

## Curriculum Vitae of Doohong Min

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### Education:

- **Ph. D. in Agronomy** (Forage Systems and Nutrient Management), University of Maryland, College Park, MD. Dissertation title: Assessing the Effectiveness of Forage Crops to Utilize Nitrogen from Dairy Manure.
- **M. Sc. in Plant Science** (Forage Physiology and Management), University of Alberta, Edmonton, Alberta, Canada. Thesis title: Study of the Stand Density of Alfalfa.
- **M. Sc. in Animal Science** (Forage Production and Management), Seoul National University, Seoul, South Korea. Thesis title: Effect of Liming and Seed-Coating on Early Growth, Dry Matter Yield and Nutritive Value of Alfalfa, and Soil Properties.
- **B. Sc. in Dairy Science**, Sungkyunkwan University, Seoul, South Korea.

### Work Experience:

- Professor: (60% Teaching and 40% Research), Department of Agronomy, Kansas State University, Agronomy Department, Manhattan, KS, USA. Job Responsibilities: Develop and teach undergraduate/graduate courses (World Food Crops, Forage Bowl Competition, Forage Management and Utilization (both in-person and online), Applied Crop Physiology, Advanced Forage Management, and Agronomy Graduate Seminar), advise undergraduate / graduate students in the Agronomy Department, and conduct forage research.
- Associate Professor, Department of Agronomy, Kansas State University, Manhattan, KS, USA
- Assistant Professor, Department of Agronomy, Kansas State University, Manhattan, KS, USA.
- Extension Forage Specialist (50 % Research and 50 % Extension), Michigan State University
- Post-Doctoral Associate: Forage Systems and Nutrient Management in the Department of Agronomy, University of Maryland, College Park, Maryland, USA.
- Graduate Research Assistant (Ph. D.): Department of Agronomy, University of Maryland, College Park, Maryland, USA.
- Graduate Research Assistant (M. Sc.): Department of Plant Science, University of Alberta, Edmonton, Alberta, Canada.

## Professional memberships:

- American Society of Agronomy (ASA)
- Crop Science Society of America (CSSA)
- American Forage and Grassland Council (AFGC)
- Kansas Forage and Grassland Council (KFC)
- Asian-Australasian Society of Animal Sciences (AJAS)
- The Korean Society of Grassland and Forage Science
- North American Colleges and Teachers of Agriculture (NACTA)
- Gamma Sigma Delta, Honor Society of Agriculture
- Sigma Xi, The Scientific Research Society

## Refereed Publications

- 1) A. Faye, A. Augustine, M. Akplo, Z. Stewart, **D. H. Min**, V. Prasad, and Y. Mulisa. 2023. Dual-purpose cowpea grain and fodder yield response to variety, NPK fertilizer, and environment. *Agrosystems, Geosciences & Environment*. DOI: 10.1002/agg2.20459.
- 2) Nilson Vieira Junior, Ana Carcedo, **D. H. Min**, Andre Amakobo Diatta, Araya Berhe, P. V. Vara Prasad, Amadiane Diallo and Ignacio Antonio Ciampitti. 2023. Management Interventions of Pearl Millet Systems for Attaining Cereal Self-Sufficiency in Senegal. DOI: 10.3389/fsufs.2023.1281496.
- 3) André A. Diatta, César Bassène, Anicet G. B. Manga, Ozzie Abaye, Wade Thomason, Martin Battaglia, Emre Babur, Ömer Uslu, **D. H. Min**, Mahmoud Seleiman, Jose F. D. C. Leme Filho, Cheikh Mbow. 2023. Integrated Use of Organic Amendments Increased Mungbean (*Vigna radiata* (L.) Wilczek) Yield and Its Components Compared to Inorganic Fertilizers. *Urban Agriculture & Regional Food Systems*. DOI: 10.1002/uar2.20048. *Frontiers in Sustainable Food Systems*. DOI: 10.3389/fsufs.2023.1281496.
- 4) Akplo, T., A. Faye, A. Obour, Z. Stewart, **D. H. Min**, and V. Prasad. 2023. Dual-Purpose Crops for Grain and Fodder to Improve Nutrition Security in Semi-arid Sub-Saharan Africa. *Food and Energy Security*. DOI:10.1002/fes3.492.
- 5) Yang, S., M. Mahmood, J. Lee, **D. H. Min**, and J. Im. 2023. Evaluation and optimization of lysis method for microbial DNA extraction from epiphytic phyllosphere samples. *Journal of Microbiological Methods*. DOI: 10.1016/j.mimet.2023.106677.
- 6) Carcedo, A., N. Junior, L. Marziotte, A. Correndo, A. Araya, P.V. Prasad, **D. H. Min**, Z. Stewart, A. Faye, and I. Ciampitti. 2023. The urgency for investment on local data for advancing food assessments in Africa: a review case study for APSIM crop modeling. *Environmental Modeling and Software*. DOI:10.1016/j.envsoft.2023.105633.
- 7) Nilson, J, A. Carcedo, **D. H. Min**, A. Diatta, A. Araya, P.V. Prasad, A. Diallo, and I. Ciampitti. Management Adaptations for Water-Limited Pearl Millet Systems in Senegal. 2023. *Agricultural Water Management*. DOI:10.1016/j.agwat.2023.108173.
- 8) Beye, A., P. Diakhate, O. Diouf, A. Faye, A. Obour, Z. Stewart, Y. Assefa, **D. H. Min**, P. V. V. Prasad. 2022. Socio-Economic Constraints of Adopting New Cowpea Varieties in Three Agro-Ecological Zones in the Senegalese Peanut Basin. *Sustainability*. DOI: 10.3390/su142114550.
- 9) Manga, A., M. Ndiaye, M. Ndiaye, S. Sané, T. Diop, A. Diatta, C. Bassene, **D. H. Min**, M. Battaglia, and M. Harrison. 2022. Arbuscular Mycorrhizal Fungi Improve Growth and Phosphate Nutrition of *Acacia seyal* (Delile) under Saline Conditions. *Soil Systems*, DOI: 10.3390/soilsystems6040079.
- 10) Tedesco, D., L. Nieto, C. Hernández, J. Rybecky, **D. H. Min**, A. Sharda, K. Hamilton, I. Ciampitti. 2022. Remote Sensing on Alfalfa as an

Approach to Optimize Production Outcomes: A Review of Evidence and Directions for Future Assessments. Remote Sensing Remote Sensing. DOI: 10.3390/rs14194940

- 11) Baral, R., K. Bhandari, R. Kumar, and **D. H. Min**. 2022. Yield Gap Analysis of Alfalfa Grown Under Rainfed Condition in Kansas. *Agronomy*. DOI: 10.3390/agronomy12092190
- 12) **Min, D. H.**, R. Baral, and K. Bhandari. Effect of Potassium Application Rate on Dry Matter Yield and Forage Nutritive Value in Alfalfa. *Current Agriculture Research Journal* DOI: 10.12944/CARJ.10.2.05
- 13) Casler, M., D. K. Lee, R. B. Mitchell, P. R. Adler, R. M. Sulc, K. D. Johnson, R. L. Kallenbach, A. R. Boe, R. D. Mathison, K. A. Cassida, D. H. Min, Y. Zhang, R. Ong, and T. Sato. 2022. Biomass Quality Responses to Selection for Increased Biomass Yield in Perennial Energy Grasses. *BioEnergy Research*. DOI: 10.1007/s12155-022-10513-2.
- 14) Baral, R., K. Bhandari, R. Kumar, and **D. H. Min**. 2022. Yield Gap Analysis of Alfalfa Grown Under Rainfed Condition in Kansas. *Agronomy*. DOI: 10.3390/agronomy12092190
- 15) Kumar, M., H. Ram, N. Tyagi, R. Meena, D. Kumar, R. Kumar, K. Singh, and **D. H. Min**. 2022. Effect of Zinc Fertilization on Nutritional Quality of Cowpea Cultivars. *Legume Research*. DOI: 10.18805/LR-4669.
- 16) Eeswaran, R., A. Nejadhashemi, A. Faye, **D. H. Min**, V. Prasad, and I. Ciampitti. 2022. Current and Future Challenges and Opportunities for Crop-Livestock Farming in West Africa: Perspectives from the Case of Senegal. *Agronomy*. DOI: 10.3390/agronomy12081818.
- 17) Baral, R., R. Lollato, K. Bhandari, and **D. H. Min**. 2022. Yield Gap Analysis of Rainfed Alfalfa in the United States. *Frontiers in Plant Science*. DOI: 10.3389/fpls.2022.931403.
- 18) Casler, M., D. K. Lee, R. B. Mitchell, P. R. Adler, R. M. Sulc, K. D. Johnson, R. L. Kallenbach, A. R. Boe, R. D. Mathison, K. A. Cassida, **D. H. Min**, Y. Zhang, R. Ong, and T. Sato. 2022. Biomass Quality Responses to Selection for Increased Biomass Yield in Perennial Energy Grasses. *Bioenergy Research*. DOI: 10.1007/s12155-022-10513-2.
- 19) Adhikari, L., R. Baral, R. Paudel, **D. H. Min**, S. Makaju, H. Poudel, J. Acharya, and A. Missaoui. 2022. Cold Stress in Plants: Strategies to Improve Cold Tolerance in Forage Species. *Plant Stress*. DOI: 10.1016/j.stress.2022.100081.
- 20) Tiwari, M, B. Singh, **D. H. Min**, and K. Jagadish. 2022. Omics Path to Increasing Productivity in Orphan Crops under Climate Change – A Lentil Case Study. *Frontiers in Plant Science*. DOI: 10.3389/fpls.2022.813985.
- 21) Tiwari, M, R. Kumar, **D. H. Min**, and S. V. Jagadish. 2022. Genetic and Molecular Mechanisms Underlying Root Architecture and Function under Heat Stress – A Hidden Story. *Plant, Cell, & Environment*. 45:771-788.
- 22) Xu, X. and **D. H. Min**. 2022. Harvesting Schedule Effects on Forage Yield and Nutritive Values in Low Lignin Alfalfa. *Journal of Animal Science and Technology*. 64:262-273.
- 23) Mofini, M-T, A. Diedhiou, M. Simonin, D. Dondiou, S. Pignoly, C. Ndiaye, **D. H. Min**, Y. Vigouroux, L. Laplaze, and A. Kane. 2022. Cultivated and Wild Pearl Millet Display Contrasting Patterns of Abundance and Co-occurrence in Their Root Mycobiome. *Scientific Reports*. DOI: <https://doi.org/10.1038/s41598-021-04097-8>.
- 24) Mekasha, A., **D. H. Min**, N. Bascom, and J. Vipham, 2021. Seeding Rate Effects on Forage Productivity and Nutritive Value of Sorghum. *Agron. J*. DOI: 10.1002/agj2.20856.
- 25) Tegegn, A., A. Tolera, A. Mekasha, D. Pendell, **D. H. Min**, J. Vipham. 2021. Determinants of Sorghum Biomass Use for Livestock Feed Across Sorghum Growing Agroecological Zones in Ethiopia. *Tropical and Subtropical Agroecosystems*. *Tropical and Subtropical Agroecosystems*. 24:101-114.
- 26) Araya, A., P.K. Jha, Z. Zambreski, A. Faye, I. Ciampitti, **D. H. Min**, P. Gowda, U. Singh, and V. Prasad. 2021. Evaluating Crop Management Strategies for Sorghum, Pearl Millet and Peanut under the Projected Mid-Century Climate Scenarios for Different Locations in Senegal. *Climate Risk Management*. DOI: 10.1016/j.crm.2022.100436.

- 27) Diatta, A., **D. H. Min**, and K. Jagadish. 2021. Drought Stress Responses in Non-transgenic and Transgenic alfalfa – Current Status and Future Research Directions. 170:1-50. *Advances in Agronomy*.
- 28) McDonald, I., **D. H. Min**, and R. Baral. 2021. Effect of a fall cut on dry matter yield, nutritive value, and stand persistence of alfalfa. *J. Anim. Sci. Technol.* 63(4):799-814.
- 29) Mofini, M-T, A. G. Diedhiou, M. Simonin, D. T. Dondjou, S. Pignoly, C. Ndiaye, **D. H. Min**, Y. Vigouroux, A. Kane, L. Laplaze. 2022. Cultivated and wild pearl millet display contrasting patterns of abundance and co-occurrence in their root mycobiome. *Scientific Reports*. DOI: 10.1038/s41598-021-04097-8.
- 30) Tegegn, A., A. Tolera, A. Mekasha, D. Pendell, **D. H. Min**, J. Vipham. 2021. Determinants of sorghum biomass use for livestock feed across sorghum growing agroecological zones in Ethiopia. *Tropical and Subtropical Agroecosystems*. 24:101-114.
- 31) Moorberg, C. J., S. Howe, K. J. Donnelly, and **D. H. Min**. 2021. Perceptions of higher education during the COVID-19 pandemic among students of agronomy, soil, and environmental sciences. *Natural Sciences Education*. DOI: 10.1002/nse2.20055.
- 32) Saylor, B., **D. H. Min**, and B. Bradford. 2021. Effects of cultivars and cutting times on dry matter yield and forage quality of teff grass. *J. Anim. Sci. Technol.* 63:510-519.
- 33) McDonald, I., R. Baral, and **D. H. Min**. 2021. Effects of Alfalfa and Alfalfa-Grass Mixtures with Nitrogen Fertilization on Dry Matter Yield and Forage Nutritive Value. *J. Anim. Sci. Technol*, DOI: <https://doi.org/10.5187/jast.2021.e33>.
- 34) Mofini, M-T, L. Laplaze, and **D. H. Min**. 2020. Mycorrhizal status of cultivated and wild pearl millet (*Pennisetum glaucum* (L.) R. Br) in three agro-ecological zones of Senegal. *Int. J. Development Research*. 12: 42550-42556.
- 35) Arnold, A., Cassida, K. Albrecht, M. Hall, **D. H. Min**, X. Xu, D. Undersander, E. Santen, and M. Sulc. 2020. Changes in forage nutritive value of reduced-lignin alfalfa during regrowth. *Crop Science*. DOI: 10.1002/csc2.20366.
- 36) Casler, M, D. K. Lee, R. B. Mitchell, P. R. Adler, R. M. Sulc, K. D. Johnson, R. L. Kallenbach, A. R. Boe, R. D. Mathison, K. A. Cassida, **D. H. Min**, and K. J. Moore. 2019. Nitrogen demand associated with increased biomass yield of switchgrass and big bluestem. *Bioenergy Research*. doi.org/10.1007/s12155-019-10081-y.
- 37) Faye, A., B. Sine, J. Chopart, A. Grondin, M. Lucas, A. Diedhiou, P. Gantet, L. Cournac, **D. H. Min**, A. Audebert, A. Kane, and L. Laplaze. 2019. Development of a model estimating root length density from root impacts on a soil profile in pearl millet (*Pennisetum glaucum* (L.) R. Br). Application to measure root system response to water stress in field conditions. *PLOS ONE*. 14(7): e0214182.
- 38) Arnold, A., Cassida, K. Albrecht, M. Hall, **D. H. Min**, X. Xu, D. Undersander, E. Santen, and M. Sulc. 2019. Multistate evaluation of reduced-lignin alfalfa harvested at different intervals. *Crop Science*. 59:1799-1807.
- 39) Kim, J. Y., B. H. Lee, B. Chemere, **D. H. Min**, B. W. Kim and K. I. Sung. 2019. In vivo nutritive value of rice feed for sheep and its application for cattle feed. *J. Anim. Sci. Technol.* 61: 254-259.
- 40) Ba, T, T. Diaw, **D. H. Min**, L. Kane, S. Dieng, O. Sy, A. Dieng. 2019. Influence of Nitrogen Fertilization (urea) and Association with a Legume (*Vigna unguiculata* L.) on the Nutritional Value of Three Potential Dual-Purpose Millet Accessions and Thialack 2 and Souna 3 Varieties in Senegal. *Journal of Chemical, Biological and Physical Sciences*. 9 (1):94-106.
- 41) Sene, S., M. Gueye, F. Sarr, Y. Diallo, M. Sow, A. Faye, **D. H. Min**, and M. Gaye. 2018. Parboiling effect on phytate containing two Senegalese pearl millet varieties (*Pennisetum glaucum* [L.] R.Br.) GB 87-35 and ICRITABI. *J. Nutri. Health & Food Sci.* 6: 1-6.
- 42) Saylor, B., **D. H. Min**, and B. Bradford. 2018. Productivity of lactating dairy cows fed diets with teff hay as the sole forage. *Journal of Dairy Science*. 5984–5990.

- 43) McGowan, A., **D. H. Min**, J. Williams, and C. Rice. 2018. Impact of nitrogen application rate on switchgrass yield, production costs, and nitrous oxide emissions. *J. Environmental Quality*. 47: 228-237.
- 44) Casler, M. D., K. P. Vogel, D. K. Lee, R. B. Mitchell, P. R. Adler, R. M. Sulc, K. D. Johnson, R. L. Kallenbach, A. R. Boe, R. D. Mathison, K. A. Cassida, **D. H. Min**, J. Crawford and K. J. Moore. 2018. 30 years of progress toward increased biomass yield of switchgrass and big bluestem. *Crop Sci*. 58: 1242-1254.
- 45) Lee, J. E., G. Yadhu, P. Vadlani, **D. H. Min**, K. Y. San. 2018. Efficient production of free fatty acids from switchgrass using recombinant *Escherichia coli*. *Biotechnology Progress*. 34: 91-98.
- 46) Peng, J., M. Kim, M. Jo, **D. H. Min**, B. Lee, K. Kim, and S. Sung. 2017. Accuracy evaluation of the crop-weather yield predictive models of Italian ryegrass and forage rye using cross-validation. *Journal of Crop Science and Biotechnology*. 20: 327-334.
- 47) Serba, D., R. Perumal, T. Tesso, and **D. H. Min**. 2017. Status of Global Pearl Millet Breeding Programs and the Way Forward. *Crop Sci*. 57: 2891-2905.
- 48) **Min, D. H.** and I. McDonald. 2017. Planting alfalfa with cover crops on forage dry matter and nutritive values of alfalfa. *Journal of Agricultural Studies*. 5: 107-115.
- 49) **Min, D. H.**, G. Yadhu, V. Prasad, P. Vadlani and J. Lee. 2017. Effects of different genotypes of switchgrass as a bioenergy crop on yield components and bioconversion potential. *J. Sustainable Bioenergy Systems*. 7: 27-35.
- 50) Lee, J. E., P. Vadlani, and **D. H. Min**. 2017. Sustainable production of microbial lipids from lignocellulosic biomass using oleaginous yeast cultures. *J. Sustainable Bioenergy Systems*. 7: 36-50.
- 51) Qing Ye, X. Lin, E. Adey, **D. H. Min**, Y. Assefa, D. O'Brien, and I. A. Ciampitti. 2017. Evaluation of climatic variables as yield-limiting factors for maize in Kansas. *Int. J. Climatol*. 37: 464-475.
- 52) **Min, D. H.** 2016. Effects of cutting interval between harvests on dry matter yield and nutritive value in alfalfa. *American Journal of Plant Science*. 7:1226-1231
- 53) Holman, J. **D. H. Min**, N. Klocke, I. Kisekka, R. Currie. 2016. Irrigation amount and timing effects on alfalfa nutritive value. *Transactions of the ASABE*. 59:849-860.
- 54) **Min, D. H.** and J. Moyer. Establishing legumes in a tall fescue sward. 2015. *American Journal of Plant Sciences*. 6: 355-361.
- 55) Grabber, J., 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 United States. *Crop Science*. 55:1356-1364.
- 56) Ji, D. H., B. W. Kim, M. M Sargolzei, J. G. Nejad, **D. H. Min**, and K. I. Sung. 2014. Effects of cultivars and seeding rates on chemical composition content of switchgrass. *Journal of Korean Society of Grassland and Forage Science*. 34:179-186.
- 57) Grabber, J., H. Riday, K. A. Cassida, T. C. Griggs, **D. H. Min**, and J. W. MacAdam. 2014. Yield, morphological characteristics, and chemical composition of European- and Mediterranean-derived birdsfoot trefoil cultivars grown in the colder continental United States. *Crop Science*. 54:1893-1901.
- 58) Casler, M., S. Bittman, D. Undersander, R. Mathison, **D. H. Min**, J. Robins, J. Cherney, N. Ehlke, R. Leep, G. Shoemaker, C. Teutsch, and W. Coblenz. 2014. Sparse-Flowering Orchardgrass is Stable Across Temperate North America. *Crop Science*. 54:421-429.

- 59) **Min, D. H.**, T. Dietz, W. Everman, A. Chomas, J. Kells, and R. Leep. 2012. Glyphosate-Resistant Alfalfa Response to Harvest Frequency and Weed Management. *Weed Technology*. 26:399-404.
- 60) Nikiema, P., D.E. Rothstein, **D.H. Min**, and C.J. Kapp. 2011. Nitrogen Fertilization of Switchgrass Increases Biomass Yield and Improves Net Greenhouse Gas Balance in Northern Michigan, USA. *Biomass and Bioenergy*. 35: 4356-4367.
- 61) Gao, J., K.D. Thelen, **D.H. Min**, S. Smith, X. Hao, and R. Gehl. 2010. Effects of Manure and Fertilizer Applications on Canola Oil Content and Fatty Acid Composition. *Agron. J.* 102:790–797.
- 62) Thelen, K.D., B.E. Fronning, S.A. Kravchenko, **D.H. Min**, and G.P. Robertson. 2010. Integrating Livestock Manure with Corn-Soybean Bioenergy Cropping Systems Improves Short-Term Carbon Sequestration Rates and Net Global Warming Potential. *Biomass and BioEnergy*. 34:960-966.
- 63) Hall, M. H., J. M. Dilon, D. J. Undersander, T. M. Wood, P.W. Holman, **D. H. Min**, R. H. Leep, G. D. Lacefield, H. T. Kunelius, P. R. Peterson, and N. J. Ehlke. 2009. Ecogeographic Factors Affecting Inflorescence Emergence of Cool-Season Forage Grasses. *Crop Science*. 49:1109-1115.
- 64) Fronning, B. E., K. D. Thelen, and **D. H. Min**. 2008. Use of Manure, Compost, and Cover Crops to Supplement Crop Residue Carbon in Corn Stover Removed Cropping Systems. *Agron. J.* 100: 1703-1710.
- 65) **Min, D. H.**, H. Bucholtz, and P. Naasz. 2007. Effects of Alfalfa Silage and Brown Mid-Rib Corn Silage and Level of Forage Neutral Detergent Fiber on Animal Performance of Lactating Cows in Michigan. *Asian-Australian Journal of Animal Science*. 20: 373-377.
- 66) Warnock, D. L., R. H. Leep, S. S. Bughrara, and D. H. Min. 2005. Cold Tolerance Evaluation of Improved Diploid and Tetraploid Cultivars of Perennial Ryegrass. *Plant Management Network*. CM-2005-0221-01-RS.
- 67) **Min, D. H.**, K. R. Islam, L. R. Vough, and R. R. Weil. 2003. Dairy Manure Effects on Soil Quality Properties and Carbon Sequestration in Alfalfa and Orchardgrass Systems. *Comm. Soil Sci. and Plant Anal.* 34: 781-799.
- 68) Leep, R., P. Jeranyama, **D. H. Min**, and T. Dietz. 2002. Grazing Effects on Herbage Mass and Composition in Grass-Birdsfoot Trefoil Mixtures. *Agron. J.* 94: 1257 – 1262.
- 69) **Min, D. H.**, L. R. Vough, and J. B. Reeves, III. 2002. Dairy Slurry Effects on Forage Quality of Orchardgrass, Reed Canarygrass, and Alfalfa-Grass Mixtures. *Animal Feed Science and Technology*. 95:143-157.
- 70) **Min, D. H.** and L. R. Vough. 2000. Cutting Frequency Effects on Forage Yield and Stand Persistence of Orchardgrass and Alfalfa-Orchardgrass Fertilized with Dairy Slurry. *Asian-Aus. J. Anim. Sci.* 13:630-635.
- 71) **Min, D. H.**, J. R. King, D. A. Kim, and H. Y. Lee. 2000. Stand Density Effects on Herbage Yield and Forage Quality of Alfalfa. *Asian-Aus. J. Anim. Sci.* 13:929-934.
- 72) J. K. Kim, C. H. Kwon, **D. H. Min**, K. J. Han, J. D. Kim, and D. A. Kim. 2000. Seed Coating Material and Adhesive Effects on Germination and Early Growth of Over-sown Pasture Species. *J. Anim. Sci. & Technol.* 42: 235-242.
- 73) J. K. Kim, C. H. Kwon, K. J. Han, **D. H. Min**, J. D. Kim, and D. A. Kim. 2000. Seed Coating Effect on Establishment and Early Growth of Over-Sown Pasture Species. *Korean Society of Grassland Science*. 20: 61-66.

## Book Chapter

- 1) Djanaguiraman, M., P.V.V. Prasad, Z.P. Stewart, R. Perumal, I.A. Ciampitti, and **D. H. Min**. 2018. Agroclimatology of oat, barley and minor millets. *Agroclimatology Monograph*. American Society of Agronomy.
- 2) Forage and Rangeland Production. 2007. *In* Forage and Rangeland Insects. Entomological Society of America.

## Abstracts

- 1) Baral, R., R. Lolatto, I. Ciampitti, C. Rice, and D. H. Min. 2023. Exploring Alternative Forage Crop in Wheat-Based Rainfed Cropping System in Kansas. ASA-CSSA-SSSA Annual Meeting, St. Louis, MO. October 29-November 2, 2023.
- 2) Mbodji, S., A. Faye, D. Diouf, M. Diatta, Z. Stewart, V. Prasad, and D. H. Min. 2023. Performances of Agricultural Technologies on Groundnut, Millet and Cowpea as Compared to Farmers' Practices: A case study at the iREACH Agricultural Technology (Tech Park) at ISRA – CNRA, Bambey. USAID Feed the Future Sustainable Intensification Innovation Lab Annual Meeting, Somone, Senegal. August 1-3, 2023.
- 3) Ndiaye, J., A. Obour, A. Faye, A. Moriaque, D. Diouf, Z. Stewart, D. H. Min and V. Prasad. 2023. USAID Feed the Future Sustainable Intensification Innovation Lab Annual Meeting, Somone, Senegal. August 1-3, 2023.
- 4) Ndour A., Ndione A, Mbodj I, Kanfany G. Faye, A., Prasad, V., and D. H. Min. 2023. Agronomic Performances of Four Millet Varieties in Farmers' Environment of Thiès, Tivaoaune, and Mbour. USAID Feed the Future Sustainable Intensification Innovation Lab Annual Meeting, Somone, Senegal. August 1-3, 2023.
- 5) Talla L., M. Diaw, A. Dieng, A. Faye, and D. H. Min. 2023. Use of Dual-Purpose Millet Stover to Improve Cattle Weight Gain in the Southern Zone of the Groundnut Basin of Senegal (Kaolack). USAID Feed the Future Sustainable Intensification Innovation Lab Annual Meeting, Somone, Senegal. August 1-3, 2023.
- 6) Tine, S., B. Ndour, A. Faye, A. Obour, D. Diouf, B. Ndiaye, Z. Stewart, V. Prasad, D. H. Min. 2023. Incorporation of cowpea residues in soil enhances grain yield of the following millet crop in Senegal. USAID Feed the Future Sustainable Intensification Innovation Lab Annual Meeting, Somone, Senegal. August 1-3, 2023.
- 7) Baral, R. and D. H. Min. 2023. Irrigation Effects on Forage Dry Matter Yield and Nutritive Value of Alfalfa. International Grassland Congress. Covington, KY. May 13-19, 2023.
- 8) Woitaszewski, L., S. Lancaster, D. H. Min, B. Pedreira, and D. Hallauer. 2022. Grazing Winter Cover Crops, Does it Affect Weed Suppression in Kansas? North Central Weed Science Society. St. Louis, MO. December 5-8, 2022.
- 9) Min, D. H., R. Baral, B. Bradford, and P. Kononoff. 2022. Lower-Lignin Alfalfa Effects on Alfalfa Yield, Nutritive Value, and Dairy Metabolism and Energetics. World Alfalfa Conference. San Diego, CA. November 14-17, 2022.
- 10) Min, D. H., R. Baral, B. Bradford, and P. Kononoff. 2022. Highly Digestible Alfalfa Effects on Agronomic and Dairy Cattle Performance. ASA-CSSA-SSSA Annual Meeting, Baltimore, MD. Nov. 6-9, 2022.
- 11) Baral, B., R. Lolatto, and D. H. Min. 2022. Estimating Water-Limited Potential Yield and Yield Gap of Rainfed Alfalfa in the United States. ASA-CSSA-SSSA Annual Meeting, Baltimore, MD. Nov. 6-9, 2022.
- 12) Junior, N, A. Carcedo, D. H. Min, A. Diatta, and I. Ciampitti. 2022. Sustainable intensification via management of pearl millet systems in Senegal. InterDrought VII: The 7th Congress on Plant Production in Water-Limited Environment, Dakar, Senegal. November 28-December 2, 2022.

- 13) Faye, A., M. Akplo, Z. Stewart, A. Obour, D. H. Min, and V. Prasad. 2022. Improving soil water conservation and appropriate agronomic practices for better resilience in semi-arid conditions of Sahel. InterDrought VII: The 7th Congress on Plant Production in Water-Limited Environment, Dakar, Senegal. November 28-December 2, 2022.
- 14) Obour, A., A. Faye, Z. Stewart, A. Beye, D. Fall, D. H. Min, and V. Prasad. Dual-Purpose Cowpea for Grain and Forage Production in Semi-Arid Regions of West Africa. InterDrought VII: The 7th Congress on Plant Production in Water-Limited Environment, Dakar, Senegal. November 28-December 2, 2022.
- 15) Min, D. H. and R. Baral. 2022. Sustainable Intensification and Diversification in Forage-Livestock Systems. AAAP Conference, South Korea. August 22-25, 2022.
- 16) Ibraheem, M., B. Bradford, D. H. Min, and P. Kononoff. 2022. Impacts of reduced-lignin alfalfa on intake, digestibility, and productivity of lactating Holstein cows. American Dairy Science Association Annual Meeting, Kansas City, MO. June 19-22, 2022.
- 17) Buse, K., B. Bradford, D. H. Min, P. Kononoff. 2022. The Effect of Displacing Conventional Alfalfa Hay with Lower-lignin Alfalfa Hay on Milk Production and Gas Production of Lactating Jersey Cows. American Dairy Science Association Annual Meeting, Kansas City, MO. June 19-22, 2022.
- 18) Min, D. H., R. Baral, M. Ibraheem, B. Bradford, K. Buse, P. Kononoff. 2022. Establishing the Value of Alfalfa with Highly Digestible Fiber. North American Alfalfa Improvement Conference (NAAIC) Annual Meeting in Lansing, MI. June 6-9, 2022.
- 19) Baral, R. and D. H. Min. Yield Analysis of Rainfed Alfalfa in the United States. North American Alfalfa Improvement Conference (NAAIC) Annual Meeting in East Lansing, MI. June 6-9, 2022.
- 20) Faye, A., M. Diaw, F. Sarr, B. Dieye, Z. Stewart, D. H. Min, T. Akplo, A. Obour, and P.V.V. Prasad. 2022. Dual-Purpose Millet Varieties Provides New Options to Overcome Human and Livestock Food/Feed and Nutrition Insecurity in the Sahel. Third International Sustainable Agricultural Intensification and Nutrition Conference. Siem Reap, Cambodia. June 23-25, 2022.
- 21) Maganga, S, F. Sarr, N. Ayessou, A. Faye, D. H. Min. 2022. Effects of Consumption of Fortified Millet SL 169 Flour in Moderately Acute Malnutrition Children Aged 6 to 59 Months in Diaoulé, Senegal. Third International Sustainable Agricultural Intensification and Nutrition Conference. Siem Reap, Cambodia. June 23-25, 2022.
- 22) Faye, A., T. Akplo, Z. Stewart, N. Kane, A. Obour, D. H. Min, and V. Prasad. 2022. What Agronomic Practices for the Management and Conservation of Soil Water for a Better Resilience of Agricultural Production Systems in Semi-Arid Conditions? 9<sup>th</sup> World Water Forum, Dakar, Senegal. March 21-26, 2022.
- 23) Baral, B. R. Lollato, and D. H. Min. 2022. Yield Gap Analysis of Rainfed Alfalfa in the United States. American Forage and Grassland Council) Annual Meeting in Wichita, KS. Jan. 5-8, 2022.
- 24) Baral, R. D. H. Min, R. Lollato, I. Ciampitti, and C. Rice. Effects of Rainfed Wheat-Based Cropping Systems on Forage Yield and Nutritive Values Under Different Stages of Maturity. ASA-CSSA-SSSA Annual Meeting, Salt Lake City, UT. Nov. 7-10, 2021.
- 25) Bastos, L., A. Faye, D. H. Min, Z. Stewart, and I. Ciampitti. 2021. Variety and management selection to optimize dual-purpose pearl millet yield and profit in Senegal. ASA-CSSA-SSSA Annual Meeting, Salt Lake City, UT. Nov. 7-10, 2021.
- 26) Faye, A., D. H. Min, Z. Stewart, A. Obour. 2021. Agricultural Innovation for Boosting Productivity and Resilience in Sub Saharan Africa: Examples from West Africa. ASA-CSSA-SSSA Annual Meeting, Salt Lake City, UT. Nov. 7-10, 2021.



- 27) Moorberg, C., S. Howe, K. Donnelly, and D. H. Min. 2021. Perceptions of higher education among students of agronomy, soil, and environmental sciences during the COVID-19 pandemic. ASA-CSSA-SSSA Annual Meeting, Salt Lake City, UT. Nov. 7-10, 2021.
- 28) Ha, S. and D. H. Min. 2021. Groundwater permit trading and potential groundwater savings in Kansas. AAEA Annual Meeting Abstract. Austin, TX. August 5-8, 2021.
- 29) Ha, S. and D. H. Min. 2021. The influence of extreme weather stress and water quality on the evaluation of beef carcass. AAEA Annual Meeting Abstract, Austin, TX. August 5-8, 2021.
- 30) Min, D. H. and X. Xu. 2020. Harvesting Schedule Effects on Forage Yield and Nutritive Values in Low Lignin Alfalfa. ASA annual meeting (virtual), November 9-13, 2020.
- 31) Mekasha, A., D. H. Min, J. Vipham, N. Bascom, and A. Tegegn. 2019. Linking Cattle Nutrition to Human Nutrition: Exploring Forage Values of Sorghum in Ethiopia. Global Agenda for Sustainable Livestock. Kansas State University, Manhattan, September 9-11, 2019.
- 32) Saylor, B., D. H. Min, B. Bradford. 2019. Productivity of Lactating Dairy Cows with Teff Hay as the Sole Forage. Global Agenda for Sustainable Livestock. Kansas State University, Manhattan, September 9-11, 2019.
- 33) Tine, F., Balde, B., Diatta, S., Tine, K., D. H. Min, Faye, A., Sy, O. 2019. Intercropping of Pearl Millet with Cowpea and Groundnut. USAID Sustainable Intensification Innovation Lab Annual Meeting in Saly, Senegal. April 8-11, 2019.
- 34) Sulc, M., Arnold, A., Cassida, K., Albrecht, K., Hall, M., Min, D. H., Xu, X., Undersander, D., Santen, E. Multi-State Evaluation of Reduced Lignin Alfalfa Forage Nutritive Value and Yield. ASA Annual meeting. Baltimore, MD. November 4 - 8, 2018.
- 35) Wade, C., Vayssières, J., Min, D. H. 2018. Effet de l'intensification de l'élevage sur le cycle de l'azote dans les systèmes mixtes agriculture-élevage du Centre du Sénégal\_Congres International Francophone. Paris, France. December 5-6, 2018.
- 36) Tine, F., Balde, B., Diatta, S., Tine, K., Min, D. H., Faye, A., Sy, O. 2018. Effet de l'association Céréales - légumineuses et de la Fertilisation Organo-minérale sur le Rendement du Mil dans le Bassin Arachidier, Sénégal. Rencontres Francophones Legumineuses. Toulouse, France. October 17-18.
- 37) Schwindt, A., A. Sharda, D. H. Min, and D. Flippo. 2018. Assessing Forage Moisture System Accuracy for Round Alfalfa Bales. 2018 ASABE (American Society of Agricultural and Biological Engineering) Annual International Meeting, Detroit, Michigan. July 29 - August 1, 2018.
- 38) Mekasha, A., D. H. Min, J. Vipham, A. Tegegn, T. Tadesse, G. Ayana, and N. Bascom. 2018. Linking Cattle Nutrition to Human Nutrition: Determining Optimum Seeding rate for Growing Sorghum as a Forage Crop in Ethiopia. 2018 Global Nutrition Symposium for the Feed the Future Innovation Lab for Livestock Systems. Addis Ababa, Ethiopia. Jan. 21 – 23, 2018.
- 39) Mofini M.-T., A. Diedhiou, S. Pignoly, C. Ndiaye, D. H. Min., L. Laplaze, and A. Kane. 2018. Diversity of Arbuscular Mycorrhizal Fungi Associated to Pearl Millet in Diverse Agrosystems in Senegal. International Sustainable Agriculture Intensification and Nutrition Conference, Phnom Penh, Cambodia, January 4 - 6, 2018.
- 40) McDonald, I. and D. H. Min. 2017. Effects of Low-Lignin Alfalfa and Alfalfa-Grass Mixtures on Yield and Nutritive Values. ASA Annual meeting. Tampa, FL. October 22 - 25, 2017.
- 41) Xuan, X. and D. H. Min. 2017. Effects of Long-term Weather Variations on Alfalfa Production in the Midwestern United States. ASA Annual meeting. Tampa, FL. October 22 - 25, 2017.
- 42) Davidson, J. and D. H. Min. 2017. Evaluating Teff (*Eragrostis tef*) as a Summer Forage. ASA Annual meeting. Tampa, FL. October 22 - 25, 2017.

- 43) Saylor, B., D. H. Min, and B. J. Bradford. 2017. Productivity of Lactating Dairy Cows Fed Diets with Teff hay as the Sole Forage. *J. Dairy Sci.* 100 (Suppl. 2):130. June 25 - 28 in Pittsburgh, Pennsylvania.
- 44) Saylor, B., D. H. Min, and B. J. Bradford. 2017. Effect of Seed Variety and Cutting Date on Nutritive Values and In Vitro Digestibility of Teff Grass. *J. Dairy Sci.* 100 (Suppl. 2):265. June 25 - 28 in Pittsburgh, Pennsylvania.
- 45) McDonald, I. and D. H. Min. 2016. Effects of Alfalfa and Alfalfa-Grass Binary Mixture on Dry Matter Yield, Nutritive Values, Botanical Composition, and Stand Persistence. ASA Annual meeting. Phoenix, AZ. November 5 - 9, 2016.
- 46) Xuan, X. and D. H. Min. 2016. Effects of Seeding Rates and Cutting Management of Reduced Lignin Alfalfa on Dry Matter Yield, Nutritive Values, and Stand Persistence. ASA Annual meeting. Phoenix, AZ. November 5 - 9, 2016.
- 47) McGowan, A., C. Rice, and D. H. Min. 2016. Impact of Nitrogen Rate on Nitrous Oxide Emissions, Switchgrass Yield and Production Costs. ASA Annual meeting. Phoenix, AZ. November 5 - 9, 2016.
- 48) Parker, J., M. Sulc, K. Albrecht, K. Cassida, M. Hall, J. Hermann, D. H. Min, S. Orloff, and D. Undersander. Forage Nutritive value of a Reduced Lignin Alfalfa Cultivars. 2016. Poster Presentation at the North American Alfalfa Improvement Conference (NAAIC). Madison, WI. July 12 – 14, 2016.
- 49) Min, D. H., J. Moyer, K. Harmony, J. Holman, M. Spangler, I. McDonald, and X. Xu. Effects of Application Rates and Types of Nitrogen Fertilizer on Forage Dry Matter Yield and Nutritive Value of Teff. ASA Annual meeting. Minneapolis, MN. November 15-18, 2015.
- 50) Min, D. H., B. Gillen, M. Spangler, I. McDonald, and X. Xu. Planting Alfalfa with Cover Crops on Forage Dry Matter Yield and Nutritive Value of Alfalfa. ASA Annual meeting. Minneapolis, MN. November 15-18, 2015.
- 51) Min, D. H., J. Holman, N. Klocke, and R. Currie. 2014. Irrigation Amount and Frequency Effects on Alfalfa Forage Quality. ASA Annual meeting. Long Beach, CA. November 2-5, 2014.
- 52) Min, D. H., A. Zukoff, S. Zukoff, J. Aguilar, and C. Randall. 2014. Cutting Frequency Effects on Yield and Nutritive Values of Alfalfa. ASA Annual meeting. Long Beach, CA. November 2-5, 2014.
- 53) Min, D. H., and E. A. Santos. 2014. Modeling of Alfalfa Growth under Different Cutting Management Systems. ASA Annual meeting. Long Beach, CA. November 2-5, 2014.
- 54) Holman, J., D. H. Min, S. Maxwell, and Tom Roberts. 2014. Developing Rainfed Annual Forage Rotations. ASA Annual meeting. Long Beach, CA. November 2-5, 2014.
- 55) 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. Long Beach, CA. November 2-5, 2014.
- 56) Min, D. H., and V. Prasad. 2014. Switchgrass Genotype Study as a Bioenergy Crop in Kansas, USA. RCN Conference on Pan American Biofuels and Bioenergy Sustainability. Recife, Brazil. August 21-25, 2014.
- 57) Min, D. H. 2014. Roles of Forages and Grassland Ecosystems in the 21<sup>st</sup> Century. 2014 Sino-US Forage Technology & Product Conference. Beijing, China. August 9-15, 2014. (as a guest speaker).
- 58) Min, D. H., C. Kapp, K. Cassida and J. Holman. 2013. Switchgrass Performance as a Bioenergy Crop. ASA Annual meeting in Tampa, FL. November 3-6, 2013.
- 59) Casler, M.D., K.A. Cassida, D. H. Min, and K.P. Vogel. 2013. Evaluating perennial grass cultivars for their use as biomass energy crops in upper Michigan. NCCC-31. Ecophysiological Aspects of Forage Management. Lexington, KY. 4-6 June 2013.

- 60) Holman, J., M. Stamm, T. Roberts, S. Maxwell, and D. H. Min. 2013. Companion Cropping and Fall Grazing of Winter Canola. ASA Annual meeting in Tampa, FL. November 3-6, 2013.
- 61) Min, D. H. 2012. Foliar Fertilization of Alfalfa. Great Lakes Forage and Grazing Conference. East Lansing, MI. March 7 -8, 2012.
- 62) Casler, M., S. Bittman, D. Undersander, R. Mathison, D. H. Min, J. Robins, J. Cherney, N. Ehlke, R. Leep, G. Shoemaker, C. Teutsch, and W. Coblenz. 2011. Sparse-Flowering Orchardgrass is Stable across Temperate North America. ASA Annual meeting in San Antonio, TX.
- 63) Yatso, K, C. Tarasoff, and D. H. Min. 2011. Effect of Increasing Weed Competition on Switchgrass Biomass Allocation. North Central Weed Science Society of America. Milwaukee, WI.
- 64) Min, D. H. and C. J. Kapp. 2009. Switchgrass Nitrogen Fertility Study as a Bio-Energy Crop. Poster Presentation. American Forage and Grassland Council Annual Meeting Grand Rapids, Michigan, June 21-23, 2009. Dietz, T., R. H. Leep, and D. H. Min. 2008. Evaluation of *Medicago sativa* spp. *falcata* for Sustainable Hay Production Systems in Michigan. Louisville, Kentucky, Jan 24-27, 2008.
- 65) Mathison, R. D., D. H. Min, P. R. Peterson, C. C. Sheaffer, N. J. Ehlke, and C. J. Kapp. 2006. Perennial Ryegrass and Festulolium Responses to Defoliation Frequency in the Upper North Central USA. Poster Presentation. American Forage and Grassland Council Annual Meeting. San Antonio, Texas, March 10–14, 2006.
- 66) Leep, R. H., D. H. Min, T. R. Dietz, C. J. Kapp. 2006. Response of Cool Season Perennial Grasses to Increasing Nitrogen Rates in Michigan. Poster Presentation. American Forage and Grassland Council Annual Meeting. San Antonio, Texas, March 10 – 14, 2006.
- 67) Min, D. H., C. J. Kapp, and R. H. Leep. 2005. Effects of Annual Forage Crops and Growth Stages on Dry Matter Yield and Silage Quality in the Upper Peninsula of Michigan. Poster Presentation. American Society of Agronomy Annual Meeting. Salt Lake City, Utah, November 6-10, 2005.
- 68) Leep, R., Boring, T., and D. H. Min. 2005. Integration of Potato Production, Dairy Forage and Manure Management Systems. Poster Presentation. American Society of Agronomy Annual Meeting. Salt Lake City, Utah, November 6-10, 2005.
- 69) Jeranyama, P., R. Leep, T. Dietz, and D. H. Min. 2005. Sward Composition, Forage Yield, and Grazing Effects in Kura Clover and Grass Mixtures. In Proceedings of 20<sup>th</sup> International Grassland Congress, Dublin, Northern Ireland. June 25-July 2, 2005.
- 70) Min, D. H., J. D. DeYoung, and R. Leep. 2005. Soil Carbon Sequestration Under Three Years of No-Till Forage Cropping Systems. In Proceedings of 20<sup>th</sup> International Grassland Congress, Dublin, Northern Ireland. June 25-July 2, 2005.
- 71) R. H. Leep and D. H. Min. 2005. A Forage Area of Expertise Team: The Michigan Approach to Applied Research and Extension. In Proceedings of 20<sup>th</sup> International Grassland Congress, Dublin, Northern Ireland. June 25-July 2, 2005.
- 72) DeYoung, J. D., D. H. Min, and R. H. Leep. 2005. Dairy Forage Cropping Best Management Practices; A Comparison of Soil Carbon Sequestration and Greenhouse Gas Fluxes. USDA Symposium on Greenhouse Gases and Carbon Sequestration in Agriculture and Forestry. Baltimore, Maryland. March 21-24, 2005.
- 73) DeYoung, J. D., D. H. Min, and R. H. Leep. 2004. Soil Carbon Sequestration and Production of Greenhouse Gases under Forage Cropping Rotations. Poster Presentation. American Society of Agronomy Annual Meeting. Seattle, Washington, October 31 – November 4, 2004.
- 74) Fronning, B. E., K. D. Thelen, and D. H. Min. 2004. Effect of Cover Crops, Manure, and Compost Amendments on Carbon Sequestration. Poster Presentation. American Society of Agronomy Annual Meeting. Seattle, Washington, October 31 – November 4, 2004.
- 75) Jeranyama, P, R. H. Leep, T. Dietz, and D. H. Min. 2004. Forage Mass, Quality and Composition of Kura Clover and Grass Mixtures under Grazing. Oral Presentation. American Society of Agronomy Annual Meeting. Seattle, Washington, October 31 – November 4, 2004.

- 76) Boring, T., R. H. Leep, D. H. Min, and T. Dietz. 2004. Effect of Liquid Dairy Manure upon Dry Matter Yield and Quality of Forage and Potatoes in a Potato Rotation. Poster Presentation. American Society of Agronomy Annual Meeting. Seattle, Washington, October 31 – November 4, 2004.
- 77) Min, D. H., C. Kapp, R. Leep, and L. Vough. 2004. Legume-Grass Mixtures for Pasture and Hay Production in the Upper Peninsula of Michigan. Poster Presentation. American Forage and Grassland Council Annual Meeting. Roanoke, Virginia, June 12 – 16, 2004.
- 78) Boring, T., R. H. Leep, and D. H. Min. 2004. Effects of Potato Rotations using Forages and Liquid Dairy Manure on Forage and Potato production. Poster Presentation. American Forage and Grassland Council Annual Meeting. Roanoke, Virginia, June 12 – 16, 2004.
- 79) Min, D. H., J. DeYoung, R. H. Leep, and T. Dietz. 2003. Using Compost and Manure as Inputs to Increase Carbon Sequestration under Forage Crop Best Management Practices. Poster Presentation. American Society of Agronomy Annual Meeting. Denver, Colorado, November 2 – 6, 2003.
- 80) Fronning, B. E., K. D. Thelen, and D. H. Min. 2003. Soybean and Silage Corn Cropping System Effects on Carbon Sequestration. Poster Presentation. American Society of Agronomy Annual Meeting. Denver, Colorado, November 2 – 6, 2003.
- 81) Warnock, D. L., R.H. Leep, S. S. Bughrara, D. H. Min, and T. S. Dietz. 2003. Determining Performance of Diploid and Tetraploid Perennial Ryegrasses as Monocultures and Cocultures with Ladino White Clover. Poster Presentation. American Society of Agronomy Annual Meeting. Denver, Colorado, November 2 – 6, 2003.
- 82) Min, D. H., H. Bucholtz, P. Naasz, and R. Leep. 2003. Effects of Alfalfa and BMR Corn Silage and Level of Forage Neutral Detergent Fiber on Dry Matter Intake and Milk Production by Lactating Cows in Michigan. Poster Presentation. American Forage and Grassland Council Annual Meeting. Lafayette, Louisiana, April 19-23, 2003.
- 83) Hudson, D. J., Leep, R. H. and D. H. Min. 2003. Weed Control Strategies for Establishment of Big Bluestem and Switchgrass. Poster Presentation. American Forage and Grassland Council Annual Meeting. Lafayette, Louisiana, April 19-23, 2003.
- 84) Leep, R. H., D. H. Min, D. Pennington, and J. DeYoung. 2002. Economics of Site-Specific Management versus Whole-Field management of Soil Fertility Aspects in Alfalfa. Part B. Projected Field Wide Economics for Site-Specific versus Whole-Field Management of Soil Fertility in Alfalfa. Poster Presentation. American Forage and Grassland Council Annual Meeting. Bloomington, Minnesota, July 14-17, 2002.
- 85) Leep, R., P. Jeranyama, D. H. Min, T. Dietz, and J. DeYoung. 2002. A Review of Kura Clover Establishment Strategies in Michigan. Great Lakes International Grazing Conference 2002, Battle Creek, MI. Feb. 11-12, 2002.
- 86) Al-Ghumaiz, N., R. Leep, D. H. Min, and H. Bucholtz. 2002. AM vs. PM Harvest Effects on Sugar Contents and Silage Quality of Alfalfa. Annual Agronomy meeting. Agronomy abstracts. p. 287. November 14-18, 2002, Indianapolis, Indiana.
- 87) Min, D. H., K. R. Islam, L. R. Vough, R. R. Weil, and R. H. Leep. 2001. Long-Term Effects of Dairy Slurry Application on Soil Quality under Alfalfa and Orchardgrass. Poster presentation. Annual ASA (American Society of Agronomy) meeting. Agronomy abstracts. p. 349. October 21-25, 2001, Charlotte, North Carolina.
- 88) Leep, R. H., P. Jeranyama, D. H. Min, and T. Dietz. 2001. Assessment of Kura Clover Establishment Methods. Oral presentation. Annual ASA meeting. Agronomy abstracts. p. 287. October 21-25, 2001, Charlotte, North Carolina.
- 89) Min, D. H., L. R. Vough, R. H. Leep. 2001. Potential of Organically Grown Forage Crop Production Utilizing Dairy Manure. Michigan Organic Agriculture Symposium. Poster presentation. March 18 - 19, 2001. Kellogg Center, East Lansing, Michigan.
- 90) Jeranyama, P., R. H. Leep, T. Dietz, and D. H. Min. 2001. Rotational Grazing of Kura Clover-Cool Season Grass Mixtures. Poster presentation. Annual ASA (American Society of Agronomy) meeting. Agronomy abstracts. p. 241. October 21-25, 2001, Charlotte, North Carolina.

## Extension Publications

### 1) K-State Agronomy eUpdates

- Lollato, R., and D. H. Min. 2023. Fall Planting Tips of Alfalfa. August, 2023 (updated).
- Min, D. H., D. Shoup, and R. Lollato. 2023. Planting spring oats and turnips in the fall for forage. August 2023.
- Lollato, R., and D. H. Min. 2022. Fall Planting Tips of Alfalfa. August, 2022 (updated).
- Min, D. H., D. Shoup, and R. Lollato. 2022. Planting spring oats and turnips in the fall for forage. August 2022.
- Min, D. H., D. Shoup, and R. Lollato. 2021. Planting spring oats and turnips in the fall for forage. August 2021.
- Dorivar, D. and D. H. Min. 2020. Soil fertility on pasture. October 2020.
- Duncan, S. and D. H. Min. 2018. Fall planting smooth brome grass pastures. August 2018
- Lollato, R., D. H. Min, and D. Shoup. 2018. Small grain forage options for fall. August 2018.
- Lollato, R., and D. H. Min. 2016. Fall Planting Tips of Alfalfa. August 15, 2016 (updated).
- Lollato, R., and D. H. Min. 2015. Fall Planting Tips of Alfalfa. August 14, 2015, August 15, 2016, and August 25, 2017 (updated).
- Min, D. H., D. Presley, K. Roozeboom, and D. Shoup. 2014. Planting Oats and Turnips to Extend the Grazing Season. August 29, 2014.
- **Min, D. H.** and J. Holman. 2014. Forage Soybeans as an Alternative Forage Crop. March 19, 2014.
- **Min, D. H.** and J. Holman. Cool-Season Forage Seeding Rates and Adaptation Characteristics. March 12, 2014.
- **Min, D. H.**, and J. Holman. 2013. Why Testing Forages? December 13, 2013.
- **Min, D. H.**, and J. Holman. 2013. Tips to Minimize Storage Loss of Large Round Bales. November 8, 2013.
- **Min, D. H.**, J. Holman, D. J. Waggoner. 2013. Managing Prussic Acid Poisoning in Forage Sorghums. September 27, 2013.
- **Min, D. H.**, D. Mengel, and D. Diaz. 2013. Soil Testing on Hay Fields and Pasture in the Fall. September 13, 2013.
- **Min, D. H.**, and S. Zukoff. 2013. Insects Common in Alfalfa in Late Summer to Early Fall in Southwest Kansas. September 13, 2013.
- **Min, D. H.**, J. Holman, D. Shoup, D. Diaz. 2013. Fall Horse Pasture Management. September 13, 2013.
- **Min, D. H.**, J. Holman, D. Shoup. 2013. Planting Oats and Turnips to Extend the Grazing Season. August 30, 2013.
- **Min, D. H.**, J. Holman, D. Shoup. 2013. Planting Winter Triticale for Fall Grazing in Kansas. August 16, 2013.
- **Min, D. H.**, J. Holman, S. Zukoff. 2013. Low Alfalfa Yield from First Cutting Caused by Late Frost, Insects, and Spring Drought. June 14, 2013.
- Holman, J., **D. H. Min**, E. Wolfe. 2013. Drought Stress, Late Effects of Freeze Damage, and Premature Leaf Death in Wheat. June 7, 2013.

### 2) Extension Publications from Michigan State University

- **Min, D. H.** 2013. Michigan Forage Variety Testing. Michigan Farm Bureau News.
- **Min, D. H.** 2013. Forage Brassicas as an Emergency Crop. MSU Extension News for Agriculture.
- **Min, D. H.** 2012. Oilseed Radish to Extend the Grazing Season. MSU Extension News for Agriculture.
- **Min, D. H.** 2012. Fall Management Tips for Drought-Stressed Hay Fields. MSU Extension News for Agriculture
- **Min, D. H.** 2012. Spring Oats Variety Testing. MSU Extension Field Crop On-Farm Report.
- **Min, D. H.** 2012. Spring Barley Variety Testing. MSU Extension Field Crop On-Farm Report.

- **Min, D. H.** 2012. Forage Soybean as an Alternative Forage Crop. MSU Extension News for Agriculture.
- **Min, D. H.** 2012. Managing Spring Forage Profitably. Hay & Forage Grower Magazine.
- **Min, D. H.** 2012. Tips for Spring Forage Management. MSU Extension News for Agriculture.
- **Min, D. H.,** T. Dietz, C. Kapp, and R. Leep. 2012. Forage Variety Testing Results in Michigan. Michigan Farm Bureau News.
- Dietz, T., D. H. Min, A. Thomas, W. Everman, J. Kells and R. Leep. Effect of Harvest Frequency and Weed Management on Established Roundup-Ready Alfalfa Yield, Quality, and Stand Longevity. 2011. Michigan State University Extension Bulletin.
- **Min, D. H.** 2011. Hay and Pasture Management after the Drought. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Large Round Bale Storage. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Planting Methods for Successful Alfalfa Establishment. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Difference between Red Clover and Alsike Clover. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Reed Canarygrass Planting Guide for Bio-Energy Crop and Forages. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Roundup-Ready Alfalfa is Approved. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Switchgrass for a Bio-Energy Crop and Livestock Feed. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Upper Peninsula Crop Research and Demonstration Report. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Fall Horse Pasture Management. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Forage Brassicas for Livestock and Food Plot. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Factors Considered to Buy High Quality Forage Seed. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Carbon Sequestration Potential of Switchgrass as a Bio-Energy Crop. MSU Extension News for Agriculture.
- **Min, D. H.** 2011. Upper Peninsula Crop Research and Demonstration Report. MSU Extension News for Agriculture.
- **Min, D. H.** and R. Leep. 2010. Spreading Manure on Alfalfa. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2010. Forage Yield and Soil Carbon Change in No-Till vs. Conventional Tillage. UP Ag Connections.
- **Min, D. H.** 2010. Heavy Rain Damage on Forages. UP Ag Connections.
- **Min, D. H.** 2010. Fall is a Good Time to Soil Test. UP Ag Connections.
- **Min, D. H.** 2010. Horse Pasture Weed Control for Fall. UP Ag Connections.
- **Leep, R.** and **D. H. Min.** 2010. Options for late Summer Pasture Weeds. Hay and Grazier. Michigan Forage Council.
- **Leep, R.** and **D. H. Min.** 2010. Managing for Potato Leafhoppers in Alfalfa. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2009. Methods of Alfalfa Stand Assessment. UP Ag Connections.
- **Leep, R.** and **D. H. Min.** 2009. Should I Harvest the Last Cutting? Hay and Grazier. Michigan Forage Council.
- **Leep, R.** and **D. H. Min.** 2009. Fall Grazing Alfalfa. Hay and Grazier. Michigan Forage Council.
- **Leep, R.** and **D. H. Min.** 2009. Soil Test Now for Next Year's Planting. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2009. Soil Test on Hay Field and Pasture. UP Ag Connections.
- **Leep, R.** and **D. H. Min.** 2009. Damage Caused from Frozen Forage Crops. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2009. Forage Brassicas for Fall Grazing. UP Ag Connections.

- **Min, D. H.** 2009. Importance of First Harvest Alfalfa. UP Ag Connections.
- **Min, D. H.** and C. J. Kapp. 2009. Switchgrass Biomass Yield and BTU (British Thermal Unit) Value for a Bioenergy Crop. UP Ag Connections.
- Leep, R. and **D. H. Min.** 2009. Dealing with Winter Injury in Alfalfa Fields. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Begin Watching for Alfalfa Weevils. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2009. Methods of Alfalfa Stand Assessment. UP Ag Connections.
- Leep, R. and D. H. Min. 2009. Soil Test Now for Next Year's Planting. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2009. Soil Test on Hay Field and Pasture. UP Ag Connections.
- Leep, R. and D. H. Min. 2009. Should I Harvest the Last Cutting? Hay and Grazier. Michigan Forage Council.
- Leep, R. and D. H. Min. 2009. Fall Grazing Alfalfa. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Damage Caused from Frozen Forage Crops. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2009. Forage Brassicas for Fall Grazing. UP Ag Connections.
- **Min, D. H.** 2009. Importance of First Harvest Alfalfa. UP Ag Connections.
- **Min, D. H.** and C. J. Kapp. 2009. Switchgrass Biomass Yield and BTU (British Thermal Unit) Value for a Bioenergy Crop. UP Ag Connections.
- Leep, R. and **D. H. Min.** 2009. Dealing with Winter Injury in Alfalfa Fields. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Begin Watching for Alfalfa Weevils. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Prepare Now to Beat the Summer Slump. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Dealing with Winter Injury in Alfalfa Fields. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Begin Watching for Alfalfa Weevils. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Prepare Now to Beat the Summer Slump. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2009. Comments about Teff. Hay and Grazier. Michigan Forage Council.
- **Min, D. H.** 2008. Annual Forages for Emergency or Supplemental Crop. UP Ag Connections.
- **Min, D. H.** and R. Leep. 2008. Forage Legumes as Nitrogen Sink and Source. Michigan Dairy Review.
- **Min, D. H.** and Richard Leep. 2008. What Causes Alfalfa Winterkill? Hoard's Dairyman. The National Dairy Farm Magazine.
- Leep, R. and **D. H. Min.** 2008. Topdressing Potassium Fertilizer on Alfalfa. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min.** 2008. Overseeding Thin Alfalfa Stands for Increased Forage Yield. Hay and Grazier. Michigan Forage Council.
- Leep, R. and **D. H. Min,** J. Rook. 2007. Managed Intensive Grazing. In Ecologically Based Farming Systems. Michigan State University Extension Bulletin E-2983.
- Leep, R. and **D. H. Min.** 2007. Topdressing Potassium Fertilizer on Alfalfa. Hay and Grazier. Michigan Forage Council.
- Natalie Scott. 2007. Switchgrass in the Upper Peninsula: from marginal land to a profit margin. Min's switchgrass research and demonstration work was introduced. Project

- **Min, D. H.** and R. Leep. 2007. Nitrate Toxicity in Drought Stressed Forages. Michigan Dairy Review.
- **Min, D. H.** and R. Leep. 2007. What Causes Winterkill of Alfalfa and What Options Are Available for Winterkilled Alfalfa. Michigan Dairy Review.
- **Min, D. H.,** B. Bartlett, and C. Kapp. 2006. Extending Grazing Season using Forage Turnip and Rape in the Upper Peninsula of Michigan. Hay and Grazier. Michigan Forage Council.
- Min, D. H. 2006. Steps for Successful Frost Seeding in Pastures. UP Ag Connections.
- Min, D. H. and C. Kapp. 2006. Forage and Small Grains Performance Trials in the UP Region. UP Ag Connections.
- Kapp, C., K. Dysinger, **D. H. Min.** 2006. Corn Silage Variety Trial in the UP region. UP Ag Connections.
- Leep, R., T. Dietz, **D. H. Min,** and C. Kapp. 2006. Forage Varieties for Michigan in 2006. Michigan State University Extension.
- **Min, D. H.** 2005. Why Is It Important to Include Forage Legumes in Hay and Pasture? UP Ag Connections.
- **Min, D. H.** and R. Leep. 2005. How Can We Reduce the Risk of Alfalfa Winterkill? Michigan Dairy Review.
- **Min, D. H.** 2005. Maximizing Profits from Dairy Manure Application. *In Forage Leader.* American Forage and Grassland Council.
- Leep, R. and **D. H. Min.** 2005. Should I Harvest a Late Cutting This Year? Michigan Hay and Grazing Council.
- **Min, D. H.** 2005. Nitrate Toxicity of Forages During Drought. UP Ag Connections.
- Leep, R., and **D. H. Min** 2005. Nitrogen Fertility Management for Pastures. *In Forage Leader.* The Periodical of American Forage and Grassland Council.
- **Min, D. H.** 2005. Tips for Spring Forage Management. Michigan Dairy Review.
- **Min, D. H.** 2004. Annual Forage Crops for Pasture and Hay in the Upper Peninsula of Michigan. UP Ag Connections.
- **Min, D. H.** 2004. Why is It Important to Look at the NDFD (neutral detergent fiber digestibility) in Dairy Nutrition? UP Ag Connections.
- **Min, D. H.** 2004. Carbon Sequestration, What Is It In Dairy-Forage Systems? Michigan Dairy Review.
- Leep, R., J. Andresen, **D. H. Min,** and A. Pollyea. 2004. Late Summer and Fall Cutting Management of Alfalfa. Michigan Dairy Review.
- **Min, D. H.** 2004. Biology and Control of Leafy Spurge in Hay and Pasture. UP Ag Connections.
- **Min, D. H.** 2004. Fall Fertility Management for Hay and Pasture. UP Ag Connections.
- **Min, D. H.** 2004. Legume-Grass Mixtures for Pasture and Hay Production in the Upper Peninsula of Michigan. UP Ag Connections.
- Leep, P, D. Undersander, P. Peterson, **D. H. Min,** T. Harrigan, and J. Grigar. 2003. Steps to Successful No-Till Establishment of Forages. Extension Bulletin E-2880. Michigan State University Extension.
- **Min, D. H.** 2003. Forage Brassica Grazing Trial Using Lambs in the Central Upper Michigan. UP Ag Connections.
- **Min, D. H.** 2003. Carbon Sequestration, What Is It in Agriculture? U.P Ag Connections
- **Min, D. H.** 2003. Herbage Yield and Forage Quality of Legume-Grass Mixtures in the Upper Peninsula Region. U.P Ag Connections
- **Min, D. H.** 2003. Forage Brassica Trial; Planting Dates and Variety Effects on Forage Yield and Quality. On-Farm Research and Demonstration. Michigan State University Extension and Michigan Agricultural Experiment Station.
- **Min, D. H.** 2003. Spring Canola Variety Trial. On-Farm Research and Demonstration. Michigan State University Extension and Michigan Agricultural Experiment Station.
- Leep, R., D. Dietz, and **D. H. Min.** 2002. Perennial Legume and Grass Forage Variety Selection for Michigan. Extension Bulletin E-2787, Michigan State University Extension.
- **Min, D. H.** 2002. The Potential of Kura Clover as a Forage Crop in the U.P. Region. U.P Ag Connections.



- **Min, D. H.** 2002. Fall Manure Management Strategies in Dairy-Forage Systems. U.P Ag Connections.
- **Min, D. H.** 2002. Soil Sampling as a Key Basis for Nutrient Management. U.P Ag Connections.
- Leep, R. H., P. Jeranyama, **D. H. Min**, T. S. Dietz, and J. DeYoung. 2002. A Review of Kura Clover Establishment Strategies in Michigan. Beef Cattle, Sheep and Forage Systems. Research Report 581. Pp.11-20.
- **Min, D. H.** 2001. New Approach, Canola Hay (Canolage) in U.P Region. U.P Ag Connections.
- R. H. Leep, J. DeYoung, and **D. H. Min**. 2001. Coated alfalfa seed, is it worth it? Michigan Hay and Grazier. Michigan State University, East Lansing, Michigan, USA.
- **Min, D. H.** 2001. Manure Nutrient Management in Alfalfa. Michigan Hay and Grazing Council.

### **Extension and Outreach Presentations**

- Exploring alternative forage crops for Indian farmers, National Dairy Research Institute, Karnal, India. July 5-9, 2023.
- Exploring alternative forage crops for Nepalese farmers, National Agricultural Research Council, Kathmandu, Nepal. July 10-12, 2023
- K-State Forage Research/Teaching Program. AgriFutures Grow<sup>AG</sup>. Australian Innovation Immersion Tour to the USA. June 30, 2023. Sponsored by K-State Innovation Center.
- USAID SIIL (Sustainable Intensification Innovation Lab) Senegal Project Updates. University of Thies in Senegal. March 14, 2023.
- Sustainable Intensification and Diversification in Forage-Livestock Systems. AAAP (Asian- Australasian Animal Production) Conference. South Korea. August 15-18, 2022.
- Challenges and Opportunities in USAID Projects in Senegal and Ethiopia. Korea Institute for International Economic Policy. South Korea. August 18, 2022.
- Sustainable Forage and Grassland Ecosystems in the USA. Korea Livestock Research Institute. South Korea. August 11, 2022.
- Impacts of Agriculture on Food Security in Asia and Africa, K-State Business School, February 4, 2021.
- Sustainable Intensification Innovation Laboratory Projects in Senegal and Forage Research in Kansas, USA. Institut de Recherche pour le Développement (IRD) by the French government, Dakar, Senegal. July 18, 2019.
- Roles of Agriculture in Global Food and Nutrition Security. 2019. Kyungsang National University, South Korea. May 29, 2019.
- Alfalfa Production in Kansas. Chinese Agriculture Delegate at the Kansas Department of Agriculture, Manhattan, KS. May, 2015.
- Alfalfa Management. Alfalfa Field Tour. Mid-West Forage Council. Larned, KS. September, 2014.
- Forage Sorghum Production and Management. Sorghum School. Scott City, February, 2014.
- Alfalfa Cutting Management. Crop Management School. Garden City. February, 2014.
- Weeds and Soil Fertility in Wheat and Canola. Wheat and Canola School. Kingman County. February, 2014.
- Nutrient Deficiency Symptoms in Corn, Sorghum, Soybean, Wheat, and Alfalfa. Crop Scouting School. Gray County. January, 2014.
- Triticale, Teff, Sorghum-Sudangrass Production and Management for Sheep. Sheep Grazing School. Jetmore, January, 2014.

- **Min, D. H.** 2013. Comparisons of Weed Control Options in Teff, Forage Sorghum, and Sorghum-Sudangrass for Catch Crop Forage. K-State Southwest Research-Extension Center Field Day, August 29, 2013.
- **Min, D. H.** and R. Currie. 2013. Comparisons of Herbicide Carryover in Teff, Forage Sorghum, and Sorghum-Sudangrass for Catch Crop Forage. K-State Southwest Research-Extension Center Field Day, August 29, 2013.
- **Min, D. H.** 2013. Basics of Hay Production. Beginning Farmers Webinar Series.
- **Min, D. H.** 2013. Potential Cover Crops in the Upper Peninsula of Michigan. Stephenson, Escanaba, Pickford, Bruce Crossing, MI.
- **Min, D. H.** 2012. High Quality Silage Making for Alfalfa and Corn. Agriculture for Tomorrow Conference. Escanaba, MI.
- **Min, D. H.** 2012. Forage Growth and Development. Winter Forage Crop Educational Programs. Stephenson, Escanaba, Pickford, Bruce Crossing, MI.
- **Min, D. H.** 2012. Factors Affecting Forage Quality. Winter Forage Crop Educational Programs. Stephenson, Escanaba, Pickford, Bruce Crossing, MI.
- **Min, D. H.** 2011. Three-Year Summary of Switchgrass as a Bio-Energy Crop in the UP Region. Upper Peninsula Research Center Field Day. Chatham, MI.
- **Min, D. H.** 2011. Secondary and Micronutrients in Forage Crops. Winter Field Crop Programs. Chatham, Escanaba, Pickford, Bruce Crossing, MI.
- **Min, D. H.** 2011. Soil Testing and Manure Analysis in Forage-Based Cropping Systems. Winter Forage Educational Programs. Pickford, Escanaba, Bruce Crossing, Crystal Falls, Stephenson, MI.
- **Min, D. H.** 2011. Pasture Establishment and Management. Agriculture for Tomorrow Conference. Escanaba, MI.
- **Min, D. H.** 2010. Annual Forage Cropping Systems in the Upper Peninsula of Michigan. Agriculture for Tomorrow Conference. Escanaba, MI.
- **Min, D. H.** 2010. Integrated Forage Systems in the 21<sup>st</sup> Century. Dong-Kuk University and Chung-Ang University, South Korea.
- **Min, D. H.** 2010. Agricultural College Education in the USA. Kwangwoon University, South Korea.
- **Min, D. H.** 2010. Switchgrass and Reed Canarygrass for a Bio-Energy Crop. Twilight Walk. Iron Mountain, MI.
- **Min, D. H.** 2010. Reed Canarygrass and Switchgrass as Potential Bio-Energy Crop in the Upper Peninsula of Michigan. Agriculture for Tomorrow Conference. Escanaba, MI.
- **Min, D. H.** 2010. Warm-Season Annuals and Perennials. Mass City, Escanaba, Stephenson, Pickford in MI
- **Min, D. H.** 2009. Bio-Energy Crops in the Upper Peninsula of Michigan. 4-H National Youth Science Day, Chatham, MI
- **Min, D. H.** 2009. Switchgrass Twilight Walk. Iron Mountain, MI
- **Min, D. H.** 2009. Carbon Sequestration in Forage-Based System and Developing Bio-Energy Crop in the USA. Kangwon National University, South Korea.
- **Min, D. H.** 2009. MSU Bio-Energy Crop Research and Future. “Farm to Fuel” Switchgrass Conference. Iron Mountain, MI
- **Min, D. H.** 2009. Bio-Energy Crop Research Update. Mass City, Escanaba, Stephenson, Pickford in MI
- **Min, D. H.** 2008. Switchgrass for a Bio-Energy Crop. Kangwon National University, South Korea.
- **Min, D. H.** 2008. Bio-Energy Research in the USA. Kyungsang National University, South Korea
- **Min, D. H.** 2008. Switchgrass Twilight Walk. Kingsford, MI
- **Min, D. H.** 2008. Switchgrass for a Bioenergy Crop. Panel Discussion. Bay West College, Iron Mountain, MI
- **Min, D. H.** 2008. Switchgrass Research Update for a Bioenergy Crop and Livestock Feed. MSU’s Upper Peninsula Experiment Station Field

Day, Chatham, MI

- **Min, D. H.** 2008. Forage Species Selection and Horse Pasture Management. Horse College Program, Marquette, MI
- **Min, D. H.** 2008. Alfalfa Stand Establishment. Escanaba, MI
- **Min, D. H.** 2008. Warm-Season Grasses as an Emergency Crop. Mass City, Iron River, Stephenson, Pickford in MI
- **Min, D. H.** 2007. Twilight Switchgrass Walk for Bioenergy Crop. Bark River, MI
- **Min, D. H.** 2007. Interpreting Soil and Manure Analysis. Michigan Groundwater Stewardship
- **Min, D. H.** 2007. High Sugar Grass Pasture Walk at the MSU's Upper Peninsula Experiment Station, Chatham
- **Min, D. H.** 2007. What Causes Winterkill of Alfalfa. Alfalfa Technology Conference in East Lansing
- **Min, D. H.** 2007. Forage Identification. Winter Forage Educational Meetings (4 locations). Pickford, Mass City, Escanaba, and Stephenson in MI
- **Min, D. H.** 2006. Integrated Grassland Ecosystems – Productivity, Profitability, and Quality of Life. Guest speaker at the IXth Asian-Australasian Animal Science Conference. Busan, South Korea
- **Min, D. H.** 2006. Horse Pasture Meeting in Norway and Manistique, MI
- **Min, D. H.** 2006. Switchgrass as a Potential Bio-Energy crop in the UP. Upper Peninsula Experiment Station Field Day, Chatham, MI
- **Min, D. H.** 2006. Pasture Improvement and Renovation. UP Experiment Station Field Day, Chatham, MI
- **Min, D. H.** 2006. Pasture Improvement and Renovation for Dollars and Sense. Winter Forage-Beef Meetings (3 locations). Pickford, Escanaba, and Bruce Crossing, MI
- **Min, D. H.** 2006. Ways to Improve Forage Quality for Dollars and Sense. Winter Forage-Dairy Meetings (4 locations). Pickford, Escanaba, Mass City, and Stephenson, MI
- **Min, D. H.** 2006. Establishing Red Clover for Wildlife Food Plot. Ruffed Grouse Society, MI
- **Min, D. H.** 2006. New Recommendations on Late Summer and Fall Cutting of Alfalfa in Michigan. MSU Agriculture and Natural Resources Week, East Lansing, MI
- **Min, D. H.** 2005. Forage Species Selection Strategy and Horse Pasture Management, Escanaba and Skandia, MI. Horse Pasture Meeting.
- **Min, D. H.** 2005. Pasture Improvement and Renovation. Northern Michigan Grazing Workshop, Wolverine, MI.
- **Min, D. H.** 2005. Forage Species/Varieties Selection for Beef and Dairy. Pasture Design In-Service Training, East Lansing, MI.
- **Min, D. H.** 2005. Forage/Pasture Programs in the Upper Peninsula of MI. Border Crossing Education Exchange Conference between MI and WI, Florence, WI.
- **Min, D. H.** 2005. Forage Crop Selection Strategies for Various Soil Types. Forages for Wildlife Food Plots Workshop, East Lansing, MI.
- **Min, D. H.** 2005. Forages and Grasslands in the USA. Programs for Under- and Graduate Students and Extension for Farmers. Korean Society of Grassland Science Annual Meeting, Seoul, South Korea.
- **Min, D. H.** 2005. Carbon Sequestration and Greenhouse Gases Mitigation in Forage/Grassland Systems in the USA. Korean Society of Grassland Science Annual Meeting, Seoul, South Korea.
- **Min, D. H.** 2005. Warm-Season Grass for Bio-Energy Crop. Biomass Workshop in Escanaba, MI.
- **Min, D. H.** 2005. Cool-Season Grasses Growth and Development. Michigan Grazing Conference, Mt. Pleasant, MI.
- **Min, D. H.** 2005. Carbon Sequestration and Greenhouse Gases Mitigation in Forage and Grassland Systems. Michigan Hay and Grazing Council Annual Meeting, St. Johns, MI
- **Min, D. H.** 2005. Cool-Season Grasses Establishment for Horse Pasture. Winter Horse Pasture Management School, Marquette and

Escanaba, MI.

- **Min, D. H.** 2005. Cool-Season Grasses Fertility Management for Horse Pasture. Winter Horse Pasture Management School, Marquette and Escanaba, MI.
- **Min, D. H.** 2004. Cool-Season Perennial Grasses and Legumes for Beef Pasture. Building Skills in Grazing Management. Pickford, MI.
- **Min, D. H.** 2004. MSU Forage/ Pasture Research Updates. Forage-Dairy Programs. Stephenson, Escanaba, Pickford, and Mass City, MI.
- **Min, D. H.** 2004. Factors to Be Considered on Applying Dairy Manure to Alfalfa Fields. Forage Field Day, East Lansing, MI.
- **Min, D. H.** 2004. Warm-Season Grasses as a Potential Bio-Energy Crop in the Upper Peninsula of Michigan. Bio-Energy Ad Hoc Committee Meeting, Escanaba, MI.
- **Min, D. H.** 2003. Forage Fertilization and Nutrient Management. Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI.
- **Min, D. H.** 2003. Carbon Sequestration in Forage Cropping Systems. Michigan State University Upper Peninsula Experiment Station Field Day, Chatham, MI.
- **Min, D. H.** 2003. Forage Brassicas (rape, turnip, and kale) as an Alternative Crop to Extend the Grazing Season. Grazing School, Pickford, Michigan.
- **Min, D. H.** 2002. Effects of Manure Application Rates on Herbage Yield, Forage Quality of Alfalfa, and Soil Nitrate Nitrogen and Phosphorus. Michigan State University Upper Peninsula Experiment Station Field Day, Chatham, MI.
- **Min, D. H.** 2002. Nutrient Cycling in Forage Crop Production. Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI.
- **Min, D. H.** 2002. Manure Sampling and Interpreting Analysis. Manure Nutrient Management Program, Stephenson, Michigan.
- **Min, D. H.** 2002. Carbon Sequestration and Mitigation of the Greenhouse Gases in Pasture Systems. Advanced Grazing School, Chatham, Michigan.
- **Min, D. H.** 2002. What Are the Roles of Forages in Animal Production? K. I. Sawyer Elementary School, Sawyer, MI 49841. Career Week.
- **Min, D. H.** 2001. Nutrient Management in Forage Crop Production. Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI.
- **Min, D. H.** 2001. Integrated Nutrient Management Systems in Forage Crop Production. Korean Society of Grassland Science, Suwon, South Korea.
- **Min, D. H.** 2001. Manure Application to Alfalfa. Michigan Hay and Grazing Council Annual Meeting. St. John's, MI.
- **Min, D. H.** 2001. Utilizing Animal Manures on Forage Crops. Northern Michigan Field Crops Annual Meeting. Escanaba, MI.

#### **Grant Activities (A total of \$16,134,876 funded during a career)**

##### **Competitive Grants Funded (K-State)**

- Jha, G., **D. H. Min**, J. Aguilar, M. Bhandari, Y. Calil, J. Foster. 2023. Drought Resilient Alfalfa Production (D-RAP) Using Digital Agriculture and Machine Learning Techniques. USDA NIFA Alfalfa Seed and Alfalfa Forage Systems. (2023-2026). \$946,348.
- **Min, D. H.** 2022. Global Campus Online Course Development Grant. K-State Global Campus. \$9,000.
- Kurup, S, K. Miyazawa, S. Manickam, G. Corti, S. Cocco, **D.H. Min**, and M. Salim. 2021. Biochar from Date Palm Bio-Waste in Desert Agroecosystems. Soil Reclamation, Sustainability in crop production for Food Security, and Climate Change Mitigation Nexus. (2021-2023). Joint Research Programs between UAE (United Arab Emirates) and Institutions of Asian Universities Alliance (AUA). \$150,000.

- Diatta, A., A. Tine, and **D. H. Min**. 2021. Valorization of Organic Waste through Composting for Sustainable and Profitable Agriculture in Senegal. Senegalese Ministry of Higher Education, Research, and Innovation. \$45,000.
- Obour, A, Z. Stewart, **D. H. Min**, and A. Faye. 2020. Sustainable Intensification of Dual-Purpose Cowpea Varieties for Enhanced Food and Fodder in Senegal. (2020-2023). Legume Systems Research Innovation Lab. USAID Feed the Future. \$400,000.
- **Min, D. H.**, B. Bradford, P. Konokoff, and K. Jagadish. 2019. Establishing the Value of Alfalfa with Highly Digestible Fiber. (2019-2022) USDA NIFA Alfalfa grant (\$500,000)
- Rice, C., Prasanna, G., Ciampitti, I., Ochsner, T, Warren, J., Izaurrealde, R., Diaz, D., **Min, D. H.**, Lollato, R., Prasad, V., Jones, C., Bandaru, V., Santos, E., Sanderson, M., Shuman, C., Patrignani, A., and Northup, B. 2019. Systems Approaches to Increase Water Productivity in Rainfed Food Systems of the Southern Great Plains. (2019-2023). USDA-AFRI-SAS grant (\$10,000,000)
- Vipham, J., B. Bradford, **D. H. Min**, T. O'Quinn, and J. Pendell. 2017. Linking cattle nutrition to human nutrition: A value chain approach to improving the production, handling, and consumption of animal source foods in Ethiopia. (2017-2021). Livestock Systems Innovation Lab. USAID Feed the Future. \$1,000,000.
- **Min, D. H.**, O. Sy, M. Diaw, M. Sall, F. Sarr, M. Dieye, B. Schwab, J. Vipham, and X. Lin. 2016. Sustainable intensification of dual-purpose of millet-leguminous crops-livestock integration for the rural small holder farmers in Senegal (2016-2019). Sustainable Intensification Innovation Lab. USAID through Feed the Future. \$ 1,000,000
- **Min, D. H.**, B. Bradford, J. Harrington, and M. Taylor. 2016. Can teff decrease the water strain in the High Plains? (2015-2016). NSF EPSCoR KBOR Grant and K-State Water Seed Grant. \$80,000
- Islam, A., **D. H. Min**, and J. Brummer. 2016. The silent decline in soil potassium levels and its effect on alfalfa productivity in the central and western US. USDA NIFA Alfalfa Grant. 2016-2019. \$265,000
- **Min, D. H.** 2015. Reduced-Lignin Alfalfa Cutting Management for Yield and Forage Quality. Monsanto and Forage Genetics International. 2015-2017. \$80,000
- **Min, D. H.** Teff as an alternative forage crop during drought stress in Kansas. University Small Research Grant (USRGs) (2014-2015). \$1,000.
- **Min, D. H.** Reduced-lignin alfalfa study for yield and forage quality (multi-state project; WI, CA, MI, OH, KS). Monsanto (2015-2017). \$40,000
- **Min, D. H.**, J. Holman, J. Moyer, and K. Harmony. Teff as an alternative forage crop during drought stress in Kansas. Kansas Center for Sustainable Agriculture and Alternative Crops (2013-2014). \$4,728.
- **Min, D. H.** Evaluation of winter triticale varieties. Ehmke Seed (2013-2014) \$6,200
- **Min, D. H.** Evaluation of winter triticale varieties. Syngenta Seed (2013-2014) \$ 800
- **Min, D. H.** Evaluation of winter triticale varieties. Lima Grain Seed (2013-2014) \$800
- Ciampitti, I., K. Roozeboom, M. Stamm, J. Holman, **D. H. Min**, G. Cramer, I. Kisekka. 2013. Canola as an alternative crop. Ogallala Aquifer Project. \$60,000

#### Grants Funded (Michigan State University)

- **Min, D. H.**, and C. Kapp, Evaluating Forage Brassicas as an Emergency Crop in the UP Region. Project GREEN (Generating Research and Extension to meet Economic and Environmental Needs), Michigan State University Agricultural Experiment Station (PI, 2012-2013) \$1,800

- **Min, D. H.**, and C. Kapp. Native Grass Biomass Study Using Switchgrass, Big Bluestem, and Indian Grass. CEN USA (2012-2017) headquartered at Iowa State University. \$100,000
- **Min, D. H.**, C. Kapp, and P. Naasz. Determining the Best Performing Legume-Grass Mixture for Dairy and Beef in the UP Region. Project GREEN (Generating Research and Extension to meet Economic and Environmental Needs), Michigan State University Agricultural Experiment Station (PI, 2012-2013) \$1,800
- Kapp, C, **D. H. Min**, and Y. Jin. Wheat Stem-Rust Nursery Trial. (2011-2012) USDA sub-contract. \$10,000
- **Min, D. H.**, R. Leep, K. Steinke, and C. Kapp, and Evaluation of Binary Mixtures of Alfalfa and Grass and Their Responses to Supplemental Nitrogen Fertilization. Project GREEN (Generating Research and Extension to meet Economic and Environmental Needs), Michigan State University Agricultural Experiment Station (PI, 2011-2013) \$53,400
- Culman, S., S. Snapp, **D. H. Min**, T. Dietz. A New Crop for a Variable Climate: Intermediate Wheatgrass Biology and Forage Potential. Project GREEN, Michigan State University Agricultural Experiment Station (Co-PI, 2011-2013) \$64,000
- Yanni, S., **D. H. Min**, G. Zimmerman. Bay Mills Grass-Based Fuel Research. USDA NIFA Multicultural Alliances 1994 Tribal Colleges Research Grants Program (Co-PI, 2011-2014). \$200,000
- **Min, D. H.**, J. Isleib, and C. Kapp. Reed Canarygrass as a Bio-Energy Crop in the UP Region. Project GREEN, Michigan State University Agricultural Experiment Station (PI, 2010-2011) \$10,000
- Doyle, M., **D. H. Min**, M. Casler. Small-Scale Pelletization of Switchgrass for Bioenergy. USDA Native-American Economic Development Grant (Co-PI, 2007-2009). \$150,000
- **Min, D. H.**, J. Isleib, C. Kapp, and P. Naasz. Pasture Renovation Using Improved Forage Species and Varieties. Project GREEN, Michigan State University Agricultural Experiment Station (PI, 2006-2009) \$17,000
- **Min, D. H.**, J. Isleib, and C. Kapp. Assessing the Effectiveness of Switchgrass as a Bio-Energy Crop in the Upper Peninsula of Michigan. Project GREEN, Michigan State University Agricultural Experiment Station (PI, 2005-2008) \$32,000
- Leep, R., T. Dietz, and **D. H. Min**. Evaluation of (Yellow Blossomed alfalfa) *Medicago sativa* ssp. *Falcata* for Sustainable Hay and Grazing Systems in Michigan. Project GREEN, Michigan State University Agricultural Experiment Station (Co-PI, 2005-2008) \$100,000
- **Min, D. H.**, J. Isleib, C. Kapp, and P. Naasz. Pasture Improvement using Frost Seeding and Improved Cool-Season Perennial Forage Species / Varieties. Project GREEN, Michigan State University Agricultural Experiment Station (PI, 2005-2006) \$4,000
- **Min, D. H.**, J. Isleib, and C. Kapp. Assessing the Warm-Season Grasses on the Marginal Soils as a Bioenergy Crop in the Upper Peninsula of Michigan. Project GREEN, Michigan State University Agricultural Experiment Station (PI, 2005-2006) \$3,800
- **Min, D. H.**, J. Isleib, and C. Kapp. Assessing the Effectiveness of Annual Forage Crops as an Emergency Crop in the Upper Peninsula Region from the Project GREEN, Michigan State University Agricultural Experiment Station (PI, 2004-2006) \$20,368
- Peterson, P.R., **D. H. Min**, C. C. Sheaffer, N. J. Ehlke, and C. J. Kapp. Enhancing Pasture Productivity by Improving Winter Survival of Perennial Ryegrass and Festulolium. USDA North Central Region SARE Research Grant (Co-PI, 2003-2006) \$120,000
- Leep, R., **D. H. Min**, and T. Dietz. Ecological Integration of Soil, Plants and Animals Agricultural Best Management Practices to Increase Carbon Sequestration and Mitigation of Greenhouse Gases in Forage Based Dairy System. Sustainable Agriculture 2002 Special Grant (Co-PI, 2002-2005) \$45,900
- **Min, D. H.**, R. Leep, and J. DeYoung. Agricultural Best Management Practices to Increase Carbon Sequestration and Mitigate the Greenhouse Gases in Forage-Dairy Systems. CASMGs (Consortium for Agricultural Soils Mitigation of Greenhouse Gases) (Co-PI and Co-Advisor in Task Force 2, 2002-2004) \$44,000

- Leep, R., **D. H. Min**, and T. Boring. Linking Potato and Livestock Operations in Michigan for Improved Profit, Product Quality and Resource Efficiency. IFAFS, USDA-ARS (Co-PI and Co-Advisor, 2002-2005) \$45,000
- Leep, R., **D. H. Min**, and D. Warnock. Determining Adaptation of Mono and Binary Mixtures of Improved Red and Ladino Clovers and Perennial Grasses in the Great Lakes Region. USDA North Central Region SARE Grant (Co-PI, 2002-2005) \$45,000
- Thelen, K., B. Fronning, and **D. H. Min**. Carbon Sequestration Dynamics in Corn. Corn Marketing Program of Michigan (Co-PI, 2002-2004) \$10,000
- **Min, D. H.**, B. Bartlett, C. Kapp, and P. Naasz. Assessing the Effectiveness of Forage Brassicas as an Alternative Crop to Extend the Grazing Season in the Upper Peninsula Region, Michigan. Project GREEN, Michigan State University (PI, 2002-2004) \$20,000
- **Min, D. H.**, J. Isleib, and C. Kapp. Legume-Grass Ecology for Maximizing Pasture and Hay Forage Yield and Quality in the Upper Peninsula Region, Michigan. Project GREEN, Michigan State University (PI, 2001-2004) \$5,000

#### **Awards and Recognition:**

- NACTA Educator Award, 2022. North American Colleges and Teachers of Agriculture.
- International Crop Science Award, 2021. Crop Science Society of America.
- Distinguished Research Award by the Kansas Forage and Grassland Council, December, 2021.
- Outstanding Research Paper Award, 2020. Crop Science Society of America (C-6)
- Meritorious Education Award by the Kansas Forage and Grassland Council, December, 2017.
- Honorary Scientist Appointed by the Rural Development Administration (RDA) in South Korea, 2017.
- Distinguished Service Award by the Growing UP Agriculture Association, March 2013.
- Conservation Partner Award by the Dickinson Soil Conservation Society, January 2011.
- Merit Award (Who have made superior contributions in some phase of forage and grassland agriculture) by the American Forage and Grassland Council Annual Meeting in Grand Rapids, June 2009
- Who's Who in Science and Engineering. 8<sup>th</sup> Edition in Marquis Who's Who 2005-2006
- Outstanding Extension Specialist Award by the Michigan State University Extension, October 2004
- Outstanding Young Scientist Award from the American Forage and Grassland Council, Indianapolis, Indiana, 1998.

#### **Courses taught**

- AGRON 325 World Food Crops
- AGRON 435 Forage Bowl Competition
- AGRON 550 Forage Management and Utilization (in-person)
- AGRON 550ZA Forage Management and Utilization (online)
- AGRON 620 Applied Crop Physiology
- AGRON 810 Agronomy Graduate Seminar
- AGRON 843 Advanced Forage and Pasture Management

## **Coaching**

- K-State Forage Bowl Competition Team (organized in September, 2014). Coached and won the **National Forage Bowl Championship** at the American Forage and Grassland Council (AFGC) annual meetings three times (2015, 2016, and 2023: the first time to enter and win the competition in K-State history), placed 2<sup>nd</sup> in 2017 and 2020, and 3<sup>rd</sup> in 2018.

## **Extension Educational Programs Involved**

- Alfalfa Tour
- Dairy-Forage Educational Program
- Alfalfa Management School
- Alfalfa Technology Conference
- Forage Short Course
- Agronomy Agent Training
- Sheep Grazing Meeting
- Crop Management School
- Great Lakes Forage and Grazing Conference
- Grazing Basics
- Advanced Grazing School
- Horse College
- Horse Pasture Management
- Warm-/Cool-Season Grasses for Bio-Energy Crop
- Michigan Grazing Series for Beef and Dairy
- Feed and Forage Production - Dollars and Sense for Dairy and Beef Production
- Forage Hay Day
- Manure Utilization in Forage Production
- Forages for Wildlife Food Plots Workshop
- Pasture Walks
- Forage-Beef-Dairy Field Day
- Sorghum School
- Corn Management School
- Crop Scouting School

## **Graduate Students Advisory Committee**

- Rudra Baral (Ph.D. Water stress effects on alfalfa yield, nutritive value, and water use efficiency, major advisor).
- Iryna McDonald (Ph.D. Alfalfa-grass binary mixture ecology, major advisor), Kansas State University Agronomy Department.
- Xuan Xu (Ph.D. Low-lignin alfalfa cutting management, major advisor), Kansas State University Agronomy Department.



- Jeremy Davidson (Masters, Teff as an alternative water efficient summer annual forage, major advisor), Kansas State University Agronomy Department.
- Seoungmin Yang (Ph.D., Greenhouse gas mitigation in alfalfa, forage sorghum, and corn, a committee member), Kansas State University Chemical Engineering Department.
- Benjamin Vail (Masters, Sensor development for alfalfa baling, a committee member), Kansas State University Ag- and Bioengineering (BAE)
- Sangsu Ha (Ph.D. Groundwater permit trading in KS, a committee member), Kansas State University Ag-Econ Department
- Jacob Schwindt (Masters, Alfalfa hay sensors, a committee member), Kansas State University Department of Biological and Ag-Engineering.
- Jungeun Lee (Ph. D. Bioconversion in switchgrass as a bioenergy crop, a committee member), Kansas State University Grain Science Department.
- Ben Saylor (Masters, Teff forage as part of dairy diet, a committee member), Kansas State University Animal Sciences and Industry Department.
- Tim Dietz (Ph.D., Falcata alfalfa for sustainable hay and grazing systems, committee member). Michigan State University.
- Chris Miller (Ph.D., Assessing carbon benefit of bioenergy crop, committee member) Michigan Tech University.
- Kassidy Yatso (MS, Switchgrass interspecies competition with annual weeds). Michigan Tech University.
- James DeYoung (MS, Carbon sequestration and greenhouse gases mitigation in dairy forage cropping systems, Co-Advisor). Michigan State University.
- Tim Boring (MS, Integration of potato into forage-based dairy systems, Co-Advisor), Michigan State University.
- Debi Warnock (MS, Legume-grass pasture ecology, committee member). Michigan State University.
- Nasser Al-Ghumaiz (MS, AM-PM harvesting of alfalfa, committee member). Michigan State University.
- Brad Fronning (Ph.D., Carbon sequestration and greenhouse gases in annual crops, committee member). Michigan State University.
- Aaron Fransen (Ph. D., Dandelion biotypes, committee member). Michigan State University.

### **Peer Review Journals**

- Agronomy Journal
- Crop Science
- Asian-Australasian Journal of Animal Science
- Tropical and Subtropical Animal Science
- Bioenergy and Byproducts
- Animal Science and Technology
- Crops and Pasture Science

### **Grants Review**

- Research Proposals Review for the United States Department of Agriculture North Central Region Sustainable Agriculture Research and Extension (SARE)
- Research Proposal Review for the Kearney Foundation of Soil Science at the University of California, Davis

- Research Proposal Review for Project GREEN (Generating Research and Extension to meet Economic and Environmental Needs), Michigan State University Agricultural Experiment Station
- Extension/Demonstration Proposal Review for Project GREEN (Generating Research and Extension to meet Economic and Environmental Needs), Michigan State University Agricultural Experiment Station

### **Committee**

- Agronomy Course and Curriculum
- Department Committee on Planning and Head's Advisory Committee
- E. G. Heyne Crop Science Lectureship
- Kling Anderson Range Science Lectureship
- International Agriculture
- K-State Agronomy Open House
- Ex-Officio Board Member of Kansas Forage and Grassland Council
- KSECA Crops Contest
- Undergraduate Research Experience
- Agronomy Seminar at K-State
- Departmental Facilities and Infrastructure committee for North Central
- Great Lakes Forage and Grazing Conference Planning Committee
- Active Member of Forage/Field Crop/Bioenergy Crop Team at Michigan State University
- Ex-Officio Board Member of Michigan Forage Council
- American Forage and Grassland Council Annual Conference Planning Committee
- American Forage and Grassland Foundation Board Member
- MSU Upper Peninsula Experiment Station Research Advisory Committee
- MSU Upper Peninsula Experiment Station Field Day Planning Committee
- Growing Upper Peninsula Agriculture Association Advisory Committee
- Michigan Forage Technology Conference Planning Committee
- Ag for Tomorrow Conference Planning Committee
- Michigan Grazing Conference Planning Committee
- Michigan State University Project GREEN Proposal Reviewer Committee
- Forages for Wildlife Food Plots Workshop Planning Committee
- Forage Hay Day Planning Committee
- Delta County Bio-Energy Ad Hoc Committee
- Consortium for Agricultural Soils Mitigation of Greenhouse Gases (CASMGS)
- Long-Term Ecological Research (LTER) (Kellogg Biological Station, MSU)

## **Leadership Roles**

- Board of Director (public sector) of the American Forage and Grassland Council (AFGC)
- USAID Sustainable Intensification Innovation Lab Senegal Project PI by leading the projects in Senegal and Niger
- Chair for the Undergraduate Research Experiences at K-State Agronomy Department
- Agronomy Seminar Chair at K-State
- K-State Forage Lab (technician, graduate/undergraduate students)
- President of Korean Agronomist Society in US
- Forage / Pasture Team Co-Leader at Michigan State University

## **Volunteering**

- SACES (Students of Agronomy, Crops, and Environmental Sciences) Poster competition at the American Society of Agronomy (poster judge)
- K-State Agronomy Open House (forage booth)
- K-State Agronomy Intern Poster Presentation (poster judge)
- Graduate Students Research Forum at K-State (poster judge)
- Undergraduate/Graduate Students Research at the American Society of Agronomy Annual Meetings (poster judge)
- K-State Agronomy Department Graduate Students Recruiting Booth at the American Society of Agronomy Annual Meetings
- Great Lakes Forage and Grazing Conference (academic programs)
- Agriculture for Tomorrow Conference (academic programs)
- Agriculture Exploration Day (department booth)
- American Forage and Grassland Annual Meeting (oral and poster judge)
- International Grassland Congress in Northern Ireland (poster judge)
- USDA SAS RAIN Project Graduate Students Poster Competition (poster judge)