List of Publications (as of March 2025)

Toni Klemm, Ph.D.

Journal articles (peer reviewed)

Klemm, T. (2024). The Use of Participatory Modelling Methods in Agri-Environmental Research – A Systematic Mapping Dataset. One Ecosystem, 9, e133158. https://doi.org/10.3897/oneeco.9.e133158

Miller Hesed, C. D., Yocum, H. M., Rangwala, I., Symstad, A., Martin, J. M., Ellison, K., Wood, D. J. A., Ahlering, M., Chase, K. J., Crausbay, S., Davidson, A. D., Elliott, J. L., Giocomo, J., Hoover, D., **Klemm, T.**, Lightfoot, D. A., McKenna, O. P., Miller, B. W., Mosher, D., … Zale, A. V. (2023). Synthesis of climate and ecological science to support grassland management priorities in the North Central Region. In Open-File Report. https://doi.org/10.3133/ofr20231036

Klemm, T., & Briske, D. D. (2021). Retrospective Assessment of Beef Cow Numbers to Climate Variability Throughout the U.S. Great Plains. *Rangeland Ecology & Management*, *78*, 273–280. https://doi.org/https://doi.org/10.1016/j.rama.2019.07.004

Briske, D. D., Ritten, J. P., Campbell, A. R., **Klemm, T.**, & King, A. E. H. (2021). Future climate variability will challenge rangeland beef cattle production in the Great Plains. *Rangelands*, *43*(1), 29–36. https://doi.org/10.1016/j.rala.2020.11.001

Guckian, M. L., Markowitz, E. M., Tucker, C. S., Kiekebusch, E., **Klemm, T.**, Middleton, L., Wootten, A., & Staudinger, M. D. (2021). Assessing the impact of an online climate science community: The Early Career Climate Forum. *Weather, Climate, and Society*, *13*(2), 315–325. https://doi.org/10.1175/WCAS-D-20-0150.1

Schulz, T. T., Wilmer, H., Yocum, H., Winford, E., Peck, D., Monlezun, A. C., Schmalz, H., **Klemm, T.**, Epstein, K., Jansen, V., Kelley, W., Bruegger, R., Fick, S., Wolf, J. G., Grace, J., Mann, R., & Derner, J. (2021). Campfire Conversations at the 2020 annual meeting: Insights & lessons learned from "cuss-and-discuss" rather than "chalk-and-talk." *Rangelands*, *43*(4), 166–172. https://doi.org/https://doi.org/10.1016/j.rala.2021.04.003

Hunt, E. D., Walters, C., **Klemm, T.**, & Eronmwon, I. (2020). Seasonal Forecast Based Preharvest Hedging. *Cornhusker Economics*. https://digitalcommons.unl.edu/agecon_cornhusker/1079/

Klemm, T., Briske, D. D., & Reeves, M. C. (2020). Vulnerability of Rangeland Beef Cattle Production to Climate-Induced NPP Fluctuations in the U.S. Great Plains. *Global Change Biology*, *26*, 4841– 4853. https://doi.org/10.1111/gcb.15202

Klemm, T., Briske, D. D., & Reeves, M. C. (2020). Potential Natural Vegetation and NPP Responses to Future Climates in the U.S. Great Plains. *Ecosphere*, *11*(10), e03264. https://doi.org/https://doi.org/10.1002/ecs2.3264

Klemm, T., & McPherson, R. A. (2018). Assessing Decision Timing and Seasonal Climate Forecast Needs of Winter Wheat Producers in the South-Central United States. *Journal of Applied Meteorology and Climatology*, *57*(9), 2129–2140. https://doi.org/10.1175/jamc-d-17-0246.1

Klemm, T., & McPherson, R. A. (2017). The development of seasonal climate forecasting for agricultural producers. *Agricultural and Forest Meteorology*, *232*, 384–399. https://doi.org/http://dx.doi.org/10.1016/j.agrformet.2016.09.005

Other

Policy Papers

Koch, L., Weith, T., Ewert, F., Matzdorf, B., Helming, K., **Klemm, T.**, Pereponova, A., Brüser, K., Backhaus, K., Breuer, L., & others. (2022). Reallabore in Agrarlandschaften: Gemeinsam mit Praxis, Wissenschaft und Politik zu Lösungen für die Transformation des Agrarsystems. In ZALF Policy Paper 3-2022. ZALF. https://www.zalf.de/de/forschung_lehre/publikationen/Documents/Policy_Paper/policy-paper-reallabore-11-22.pdf

Story Maps

Ranching in a Warming World – Is U.S. rangeland cattle production ready for climate change? (Adobe Spark)

Blog posts (selection)

A Figure is Worth a Thousand Words – The Power of Data Visualization (April 2021)

The Complex World of Drought Management on Ranches (October 2017)

From Paris to the Class Room (February 2016)

Modeling the 2000-2012 Global Warming Hiatus (November 2013)