Information on Data Collection and Organization from the SGS-LTER

This data package was produced by researchers working on the Shortgrass Steppe Long Term Ecological Research Project. This project was supported by National Science Foundation from 1982-2014. This data package includes one or more tab-delimited data tables, tab-delimited files that denote header definitions and data types for each column, and detailed metadata within an Ecological Metadata Language document (i.e. XML).   Example image files of plots, digital datasheets, or schematics of the experimental design may also be included when applicable.

Background information on the SGS-LTER project is contained in related series of objects within the Digital Collections of Colorado and the Colorado State University archives. Together data packages and other background information, and items such as images, proposals, and reports contribute to a comprehensive SGS-LTER collection.

The data tables and associated EML documents represent components of the LTER data package, which may be discovered and accessed through secondary repositories serving specific ecosystem science domains (e.g. PASTA (LTER Network Repository), DataONE, or The Knowledge Network for BioComplexity).

The following information describes the content of the CR21X data packages. Details on units of measurement, installation specifications, and missing values can be found in the _var.txt files.

These meteorological data were collected automatically from a micro-meteorological (met) station using a CR21X Campbell Scientific Data Logger. The met station equipment was installed in 1986 by LTER on the Central Plains Experimental Range (CPER) in Nunn, Colorado in Section 27 (about 2 miles east of the intersection of WCR 114 and Highway 85). Data were collected and/or derived to report daily values (Cr21xd.txt) for air temperature, precipitation, soil moisture, soil temperature, relative humidity, wind speed, wind direction and radiation. Precipitation was measured and reported every fifteen minutes (Cr21xm.txt and Cr21xm2.txt). Hourly measurements (Cr21xh.txt) were collected and/derived for radiation, soil moisture, air temperature, relative humidity, soil temperature, wind speed and direction.