

List of Publications (as of January 2026)

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

Shah, S. D., Tomer, M., **Klemm, T.**, Trofimtseva, O., Dudek, M., Sala, A., Dankevych, V., & Samsky, E. (2026). *Roadmap for Ukraine's Transformative Adaptation - How can the Common Agriculture Policy Enable Opportunities for Recovery, Agricultural Resilience, and Institutional Reform* (p. 37). Ukraine Facility Platform and LBJ School for Public Affairs at the University of Texas at Austin. <https://uafp.eu/uafp-study-roadmap-for-transforming-ukraines-agricultural-sector/>

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)