



Jennifer Moore-Kucera, Ph.D.
American Farmland Trust

1. Professional Preparation:

- a. B.A., Biology & Environmental Studies, 1994, Binghamton University (SUNY), Binghamton, NY
- b. M.S., Soil Science, 1998, Iowa State University, Ames, IA
- c. Ph.D., Soil Science, 2005, Oregon State University, Corvallis, OR
- d. Postdoctoral Soil Scientist, 7/2005-6/2006, USDA-ARS Southwest Watershed Research Center, Tucson, AZ
- e. Postdoctoral Soil Scientist, 6/2006-7/2008, Horticulture Department, Oregon State University, Corvallis, OR

2. Appointments:

- a. Climate Initiative Director, American Farmland Trust, 11/2018 – present
- b. Adjunct Faculty, Department of Crop & Soil Science, Oregon State University, 7/2017- present
- c. West Region Soil Health Team Leader, USDA-NRCS-Soil Health Division, Portland, OR, 11/2015-11/2018
- d. Co-director/NRCS Liaison, USDA- Northwest Climate Hub, Corvallis, OR, 2017-2018
- e. Associate Professor, Soil & Environmental Microbiology, Plant & Soil Science Department, Texas Tech University, Lubbock, TX, 3/2014-11/2015, was Assistant Professor from 8/2008-3/2014
- f. Agricultural Research Technologist II, Washington State University, Tree Fruit Research & Extension Center, Wenatchee, WA, 5/1998-1/2002

3. Publications:

- a. Burke, J., Lewis, K.L., Ritchie, G.L., **Moore-Kucera, J.**, DeLaune, P.B., Keeling, J.W. 2019. Temporal Variability of Soil Carbon and Nitrogen in Cotton Production on the Texas High Plains. *Agronomy Journal*, 0. doi:10.2134/agronj2019.02.0066
<https://dl.sciencesocieties.org/publications/aj/abstracts/0/0/agronj2019.02.0066?access=0&view=article>
- b. Manter, D.K., Delgado, J.A., **Moore-Kucera, J.**, 2018. Integrated soil health management: a framework for soil conservation and regeneration. *In: Managing Soil Health for Sustainable Agriculture*. Reicosky, D. (Ed.). Burleigh Dodds Series in Agricultural Science, Cambridge, UK.
- c. Odom, L., Maczko, K., Derner, J., Dell, C., McCulley, R., Carey, C., **Moore-Kucera, J.**, et al., 2018. Assessing and Managing for Soil Health on Rangelands and Pasture Lands. *Foundation for Food and Agricultural Research*. <https://foundationfar.org/wp-content/uploads/2018/06/Rangeland-Soil-Health-White-Paper-6.6.18.pdf>
- d. Li, C., Fultz, L.M., **Moore-Kucera, J.**, Acosta-Martínez, V., Kakarla, M., Weindorf, D.C., 2018. Soil microbial community restoration in Conservation Reserve Program semi-arid grasslands. *Soil Biology and Biochemistry*, 118, 166-177.
<https://www.sciencedirect.com/science/article/pii/S0038071717306740>
- e. Li, C., Fultz, L.M., **Moore-Kucera, J.**, Acosta-Martínez, V., Horita, J., Strauss, R., Zak, J., Calderón, F. and Weindorf, D., 2017. Soil carbon sequestration potential in semi-arid grasslands in the Conservation Reserve Program. *Geoderma*, 294, 80-90.
<https://www.sciencedirect.com/science/article/pii/S0016706117301465>
- f. Fultz, L.M., **Moore-Kucera, J.**, Dathe, J., Davinic, M., Perry, G., Wester, D., Schwilk, D.W. Rideout-Hanzek, S., 2016. Forest wildfire and grassland prescribed fire effects on soil biogeochemical processes and microbial communities: Two case studies in the semi-arid Southwest. *Applied Soil Ecology*, 99, 118-128. <https://www.sciencedirect.com/science/article/pii/S0929139315301165>
- g. Acosta-Martínez, V., Van Pelt, R.S., **Moore-Kucera, J.**, Baddock, M.C., Zobeck, T.M., 2015. Microbiology of wind-eroded sediments: current knowledge and future research directions. *Aeolian Research*, 18, 99-113. <https://www.sciencedirect.com/science/article/pii/S1875963715000543>

- h. Acosta-Martinez, V., Cotton, J., Gardner, T., **Moore-Kucera, J.**, Zak, J., Wester, D., Cox, S. 2014. Predominant bacterial and fungal assemblages in agricultural soils during a record drought/heat wave and linkages to enzyme activities of biogeochemical cycling. *Applied Soil Ecology* 84, 69-82. <http://www.sciencedirect.com/science/article/pii/S0929139314001772>
- i. Fultz, L.M., **Moore-Kucera, J.**, Zobeck, T.M., Acosta-Martinez, V., Allen, V.G., 2013. Organic carbon dynamics and soil stability in five semiarid agroecosystems. *Agriculture, Ecosystems, and Environment* 181:231-240. <http://authors.elsevier.com/sd/article/S0167880913003423>
- j. Fultz, L., **Moore-Kucera, J.**, Zobeck, T., Acosta-Martínez, V., Allen, V.G., 2013. Aggregate-carbon pools after 13 years of integrated crop-livestock management in semi-arid soils. *Soil Science Society of America Journal* 77(5)1659-1666. DOI: 10.2136/sssaj2012.0423. <https://www.soils.org/publications/sssaj/pdfs/77/5/1659>

4. Synergistic Activities:

- a. 2017 Chair Soil Biology & Biochemistry Division, Soil Science Society of America
- b. Currently serve as committee member of 1 Ph.D. student at Oregon State University and 1 Ph.D. student at The University of Pretoria, Pretoria, South Africa
- c. (2009-2015; Texas Tech) Chaired 2 M.S. and 4 Ph.D. students and co-chaired 1 Ph.D. and 2 M.S. students; Committee member of 7 Ph.D. and 7 M.S. students; Supervised 13 undergraduate research assistants; Student advisor for ~15 students each semester
- d. Developed Soil Biology Module for Soil Health Training for NRCS staff and partners as part of the conservation planner certification training