**W1196 Publications for 2023:**

Bartsch, Z.J., T.D. DeSutter, and C.K. Gasch, 2023. Microbial activity and hard red spring wheat growth improvement following biostimulant application. Agrosystems, Geosciences & Environment, 6: e20332, [https://doi.org/10.1002/agg2.20332](https://urldefense.com/v3/__https%3A/doi.org/10.1002/agg2.20332__;!!KGKeukY!yWRV9j76d6hXvxojg0Pf3nx2lVpOIN1RfBk0SwUk_z5wey3wFi0b1pun_kZBm7glv0m3s-n6eztMpr8_nhnq7eg$)

Blanco-Canqui, H., K. Wilke, J. Holman, C.F. Creech, A.K. Obour, and L. Anderson. 2023. Grazing cover crops: How does it influence soils and crops? Agronomy Journal, 115, 2801-2828. <https://doi.org/10.1002/agj2.21475>.

Bonnar, D. J., J.P. Eichler, S.J. Parikh, A. Blandino, R.A. Lybrand, M.L. Morris, M.J. Hengel, and R.S. Tjeerdema. 2023. Soil-Water Partitioning Behavior of Oxyfluorfen Under California Rice Field Conditions. ACS Agricultural Science & Technology, [https://doi.org/10.1021/acsagscitech.3c00341](https://urldefense.com/v3/__https%3A/doi.org/10.1021/acsagscitech.3c00341__;!!KGKeukY!0lbWR70utiQbKqUCmbN2Lv-jX9-bBWSrzKbXvmhgC5NgpY65qvK-6EASiw-ffSyY7TPO75fbUwVtlvmSmngmi75MBKw$).

Christy, I., A. Moore, D. Myrold, and M. Kleber. 2023 A mechanistic inquiry into the applicability of permanganate oxidizable carbon as a soil health indicator. Soil Science Society of America Journal, 87:1083-1095. DOI: 10.1002/saj2.20569

Das, S., D. Liptzin, and B. Maharjan. 2023. Long-term manure application improves soil health and stabilizes carbon in continuous maize production system. Geoderma, [https://doi.org/10.1016/j.geoderma.2023.116338](https://urldefense.com/v3/__https%3A/doi.org/10.1016/j.geoderma.2023.116338__;!!KGKeukY!wpmWPW-gznDQv3VZQ34DkISzlMO61sMt8CZ_kWGIT8IQwe8yaglLwk7_99rnQ8hP3ofdAfxnKI8CKC0aT1O9OXs$)

Dasgupta, D., M. Ries, K. Walter, K Anderson-Zitnick, L.A. Camuy-Vélez, C.K. Gasch, and S. Banerjee. 2023. Cover cropping reduces the negative effect of salinity on soil microbiomes.Journal of Sustainable Agriculture and Environment, 2: 140-152. [https://doi.org/10.1002/sae2.12054](https://urldefense.com/v3/__https%3A/doi.org/10.1002/sae2.12054__;!!KGKeukY!yWRV9j76d6hXvxojg0Pf3nx2lVpOIN1RfBk0SwUk_z5wey3wFi0b1pun_kZBm7glv0m3s-n6eztMpr8_XAP9Azg$)

Keller, L., O.J. Idowu, A.L. Ulery, M. Omer, and C.E. Brewer. 2023. Short-Term Biochar Impacts on Crop Performance and Soil Quality in Arid Sandy Loam Soil. Agriculture*, 13*(4), 782.

Liptzin, D., E.L. Rieke, S.B. Cappellazzi, G.M. Bean, M. Cope, K.L.H. Greub, C.E. Norris, P.W. Tracy, E. Aberle, A. Ashworth, O. Bañuelos Tavarez, A.I. Bary, R.L. Baumhardt, A. Borbón Gracia, D.C. Brainard, J.R. Brennan, D. Briones Reyes, D. Bruhjell, C.N. Carlyle, J.J.W. Crawford, C.F. Creech, S.W. Culman, B. Deen, C.J. Dell, J.D. Derner, T.F. Ducey, S.W. Duiker, M.F. Dyck, B.H. Ellert, M.H. Entz, A. Espinosa Solorio, S.J. Fonte, S. Fonteyne, AM. Fortuna, J.L. Foster, A.J. Franzluebbers, L.M. Fultz, A.V. Gamble, C.M. Geddes, D. Griffin-LaHue, J.H. Grove, S.K. Hamilton, X. Hao, Z.D. Hayden, N. Honsdorf, J.A. Howe, J.A. Ippolito, G.A. Johnson, M.A. Kautz, N.R. Kitchen, S. Kumar, K.S.M. Kurtz, F.J. Larney, K.L. Lewis, M. Liebman, A. Lopez Ramirez, S. Machado, B. Maharjan, M.A. Martinez Gamiño, W.E. May, M.P. McClaran, M.D. McDaniel, N. Millar, J.P. Mitchell, A.D. Moore, P.A. Moore Jr, M. Mora Gutiérrez, K.A. Nelson, E.C. Omondi, S.L. Osborne, D.L. Osmond, L. Osorio Alcalá, P. Owens, E.M. Pena-Yewtukhiw, H.J. Poffenbarger, B. Ponce Lira55, J.R. Reeve, T.M. Reinbott, M.S. Reiter, E.L. Ritchey, K.L. Roozeboom, Y. Rui, A. Sadeghpour, U.M. Sainju, G.R. Sanford, W.F. Schillinger, R.R. Schindelbeck, M.E. Schipanski, A.J. Schlegel, K.M. Scow, L.A. Sherrod, A.L Shober, S.S. Sidhu, E. Solís Moya, M. St. Luce, J.S. Strock, A.E. Suyker, V.R. Sykes, H. Tao, M.L. Thompson, A. Trujillo Campos, L.L. Van Eerd, H.M van Es, N. Verhulst, T.J. Vyn, Y. Wang, D.B. Watts, D.L. Wright, T. Zhang, C.L.S. Morgan, and C. Wayne Honeycutt. 2023. An evaluation of nitrogen indicators for soil health in long-term agricultural experiments. Soil Science Society of America Journal, 87:868-884. DOI: 10.1002/saj2.20558.

Lybrand, R.A. 2023. Connecting soils to life in conservation planning, nutrient cycling, and planetary science. Earth-Science Reviews, 237:104247. [https://doi.org/10.1016/j.earscirev.2022.104247](https://urldefense.com/v3/__https%3A/doi.org/10.1016/j.earscirev.2022.104247__;!!KGKeukY!0lbWR70utiQbKqUCmbN2Lv-jX9-bBWSrzKbXvmhgC5NgpY65qvK-6EASiw-ffSyY7TPO75fbUwVtlvmSmngmZzFRfsM$)

Majrashi, M.A., A.K. Obour, C. Moorberg, R.P. Lollato, J.D. Holman, J. Du, M.M. Mikha, and Y. Assefa. 2023. Tillage and nitrogen rate effects on winter wheat yield in a wheat-sorghum rotation. Canadian J. Soil Sci. [https://doi.org/10.1139/CJSS-2023-0028](https://urldefense.com/v3/__https%3A/doi.org/10.1139/CJSS-2023-0028__;!!KGKeukY!yqgpIvRCXjoybjY8fKJVzAsW_ZsxQAoLmi2PxqXXu7Gwabrhvhk6NdKzwiQK46I8uS5Jo7Gbvu_mnN54ASA$)

Mpanga, I., G. Neumann, J. Brown, J. Blankinship, R. Tronstad, and O.J. Idowu. 2023. Grape pomace's potential on semi-arid soil health enhances performance of maize, wheat, and grape crops*.* Journal of Plant Nutrition and Soil Science*, 186*(3):276-285.

Nilahyane, A., R. Ghimire, B. Sharma, B.S. Acharya, M.E. Shipanski, C.P. West, and A.K. Obour. 2023. [Overcoming agricultural sustainability challenges in water-limited environments through soil health and water conservation: insights from the Ogallala Aquifer Region, USA](https://www.tandfonline.com/doi/abs/10.1080/14735903.2023.2211484). International Journal of Agricultural Sustainability, 21:2211484.

Obour, A.K., J.D. Holman, and Y. Assefa. 2023. Continuous winter wheat response to nitrogen fertilizer rate in long‐term reduced tillage semi‐arid variable yield environment.   Crop Science. [https://doi.org/10.1002/csc2.21089](https://urldefense.com/v3/__https%3A/doi.org/10.1002/csc2.21089__;!!KGKeukY!yqgpIvRCXjoybjY8fKJVzAsW_ZsxQAoLmi2PxqXXu7Gwabrhvhk6NdKzwiQK46I8uS5Jo7Gbvu_mzjdNeqc$)

Obour, A.K., J.D. Holman, and Y. Assefa. 2023. Continuous no‐tillage winter wheat response to nitrogen fertilizer by yield‐environment. Agronomy Journal.  [https://doi.org/10.1002/agj2.21489](https://urldefense.com/v3/__https%3A/doi.org/10.1002/agj2.21489__;!!KGKeukY!yqgpIvRCXjoybjY8fKJVzAsW_ZsxQAoLmi2PxqXXu7Gwabrhvhk6NdKzwiQK46I8uS5Jo7Gbvu_mjFFah6A$).

Obour, A.K., J.D. Holman, and M.Y. Assefa. 2023. Depth of moist soil at planting affected grain sorghum response to nitrogen fertilizer.  Kansas Agricultural Experiment Station Research Reports: Vol. 9: Iss. 6. [https://doi.org/10.4148/2378-5977.8485](https://urldefense.com/v3/__https%3A/doi.org/10.4148/2378-5977.8485__;!!KGKeukY!yqgpIvRCXjoybjY8fKJVzAsW_ZsxQAoLmi2PxqXXu7Gwabrhvhk6NdKzwiQK46I8uS5Jo7Gbvu_mUi_RhWA$)

Obour, A.K., J.D. Holman, L.M. Simon, and S.K. Johnson. 2023. Grazing Cover Crops Improved Soil Health in Dryland Cropping Systems. Kansas Agricultural Experiment Station Research Reports: Vol. 9: Iss. 6 [https://doi.org/10.4148/2378-5977.8486](https://urldefense.com/v3/__https%3A/doi.org/10.4148/2378-5977.8486__;!!KGKeukY!yqgpIvRCXjoybjY8fKJVzAsW_ZsxQAoLmi2PxqXXu7Gwabrhvhk6NdKzwiQK46I8uS5Jo7Gbvu_mZMTP4S0$)

Omer, M., O.J. Idowu, N. Pietrasiak, D. VanLeeuwen, A.L. Ulery, A. Dominguez, R. Ghimire, and M.A. Marsalis. 2023. Agricultural practices influence biological soil quality indicators in an irrigated semiarid agro-ecosystem. Pedobiologia, 96:150862.

Sapkota, S., R. Ghimire, S. Angadi, P. Singh, D. VanLeeuwen, and O.J. Idowu. 2023. Soil health responses to circular grass buffer strips in center-pivot irrigated agriculture. Soil Science Society of America Journal, 87:337-349.

Stokes, S.C., P. Trivedi, K. Otto, J.A. Ippolito, and T. Borch. 2023. Determining soil health parameters controlling crop productivity in a citrus greening disease affected orange grove. Soil and Environmental Health. 1:1000016.

Trimarco, T., J.A. Ippolito, J. Brummer, and C. Buchanan. 2023. Tracking soil health changes in a management-intensive grazing agroecosystem. Soil Systems. 7:94. <https://doi.org/10.3390/soilsystems7040094>.

Vandeveer M., J.D. Holman, A. Schlegel, D. O’Brien, A.K. Obour, L. Haag, and Y. Assefa. 2023. Economics of alternative tillage systems in dryland crop rotations in US Great Plains. Soil and Tillage Research. 232:105751.