

**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](mailto:diane.de_jong@colostate.edu).

Thank you!

Question	Your answer
<b>Project name</b>	Improved irrigation scheduling combining soil water supply and atmospheric evaporative demand
<b>Project background</b>	Quantify and compare the water use efficiency (i.e. yield per applied irrigation) of the SDD algorithm vs. other common irrigation practices at two study sites in Nebraska using a randomized trial with 3 replicates.
<b>Dataset name</b>	UNLTAPS applied irrigation and yield
<b>Primary author</b> Include first & last name, institution affiliation, and email address.	Trenton Franz, UNL, <a href="mailto:trenton.franz@unl.edu">trenton.franz@unl.edu</a>
<b>Primary contact</b> The primary contact may be the same or different from the primary author. Include first & last name, institution affiliation, and email address.	Trenton Franz, UNL, <a href="mailto:trenton.franz@unl.edu">trenton.franz@unl.edu</a>
<b>Dataset description</b> Please provide a brief, clear summary description of the dataset contents. Indicate as applicable: purpose and scope; time period; areas of investigation; and any other special characteristics.	As part of the UNLTAPS program, the SDD algorithm was included as one of the research farms for the sprinkler corn experiment between 2021-2023. The dataset includes the applied irrigation and corn yield.
<b>Spatial coverage</b> Please be specific as possible about the geographic coverage of your data, and record the information according to defined standards, such as FGDC or the Getty Thesaurus of Geographic Names. You can enter lat/long data, county names, state names, etc.	The experiment took place the research and extension facility in North Platte NE on their sprinkler corn field.
<b>Temporal coverage</b> Describe the temporal coverage of your dataset: Start: Time of day, Date, Month, Year Finish: Time of day, Date, Month Year	May 2021 to Oct 2023
<b>Re-use limitations</b> 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."	None
<b>Citations</b> Please include full citations and DOIs for articles published based on or related to this dataset. Or indicate "None."	None but included in UNLTAPS reports. <a href="https://taps.unl.edu/reports">https://taps.unl.edu/reports</a>
<b>Keywords</b> Please add a few appropriate National Agricultural Library keywords: <a href="https://agclass.nal.usda.gov/vocabularies/nalt">https://agclass.nal.usda.gov/vocabularies/nalt</a>	irrigation scheduling; soil water; evaporative demand; remote sensing; algorithms; water use efficiency; application programming interface

<p><b>Tags</b> Please add a few of your own user-defined tags that would be useful to others who might use your dataset in the future.</p>	<p>UNLTAPS</p>
<p><b>Acronyms &amp; abbreviations</b> Please define any acronyms, site abbreviations, or other project specific designations used in your dataset. Or indicate "none."</p>	<p>SDD - supply-demand dynamics; API - application programming interface; TAPS - Testing Ag Performance Solutions; CRNS - cosmic ray neutron sensor; AU - Aspiring Universe Corporation (subcontractor)</p>
<p><b>Other dataset storage location</b> Has this dataset already been uploaded elsewhere? Yes or No</p> <p>Reasons may include a requirement as part of publishing a paper or storing data on GitHub or other locations to make accessible to others.</p> <p>If yes, please provide the link or other information to explain where the dataset is located and where or how it can be accessed.</p>	<p>Yes, <a href="https://taps.unl.edu/reports">https://taps.unl.edu/reports</a>. Full data will be in future publication in peer reviewed literature.</p>