

## Unified Climate Access Network (UCAN)

### Vision

A dynamic, nationwide climate access network -- providing the climate data, analyses, and knowledge required by climate data users.

### What is the Unified Climate Access Network?

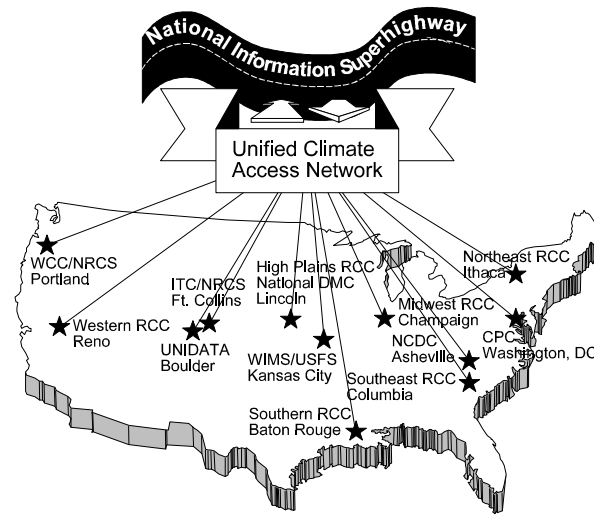
UCAN is a consortium of federal and state agencies that have joined together to unify access and availability of climate data and information for natural resource management.

UCAN will provide users with "virtual access" via the *Internet* to thousands of climate datasets collected by scores of federal, state, and county networks during the last 100+ years. These datasets provide the user with information in geographic areas previously believed to be uninstrumented.

In addition to new datasets, users will be able to run a wide variety of climate applications specifically tailored to meet their needs. These include, but are not limited to, statistical averages, frequency analyses, spatial mapping and risk analyses.

### UCAN Goals:

- Provide national leadership in climate technology;
- Support a national, on-line climate database accessible via Internet in support of natural resource management and climate research;
- Provide appropriate climatic data and analysis products directly supported by the on-line database;
- Provide a seamless, national distribution network for climatic products via the Internet;
- Provide error free, serially complete, spatially representative and timely climatic data;
- Provide training, educational materials and workshops to improve the use of climatic information in all sectors of the user community.



## Catalog of Data and Information

### Historical Climatic Data:

#### 15-Minute, Hourly, Daily, Monthly, Annual

- Precipitation
- Air and Soil Temperatures
- Evaporation
- Wind Speed/Direction/Total Movement
- Snowfall, Snow Depth, Snow Water Equivalent
- Solar Radiation

### Climate Interpretations (Spatial Analyses, Probabilities and Statistical Summaries)

- GIS Precipitation and Temperature Layers
- Temperature and Precipitation Summaries
- Daily, Weekly, Monthly & Annual Normals
- Frost Free Days & Growing Season Lengths
- Wetland Determination Tables
- Evapotranspiration Estimates
- Construction Days
- Palmer Drought Index
- Standardized Precipitation Index
- Rainfall Frequencies
- Climate Generation Parameters

### Regional Climate Networks Available

- High Plains Regional Climate Center
- Midwest Regional Climate Center
- Southeast Environmental Data Network
- SNOTEL (NRCS), RAWS (BLM, FS) AGRIMET (BuRec)
- State Networks (ALERT, etc.)

### Climate Information in Near Real-Time

Beyond historical datasets, UCAN provides access to near real-time climate data essential for integrated climate monitoring. Integrated climate monitoring provides users with a complete picture of how the current climate is affecting natural resources and a set of tools for risk analysis and short or long term planning.

### Drought Management and Mitigation

The NDMC provides users with rapid access to information on drought conditions, monitoring and assessment techniques along with mitigation and preparedness technologies.

### Long-Lead Climate Outlooks

UCAN is a conduit for the new Long-Lead Multi-Season Climate Outlook product available from the Climate Prediction Center (CPC) through the Regional Climate Centers.

### Climate Knowledge and Expertise

UCAN climate professionals provide national, regional, and state level expertise in the interpretation and application of a wide variety of climate information and analyses.

### Educational Materials and Workshops

UCAN members sponsor a broad spectrum of resource application and spatial modeling workshops. These fully documented workshops are designed for resource managers who need to access climate information to make informed management decisions.

## Customers

### Federal Agencies

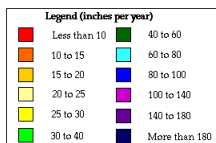
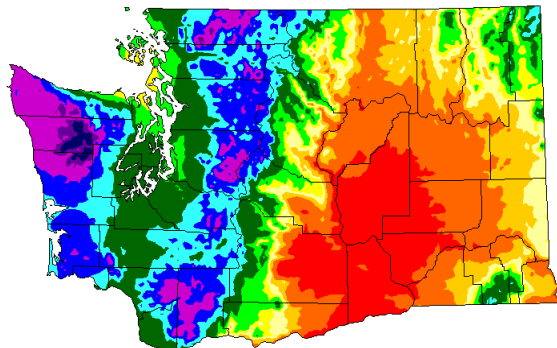
Those performing natural resource management that require climate information and interpretations including:

- Agricultural Research Service
- Bureau of Indian Affairs
- Bureau of Land Management
- Bureau of Reclamation
- Coop. State Research Exten. Ed. Service
- Corps of Engineers
- Environmental Protection Agency
- USDA Forest Service
- National Park Service
- National Weather Service
- Natural Resources Conservation Service
- United States Geological Survey

### State Agencies

Those implementing federal and state regulations and providing guidance to county governments:

- Drought and water resource planning councils
- Economic consortiums
- Emergency preparedness organizations
- Planning, zoning, and revenue entities
- Recreation and tourism organizations



Average Annual Precipitation  
State of Washington

Units: inches  
Period: 1961-1990

Oregon Climate Service, 1995

## Customers

### Individuals and Businesses

Those performing services supporting economic growth and resource management:

- Agricultural and Forestry
- Construction and Engineering
- Consulting Meteorologists
- Education
- Energy
- Health
- Insurance
- Landscape Architects
- Lawyers
- Manufacturing
- Media
- Recreation, Tourism and Leisure
- Retailing and Services
- Transportation
- Water Utilities

### UCAN Members

- High Plains Climate Center(HPRCC)
- Midwest Climate Center (MRCC)
- Northeast Regional Climate Center (NRCC)
- Southeast Regional Climate Center (SERCC)
- Southern Regional Climate Center (SRCC)
- Western Regional Climate Center (WRCC)
- National Climatic Data Center (NCDC)
- World Agricultural Outlook Board (WAOB)
- Natural Resources Conservation Service, National Water and Climate Center (NWCC)
- USDA Forest Service (FS)
- National Drought Mitigation Center (NDMC)
- Climate Prediction Center (CPC)
- State Climatologists
- University Corporation for Atmospheric Research (UCAR/UNIDATA)

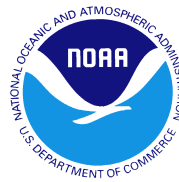
### For more information about UCAN contact:

<http://www.srcc.lsu.edu/ucan.net/UCAN.html>

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# Unified Climate Access Network (UCAN)

A description of data and information available for resource management



**Climate Information Now for the Next Century**

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