



# High Plains Regional Climate Center

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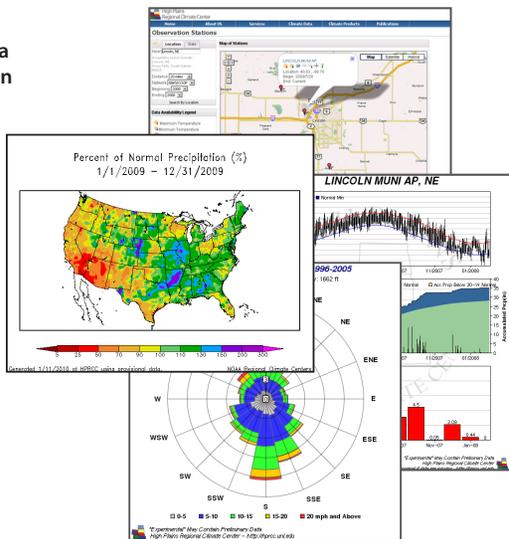
*Providing Timely Climate Data and Information to the Public for Cost Effective Decision Making*

## Climate Services

HPRCC provides the public with several ways to access climate data and information. Whether via direct contact, website access, or through a subscription to one of HPRCC's online services, users can acquire a variety of climate data products, including:

- Near Real-Time and Historical Climate Data
- Normals, Means, and Extremes Information
- National and Regional Climate Data Maps
- Agricultural Climate Products
- Custom Climate Reports and Charts
- Monthly Climate Summaries
- Data Certification

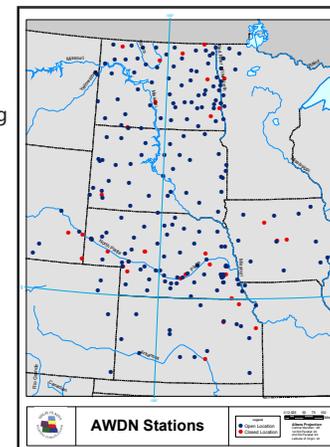
Need a specialized Climate Data Product? HPRCC can provide IT and Climate experts to build specialized climate products at a minimal cost. Using XML technology HPRCC can create dynamic products for client websites using the ACIS framework, removing the hassle of synchronizing historical records.



## Regional Mesonet and Data Collection

The **Automated Weather Data Network (AWDN)** is a cooperative effort between the High Plains Regional Climate Center and several state agencies and universities in North Dakota, South Dakota, Iowa, Kansas, Colorado, and Wyoming.

- Records hourly air temperature and humidity, soil temperature, wind speed and direction, solar radiation, and precipitation
- **More than 200 stations** in the High Plains Region providing valuable real-time information in rural areas
- **Numerous agricultural applications** built on AWDN data
- Research-Quality real-time dataset
- Data available through **ACIS** interfaces (**CLIMOD**) and the **HPRCC Classic Online Service**
- For more information about AWDN, please see: <http://www.hprcc.unl.edu/awdn>



HPRCC also collects near real-time and historical data for official NOAA observation systems and participating regional mesonets including:

- Automated Surface Observation System (ASOS)
- National Weather Service Cooperative Observers (COOP)
- Automated Weather Data Network (AWDN)

## Applied Research

A part of the University of Nebraska-Lincoln, the High Plains Regional Climate Center participates in research studies related to climate data collection and delivery. Active projects include:

- **Applied Climate Information System (ACIS)** - A framework for climate data collection and dissemination, done in cooperation with other NOAA Regional Climate Centers.
- **Nebraska Soil Moisture Project** - A soil moisture monitoring network collocated with AWDN stations throughout Nebraska.
- **Quality Control Techniques** - Ongoing studies into the performance of various quality control algorithms.
- **Instrumentation Bias** - Studies into observed temperature record biases introduced by station instrumentation changes.
- **Crop-Specific Evapotranspiration and Irrigation Scheduling Tools**
- For more information, please see: <http://www.hprcc.unl.edu/publications>

## About Us

The High Plains Regional Climate Center (HPRCC) is located at the University of Nebraska-Lincoln within the School of Natural Resources. The mission of HPRCC is to increase the use and availability of climate data in the High Plains Region.

HPRCC personnel work closely with scientists from other regional and federal climate centers on climate services and programs and provide a regional structure for climate applications. The long term objectives are to carry out **applied climate studies**, develop improved **climate information products**, and provide **climate services** in the High Plains Region.

