## Metadata Records Irrigation Innovation Consortium-Supported Project Datasets

Please use a separate sheet for each dataset. Answers are automatically saved.

Questions? Contact Diane DeJong: diane.de\_jong@colostate.edu.

## Thank you!

Question	Answer
Project name	Extension Outreach Tools to Improve Adoption of Irrigation Management Technologies in
	the Texas Panhandle
Project background	The specific objectives of our project are to 1) develop a user friendly, online decision tool
	aimed at producers for optimizing acreage of multiple irrigated and dryland crops, 2)
	evaluate reduced tillage (no-till and strip-till) for improving crop water use efficiency and
	corn yields, and 3) develop a soil moisture sensor selection and assessment tool to aid
	producers with informing irrigation decisions.
Dataset name	Soil moisture sensor data - forage sorghum
Primary author	David Parker, West Texas A&M University, dparker@wtamu.edu
Include first & last name, institution affiliation, and email address.	
Primary contact	David Parker, West Texas A&M University, dparker@wtamu.edu
The primary contact may be the same or different from the primary author.	
Include first & last name, institution affiliation, and email address.	
Dataset description	One year of data using three types of soil moisture sensors on irrigated forage sorghum. A
Please provide a brief, clear summary description of the dataset contents. Indicate as	total of 6 AquaSpy sensors, 2 GroGuru sensors, and 9 Acclima TDR sensors were installed.
applicable: purpose and scope; time period; areas of investigation; and any other special	The experiment had five irrigation treatments of 0, 0.5, 1.0, 1.5, and 2.0 inches per week. In
characteristics.	the AquaSpy, moisture content and temperature were measured in 4-inch increments, to 48
	inch total depth (12 depth locations per sensor). In the GroGuru, moisture content and
	temperature were measured in 4-inch increments from 16 to 48 inches. In the TDR sensors,
	moisture content were measured in three locations at depths of 6, 12, and 24 inches.
Spatial coverage	Located in Randall County, Texas. Approximately 6 miles northeast of Canyon, Texas, near
Please be specific as possible about the geographic coverage of your data, and record the	intersection of South Washington Street and West McAfee Road.
information according to defined standards, such as FGDC or the Getty Thesaurus of	Lat/Lon=35.05905392400982, -101.84851990989506
Geographic Names. You can enter lat/long data, county names, state names, etc.	
Temporal coverage	July 7, 2023 - November 17, 2023, Data recorded every 15-60 minutes. On-site weather
Describe the temporal coverage of your dataset:	station data is available.
Start: Time of day, Date, Month, Year	
Finish: Time of day, Date, Month Year	
Re-use limitations	
Describe known problems or caveats that would limit reuse of the data (e.g., uncertainty,	
sampling problems, blanks, quality control samples) and/or that future potential users of	
your dataset should know about. Or indicate "None."	

Citations	
Please include full citations and DOIs for articles published based on or related to this	
dataset. Or indicate "None."	
Keywords	soil moisture content; irrigation management; extension education; Texas; corn; sorghum;
Please add a few appropriate National Agricultural Library keywords:	irrigated farming; dryland farming; center pivot irrigation; no-tillage; strip tillage
https://agclass.nal.usda.gov/vocabularies/nalt	
Tags	decision tool; crop water use efficiency
Please add a few of your own user-defined tags that would be useful to others who might	
use your dataset in the future.	
Acronyms & abbreviations	
Please define any acronyms, site abbreviations, or other project specific designations used in	
your dataset. Or indicate "none."	
Other dataset storage location	Data has not been uploaded elsewhere. Data is on the PI's personal computer. Contact the PI
Has this dataset already been uploaded elsewhere? Yes or No	for further information and for access to this data.
Description of the control of the co	
Reasons may include a requirement as part of publishing a paper or storing data on GitHub	
or other locations to make accessible to others.	
If yes, please provide the link or other information to explain where the dataset is located	
and where or how it can be accessed.	