. McCulley, R.J. Barney, and T.D. Phillips. 2014. Does fungal endophyte infection improve tall fescue's growth response to fire and water limitation? *PLoS ONE* 9(1): e86904. doi:10.1371/journal.pone.0086904
- 5) Hautier, Y., E.W. Seabloom, E.T. Borer, P.B. Adler, W.S. Harpole, H. Hillebrand, E.M. Lind, A.S. MacDougall, C.J. Stevens, J.D. Bakker, Y.M. Buckley, C. Chu, S.L. Collins, P. Daleo, E.I. Damschen, K.F. Davies, P.A. Fay, J. Firn, D.S. Gruner, V.L. Jin, J.A. Klein, J.M.H. Knops, K.J. La Pierre, W. Li, R.L. McCulley, B.A. Melbourne, J.L. Moore, L.R. O'Halloran, S.M. Prober, A.C. Risch, M. Sankaran, M. Schuetz, and A. Hector. 2014. Eutrophication weakens stabilizing effects of diversity in natural grasslands. *Nature* 508:521-525.
- 6) Lee, H., J. Fitzgerald, D.B. Hewins, R.L. McCulley, S.R. Archer, T. Rahn, and H.L. Throop. 2014. Soil moisture and soil-litter mixing effects on surface litter decomposition: A controlled environment assessment. *Soil Biology & Biochemistry* 72:123-132.
- 7) Lucero, M.E., S. DeBolt, A. Unc, A. Ruiz-Font, L.V. Reyes, R.L. McCulley, S.C. Alderman, R.D. Dinkins, J.R. Barrow, and D.A. Samac. 2014. Ch. 10: Using microbial community interactions within plant microbiomes to advance an evergreen agricultural revolution. In: *Sustainable Agroecosystems in Climate Change Mitigation*. M. Oelberman (ed.), Wageningen Academic, pp. 185-204.
- 8) McCulley, R.L., L.P. Bush, A.E. Carlisle, H. Ji, and J.A. Nelson. 2014. Warming reduces tall fescue abundance but stimulates toxic alkaloid concentrations. *Frontiers in Chemistry* 2: article 99. doi: 10.3389/fchem.2014.00088
- 9) Mobley, M.L., R.L. McCulley, I.C. Burke, G. Peterson, D.S. Schimel, C.V. Cole, E.T. Elliott, and D.G. Westfall. 2014. Grazing and no-till cropping impacts on nitrogen retention in dryland agroecosystems. *Journal of Environmental Quality* 43:1963-1971. doi: 10.2134/jeq2013.12.0530

- 10) Rúa, M.A., R.L. McCulley, and C.E. Mitchell. 2014. Climate drivers, host identity and fungal endophyte infection determine virus prevalence in a grassland ecosystem. *Journal of Ecology* 102(3):690-699.

University of Wisconsin-Madison

Refereed Journal Articles

Assefam T., J. Wu, K.A. Albrecht, P.J. Johnson, and A. Boe. 2015. Genetic variation for biomass and related morphological traits in cup plant (*Silphium perfoliatum* L.). *Amer. J. Plant Sci.* 6:1098-1108.

Schaefer, M.R., K.A. Albrecht, and D.M. Schaefer. 2014. Stocker performance on tall fescue or meadow fescue alone or in binary mixture with white clover. *Agron. J.* 106:1902-1910.

Santillano-Cazares, J., M. Carmona-Victoria, F.E. Contreras-Govea, O.J. Idowu, and K.A. Albrecht. 2014. Applicability of predictive equations for alfalfa quality to southwest United States and northern Mexico. *Crop Sci.* 54:2880-2885.

Andrzejewska, J., K.A. Albrecht, G. Harasimowics-Hermann. 2014. Intercropping winter cereals with Caucasian clover in northern Europe. *Acta Agric. Scan.* 64:734-740.

Symposium Proceedings

Albrecht, K.A., J. Andrzejewska, F.E. Contreras-Govea, and J Santillano-Cazares. 2014. Field prediction of alfalfa fiber constituents with PEAQ in northern Europe and North American Deserts. *In Proc. Joint Conf. NAAIC, Trifolium, & Grass Breeders, Lethbridge, Alberta Canada. 8-10 July 2014. NAAIC.org.*

Andrzejewska, J., A. Batur-Ciesniewska, D. Smith, C. Groves, K. Lackerman, C. Grau, and K. Albrecht. 2014. Why has Kura clover failed to persist in northern Europe? *In Proc. Joint Conf. NAAIC, Trifolium, & Grass Breeders, Lethbridge, Alberta Canada. 8-10 July 2014. NAAIC.org.*

Batur-Ciesniewska, A., J. Andrzejewska, D. Smith, C. Groves, and K. Albrecht. 2014. Molecular identification of Polish isolates of *Sclerotinia trifoliorum* and *Sclerotinia sclerotiorum* in the context of Kura clover damage. *In Proc. Joint Conf. NAAIC, Trifolium, & Grass Breeders, Lethbridge, Alberta Canada. 8-10 July 2014. NAAIC.org.*

Kim, S., V. Owens, K. Albrecht, D. Lee, and C. Sheaffer. 2014. Biomass production of prairie cordgrass using urea and Kura clover as source of nitrogen. *In Proc. 20th World Congr. Soil Science, Jeju, Korea. 8-13 June 2014. DBpia, Korea.*

Abstracts

Nieman, C.C., K.A. Albrecht and D.M. Schaefer. 2015. Forage production and stocker cattle performance on BMR sudangrass and vegetative corn in upper-midwestern grazing systems. 93(Suppl. 2):153. (Abstr.)

Arkansas

Published Written Works

Kanani, J., D. Philipp, K. P. Coffey, PAS, A. N. Young, R. Rhein, and J. D. Caldwell. 2014. Nutritive value and in situ digestibility of pearl millet hay as affected by moisture concentration and bale sampling depth. Prof. Anim. Sci. 30:235-242.

Kanani, K., D. Philipp, K. P. Coffey, E. B. Kegley, C. P. West, S. Gadberry, J. Jennings, A. N. Young, and R. Rhein. 2014. Using acid-detergent lignin, alkaline-peroxide lignin and acid-detergent insoluble ash to predict fecal output and digestibility by cattle offered bermudagrass hays of varying nutrient composition. Anim. Sci. Biotechnol. 5:7.

Smith, A., M. Popp, D. Philipp, K. Coffey, and E. Gbur. 2014. Overseeding Bermudagrass Pastures with Ryegrass and Clovers: Estimating Partial Returns. Journal of the American Society of Farm Managers and Rural Appraisers (ASFMRA) 108-123.

Cummins, Rachel, Kenneth P. Coffey, Nancy E. Jack, Kathleen S. Jogan, Edward E. Gbur, Robert T. Rhein, Dirk Philipp, Melissa Adams, William B. Smith, Kathryn N. Clayton. 2014. Palatability of Teff Grass by Horses. Discovery Magazine, Univ. of Arkansas

Simon, K., S. Jones, J. Jennings, R. Rhein, and D. Philipp. 2014. Forage Brassica Variety Trial in Northwest Arkansas. ANSC Report Series.

Smith, W.B., K.P. Coffey, R.T. Rhein, E.B. Kegley, D. Philipp, J.D. Caldwell and A.N. Young. 2014. Ruminal forage digestibility following a period of limit-feeding co-product feedstuffs. ANSC Report Series.

Abstracts:

Smith, W.B., K. P. Coffey, J. D. Tucker, D. S. Hubbell, R. T. Rhein, E. B. Kegley, D. Philipp, J. D. Caldwell, and A. N. Young. 2014. Production, digestion and ruminal fermentation by beef cattle limit-fed co-product feedstuffs. ASAS Southern Section Annual Meeting, Dallas, TX.

Cummins, R.R., K. P. Coffey, N. E. Jack, K. Jogan, E. E. Gbur, R.T. Rhein, D. Philipp, M. Adams, W. B. Smith, and K. N. Clayton. 2014. Palatability of teff grass by horses. ASAS Southern Section Annual Meeting, Dallas, TX.

Simon, K.J., S.M. Jones, J.J. Jennings, R. Rhein, and D. Philipp. 2014. Forage Brassica species variety trial. SPFCIC, Biloxi, MS.

Smith, W.B., K. P. Coffey, J. D. Tucker, D. S. Hubbell, R. T. Rhein, E. B. Kegley, D. Philipp, J. D. Caldwell, and A. N. Young. 2014. Production, digestion and ruminal fermentation by beef cattle limit-fed co-product feedstuffs. ASAS Southern Section Annual Meeting, Dallas, TX.

Cummins, R.R., K. P. Coffey, N. E. Jack, K. Jogan, E. E. Gbur, R.T. Rhein, D. Philipp, M. Adams, W. B. Smith, and K. N. Clayton. 2014. Palatability of teff grass by horses. ASAS Southern Section Annual Meeting, Dallas, TX.

Devine T., C. F. Rosenkrans, D. Philipp, D. Hubbell, E. A. Backes, A. Davis, T. Lester, R. W. Rorie, C. Orr, R. T. Rhein, and M. L. Looper. 2014. Growth and reproduction of replacement beef heifers is influenced by growth-promoting implants.

Extension publications:

Jennings, J., P. Beck, D. Philipp, K. Simon. 2014. Crabgrass for forage. FSA 3138 (Original manuscript).

Philipp, D. 2014. Forage Systems. *In*: Backgrounding MP379 (Major revision).

Michigan State University

Refereed Journal Articles

Grabber, J.H., W.K. Coblenz, H. Riday, T.C. Griggs, D.H. Min, J.W. MacAdam, and K.A. Cassida. 2015. Protein and dry matter degradability of European- and Mediterranean-derived birdsfoot trefoil cultivars grown in the colder continental USA. *Agronomy Journal* 5:1356-1364.

Poster Presentations

Cassida, K.A., D-H. Min, C. Kapp, and J.J. Paling. 2015. Evaluation of binary mixtures of alfalfa and grass and their responses to supplemental nitrogen fertilization. In: Proc. American Forage & Grassland Conference, Jan. 11-14, 2015, St. Louis, MO. AFGC, Berea, KY. (Poster presentation)

Grabber, J.H., W.K. Coblenz, H. Riday, K.A. Cassida, T.C. Griggs, D.H. Min, and J.W. MacAdam. 2014. Yield, morphological development, and forage quality characteristics of European- and Mediterranean-derived birdsfoot trefoil cultivars grown in the colder continental United States. Annual Meeting of ASA/CSSA/SSSA, Long Beach, CA. Nov. 2-5, 2014. Online. (poster presentation)

van Santen, E., J.W. MacAdam, and K.A. Cassida. 2014. Evaluating the Birdsfoot Trefoil NPGS Collection. Annual Meeting of ASA/CSSA/SSSA, Long Beach, CA. Nov. 2-5, 2014. Online. (poster presentation)

van Santen, E., K.A. Cassida, B. Goff, T.C. Griggs, J.M. Johnson, R. Kallenbach, J. McAdam, and G. Shewmaker. 2014. Increasing legume grazing for higher beef gain on pastures: an improved high-tannin birdsfoot trefoil cultivar with trans-regional potential. Annual Meeting of ASA/CSSA/SSSA, Long Beach, CA. Nov. 2-5, 2014. Online (poster presentation)

Popular Articles

Cassida, Kim. 2014. Chicory: Improved varieties are a pasture option. *Progressive Forage Grower*, Sept. 1, 2014, issue 8, pp. 10-11. (Magazine)

Cassida, K. 2015. Birdsfoot trefoil is an old forage with a new twist. *Progressive Forage Grower*. March 27, 2015. (magazine)

Islieb, J. and K. Cassida. 2015. Plan for better hay. *Michigan Farm News*, May 30, 201, p.14. (Magazine)

Islieb, J. and K. Cassida. 2015. Improving forage productivity with assessment and planning – Part 1. MSUE Ag News, posted April 30, 2015. (online)

Cassida, K., J. Paling, and C. Kapp. 2015. 2014 Michigan Forage Variety Test Report. *Michigan Farm News*, Vol. 92, pg. 15-19, Jan. 30, 2015. (Magazine)

Kaatz, P, and K. Cassida. 2015. 2014 Michigan Forage Variety Test Report now available. MSUE Ag News, posted Jan. 30,2015. (Online)

Other Creative Works

Cassida, K.A. (webmaster). 2014. MSU Forage Connection. <http://forage.msu.edu/> (website)

Cassida, K., J. Paling, and C. Kapp. 2015. 2014 Michigan Forage Variety Test Report. MSU Forage Factsheet 15-01, 20 pages. Published Feb. 1, 2015.

University of Missouri

Refereed Journal

Campbell, B.T., C.J. Kojima, T.A. Cooper, B.C. Bastin, L. Wojakiewicz, R.L. Kallenbach, F.N. Schrick, and J.C. Waller. 2014. A single nucleotide polymorphism in the dopamine receptor D2 gene may be informative for resistance to fescue toxicosis in Angus-based cattle. *Animal Biotech.* 25:1-12.

Cooper, C.E., Naumann, H.D. Lambert, B.D., Muir, J.P., Kattes, D.H. 2014. Protein precipitable phenolic and nutrient concentrations in legumes respond differently to repeated defoliation and ontogeny. *J. Plant Interact.* 9:468-477.

Dierking, R.M., P. Azhaguvel, R.L. Kallenbach, M.C. Saha, J.H. Bouton, K. Chekhovskiy, D. Kopecký, and A.A. Hopkins. 2015. Linkage maps of a Mediterranean x Continental tall fescue (*Festuca arundinacea*) population and their comparative analysis with other Poaceae species. *The Plant Genome*. In Press.

Emerson, R., A. Hoover, A. Ray, J. Lacey, M. Cortez, C. Payne, D. Karlen, S. Birrell, D. Laird, R.L. Kallenbach, J. Egenolf, M. Sousek, and T. Voigt. 2014. Drought effects on composition and yield for corn stover, CRP mixed grasses, and Miscanthus as bioenergy feedstocks. *Biofuels.* 5:275-291.

Fukushima, R., M.H. Ramos, M.S. Kerley, J.H. Porter, and R.L. Kallenbach. 2014. Comparison of acetyl bromide lignin with acid detergent lignin and Klason lignin and correlation with in vitro forage digestibility. *Anim. Sci. Feed Tech.* doi:10.1016/j.anifeedsci.2014.12.007.

Naumann, H.D., Lambert, B.D., Armstrong, S.A., Fonseca, M.A., Tedeschi, L.O., Muir, J.P. and Ellersieck, M.R. 2015. Effect of replacing alfalfa with paniced-tick clover or sericea lespedeza in a corn-alfalfa based dairy diet on ruminal methane production. *Journal of Dairy Science*. In Press.

Naumann, H.D., Hagerman, A.E., Lambert, B.D., Muir, J.P., Tedeschi, L.O. and Kothmann, M.M. 2014. Molecular weight and protein-precipitating ability of condensed tannins from warm-season perennial legumes. *J. Plant Interact.* 9:212-219.

Naumann, H.D., Armstrong, S.A., Lambert, B.D., Muir, J.P., Tedeschi, L.O. and Kothmann, M.M. 2014. Effect of molecular weight of condensed tannins from warm-season perennial legumes on in vitro larval migration inhibition of *Haemonchus contortus*. *Vet. Parasitol.* 199:93-98.

Richner, J.M., R.L. Kallenbach, and C.A. Roberts. 2014. Dual use switchgrass: Managing switchgrass for biomass production and summer forage. *Agron. J.* 106:1438-1444.

Roberts, C.A., D.K. Davis, M.L. Looper, R.L. Kallenbach, G.E. Rottinghaus, and N.S. Hill. 2014. Ergovaline and total ergot alkaloid concentrations in high- and low-moisture tall fescue silage. *Crop Sci.* 54:1887-1892.

Willett, C.D., R.N. Lerch, K.W. Goyne, N.D. Leigh, C. Lin, and C.A. Roberts. 2014. A simple method for isolation and purification of DIBOA-Glc from *Tripsacum dactyloides*. *Nat. Prod. Comm.* 9:1-4.

The Ohio State University

Refereed Journal Articles

Sulc, R.M., J.S. McCormick, R.B. Hammond, and D.J. Miller, 2014. Population responses of potato leafhopper (Hemiptera: Cicadellidae) to insecticide in glandular-haired and non-glandular-haired alfalfa cultivars". *Journal of Economic Entomology*. Vol. 107: 2077-2087.

Nave, R.L.G., R.M. Sulc, D.J. Barker, and N. St-Pierre. 2014. Changes in forage nutritive value among vertical strata of a cool-season grass canopy. *Crop Science* 54:341-348.

Sulc, R.M., and A.J. Franzluebbers. 2014. Exploring integrated crop-livestock systems in different ecoregions of the United States. *European Journal of Agronomy* 57:21-30.

de Faccio Carvalho, P.C., A. de Moraes, L.S. Pontes, I. Anghinoni, R.M. Sulc, and C. Batello. 2014. Definitions and terminologies for integrated crop-livestock system. *Revista ciencia agronomica.* 45:1040-1046.

Franzluebbers, A.J., G. Lemaire, P.C. de Faccio Carvalho, R.M. Sulc, and B. Dedieu. 2014. Toward agricultural sustainability through integrated crop-livestock systems. III. Social aspects. *RENEWABLE AGRICULTURE AND FOOD SYSTEMS*. Vol. 29, no. 3: 192-194.

Franzluebbers, A.J., G. Lemaire, P.C. de Faccio Carvalho, R.M. Sulc, and B. Dedieu. 2014. Toward agricultural sustainability through integrated crop-livestock systems. II. Production responses Introduction. *EUROPEAN JOURNAL OF AGRONOMY*. Vol. 57, 1-3.

Franzluebbers, A.J., G. Lemaire, P.C. de Faccio Carvalho, R.M. Sulc, and B. Dedieu. 2014. Toward agricultural sustainability through integrated crop-livestock systems: Environmental outcomes Introduction. *AGRICULTURE ECOSYSTEMS & ENVIRONMENT*. Vol. 190, 1-3.

Poster Presentations

Barker, D.J., **R.M. Sulc**, and J. McCormick. 2014. Nutrient removal by alfalfa under various fertilization regimes. Int'l Meeting Abstracts, 2-5 November 2014, Long Beach. American Society of Agronomy-Crop Science Society of America-Soil Science Society of America, Madison, WI. (poster presentation).

Vessoni, T.C., D.J. Barker, J. McCormick, A. Moraes, and **R.M. Sulc**. 2014. Managing sorghum x sudanrass and sudangrass hybrids as double crop forage after winter wheat. Int'l Meeting Abstracts, 2-5 November 2014, Long Beach. American Society of Agronomy-Crop Science Society of America-Soil Science Society of America, Madison, WI. (poster presentation).

Bulletins and Extension Factsheets

Hammond, R.B. A. Michel, J.B. Eisley, and M. **Sulc**, "Potato leafhopper on alfalfa". Columbus: Ohio State Univ. Ext. Factsheet. (ENT-33-14,2014), http://ohioline.osu.edu/ent-fact/pdf/ENT_33_14.pdf

McCormick, J.S., R.M. Sulc, and D.J. Barker. 2014. Ohio forage performance trials. Ohio State University Dept. Horticulture & Crop Science Series 195, The Ohio State University, Columbus, OH.

Ward, B.W., R.M. Sulc, D. Shoemaker, and C. Rine. 2014. Alfalfa Hay Production Budget. Dept. Agric., Env., and Development Economics Enterprise Budget. The Ohio State University, Columbus, OH. Available at <http://aede.osu.edu/research/osu-farm-management/enterprise-budgets>

Ward, B.W., R.M. Sulc, D. Shoemaker, and C. Rine. 2014. Alfalfa Haylage Production Budget. Dept. Agric., Env., and Development Economics Enterprise Budget. The Ohio State University, Columbus, OH. Available at <http://aede.osu.edu/research/osu-farm-management/enterprise-budgets>

Ward, B.W., R.M. Sulc, D. Shoemaker, and C. Rine. 2014. Grass Hay Production Budget. Dept. Agric., Env., and Development Economics Enterprise Budget. The Ohio State University,

Columbus, OH. Available at <http://aede.osu.edu/research/osu-farm-management/enterprise-budgets>

Popular Articles

Sulc, R.M. 2014. Large variation in forage grass performance in 2014. Ohio's Country Journal. December 2014.

Sulc, R.M. 2014. Frosted forage precautions. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-35 and Penn State Extension Field Crop News 14 October 2014.

Sulc, R.M. 2014. Prussic acid testing in forages. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-35 and Penn State Extension Field Crop News 14 October 2014.

Lewandowski, R., and R.M. Sulc, R.M. 2014. Last alfalfa cutting of the year. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-29 & Beef Cattle Newsletter No. 901.

Sulc, R.M. 2014. Spring pasture renovation begins in the fall. Farm and Dairy Magazine. September 18, 2014.

Sulc, R.M., and R. Lewandowski, R. 2014. Perennial forage establishment in August. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-26.

Sulc, R.M., P.R. Thomison, and W.P. Weiss. 2014. Corn silage harvest timing. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-28 & Buckeye Dairy News August

Sulc, R.M. 2014. Estimating pre-harvest alfalfa NDF in the field. Ohio State University Extension. Ohio Forages Blog.

Sulc, R.M. 2014. First cutting of forages. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-13.2014.

Sulc, R.M. 2014. Forage planting dates. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-13.2014.

Sulc, R.M. 2014. Time for first cutting. Ohio State University Extension. Ohio Forages Blog.

Sulc, R.M. 2014. Winter injury in perennial forages. Ohio State University Extension. Ohio Forages Blog.

Sulc, R.M. 2014. Winterkill of Italian ryegrass stands. Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-10.

Sulc, R.M., and R. Lewandowski. 2014. Have you evaluated your forage stands? Ohio State University Extension. C.O.R.N. Newsletter Vol. 2014-10.

Sulc, R.M. 2014. Forage production school. Ohio State University Extension. Ohio Forages.2014. <http://ohioforages.blogspot.com/>.

Sulc, R.M. 2014. Seed selection: don't roll the dice. Progressive Forage Grower. Vol. 15, Issue 1. p. 9-10.

Virginia

Published Written Works

Bonin C., B. Tracy. 2014. Evaluation of Perennial Warm-Season Grass Mixtures Managed for Grazing or Biomass Production. Crop Science 54:2373-2385.

Jones G., B. Tracy. 2014. Pasture Soil and Herbage Nutrient Dynamics through Five Years of Rotational Stocking. Crop Science 54:2351-2361.

Tracy B., D. Schlueter, J. Flores. 2015. Conditions that favor clover establishment in permanent grass swards. Grassland Science 61:34-40.

Tracy B. 2014. Managing tall fescue toxins with legumes. Crops & Soils Magazine 47(6):22

Jones G. and B. Tracy. 2015. Orchardgrass die off. Crops and Soils Magazine. May-June 2015. Pp. 4-9.

Tracy B. 2014. Managing tall fescue toxins with legumes. Mid-Atlantic Regional Agronomist Quarterly Newsletter Issue 9 Sept. 2014. p.3-4.

Scientific and Outreach Oral Presentations

Jones G., B. Tracy. Evaluation of Temporal Nutrient Dynamics in Pasture-Based Beef Production System. Proceedings AFGC Annual Conference. Covington, KY.

Bauer R., B. Tracy. Mob Grazing Effects on Pasture Yield and Nutritive Value in Virginia. 124-9 Abstracts ASA-CSSASSSA Annual Meetings, Long Beach, CA.

Jones G., B. Tracy. Preliminary Results of a Survey of Mid--Atlantic Orchardgrass Hay Fields. Abstracts American Forage and Grassland Council Annual Meeting, St. Louis Mo.

Tracy B. August 2014. Native Warm-season Grasses for Livestock Production. Front Royal, Va. Audience: Civic/Community. Scope: Regional. Reason: Invited. Number of Times Delivered: 1. Audience Size: 50. Hours of Instruction: 3.0.

Tracy B. April 2014. "Forage Management this Spring". Giles County Spring Forage Talk, Pembroke, Va. Audience: Civic/Community. Scope: Regional. Reason: Invited. Number of Times Delivered: 1. Audience Size: 50. Hours of Instruction: 1.0.

Tracy B. June 2014. "Update on Mob Grazing Studies" Livestock-Dairy-Forages In-service. Blacksburg, Va. Audience: Higher Ed. Scope: In-state. Reason: Invited. Number of Times Delivered: 1. Audience Size: 40. Hours of Instruction: 1.0.

Minnesota

Peer-reviewed papers

Wells, M.S, K.L. Martinson, D.J. Undersander, C.C. Sheaffer. 2014. A Survey Investigating Alfalfa Winter Injury in Minnesota and Wisconsin from the Winter of 2012 – 2013. *Forage and Grazinglands*. Available online at doi:10.2134/FG-2013-0051-RS.

Grev, A.M., E.C. Glunk, M.R. Hathaway, W.F. Lazarus, and K.L. Martinson. 2014. The effect of small square-bale feeder design on hay waste and economics during outdoor feeding of adult horses. *Journal of Equine Veterinary Science*. 34: 1,269-1,273.

Glunk, E.C, C.C Sheaffer, M.R. Hathaway, and K.L. Martinson. 2014. Interaction of grazing muzzle use and grass species on forage intake of horses. *Journal of Equine Veterinary Science*. 34: 930-933.

Sheaffer, C.C., K.M. Martinson, D. Wyse and K.M. Moncada. 2014. Companion Crops for Organic Alfalfa Establishment. *Agronomy Journal*. 106: 309-314.

Vail, A. W., Wang, P., Uefuji, H., Samac, D. A., Vance, C. P., Wackett, L. P., and Sadowsky, M. J. 2015. Biodegradation of atrazine by three transgenic grasses and alfalfa expressing a modified bacterial atrazine chlorohydrolase gene. *Transgenic Res*. 24:475-488.

Zhang, T., Yu, L.-X., McCord, P., Miller, D., Bhamidimarri, S., Johnson, D., Monteros, M., Ho, J., Reisen, P., and Samac, D.A. 2014. Identification of molecular markers associated with *Verticillium* wilt resistance in alfalfa (*Medicago sativa* L.) using high-resolution melting. *PLoS One*: 9(12): e115953.

Lamb, J. F. S., Jung, H.-J. G., Russelle, M. P., Sheaffer, C. C., Samac, D. A., and Vance, C. P. 2014. Alfalfa non-feed uses. *Legume Perspectives* 4:38.

Lamb, J. F. S., Jung, H.-J. G., and Samac, D. A. 2014. Environmental variability and/or stability of stem fiber content and digestibility in alfalfa. *Crop Sci*. 54:1-10.

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Penn State University

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Hall, M.H. Alternative Forage Crops. Progressive Hay & Forage Grower

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Malinowski, D.P., and W.E. Pinchak. 2014. Invited presentation: Forage grasses matching production to favorable water supply. ASA-CSSA-SSSA Annual Meeting. 4-7 November 2014. Long Beach, CA.

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Interrante, S.M., T.J. Butler, and J.L. Foster. 2014. Production and nutritive value of warm-season legumes in Oklahoma and Texas. Crops & Soils Magazine. Mar-Apr.

Format for Scientific and Outreach Presentations (arrange alphabetically)

Foster, J.L. Adoption of Emerging Technologies. 2014 Forum on Global Ecology, Agriculture and Rural-Uplift Programs. National Chung Hsing University. Taichung, Taiwan, Nov. 17, 2014.

Foster, J.L. Black-eyed Pea and Other Alternative Crops for International Rural Development. Soil and Water Conservation Bureau of Taichung Branch. Xigang Township, Taiwan, Nov. 20, 2014.

Foster, J.L. National conference on cover crops and soil health. Omaha, NE. Feb. 17-19, 2014.

Foster, J.L. South Texas Area Farm and Ranch Club, South Texas Tour, Forage Research Program Tour and Update, Texas A&M AgriLife Extension Wilson County. Oct. 21, 2014.

Foster, J.L. Soil: A Key Factor in Forage Species Selection. Agriculture Symposium. Texas A&M AgriLife Extension District 11. Apr. 16, 2014.

Foster, J.L. Bermudagrass Stem Maggot. Agriculture Symposium. Texas A&M AgriLife Extension District 11. Apr. 16, 2014.

Foster, J.L. Conservation Agriculture in Cotton-Sorghum Rotations of South Texas. Continuing Education Unit Event. Texas A&M AgriLife Extension of Kleberg County. Jun. 24, 2014.

Foster, J.L. Forages for south Texas: What are my options? Continuing Education Unit Event. Grass Growers Conference. Texas A&M AgriLife Extension of Nueces County. March 27, 2014.

University of Nebraska-Lincoln

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6. Scientific and Outreach Oral Presentations. Include workshops, colloquia, conferences, symposia, and industry meetings in which you presented and/or organized. See below for formatting.

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Guretzky, J.A., A. Kohmetscher, D. Namuth-Covert, and G. Nugent. 2014. Teaching students how perennial grasses grow and develop: online learning objectives and assessment. ASA, CSSA, & SSSA International Annual Meeting. Nov. 2-5, 2014. Long, Beach, CA.

University of Maryland

Books:

Samac, D., L. Rhodes, and W.O. Lamp (eds.). 2015. *Compendium of Alfalfa Diseases and Insect Pests*. American Phytopathology Association, St. Paul, MN. 138 pp.

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Lamp, W.O. 2015. Potato leafhopper. In *Compendium of Alfalfa Diseases and Insect Pests*, D. Samac, L. Rhodes, and W.O. Lamp (eds.), p. 89-90. American Phytopathology Association, St. Paul, MN.

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Baker, M.B., P.D. Venugopal, and W.O. Lamp. 2015. Climate change and phenology: *Empoasca fabae* (Hemiptera: Cicadellidae) migration and severity of impact. PLoS ONE 10(5): e0124915.

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Leslie, A., J. Grant, and W. Lamp, "Maryland Kudzu Bug Survey", www.mdkudzubug.org.

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6. Scientific and Outreach Oral Presentations.

Lamp, W. 2015. "Non-Target Effects of Transgenic Corn Debris in Streams: The Changing Picture of Risk Assessment." Department of Horticultural and Crop Sciences, The Ohio State University, Columbus, OH.

Lamp, W. 2015. "Climate Change and Your Farm." Future Harvest/CASA Conference, University of Maryland, College Park, MD.

Lamp, W.O., R. Eckert, A. Leslie, and G. Dively. 2015. "Lack of evidence for non-target effects of Bt corn on stream insects." Eastern Branch, Entomological Society of America, Rehobeth, DE.

DeLay, B., and W. Lamp. 2014. "Symbiont-insect interaction in a novel association: Decreased wound response to a leafhopper." National Meeting of the Entomological Society of America, Portland, OR.

Lamp, W., and A. Avanesyan (organizers). 2014. "Symposium: Novel plant-insect associations: Implications of the lack of coevolution." Entomological Society of America, Portland, OR.

Lamp, W. 2015. "Climate Change & Your Farm, Panel Discussion." Future Harvest/CASA Conference, College Park, MD.

Lamp, W., and A. Leslie. 2014. "Continued Detection of the Kudzu Bug and its Biology/Damage in Soybeans." Maryland Commodity Classic, Queenstown, MD.

University of Wyoming

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Islam, M.A. and Obour, A.K. 2014. Drought physiology of forage crops. *In: Handbook of Plant and Crop Physiology*, 3rd Edition (M. Pessarakli, Ed.), pp. 427-440. CRC Press, Taylor & Francis Publishing Company, Florida.

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Islam, M.A. 2014. Quinoa has potential for adding to Wyoming producer profits. *Barnyards & Backyards Profitable & Sustainable Agricultural Systems (PSAS) Newspapers Insert (an insert to twenty-four Wyoming newspapers; 144,000 copies of this insert were distributed across the state in March 2014).*

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Islam, M.A. 2014. Economics of Tall Fescue Production. Proceedings of the Japan Society for the Promotion of Science-US Alumni Association 5th Multidisciplinary Science Forum International Annual Meetings 7 November 2014. University of Florida, Gainesville, FL (Japan Society for the Promotion of Science).

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