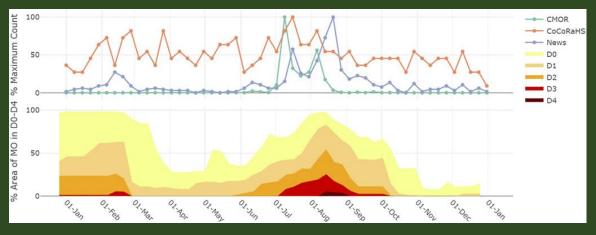
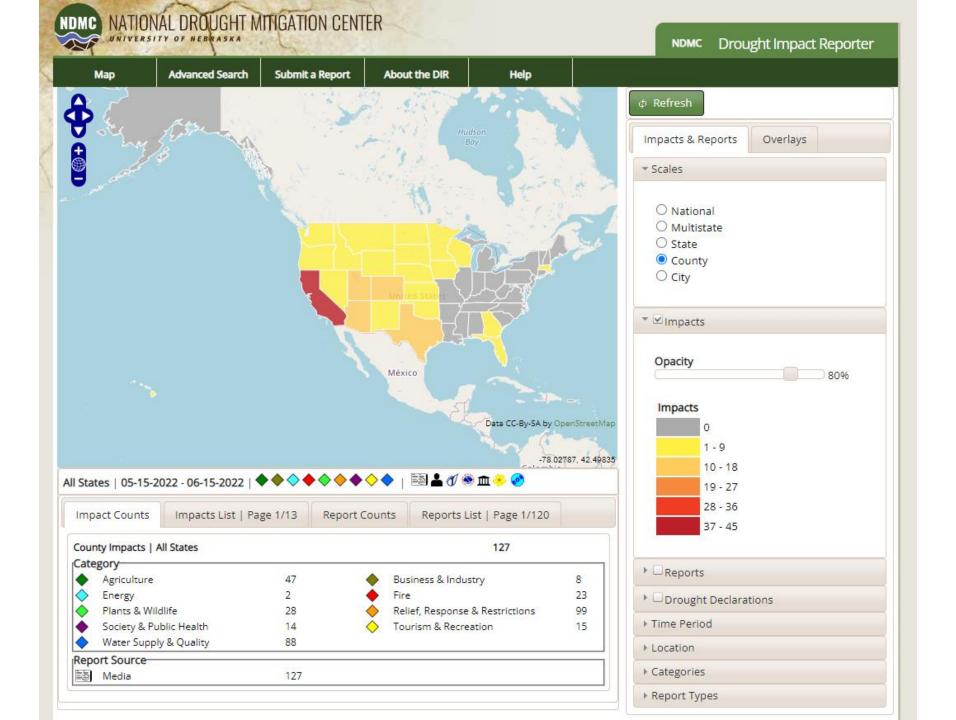
Tuning in to drought chatter: Detecting deviation from expectation

Kelly Helm Smith

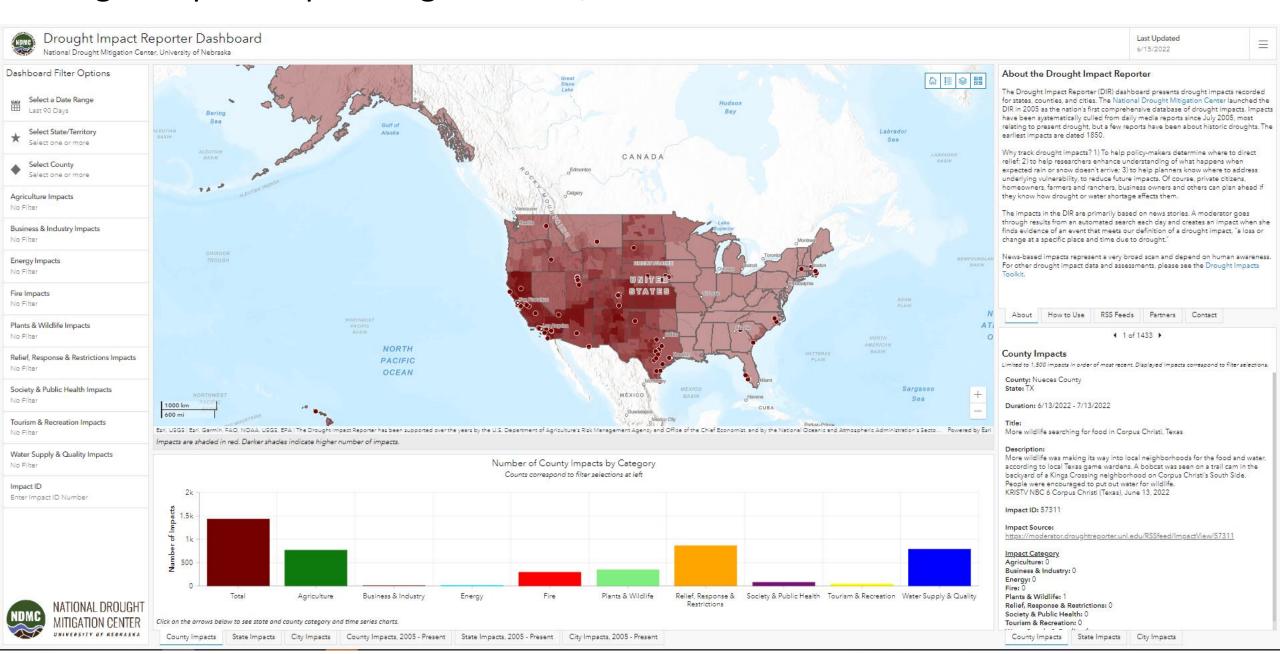
Kickoff: EU Network of Drought Observatories, June 16, 2022







Drought Impact Reporter: go.unl.edu/DIRdash



Home

Tools

Emerging Impacts

Impact Assessments



Map-based tools track drought impacts:

- The Drought Impact Reporter Dashboard
- Condition Monitoring Observer Reports (CMOR)
- The Visual Drought Atlas
- The Media Drought Index
- Drought Tweets
- CoCoRaHS condition monitoring reports



Emerging Impacts

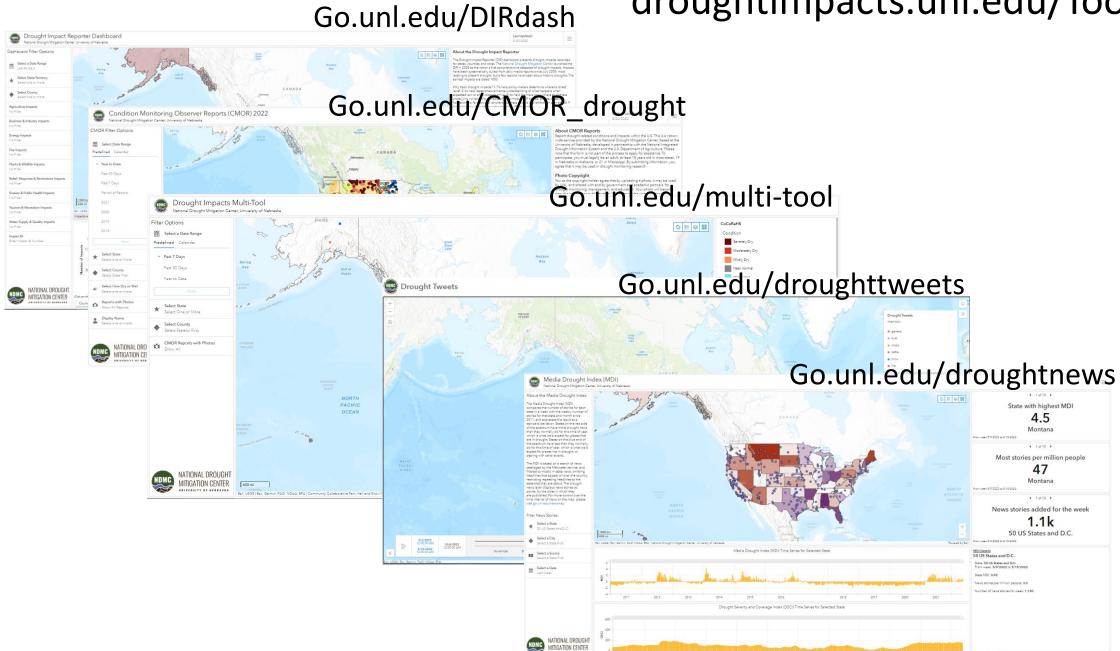
These resources are regularly updated sources of information on drought impacts or on other environmental conditions that may be related to drought.



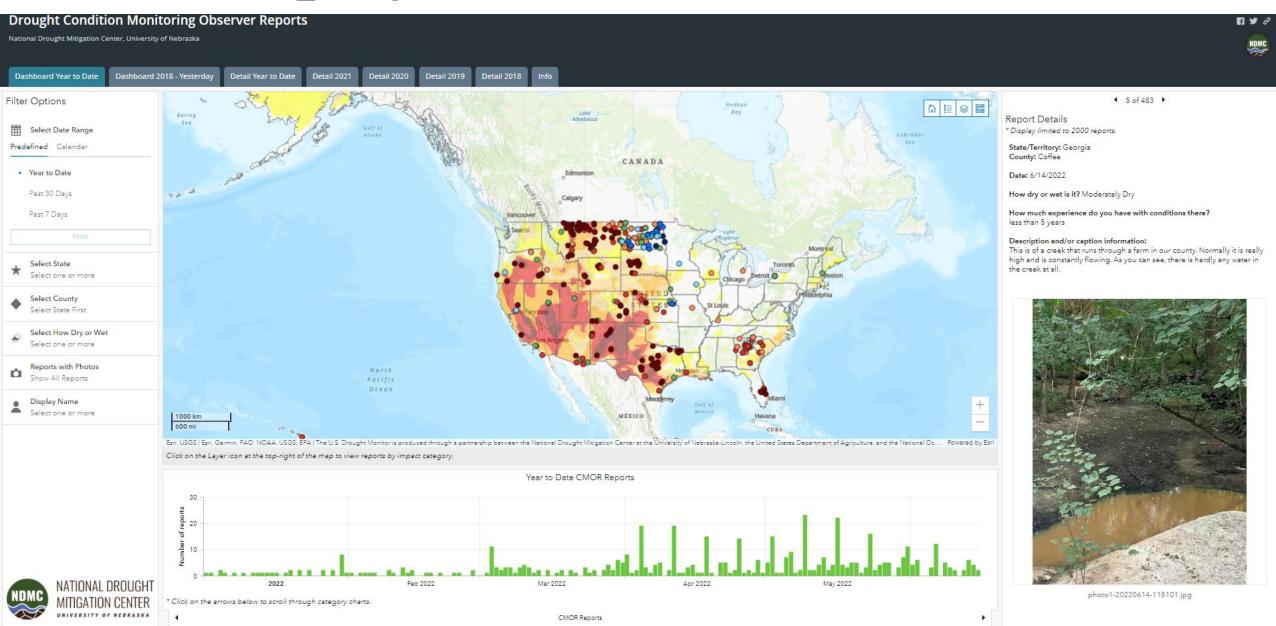
Impact Assessments

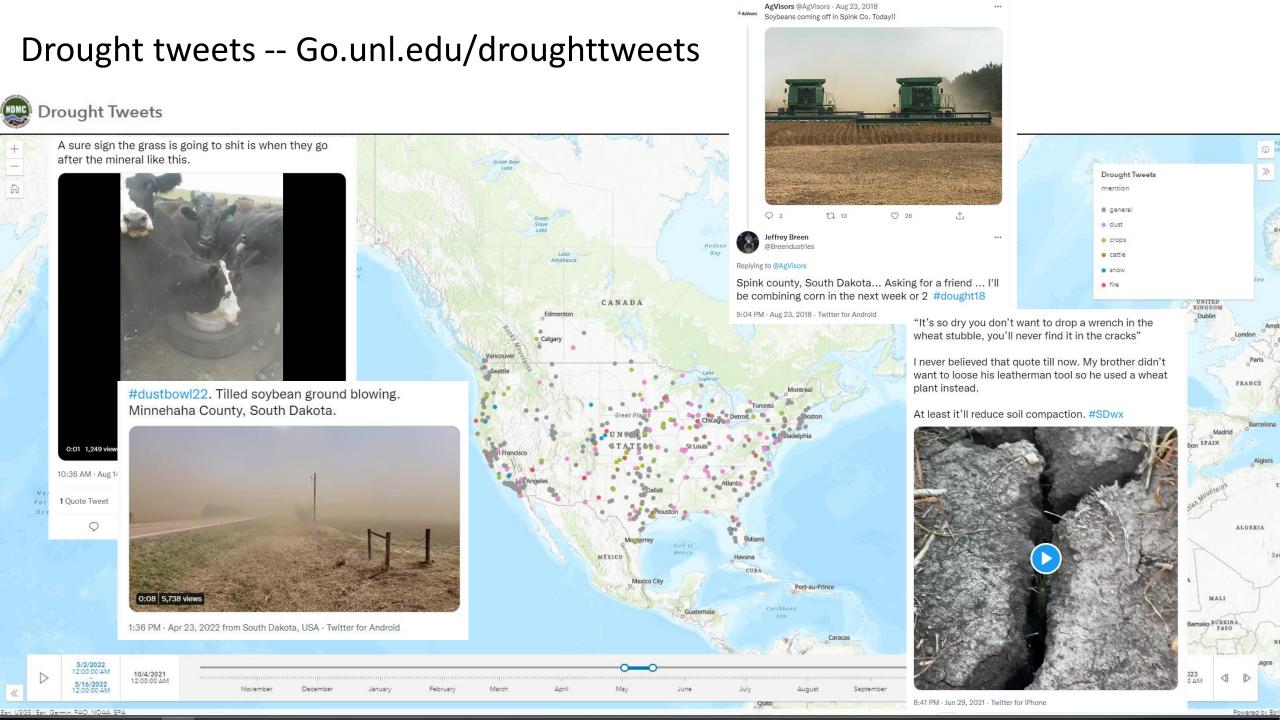
State agencies, non-governmental organizations and others may conduct post-drought assessments to better understand how drought affected agriculture, health, food security, energy, communities and other areas of interest, and to document responses and outcomes.

droughtimpacts.unl.edu/Tools.aspx

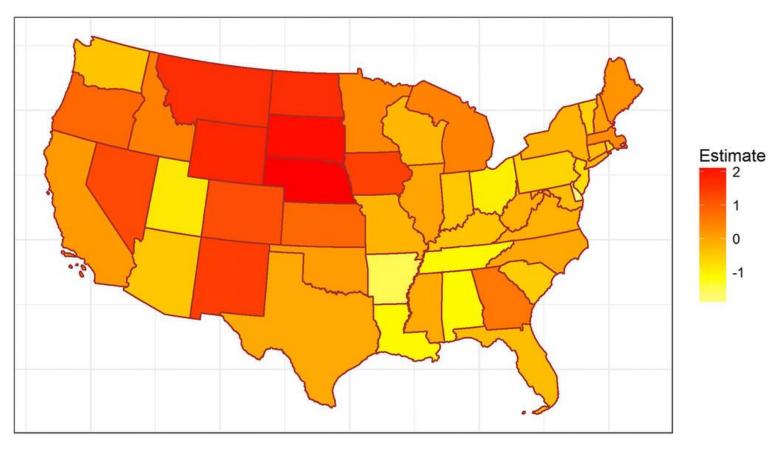


Condition Monitoring Observer Reports (CMOR) Go.unl.edu/CMOR_drought





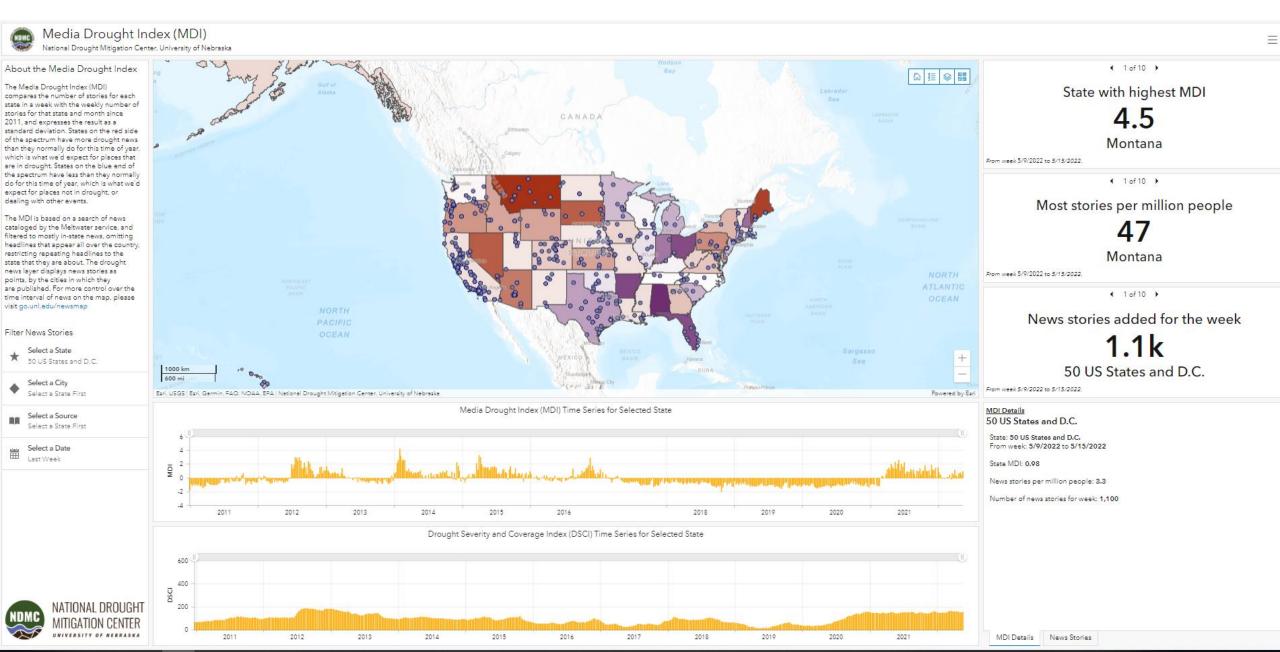
Finding: Geographic differences in tweeting behavior



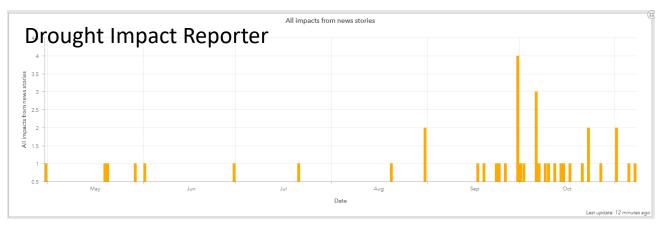
Bulletin of the American Meteorological Society 101, 10; 10.1175/BAMS-D-19-0342.1

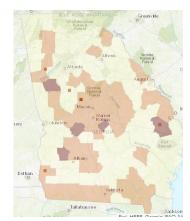
Smith, K. H., Tyre, A. J., Tang, Z., Hayes, M. J., & Akyuz, F. A. (2020). Calibrating Human Attention as Indicator Monitoring #drought in the Twittersphere, *Bulletin of the American Meteorological Society*, *101*(10), E1801-E1819. Retrieved May 20, 2022, from https://journals.ametsoc.org/view/journals/bams/101/10/bamsD190342.x

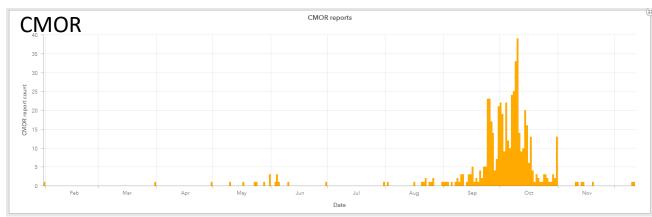
Drought news and Media Drought Index -- go.unl.edu/droughtnews

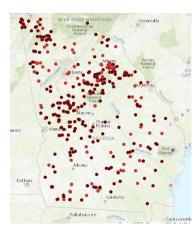


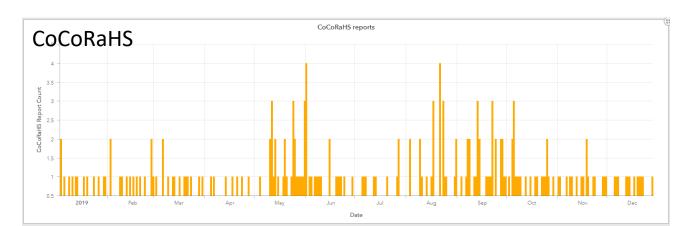
Comparison of CMOR, CoCoRaHS and Drought Impact Reporter for Georgia in 2019









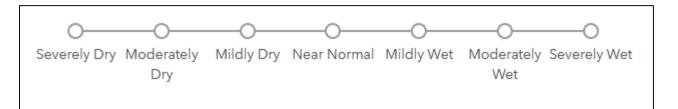




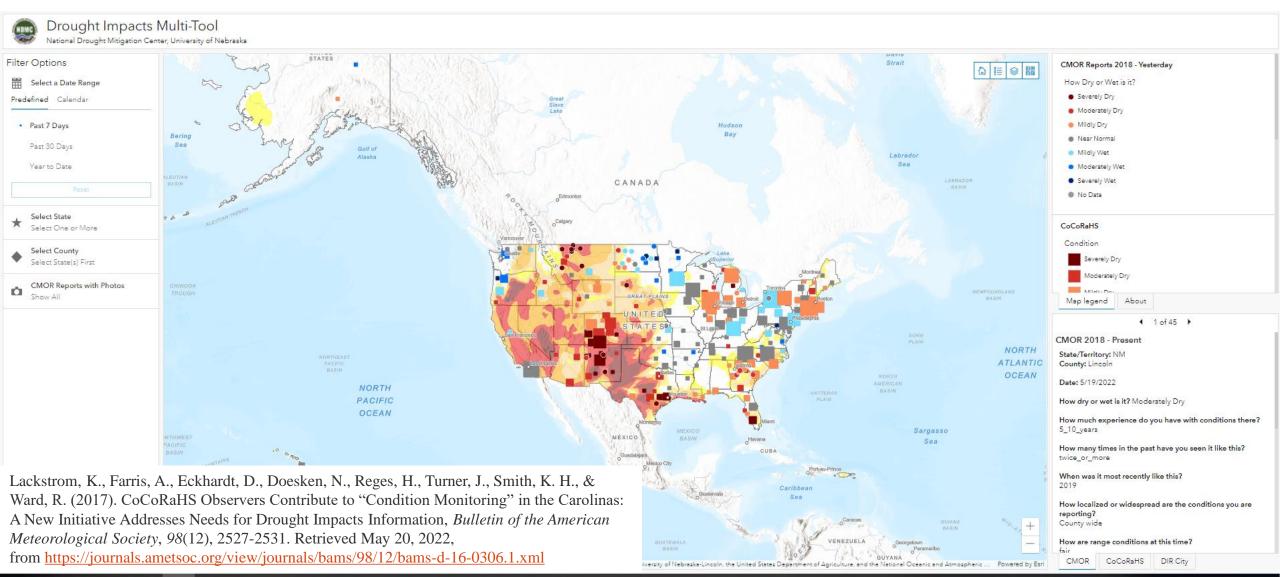
CoCoRaHS Citizen Science cocorahs.org

CoCoRaHS, the
Carolinas Integrated
Sciences and
Assessment (CISA) and
NDMC collaborated to
develop "condition
monitoring" and the 7point dry-to-wet scale.





CoCoRaHS Condition Monitoring reports, with CMOR Go.unl.edu/multi-tool CoCoRaHS.org



Questions, comments? Kelly Helm Smith ksmith2@unl.edu

Tools

Map-based tools track drought impacts: Condition Monitoring Observer Reports (CMOR), the Drought Impact Reporter, the Visual Drought Atlas, the Media Drought Index, Drought Tweets, and CoCoRaHS condition monitoring reports.

Missouri 2018: U.S. Drought Monitor, news stories, CoCoRaHS, and CMOR

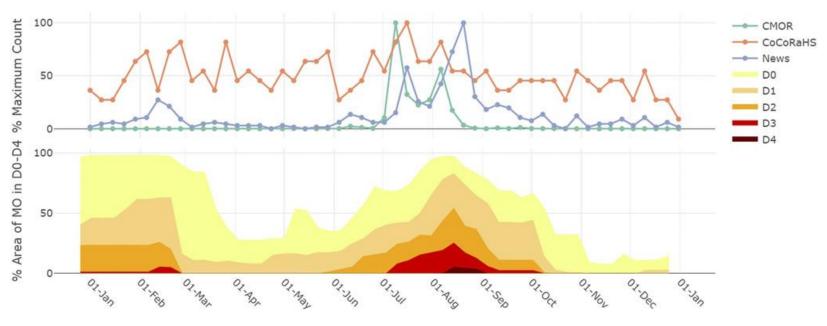


Image from Smith, K. H., Burbach, M. E., Hayes, M. J., Guinan, P. E., Tyre, A. J., Fuchs, B., Haigh, T., & Svoboda, M. D. (2021). Whose Ground Truth Is It? Harvesting Lessons from Missouri's 2018 Bumper Crop of Drought Observations, Weather, Climate, and Society, 13(2), 227-244. Retrieved May 20, 2022, from https://journals.ametsoc.org/view/journals/wcas/13/2/WCAS-D-19-0140.1.xml