

Data Collection

HPRCC 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 (NWS COOP)**
- **Automated Weather Data Network (AWDN)**
- And more...



Subscription Services

HPRCC has two fee-based interactive web systems for disseminating climate data and near real-time weather products. These systems are designed and priced for users who require climate data on an ongoing basis. Highlights include access to AWDN (daily and hourly) and NWS (daily) stations, crop growth monitoring, crop specific irrigation scheduling, evapotranspiration estimates, degree day accumulation analysis tools, and more!

For more information please contact us or visit:
<http://www.hprcc.unl.edu/services>

Free on the Web

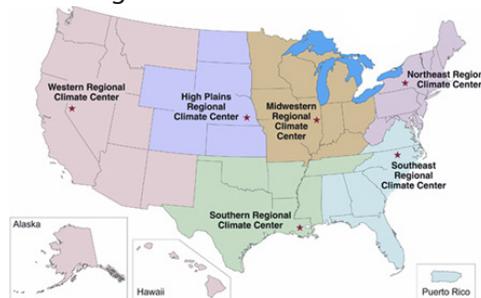
The High Plains Regional Climate Center web site provides many products for free:

- National and regional **climate summary maps**, generated daily for many time periods
- **Historical data and products** including NCDC 30-year normals, averages and extremes of temperature, precipitation, snowfall, etc.
- **High Plains Climate Atlas** which includes maps of first and last freeze dates, precipitation, temperature, degree days, and more
- AWDN **Wind Roses** for Nebraska
- AWDN **Soil Moisture Plots** for Nebraska

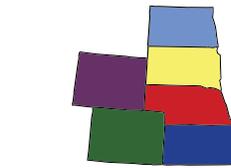
About Us

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.



A downloadable brochure is available at:
<http://www.hprcc.unl.edu/publications/files/brochure.pdf>



High Plains Regional Climate Center

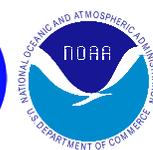


Providing Timely Climate Data and Information to the Public for Cost Effective Decision Making

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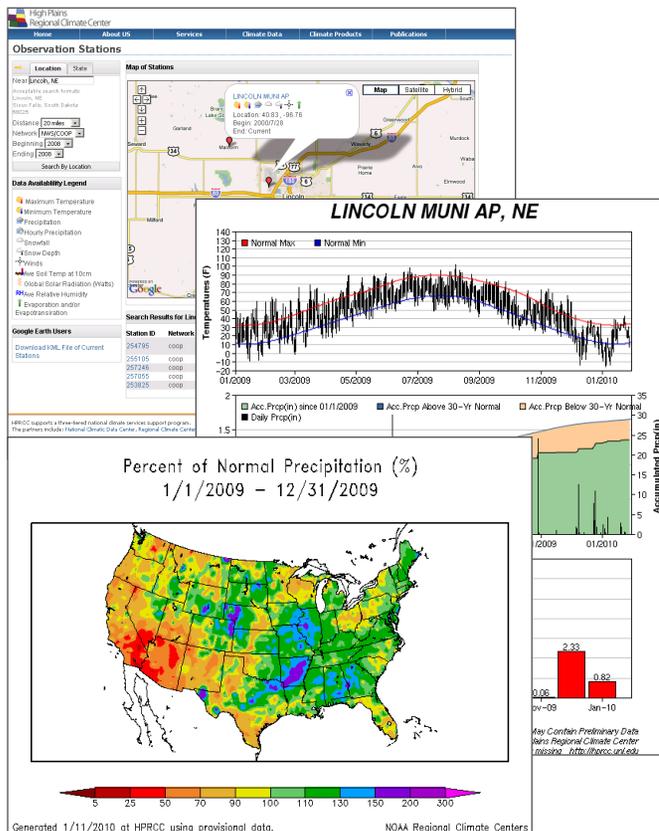
<http://www.hprcc.unl.edu>



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



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. ACIS is a seamless national distribution network of climate data and products via the internet. <http://www.rcc-acis.org>
- **Nebraska Soil Moisture Project** - A soil moisture monitoring network colocated with AWDN stations throughout Nebraska. Research includes refining a model to enable estimates of soil moisture where there are no sensors. <http://www.hprcc.unl.edu/awdn/soilm>
- **Quality Control Techniques** - Ongoing studies into the performance of various quality control algorithms. <http://www.hprcc.unl.edu/publications>
- **Instrumentation Bias** - Studies into observed temperature record biases introduced by station instrumentation changes.
- **Crop-Specific Evapotranspiration and Irrigation Scheduling Tools**



The High Plains Regional Climate Center is actively involved in ACIS interface and framework development. For more information about ACIS visit: <http://www.rcc-acis.org>

Regional Mesonet

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
- Numerous agricultural applications built on AWDN data
- Research-Quality real-time dataset
- Data Available through ACIS online interfaces (CLIMOD) and through the HPRCC Classic Online Service
- More than 200 stations in the High Plains Region providing valuable real-time information in rural areas (see below)

