

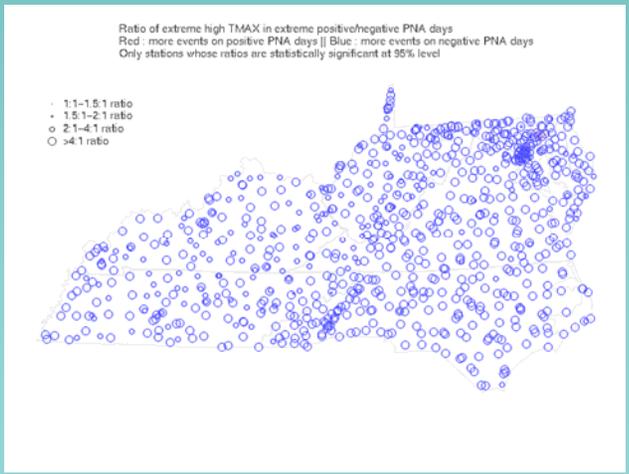
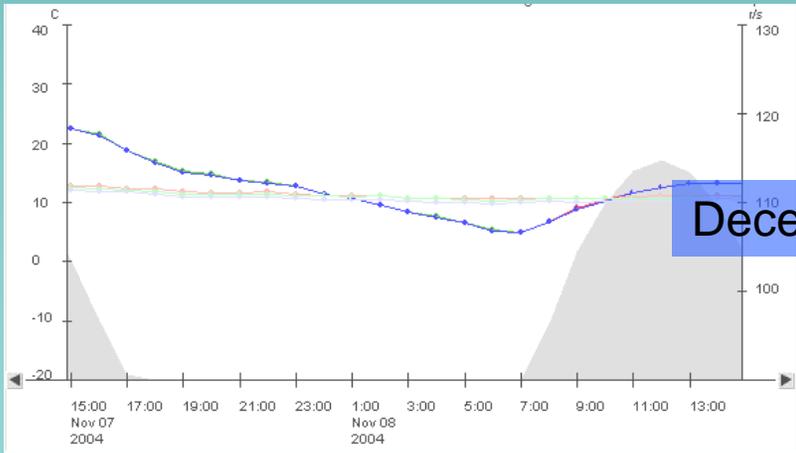
Station: KY, (Unattended) Phenix
 5 April 1974

SURFACE WEATHER OBSERVING

TIME	SEA LEVEL PRESSURE	SEA LEVEL TEMPERATURE	SEA LEVEL WIND	SEA LEVEL WIND DIR	SEA LEVEL WIND GUST	SEA LEVEL RELATIVE HUMIDITY	SEA LEVEL DEW POINT	SEA LEVEL VISIBILITY	SEA LEVEL CLOUDS	SEA LEVEL WEATHER	SEA LEVEL COMMENTS
0000	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0100	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0200	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0300	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0400	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0500	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0600	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0700	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0800	1000.0	10.0	10	090	10	70	10.0	10	0	0	
0900	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1000	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1100	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1200	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1300	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1400	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1500	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1600	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1700	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1800	1000.0	10.0	10	090	10	70	10.0	10	0	0	
1900	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2000	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2100	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2200	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2300	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2400	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2500	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2600	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2700	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2800	1000.0	10.0	10	090	10	70	10.0	10	0	0	
2900	1000.0	10.0	10	090	10	70	10.0	10	0	0	
3000	1000.0	10.0	10	090	10	70	10.0	10	0	0	

Climate on the Web

and a few other notes of interest...



National Operational Hydrologic Remote Sensing Center

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[Snow Information](#)

[National Analyses](#)
[Interactive Maps](#)
[3D Visualization](#)
[Airborne Surveys](#)
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NOAA's Source for Snow Information

The National Operational Hydrologic Remote Sensing Center provides comprehensive snow observations, analyses, data sets and map products for the Nation.

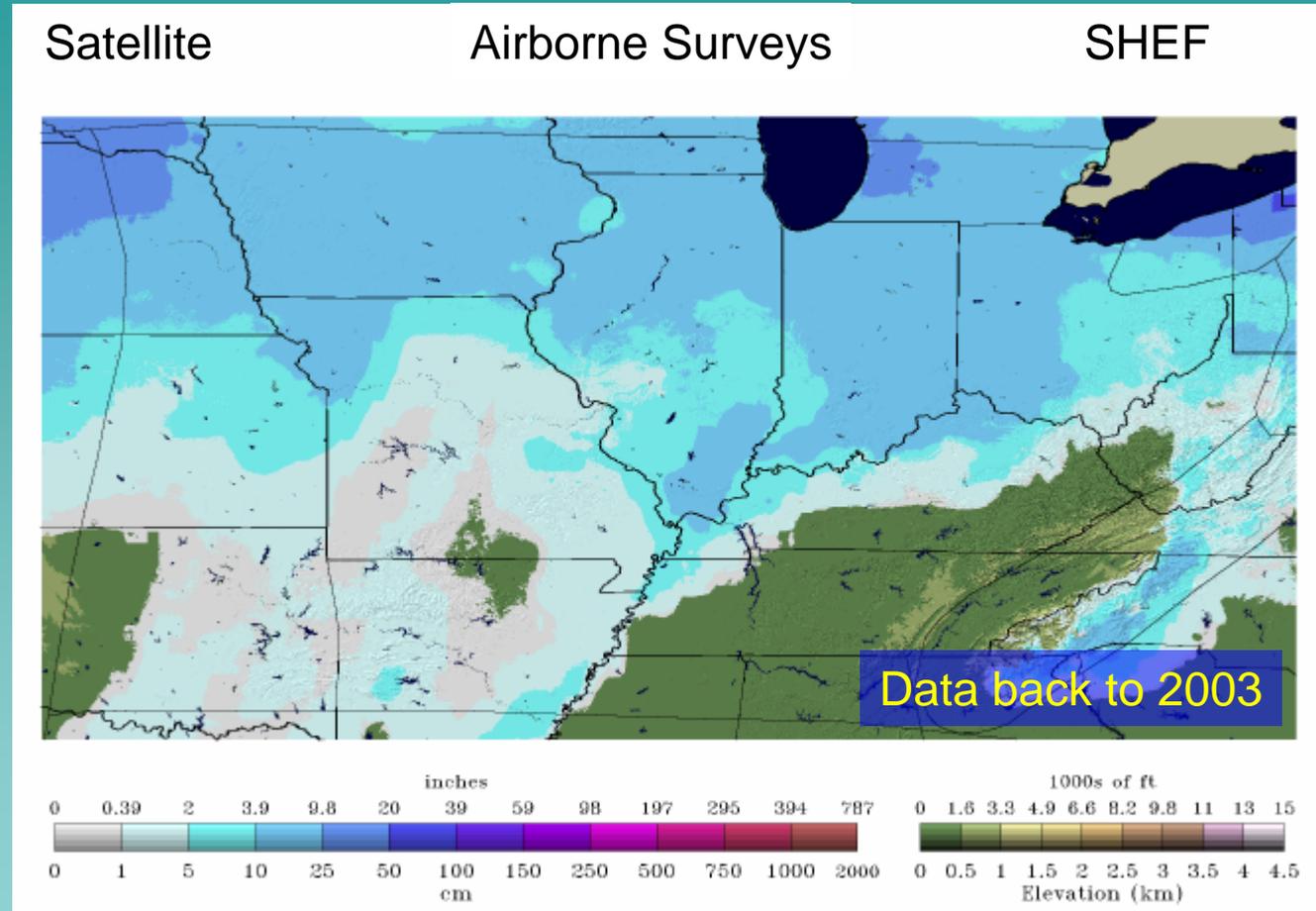
- ◆ National Snow Observation Database
- ◆ Airborne Snow Surveys
- ◆ Satellite Snow Cover Mapping
- ◆ Snow Modeling and Data Assimilation
- ◆ Analyses, Maps, and Interactive Visualization Tools
- ◆ Integrated Snow Datasets for Geospatial Applications
- ◆ Applied Snow Research

NOHRSC products and services support a wide variety of government and private-sector applications in water resource management, disaster emergency preparedness, weather and flood forecasting, agriculture, transportation and commerce.

SNOW = WATER = LIFE

<http://www.nohrsc.noaa.gov/>

National Operational Hydrologic Remote Sensing Center



<http://www.nohrsc.noaa.gov/>

NCDC Snow Climatology



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National Climatic Data Center
U.S. Department of Commerce

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United States SNOW CLIMATOLOGY

[Background discussion of Snow Climatology Project.](#)

[National Snow Extremes Table.](#)

[State Snow Climatology and Extremes.](#)

<http://www.ncdc.noaa.gov/ussc/mainpage.html>

NCDC Snow Climatology

Number of Days with Daily Snowfall Amount ≥ 1.0 ".

BEREA 1 W, Kentucky

Month/Season	Mean	NYRS	Q1	Median	Q3
January	1.6	33	0.0	2.0	3.0
February	1.6	37	0.5	1.0	2.5
March	0.8	42	0.0	0.0	1.0
April	0.0	44	0.0	0.0	0.0
May	0.0	45	0.0	0.0	0.0
June	0.0	47	0.0	0.0	0.0
July	0.0	46	0.0	0.0	0.0
August	0.0	47	0.0	0.0	0.0
September	0.0	47	0.0	0.0	0.0
October	0.0	47	0.0	0.0	0.0
November	0.4	41	0.0	0.0	1.0
December	0.9	34	0.0	1.0	2.0

<http://www.ncdc.noaa.gov/ussc/mainpage.html>

NCDC Snow Climatology

Earliest, Latest, and Median Dates of the First 1.0" Snowfall.

BEREA 1 W, Kentucky

Month/Season	Earliest	Latest	Median	NYRS
January	1/01	1/29	1/10	28
February	2/01	2/23	2/08	32
March	3/01	3/31	3/08	20
April	NA	NA	NA	0
May	NA	NA	NA	0
June	NA	NA	NA	0
July	NA	NA	NA	0
August	NA	NA	NA	0
September	NA	NA	NA	0
October	NA	NA	NA	0
November	11/02	11/29	11/24	13
December	12/03	12/31	12/15	20
Winter	12/03	2/23	1/03	41
Spring	3/01	3/31	3/08	20
Summer	NA	NA	NA	0
Autumn	11/02	11/29	11/24	13
Annual	1/01	12/25	1/20	44
August-July	11/02	2/23	12/23	42

Dates = month/day.

NYRS = Number of Years with non-missing data.

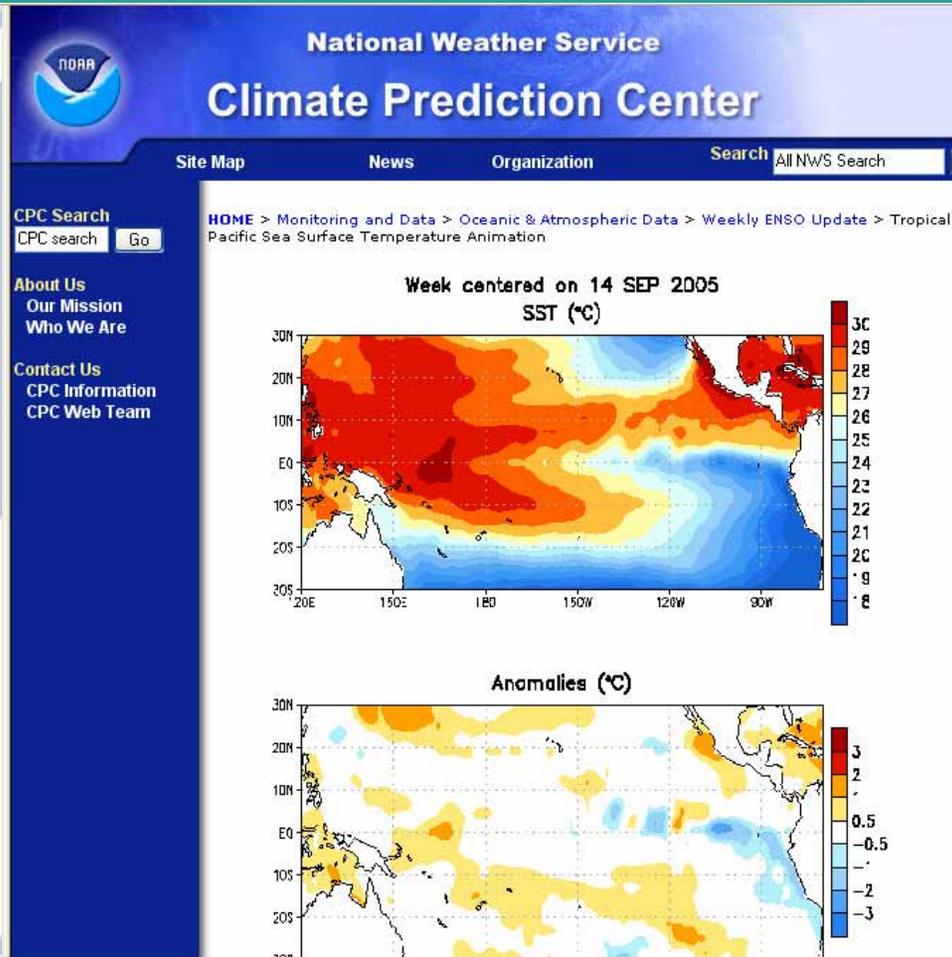
NA = Not Applicable, or insufficient data to compute.

<http://www.ncdc.noaa.gov/ussc/mainpage.html>

CPC Briefing Page

Long Lead Briefing Sequence

1. **Power Point:** CDC, CPC
2. **Verifications:** Mon, Sea
3. **SST Anim:** Gbl, Pac, Atl/E Pac
4. **Hazards:** Text, 200mb Hghts, 200mb Winds, 850mb Winds, OLR, Wind/Storm OBS
5. **EQPAC T-Depth Plot**
6. **EQPAC T-Depth Anim:** Wk, Mon
7. **ENSO Bull:** Text, Fig 1, Fig 2, Fig 3, Fig 4
8. **Sea Level Anim**
9. **TAO Data Plots**
10. **7d SST:** Pac, Atl/E Pac
11. **Obs P:** 1/7d, 30d, 90d
12. **Z Loops:** NH, Globe
13. **Indices**
14. **Rivers:** Map, Table
15. **Cities Temp**
16. **Cities Precip**
17. **OCN, EOCN**
18. **ENS CCA**
19. **Soil Mst Mon & Pred**
20. **CAS:** Mon, Sea, Skill, IC, Soil F
21. **SST CA:** Menu, 500mb, Temp, Prec, SST



<http://www.cpc.ncep.noaa.gov/products/predictions/90day/tools/briefing/index.html>

CPC Briefing Page

Tons of information, including:

- Pacific, Atlantic, and global **SST and anomaly animations** of past three months
- Forecast **verifications**
- Principal **storm tracks** past couple of weeks and upcoming week
- ENSO Diagnostic discussion**, including SST anomalies and chart of model forecasts and spread
- Observed **precip** for time periods up to past 90 days
- 500HPa height anomaly** loops for NH and globe
- Forecasts from the many different **models** CPC uses
- NH **500HPa heights and anomalies back to 1979**
- CPC **Forecast archive** back to 1995

<http://www.cpc.ncep.noaa.gov/products/predictions/90day/tools/briefing/index.html>

Past Weather Patterns

NOAA NWS NCEP REANALYSIS DATA DISPLAY BY NCEP HPC

ADJUST DATES ON THE RIGHT TO DISPLAY IMAGES

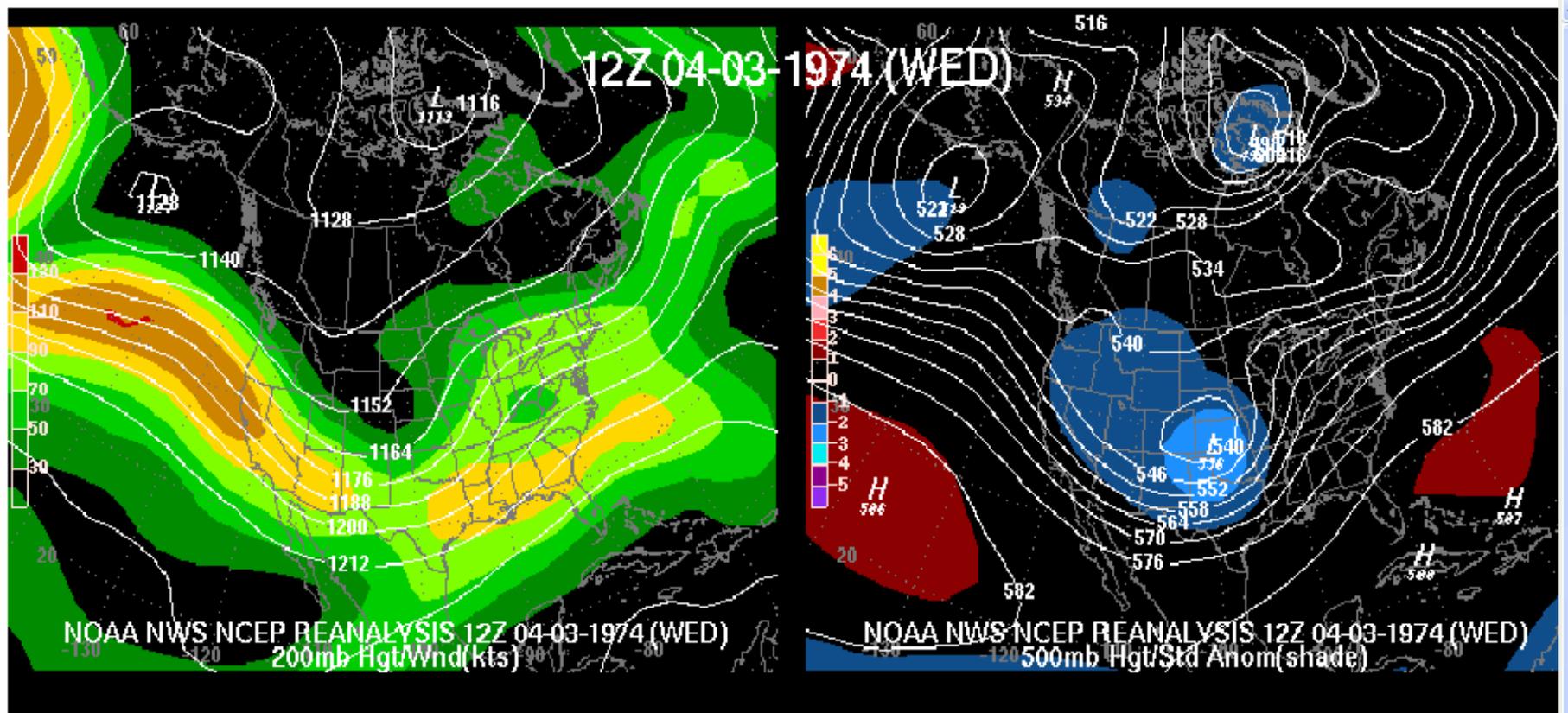
**NOAA NWS NCEP
REANALYSIS DATA
DISPLAY BY NCEP HPC**

CURRENT DATE	<i>(Single Images)</i>	<input type="button" value="+"/>	<input type="button" value="+"/>
<input type="text" value="1950"/>	<input type="text" value="01"/>	<input type="text" value="01"/>	<input type="text" value="00"/>
YEAR	MONTH	DAY	CYCLE

END DATE	<i>(loops only)</i>	<input type="button" value="Loop"/>	
<input type="text" value="2003"/>	<input type="text" value="12"/>	<input type="text" value="31"/>	<input type="text" value="12"/>
YEAR	MONTH	DAY	CYCLE

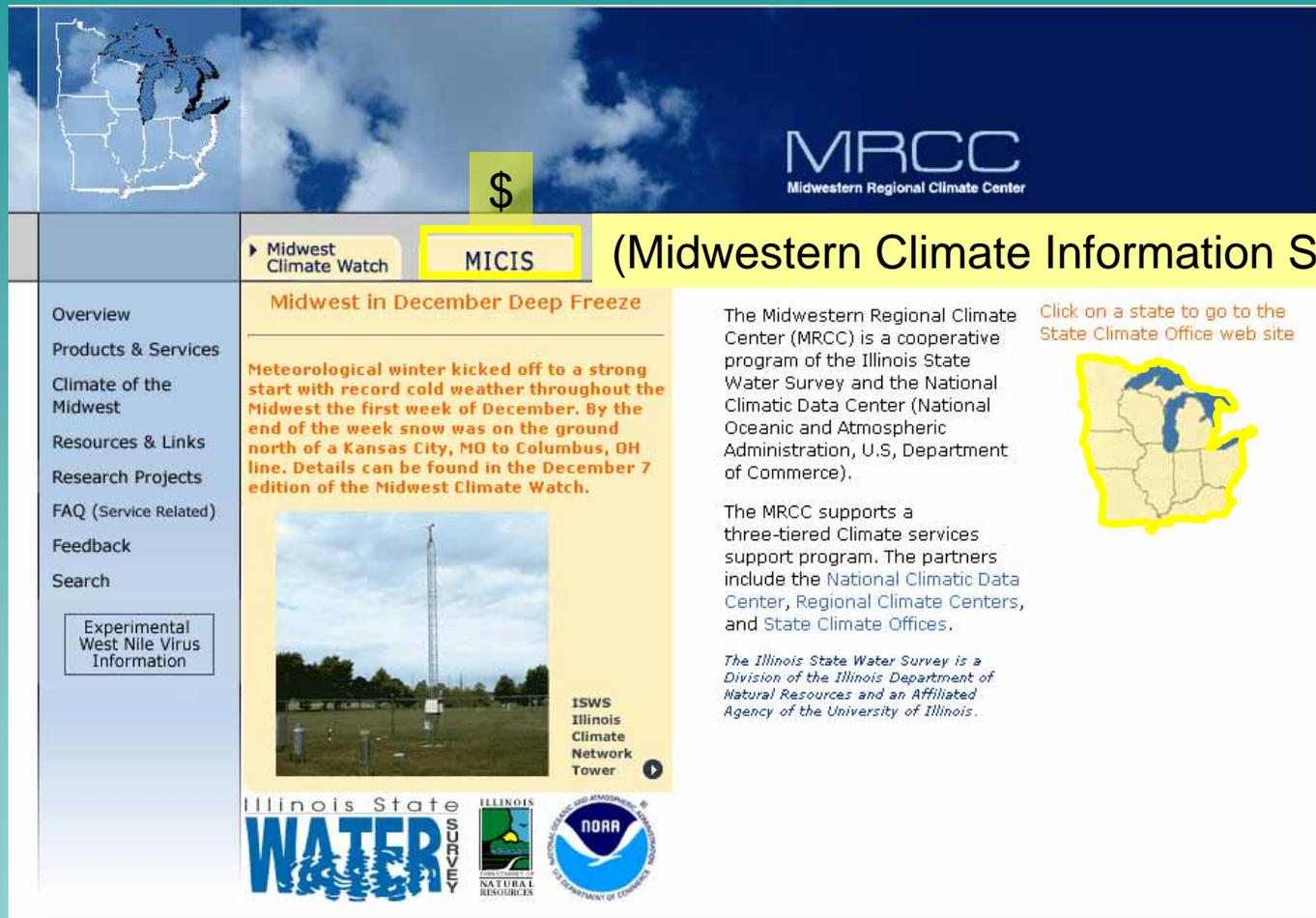
<http://www.hpc.ncep.noaa.gov/ncepreanal/>

Past Weather Patterns



<http://www.hpc.ncep.noaa.gov/ncepreamal/>

Midwest Regional Climate Center



MRCC
Midwestern Regional Climate Center

Midwest Climate Watch **MICIS** (Midwestern Climate Information System)

Overview
Products & Services
Climate of the Midwest
Resources & Links
Research Projects
FAQ (Service Related)
Feedback
Search

Experimental West Nile Virus Information

Midwest in December Deep Freeze

Meteorological winter kicked off to a strong start with record cold weather throughout the Midwest the first week of December. By the end of the week snow was on the ground north of a Kansas City, MO to Columbus, OH line. Details can be found in the December 7 edition of the Midwest Climate Watch.

ISWS
Illinois
Climate
Network
Tower

Click on a state to go to the State Climate Office web site

The Midwest Regional Climate Center (MRCC) is a cooperative program of the Illinois State Water Survey and the National Climatic Data Center (National Oceanic and Atmospheric Administration, U.S. Department of Commerce).

The MRCC supports a three-tiered Climate services support program. The partners include the National Climatic Data Center, Regional Climate Centers, and State Climate Offices.

The Illinois State Water Survey is a Division of the Illinois Department of Natural Resources and an Affiliated Agency of the University of Illinois.

Illinois State WATER SURVEY
ILLINOIS NATURAL RESOURCES
NOAA NATIONAL OCEANOGRAPHIC AND ATMOSPHERIC ADMINISTRATION U.S. DEPARTMENT OF COMMERCE

<http://mcc.sws.uiuc.edu/>

Midwest Regional Climate Center

Daily Climate Data between Two Dates

From the Midwestern Regional Climate Center

STATION: BARDSTOWN, KY (Station ID: 150389)

Year	Mo	Dy	Low (F)	High (F)	Degree Days
1911	11	01	44	61	12
1911	11	02	25	56	24
1911	11	03	23	45	31
1911	11	04	31	49	25
1911	11	05	37	44	24
1911	11	06	44	59	13
1911	11	07	45	72	6
1911	11	08	38	62	15
1911	11	09	42	49	19
1911	11	10	45	57	14
1911	11	11	56	66	4
1911	11	12	24	75	15
1911	11	13	14	27	44
1911	11	14	27	42	30
1911	11	15	31	50	24
1911	11	16	28	60	21
1911	11	17	35	60	17
1911	11	18	32	68	15
1911	11	19	32	50	24
1911	11	20	38	48	22
1911	11	21	28	52	25

<http://mcc3.sws.uiuc.edu/cgi-bin/greet.cgi>

Midwest Regional Climate Center

Threshold Search for Runs of Special Events

From the Midwestern Regional Climate Center

BARDSTOWN

years 1888 to 2005 month 1 day 1 to month 12 day 31

Conditions are :

Maximum Temperature less than or equal to 32 deg F

<-----Time Period----->	# of days
02/06/1899 to 02/14/1899	9

<http://mcc3.sws.uiuc.edu/cgi-bin/greet.cgi>

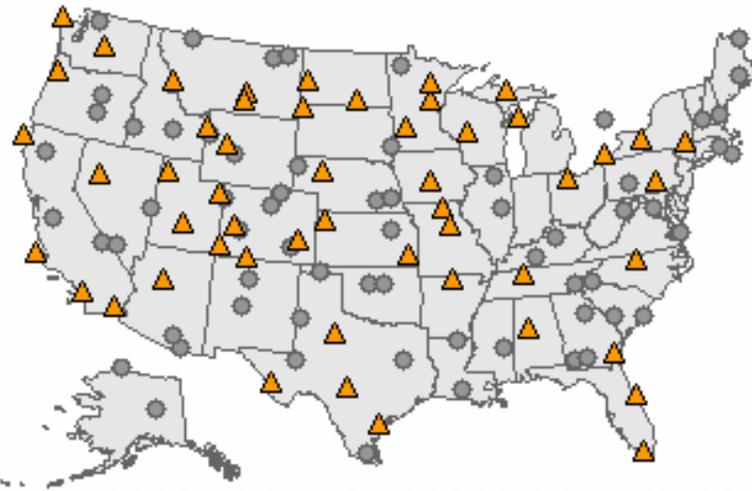
U.S. Climate Reference Network

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US Climate Reference Network

Planned CRN Sites



Program

Sites

Instruments

Science

Data

<http://www.ncdc.noaa.gov/oa/climate/uscrn/>

U.S. Climate Reference Network



Station Information:
KY Versailles 3 NNW
University of Kentucky (Woodford County Site)



[Select Station from Map](#)

[Change Date/Time](#)
Dec 10 2005 7:00 PM US/Eastern

Period of record is
Nov 20 2001
to Dec 10 2005

[Calculated Temperature:](#) 30.7°F / -0.7°C

[Calculated Precipitation:](#) 0.00 in / 0.0 mm

[Last 12 Hours](#)

[Sensor Data](#) ← Daily, weekly, and monthly graphs of temperature, precipitation, wind speed, and RH

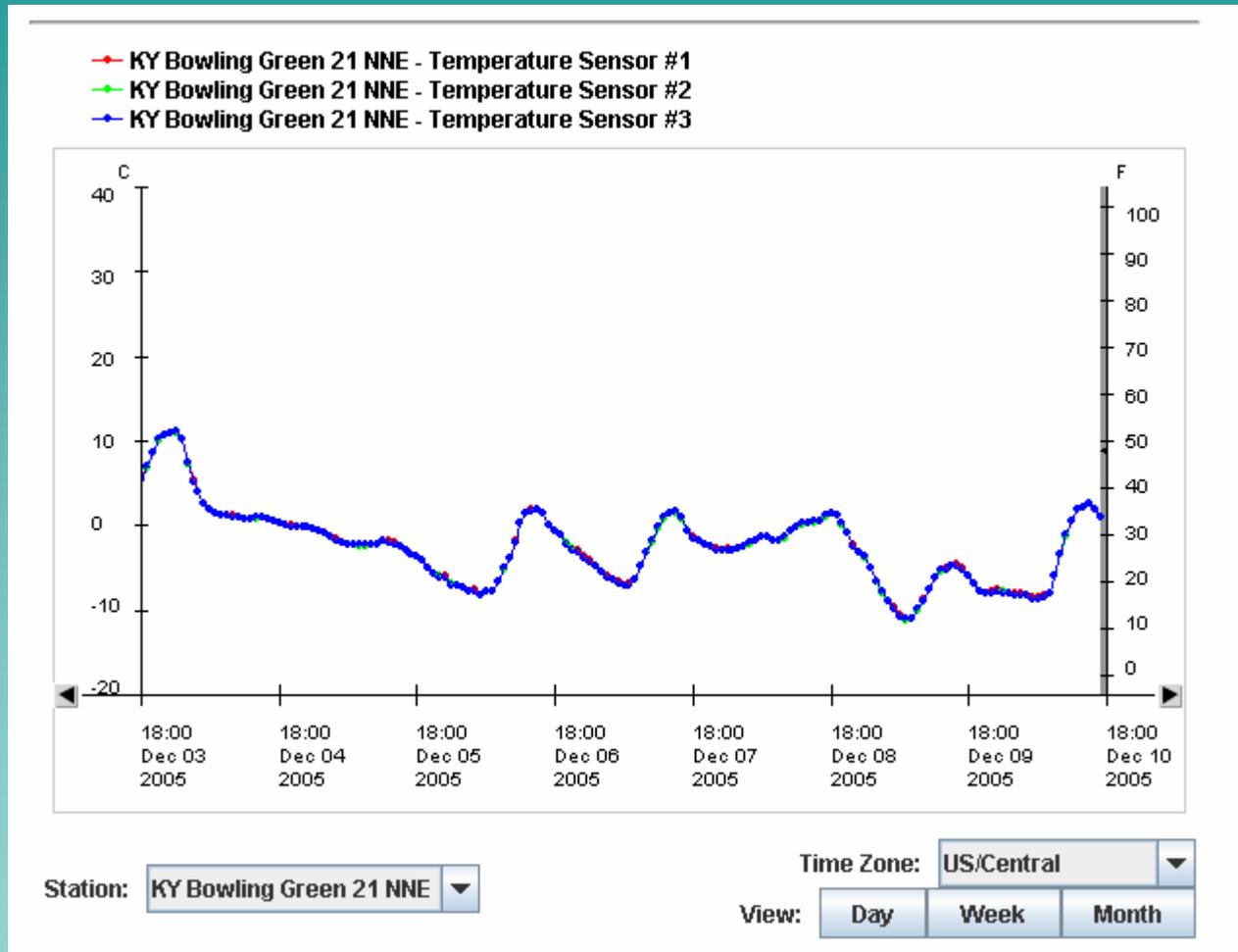
[Daily Summary](#)

[Monthly Summary](#)

[List All Stations](#)

<http://www.ncdc.noaa.gov/oa/climate/uscrn/>

U.S. Climate Reference Network



<http://www.ncdc.noaa.gov/oa/climate/uscrn/>

NCDC Climate Monitoring

NOAA Satellite and Information Service
National Environmental Satellite, Data, and Information Service (NESDIS)

National Climatic Data Center
U.S. Department of Commerce

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State of the Climate	▶
BAMS Annual State of the Climate Reports	▶
U.S. Temperatures and Precipitation	▶
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Climate and Network Monitoring	▶
Drought Monitoring	▶
Snow Data	▶
Other Products	▶

Search the Climate Monitoring site: ArcGIS Search

State of the Climate

- [Latest Report](#)
- [2005 Report](#)

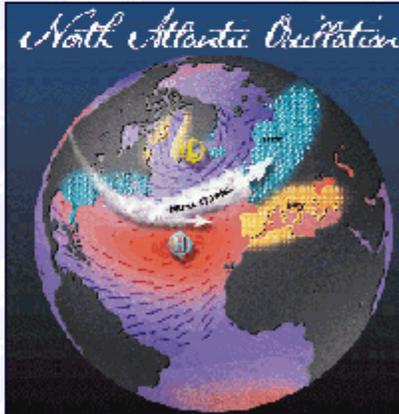
<http://www.ncdc.noaa.gov/oa/climate/research/monitoring.html>

NCDC Climate Monitoring



Monthly Teleconnection Indices

- ◆ [Southern Oscillation Index](#)
- ◆ [SST Anomalies in Nino 3.4 and 4 Regions](#)
- ◆ [Outgoing Longwave Radiation](#)
- ◆ [Pacific Decadal Oscillation](#)
- ◆ [North Atlantic Oscillation](#)
- ◆ [Arctic Oscillation](#)
- ◆ [Pacific-North America Index](#)



North Atlantic Oscillation

One-stop shopping for teleconnection indices

<http://www.ncdc.noaa.gov/oa/climate/research/teleconnect/teleconnect.html>

NCDC Climate Monitoring

 **NOAA Satellite and Information Service**
National Environmental Satellite, Data, and Information Service (NESDIS)

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U.S. Snow Monitoring

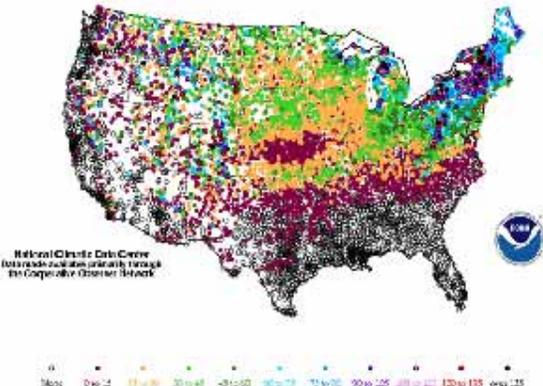
Historical Monthly & Seasonal Snowfall Maps

Historical monthly and seasonal snowfall maps created from quality-controlled data are now available using the options below. *Select from the options below and click on "Submit" to display your selection. For seasonal or winter maps, select **END** year under "Year" option.*

Period: **Year:**

Map-Type:

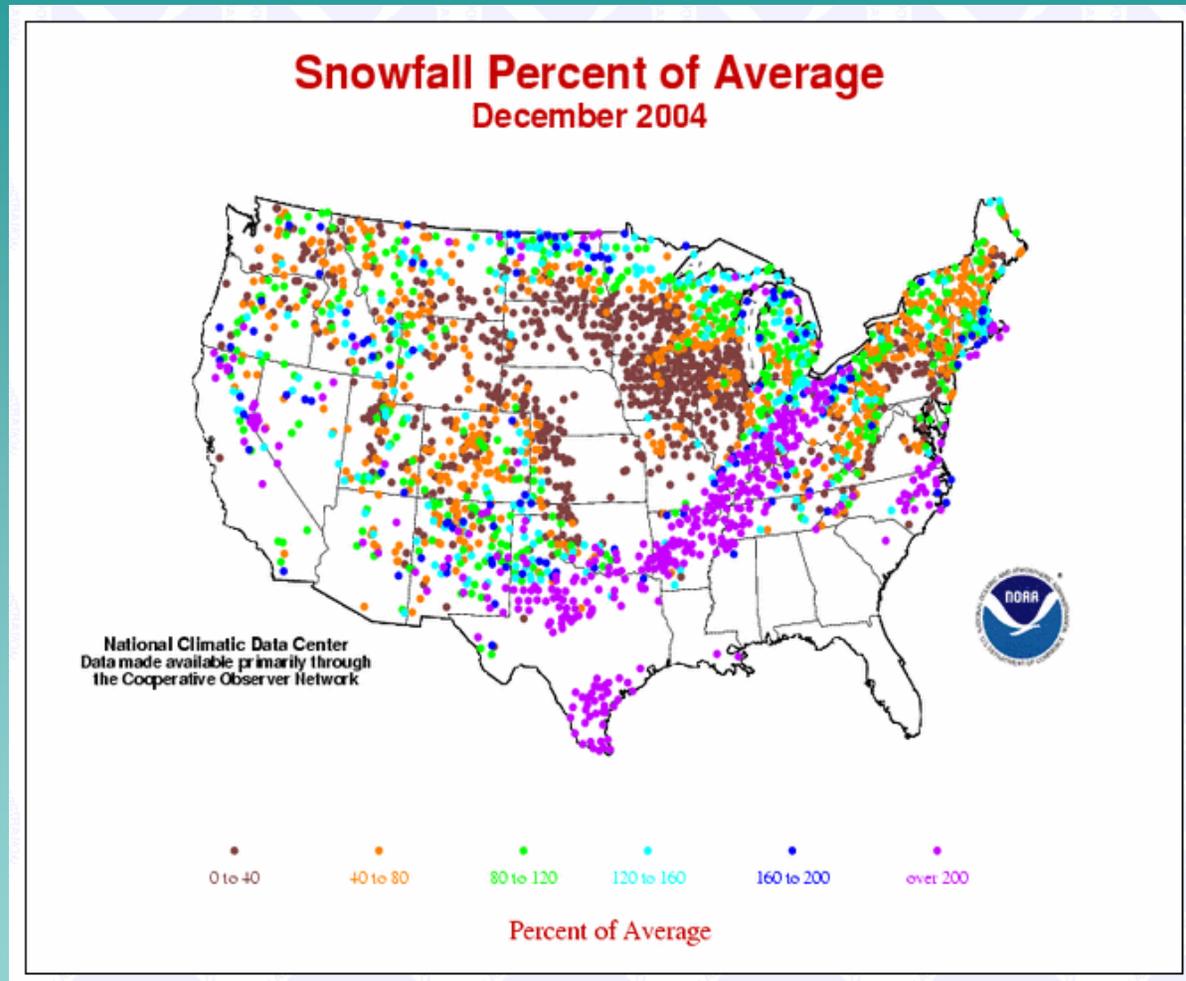
Snowfall
July 2002 to June 2003



National Climatic Data Center
Data made available primarily through
the Cooperative Observer Network

0 0 to 1 1 to 2 2 to 3 3 to 4 4 to 5 5 to 6 6 to 7 7 to 8 8 to 9 9 to 10 10 to 11 11 to 12 12 to 13 13 to 14 14 to 15 15 to 16 16 to 17 17 to 18 18 to 19 19 to 20 20 to 21 21 to 22 22 to 23 23 to 24 24 to 25 25 to 26 26 to 27 27 to 28 28 to 29 29 to 30 30 to 31 31 to 32 32 to 33 33 to 34 34 to 35 35 to 36 36 to 37 37 to 38 38 to 39 39 to 40 40 to 41 41 to 42 42 to 43 43 to 44 44 to 45 45 to 46 46 to 47 47 to 48 48 to 49 49 to 50 50 to 51 51 to 52 52 to 53 53 to 54 54 to 55 55 to 56 56 to 57 57 to 58 58 to 59 59 to 60 60 to 61 61 to 62 62 to 63 63 to 64 64 to 65 65 to 66 66 to 67 67 to 68 68 to 69 69 to 70 70 to 71 71 to 72 72 to 73 73 to 74 74 to 75 75 to 76 76 to 77 77 to 78 78 to 79 79 to 80 80 to 81 81 to 82 82 to 83 83 to 84 84 to 85 85 to 86 86 to 87 87 to 88 88 to 89 89 to 90 90 to 91 91 to 92 92 to 93 93 to 94 94 to 95 95 to 96 96 to 97 97 to 98 98 to 99 99 to 100 100 to 101 101 to 102 102 to 103 103 to 104 104 to 105 105 to 106 106 to 107 107 to 108 108 to 109 109 to 110 110 to 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NCDC Climate Monitoring



<http://www.ncdc.noaa.gov/oa/climate/research/snow/historical.html>

NCDC Climate Monitoring

The screenshot shows the NOAA Satellite and Information Service (NESDIS) and National Climatic Data Center (NCDC) website. The breadcrumb trail is DOC > NOAA > NESDIS > NCDC. The page title is 'U.S. Climate Normals' and the sub-section is 'Product Selection'. The main product is 'FREEZE/FROST DATA - CLIM20 supp no. 1'. The description states: 'This product contains station freeze/frost probability tables for each state. Given are the dates of probable first and last occurrence, during the year beginning August 1 and ending July 31 of freeze related temperatures, probable duration where the temperature exceeds certain freeze related values, and the probability of experiencing a given temperature, or less, during the year period August 1 through July 31. For the fall and spring dates of occurrence, and freeze-free period, probabilities are given for three temperatures (36, 32, and 28 °f) at three probability levels (10, 50, and 90 percent). Click on the "Text" icon for complete documentation.' Below the description, there are three options: 'Select a State(PDF):', 'All States(ASCII):', and 'Station List:'. The 'Select a State(PDF):' option has a dropdown menu with 'Click State Name' and a list of states: Alabama, Alaska, Arizona, Arkansas, and California. The 'All States(ASCII):' option has a link for 'Freeze/Frost Data'. The 'Station List:' option has a link for 'Freeze/Frost List.pdf'. The left sidebar contains navigation links: Overview, Product Selection, Unlimited Access, and NWS Inquiries. The top right has a search field and a 'Search NCDC' button.

http://www5.ncdc.noaa.gov/cgi-bin/climatenormals/climatenormals.pl?directive=prod_select2&prodtype=CLIM2001&subnum=

NCDC Climate Monitoring

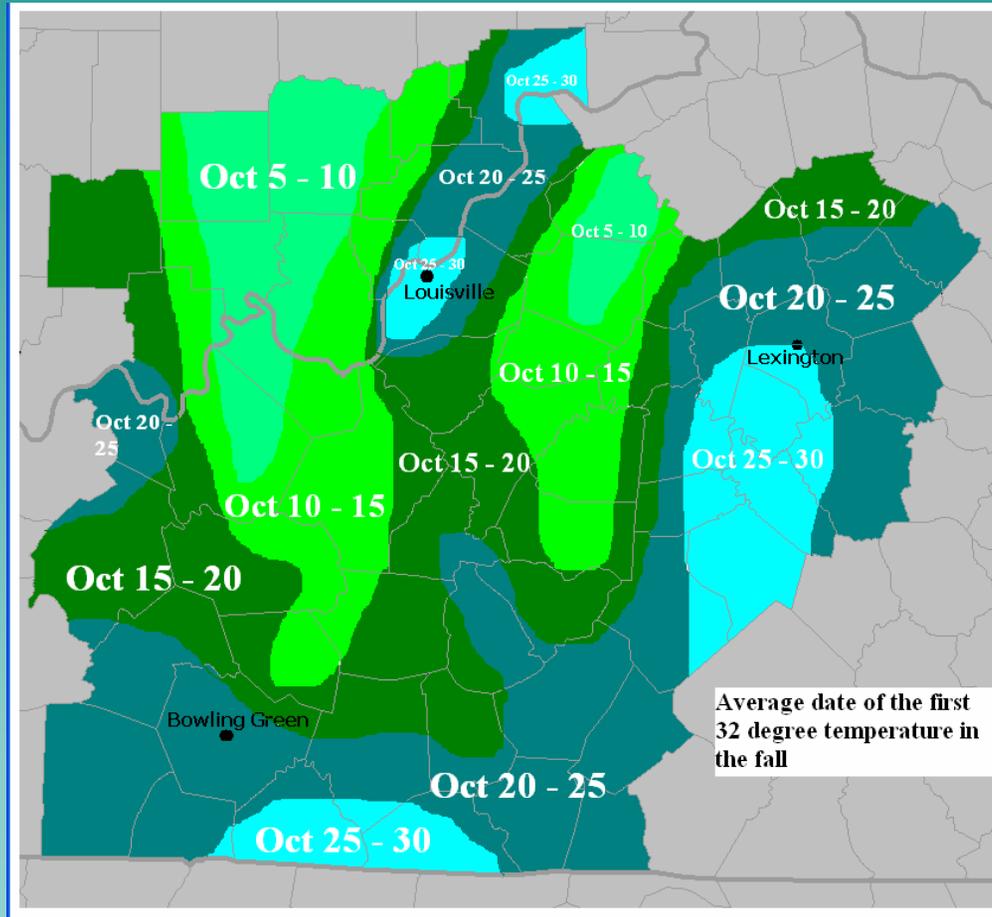
Freeze / Frost Occurrence Data

All probabilities in whole percent. See notes for probability level description.

- Indicates the probability of occurrence of threshold temperature is less than indicated probability.

State And Station Name	T h r e s h o l d (F)	Spring (Date)			Fall (Date)			Freeze Free Period (Days)		
		Probability Level (1)			Probability Level (2)			Probability Level (3)		
		90	50	10	10	50	90	10	50	90
Kentucky										
ASHLAND	36 32 28	Apr22 Apr16 Apr02	May14 May04 Apr21	Jun05 May21 May10	Sep12 Sep28 Oct06	Sep30 Oct13 Oct23	Oct18 Oct27 Nov09	167 185 211	139 161 184	111 137 158
BARBOURVILLE	36 32 28	Apr20 Apr09 Mar24	May03 Apr24 Apr06	May17 May08 Apr19	Sep26 Oct09 Oct12	Oct10 Oct22 Oct31	Oct24 Nov04 Nov19	179 199 228	159 181 208	139 163 187
BARDSTOWN 5 E	36 32 28	Apr12 Apr03 Mar22	May01 Apr20 Apr05	May19 May06 Apr20	Sep24 Oct03 Oct11	Oct06 Oct16 Oct27	Oct18 Oct29 Nov12	178 201 223	158 179 204	138 157 186
BARDWELL 2 E	36 32 28	Apr03 Mar27 Mar15	Apr19 Apr09 Mar30	May05 Apr21 Apr14	Sep30 Oct03 Oct22	Oct10 Oct19 Nov08	Oct21 Nov04 Nov25	192 211 245	174 192 222	156 174 199
BARREN RIVER LAKE	36 32 28	Apr11 Mar21	Apr29 Apr15	May17 Apr20	Sep29 Oct05	Oct12 Oct21	Oct24 Nov05	186 207	165 188	144 160

Frost/Freeze Maps



<http://www.crh.noaa.gov/lmk/?n=frostfreeze>

UNL Drought Source

What is Drought?

Planning for Drought

Monitoring Drought

Understanding Your Risk

Mitigating Drought

About the NDMC
Contact Information
What's New
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Drought Network News
Publications
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NDMC Home Page

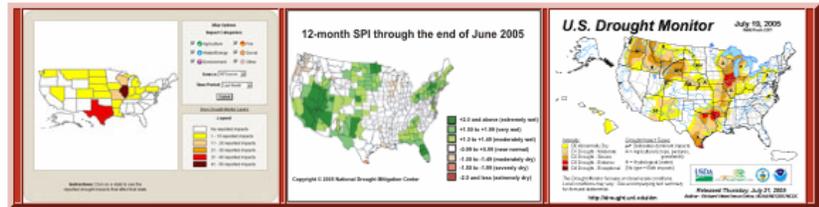
Quick Links:

Drought for Kids
For Media
Other Drought-related Sites
U.S. Drought Monitor
NDMC's Drought Impact Reporter

Monitoring Drought

Because there is no single definition for drought, its onset and termination are difficult to determine. We can, however, identify various indicators of drought, and tracking these indicators provides us with a crucial means of monitoring drought. Determining which indicators to use poses more difficulties for planners: should they rely on data collected for specific parameters (such as streamflow and snowpack), or should they select one or more indices, which incorporate and weigh various types of data in various combinations? Equally important in choosing these indicators is a consideration of the type or types of water shortage facing the planner—an index or parameters well suited to agricultural concerns are of limited use to urban planners.

Highlights



The figure consists of three side-by-side maps of the United States. The first map, 'NDMC's Drought Impact Reporter', shows a color-coded map of the US with a legend for 'Drought Impact' ranging from 'No Drought Impact' (white) to 'Severe Drought Impact' (red). The second map, 'Standardized Precipitation Index', shows a color-coded map of the US with a legend for '12-month SPI through the end of June 2005' ranging from '+3.0 and above (extremely wet)' (dark green) to '-3.0 and less (extremely dry)' (dark red). The third map, 'U.S. Drought Monitor', shows a color-coded map of the US with a legend for 'Drought Severity' ranging from 'No Drought' (white) to 'Extreme Drought' (dark red). The date 'July 19, 2005' is noted in the top right corner of the third map.

NDMC's Drought Impact Reporter *Standardized Precipitation Index* *US Drought Monitor*

How to Use this Section

If you are new to the concept of monitoring drought, "[Drought Indices](#)", an NDMC white paper, will give you a good overview of the various kinds of drought indices and their uses. Two newer tools, the Standardized Precipitation Index and the Drought Monitor, are highlighted below. Use this section also to explore the many monitoring tools available on the

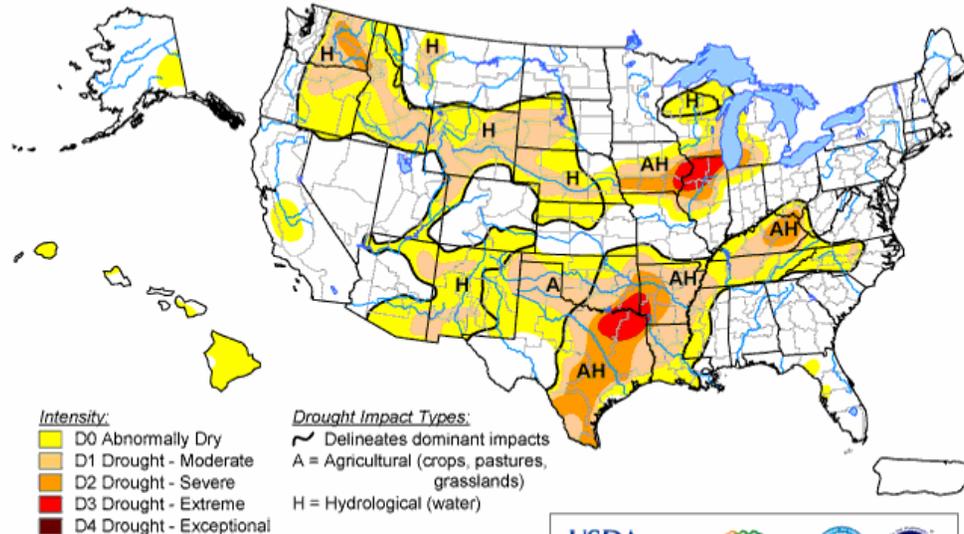
<http://drought.unl.edu/monitor/monitor.htm>

UNL Drought Source

[Drought Monitor](#) [Forecasts](#) [What's New](#) [Current Conditions](#) [About Us](#) [Archive](#) [Contact Us](#) [Links](#) [Home](#)

The data cutoff for Drought Monitor maps is Tuesday at 8 a.m. Eastern Standard Time. The maps, which are based on analysis of the data, are released each Thursday at 8:30 a.m. Eastern Time.

U.S. Drought Monitor December 6, 2005 Valid 8 a.m. EST



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, December 8, 2005
Author: Mark Svoboda and Brian Fuchs, NDMC

<http://drought.unl.edu/dm/monitor.html>

Kentucky Climate Center

The Kentucky Climate Center at Western Kentucky University

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CLIMATOGRAPHY DATA SOURCES RAINFALL FREQUENCY CONTRACT SERVICES RELATED RESOURCES

Serving Kentucky through the National Climate Services Partnership

PAST & PRESENT

- Climate Watch
- Visual Climate Explorer
- KY EON

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- Index of Graphs
- Index of Maps
- Index of Tables

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AASC
AMERICAN ASSOCIATION OF STATE CLIMATOLOGISTS

A LOOK AHEAD

- CPC Expert Assessments
- CPC Outlooks
- NWS KY Air Quality Forecast
- NWS KY Weather Forecast
- SPC Convective Outlook
- USNO Sunrise/Sunset & Moon Phases

NEWS & ANNOUNCEMENTS

October 17, 2005
WKU Geoscience Graduate Student Recognized For Research
Bowling Green, Ky. - A Western Kentucky University geoscience graduate student's research was recognized last weekend during the second Midwest Extreme and Hazardous Weather Conference.

October 1, 2005
Welcome to the New KCC Website
Bowling Green, Ky. The new Kentucky Climate Center website is finally here!

Opportunities for Graduate Study!

FEATURE STORY
DAILY CLIMATE GRAPHS

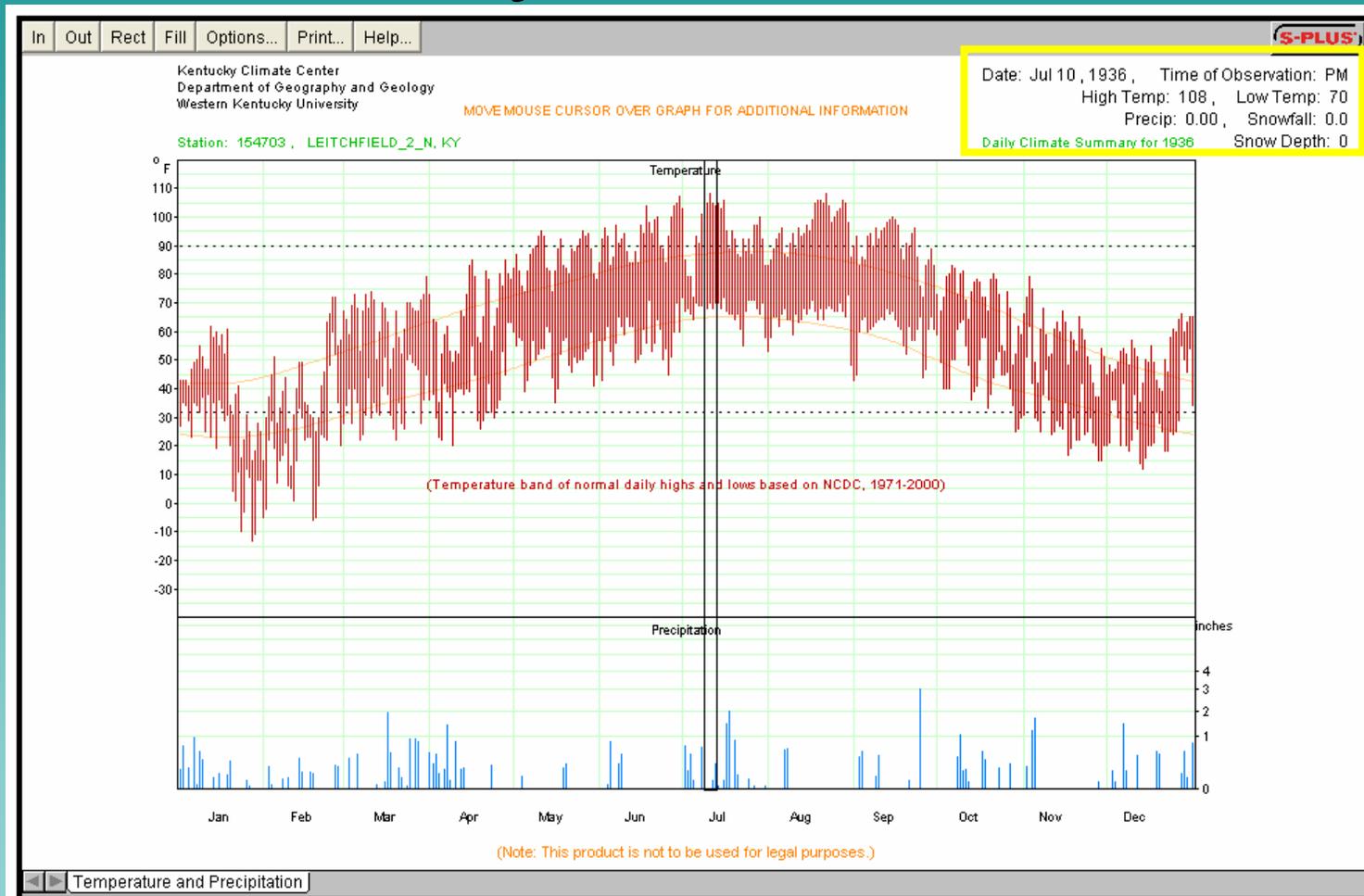
How low did the temperature drop, and how much snow fell during the late November storm of 1950? You can now explore Kentucky's climate history by browsing our daily climate graphs. These interactive displays also allow you to retrieve the daily high and low temperature and the amount of precipitation, either rain or snow, that was recorded on any date for which records were kept. Some stations have records extending back more than 100 years.

Daily weather directly affects a range of activities. Agriculture, construction, transportation, and outdoor recreation, for example, are all affected by daily weather patterns. Daily climate graphs can be used to help understand the historical impacts of weather on those activities. In the classroom, teachers can use these graphs to supplement lessons on weather and climate.

You can also use daily climate graphs to examine historically significant events. For example, you can look back to the record flooding in the Ohio River Valley during January of 1937, and compare the harsh winters of 1917-18 and 1977-78.

<http://kyclim.wku.edu/>

Kentucky Climate Center



<http://kyclim.wku.edu/DCG.html>

Kentucky Climate Center – “Climate Watch”

The Kentucky Climate Center
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CLIMATE WATCH

Last 7 Days Maps	Last 30 Days Maps	Last 90 Days Maps	Current Weather
•High Temperature (°F)	•High Temperature (°F)	•High Temperature (°F)	Saturday-December 10,2005
•High Temp. Departure (°F)	•High Temp. Departure (°F)	•High Temp. Departure (°F)	•Station Reports
•Mean Temperature (°F)	•Mean Temperature (°F)	•Mean Temperature (°F)	•Radar Images
•Mean Temp. Departure (°F)	•Mean Temp. Departure(°F)	•Mean Temp. Departure (°F)	•Satellite Images
•Low Temperature (°F)	•Low Temperature (°F)	•Low Temperature (°F)	•Maps
•Low Temp. Departure (°F)	•Low Temp. Departure (°F)	•Low Temp. Departure (°F)	
•Precipitation (in.)	•Precipitation (in.)	•Precipitation (in.)	•Watches and Warnings
•Precipitation Departure (in.)	•Precipitation Departure (in.)	•Precipitation Departure (in.)	•Special Statements
•Precipitation Percent of Mean	•Precipitation Percent of Mean	•Precipitation Percent of Mean	•Road Conditions
			Recent Climate Observations
			•NWSFO Charleston, WV
			•NWSFO Jackson, KY
			•NWSFO Louisville, KY
			•NWSFO Paducah, KY
			•NWSFO Wilmington, OH

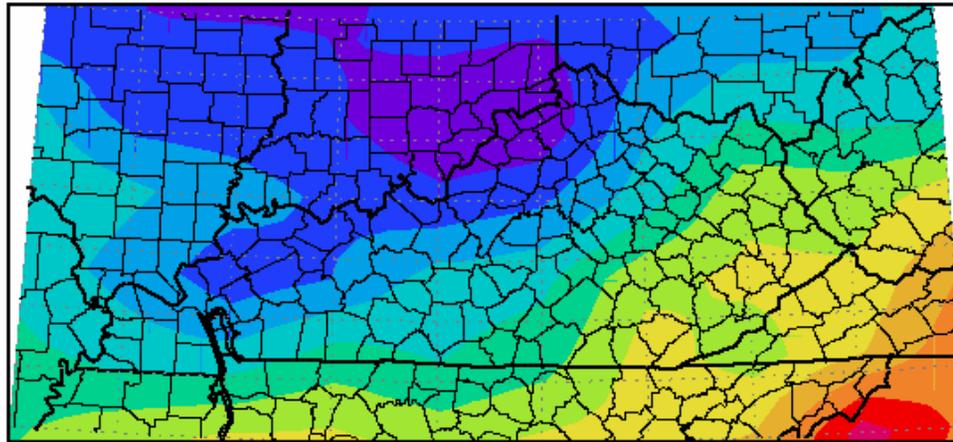
CURRENT DROUGHT STATUS FOR KENTUCKY		
US Drought Conditions	KY Drought Conditions	KY Streamflow Conditions
•Palmer Drought Severity	•Current Indices	•Map Interface
•Drought Monitor	•Weekly Trends	•List Interface
•Drought Outlook	•Historical Context	

Department of Geography and Geology • Western Kentucky University • 1906 College Heights Blvd., Bowling Green, KY. 42101

http://kyclim.wku.edu/climWatch.htm

Kentucky Climate Center – “Climate Watch”

Average Temperature Departure from Mean in Degrees F
November 10, 2005 to December 9, 2005



Kentucky State Climate Office

Bowling Green, Kentucky

<http://kyclim.wku.edu/climWatch.htm>

WSSRD

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Web Search Store Retrieve Display



Version 5.12.0.0

You will need to identify yourself. . .

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and your Password

Log In

<http://noaa.imcwv.com/>

WSSRD

RS 1439	E45 ⊕	10	T			19 25	937	TB38 T SW MOVG NE OCNL LTGIC SW	RDC
R 1455	E45 ⊕	10	T	747 78 62		19 22 31	938	TB38 SW MOVG NE OCNL LTGIC SW SDF RADAR INDICATES HOOK ECHO 30 MWSW 236/30 PK WND 20/35 29 742 19/11	RDC
S 1540	M32 ⊕	4	TRW+			24 28 07	953	TORNADO B31 JUST NORTH OF FIELD MOVG E	RDC
RS 155	E45 ⊕ 250 ⊕	7							
RS 1555	E45 ⊕ 250 ⊕	7	TRW-	926 73 64		27 22 09	932	TORNADO B31 E4Z 200 YDS NORTH OF ARPT MOVG E RB00 OCNL LTGIC CG E PK WND 24/73 37 AB 30 E 41 HAIL 1/2 IN LOWEST PRES 877 2152	RDC
RS 1614	E45 ⊕ 250 ⊕	7				21 18 02	936	TE14 MOVG E RE14 PRES RR	RDC
R 1655	45 ⊕ E250 ⊕	10		940 73 62		21 17	936	TE14 RE14 MOVG E PK WND 21/26 13	RDC
R 1755	E45 ⊕ 250 ⊕	7		940 73 62		20 15	986	TCU ALQDS	RDC
R 185	45 ⊕	7		744 70 61		18 09	937	TORNADO HAIL ⊕	RDC
R 1855	45 ⊕	7		944 70 61		18 09	937	OCNL LTGIC E	RDC
R 1955	○	7		947 72 62		20 14	936		RDC
1805	EARTHQUAKE FELT AB SDF								

<http://noaa.imcwv.com/>

WSSRD

**HISTORY OF WEATHER OBSERVATIONS
LOUISVILLE, KENTUCKY
1851-2004**

September 2004

Prepared By
Glen Conner
9216 Holland Road
Scottsville, Kentucky

This report was prepared for the Midwestern Regional Climate Center
under the auspices of the Climate Database Modernization Program,
NOAA's National Climatic Data Center, Asheville, North Carolina.

Louisville and
Newport
Barracks
available for
Kentucky

<http://noaa.imcwv.com/>

Joint Institute for the Study of the Atmosphere and Ocean

Extreme daily weather events during winter in the US and their frequency under major teleconnection patterns

COOP Midwest



-Select from all regions-

Ratio maps for weather variables

[TMAX](#)

[NAM](#) [PNA](#) [CTI](#)

[TMIN](#)

[NAM](#) [PNA](#) [CTI](#)

[PRCP](#)

[NAM](#) [PNA](#) [CTI](#)

[SNOW](#)

[NAM](#) [PNA](#) [CTI](#)

Results for individual stations

Select a station by:

[Map of region](#)

[State lists](#)

Select just one type of result by:

[Regional map](#)

Data tables

[Full listing](#)

Reference information

[Help index](#)

Observed weather variables

[TMAX](#) | [TMIN](#) | [PRCP](#) | [SNOW](#)

The teleconnection patterns

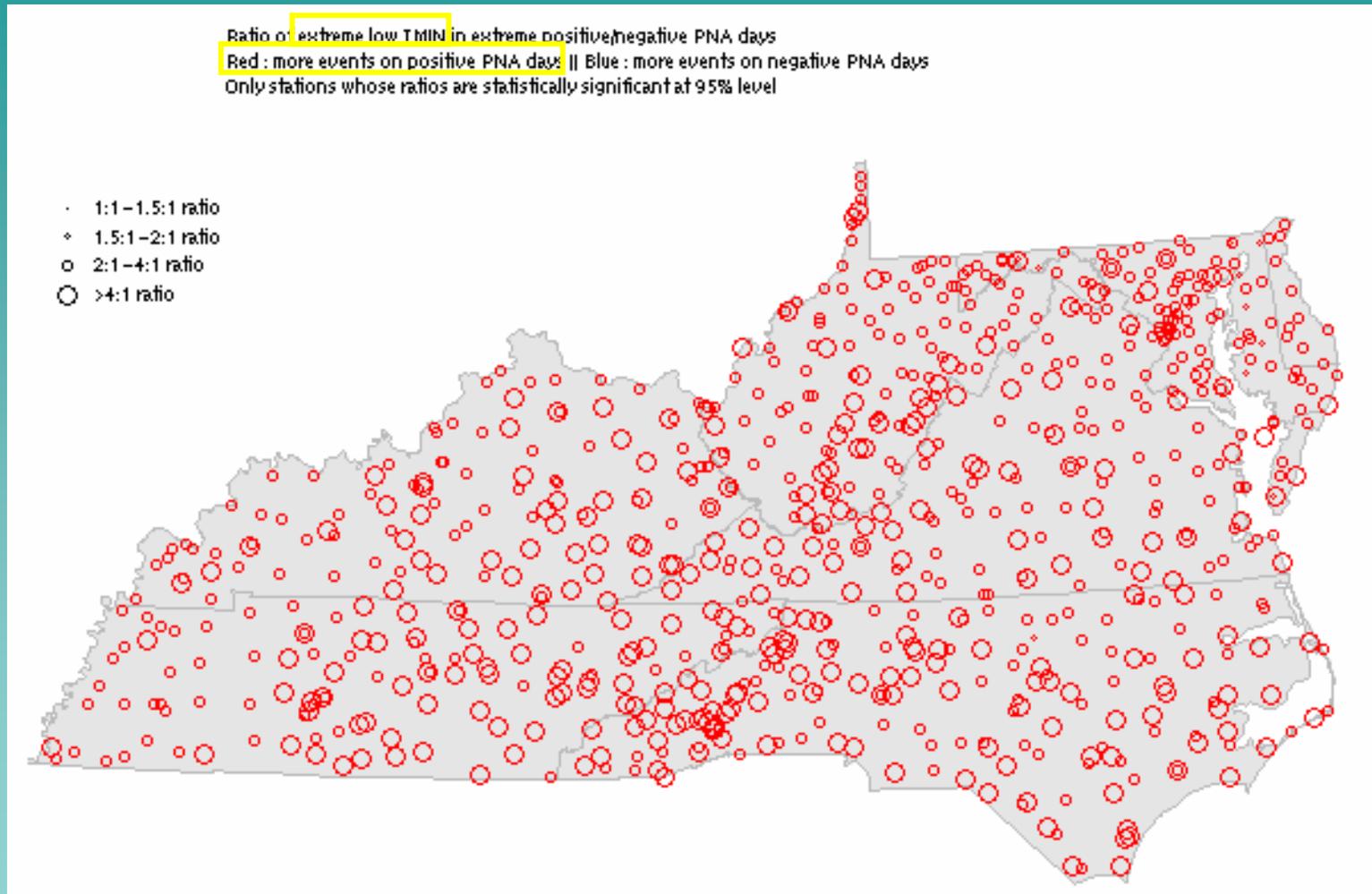
[NAM](#) | [PNA](#) | [CTI](#)



Images courtesy NOAA Photo Library

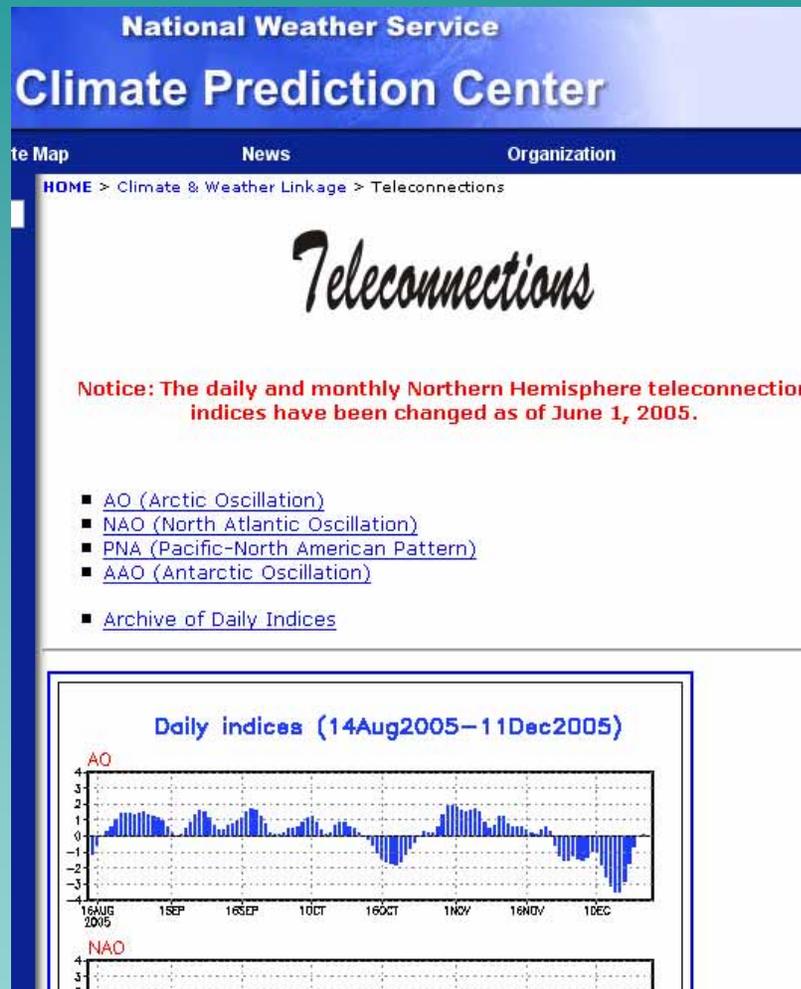
<http://tao.atmos.washington.edu/greg/midwest/>

Joint Institute for the Study of the Atmosphere and Ocean



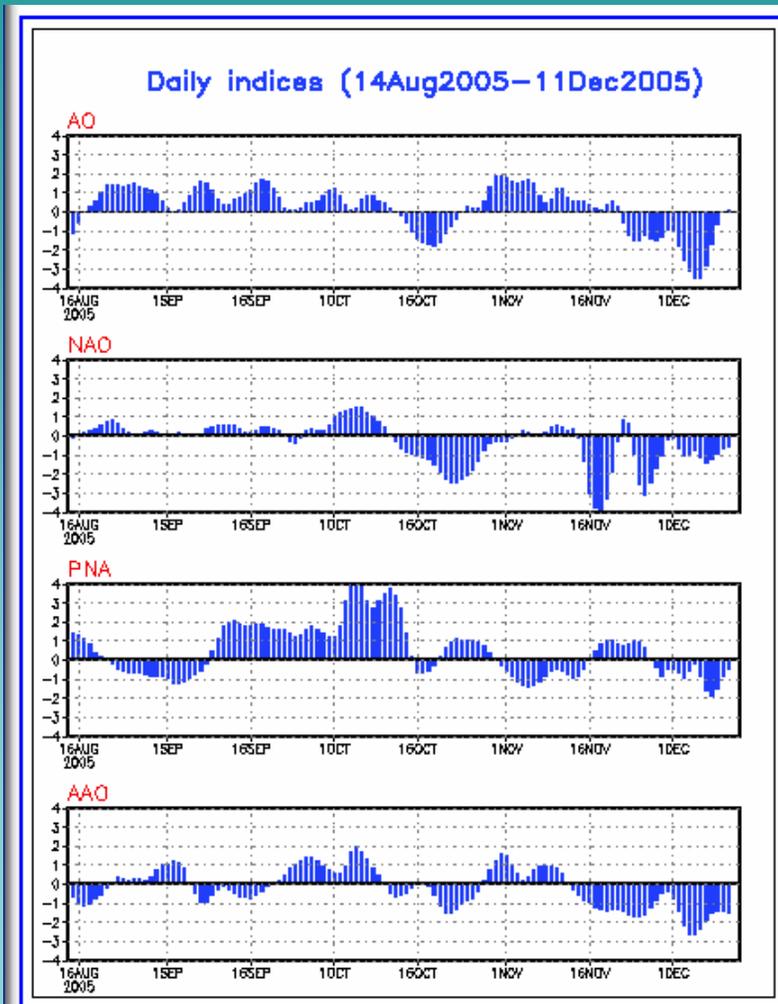
<http://tao.atmos.washington.edu/greg/midwest/>

Daily Teleconnection Indices



http://www.cpc.ncep.noaa.gov/products/precip/CWlink/daily_ao_index/teleconnections.shtml

Daily Teleconnection Indices



Date	AO	NAO	PNA	AAO
14Aug2005	-0.14784E+01	-0.12288E+00	0.15527E+01	-0.37312E+00
15Aug2005	-0.12516E+01	-0.23372E+00	0.12942E+01	-0.66861E+00
16Aug2005	-0.58519E+00	0.53139E-01	0.13071E+01	-0.98713E+00
17Aug2005	0.19832E+00	0.32646E+00	0.13229E+01	-0.13680E+01
18Aug2005	0.31764E+00	0.22646E+00	0.84820E+00	-0.10504E+01
19Aug2005	0.35610E+00	0.33681E+00	0.28188E+00	-0.72558E+00
20Aug2005	0.11730E+01	0.64160E+00	0.14223E+00	-0.43687E+00
21Aug2005	0.14756E+01	0.82589E+00	0.43438E-01	-0.38190E+00
22Aug2005	0.15483E+01	0.92152E+00	-0.11717E+00	0.28382E+00
23Aug2005	0.13625E+01	0.74040E+00	-0.45030E+00	0.51822E+00
24Aug2005	0.12587E+01	0.32936E+00	-0.74428E+00	0.32759E+00
25Aug2005	0.14462E+01	0.12092E+00	-0.59432E+00	-0.79797E-01
26Aug2005	0.15630E+01	0.54421E-01	-0.63560E+00	0.79794E+00
27Aug2005	0.14166E+01	0.25557E-01	-0.77570E+00	0.79794E+00
28Aug2005	0.10483E+01	0.20481E+00	-0.65866E+00	0.62426E-01
29Aug2005	0.11025E+01	0.43315E+00	-0.63388E+00	0.13556E+00
30Aug2005	0.11660E+01	0.28188E+00	-0.63388E+00	0.11128E+01
31Aug2005	0.58705E+00	-0.14777E+00	-0.63388E+00	0.10440E+01
01Sep2005	0.87521E-01	-0.14777E+00	-0.63388E+00	0.90660E+00
02Sep2005	-0.56181E-01	-0.14777E+00	-0.63388E+00	0.12647E+01
03Sep2005	-0.88489E-01	-0.14777E+00	-0.63388E+00	0.15296E+01
04Sep2005	0.34823E+00	-0.14777E+00	-0.63388E+00	0.74086E+00
05Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	0.31839E+00
06Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	-0.62506E+00
07Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	-0.10205E+01
08Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	-0.11485E+01
09Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	-0.65260E+00
10Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	0.61888E-01
11Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	-0.28257E+00
12Sep2005	0.10379E+00	-0.14777E+00	-0.63388E+00	-0.14911E+00
13Sep2005	0.66490E+00	0.48429E+00	0.19582E+01	-0.51217E+00
14Sep2005	0.95319E+00	0.51047E+00	0.18842E+01	-0.67483E+00
15Sep2005	0.68649E+00	0.15244E+00	0.17909E+01	-0.72665E+00
16Sep2005	0.10802E+01	0.22196E-02	0.17623E+01	-0.61708E+00
17Sep2005	0.15429E+01	0.29751E+00	0.19168E+01	-0.78135E+00
18Sep2005	0.18299E+01	0.60378E+00	0.19977E+01	-0.34883E+00
19Sep2005	0.16530E+01	0.57981E+00	0.16765E+01	-0.95831E-01
20Sep2005	0.13514E+01	0.34983E+00	0.14876E+01	0.71003E-01
21Sep2005	0.68053E+00	0.35236E+00	0.15908E+01	0.97962E-01
22Sep2005	0.10567E+00	0.70643E-01	0.16618E+01	0.51445E+00
23Sep2005	0.10567E+00	0.70643E-01	0.16618E+01	0.51445E+00

Monthly data to 1950, tabular and graphical, and daily data to 1950 tabular

<http://www.cpc.ncep.noaa.gov/products/precip/CWlink/pna/daily.index.ascii>

Radar-Oriented Severe Weather Climatology


 NOAA / National Weather Service
 Storm Prediction Center

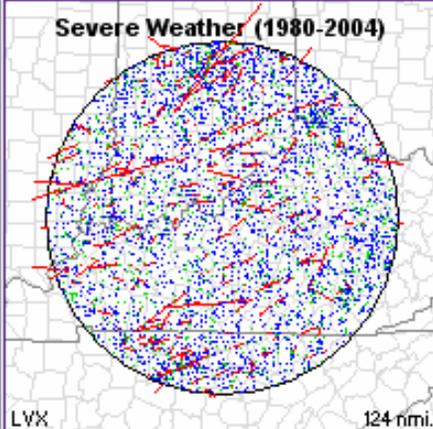
Radar Coverage Areas

Online Severe Weather Climatology

Radar: [Or click here for map](#)

Radar: Louisville KY
37.97 N - 85.93W
Period: 1980 - 2004
Range: 124 nm

Database Overview



Severe Weather (1980-2004)

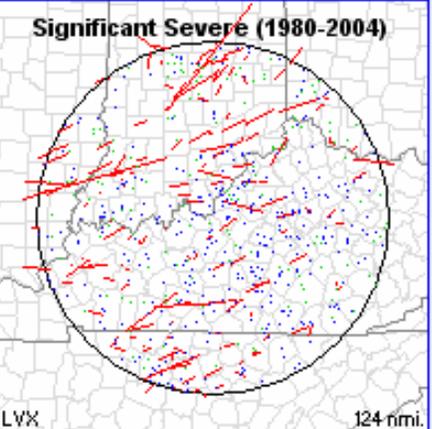
LVX 124 nmi.

All severe weather reports during the period are plotted. Blue dots represent damaging wind, green dots represent large hail, and red dots represent tornadoes. [\[Click to enlarge\]](#)

	All Rpts	Sig Rpts	Avg Days
Hail	3851	197	31
Wind	10140	472	53
Tornadoes	743	205	12
Total	14734	874	60

Category	Rank*	Freq/mi ²
Any Severe	21	1:82
Sig Severe	26	1:1,382
Tornadoes	56	1:1,625
F2+ Torn	15	1:5,891

* Compared to 141 national radar coverage areas studied.



Significant Severe (1980-2004)

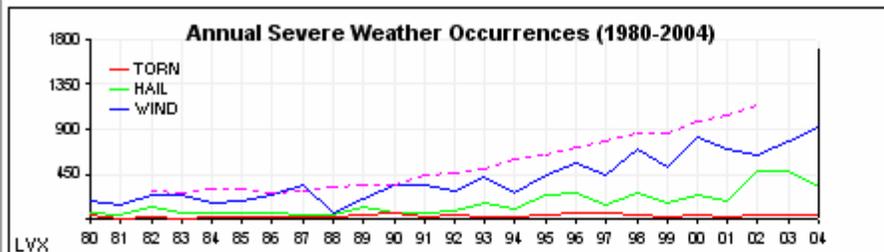
LVX 124 nmi.

Significant severe weather reports during the period are plotted. Only tornadoes F2 or stronger, wind gusts of 65 knots or stronger, and hail of 2" diameter or larger are plotted. [\[Click to enlarge\]](#)

<http://www.spc.noaa.gov/climo/online/rda/LVX.html>

Radar-Oriented Severe Weather Climatology

Annual Report Information

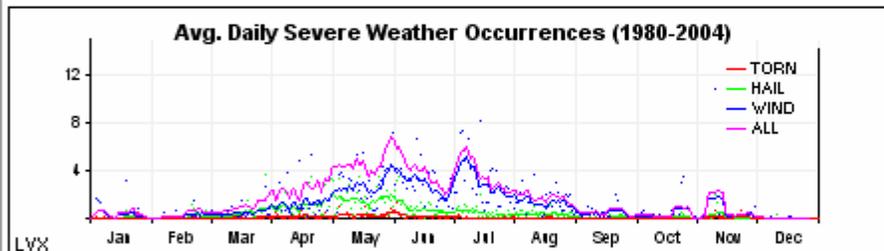


Plot of annual severe weather reports in the search area. The dashed magenta line denotes a 5 year running average of all reports.

20 year report increase: 431%
10 year report increase: 226%
5 year report increase: 80%

[See annual table below](#)

Daily Report Information



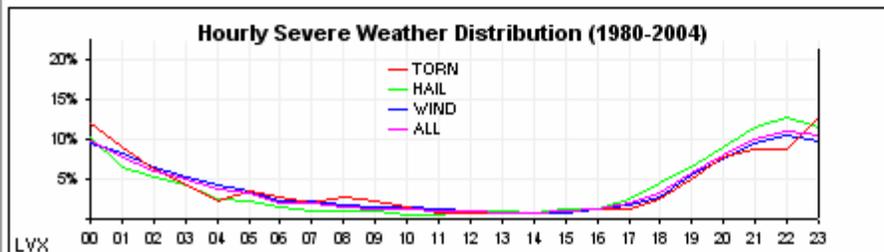
Plot of daily severe weather reports in the search area. Lines denote a 7 day running mean.

Maximum daily value:
6.8 on 30 May

Primary Season:
Mar 29 - Aug 26

[See monthly table below](#)

Hourly Report Information



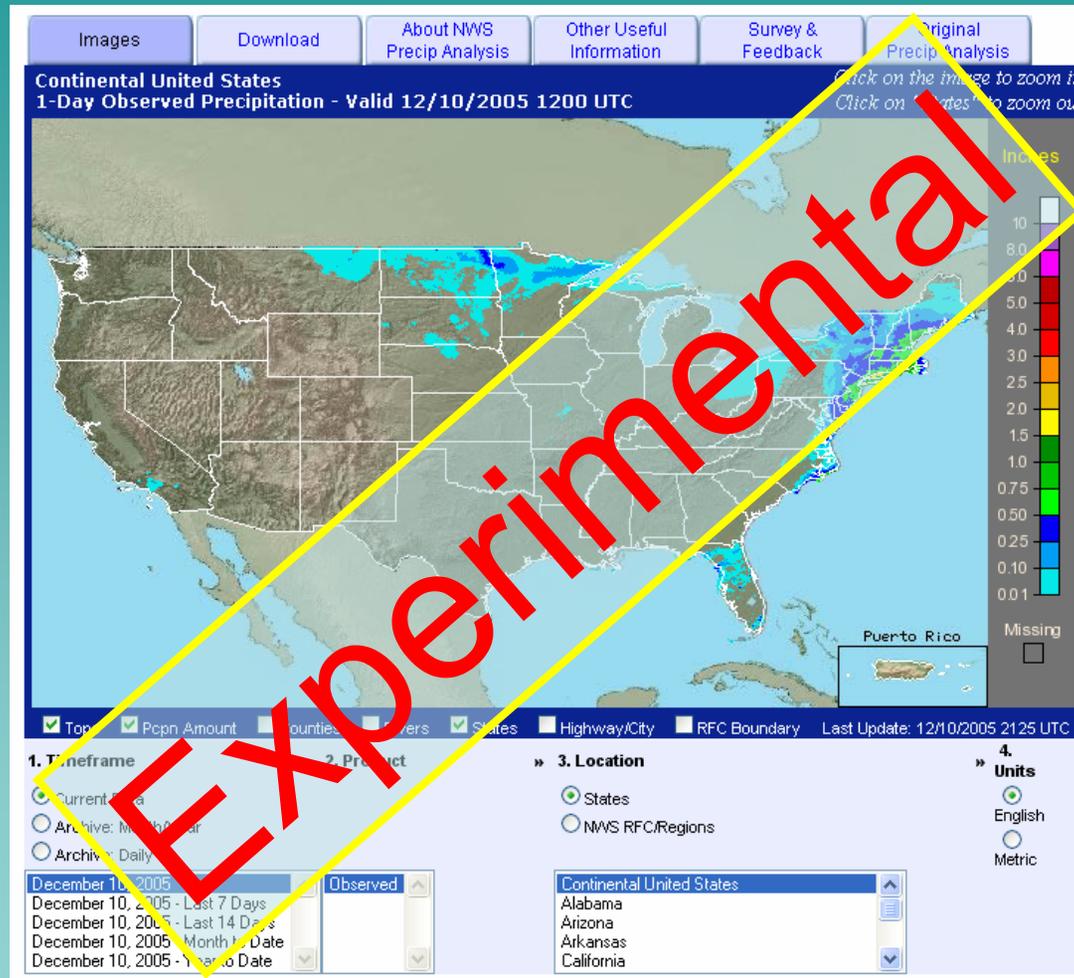
Plot of hourly severe weather reports in the search area. Values are in percent of total, and have been rounded to the nearest hour (UTC).

Maximum hourly value:
11% at 22 UTC

[See hourly table below](#)

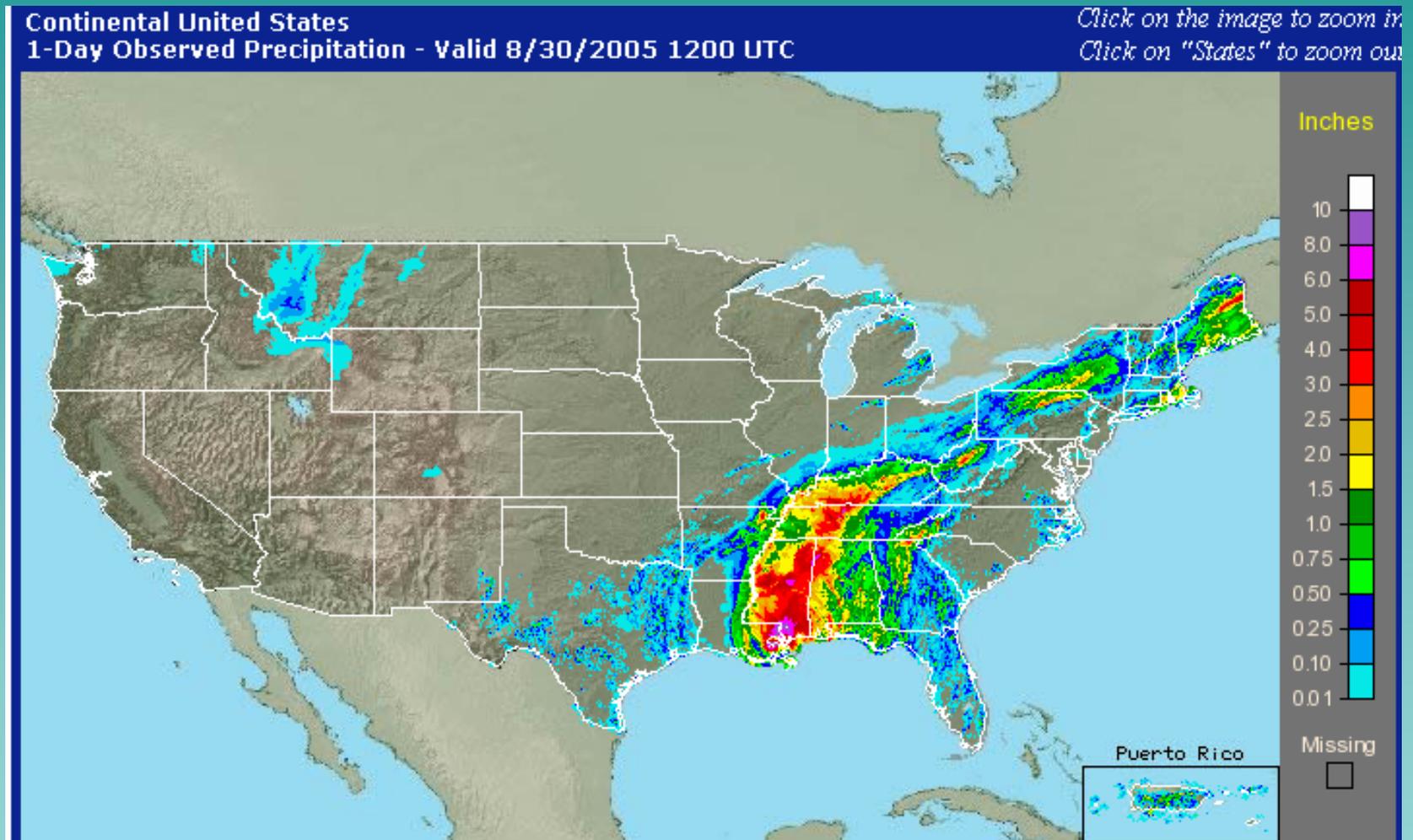
<http://www.spc.noaa.gov/climo/online/rda/LVX.html>

Precipitation Analysis



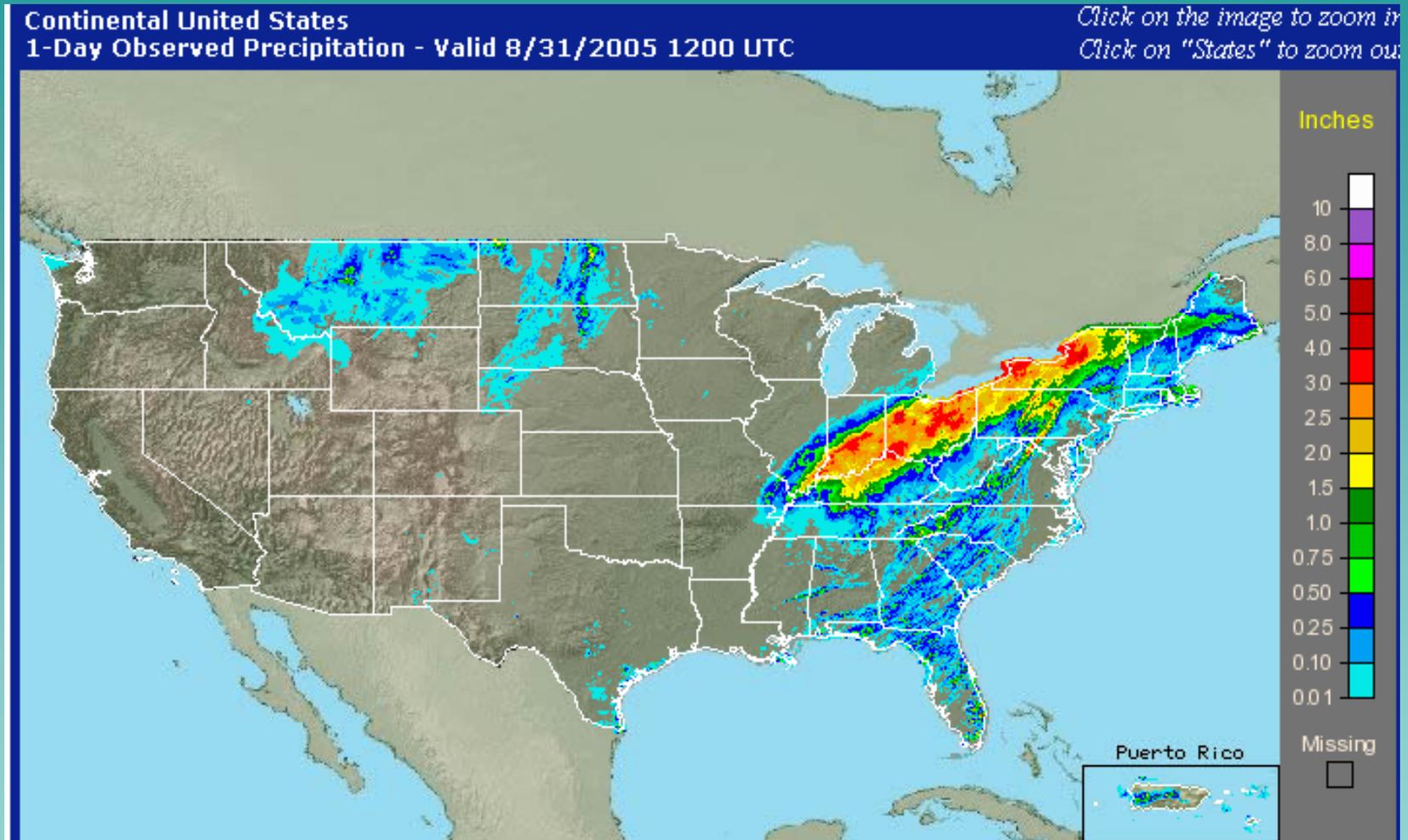
http://www.srh.noaa.gov/rfcshare/precip_analysis_new.php

Precipitation Analysis



http://www.srh.noaa.gov/rfcshare/precip_analysis_new.php

Precipitation Analysis



http://www.srh.noaa.gov/rfcshare/precip_analysis_new.php

El Niño Theme Page

Click [here](#) for a low bandwidth version of this page

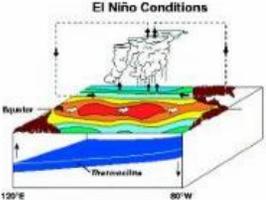
 **El Niño** Theme Page
access to distributed information on El Niño



Saturday, December 10 2005

The Basics

[What is La Niña?](#)
[What is El Niño?](#)
[Frequently asked questions \(FAQ\)](#)
[More FAQ's](#)
[Impacts of El Niño](#)
[Benefits of El Niño prediction](#)
[Spanish and Portuguese language sites](#)
[Visit an El Niño Observing System](#)

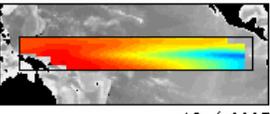

El Niño Conditions
Equator
120°E
90°W
Tropopause
[El Niño](#) and [Normal](#) and [La Niña](#) conditions

El Niño to blame?



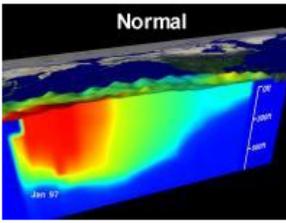
What is happening now?

[Latest information about El Niño](#)
[Forecasts](#)
[Realtime data, products and analyses](#)
[List of impacts and prediction benefits](#)
[3D Animation of El Niño temperatures](#)
[More El Niño animations and graphics](#)


12 / 2005
Pacific equatorial sea surface temperatures ([animations](#))

Where can I find data on El Niño?

[TAO moored buoy data](#)
[Warm Water Volume **NEW!**](#)
[Realtime data, products & analyses](#)
[XBT data](#)
[Drifting buoy data](#)
[Sea level field analyses](#)
[Satellite data](#)
[Climate data](#)
[Numerical model simulations](#)
[Ka'imimoana shipboard data](#)
[NOAA data via the NOAA Server](#)


Normal, El Niño and Developing La Niña

What's new?

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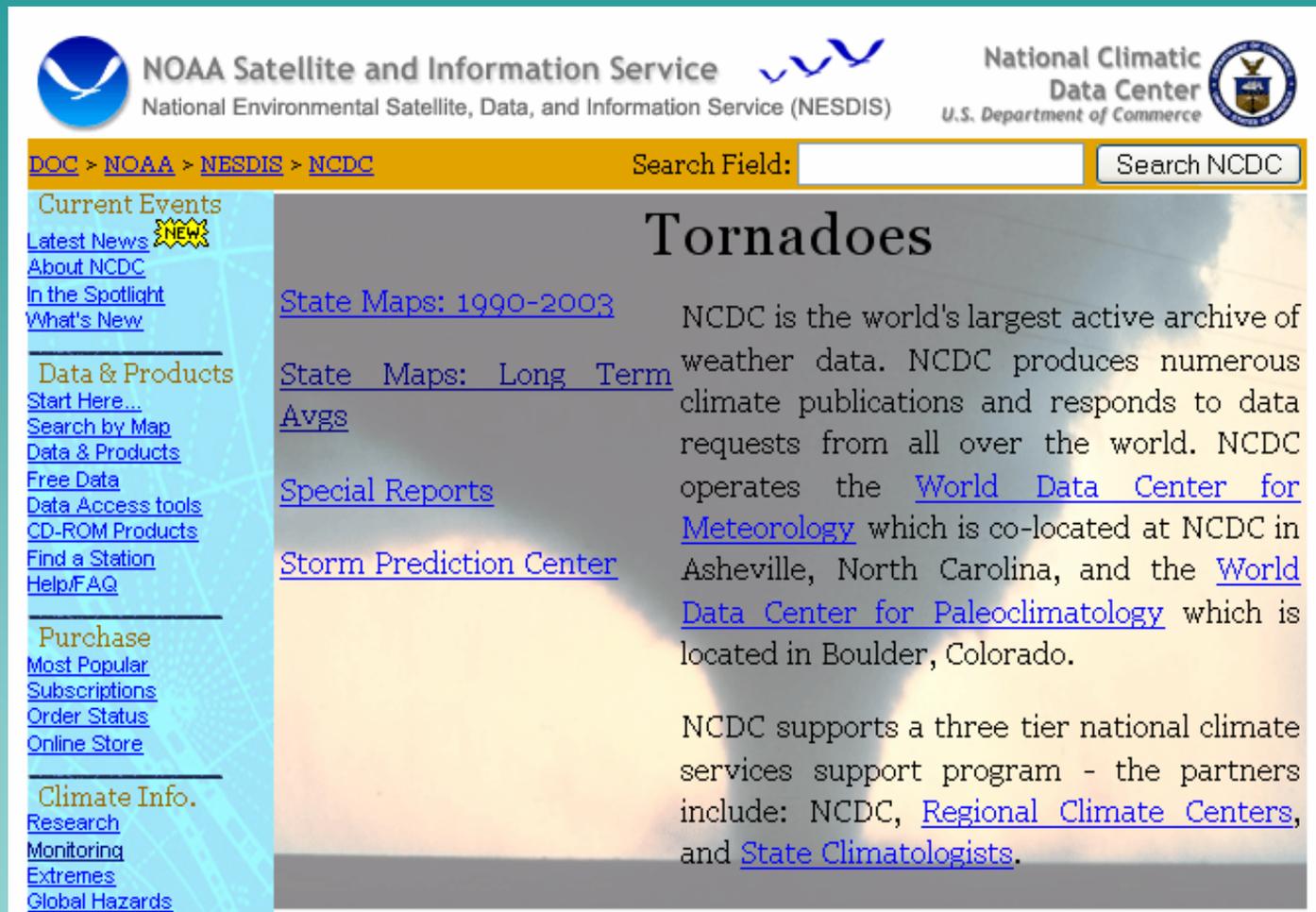
Contents

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NEW!
SCIENTIFIC AMERICAN
2005
Science & Technology
WEB AWARDS

<http://www.pmel.noaa.gov/tao/elnino/nino-home.html>

NCDC Tornado Climatology



NOAA Satellite and Information Service
National Environmental Satellite, Data, and Information Service (NESDIS)

National Climatic Data Center
U.S. Department of Commerce

DOC > NOAA > NESDIS > NCDC

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Tornadoes

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[State Maps: Long Term](#)

[Avg's](#)

[Special Reports](#)

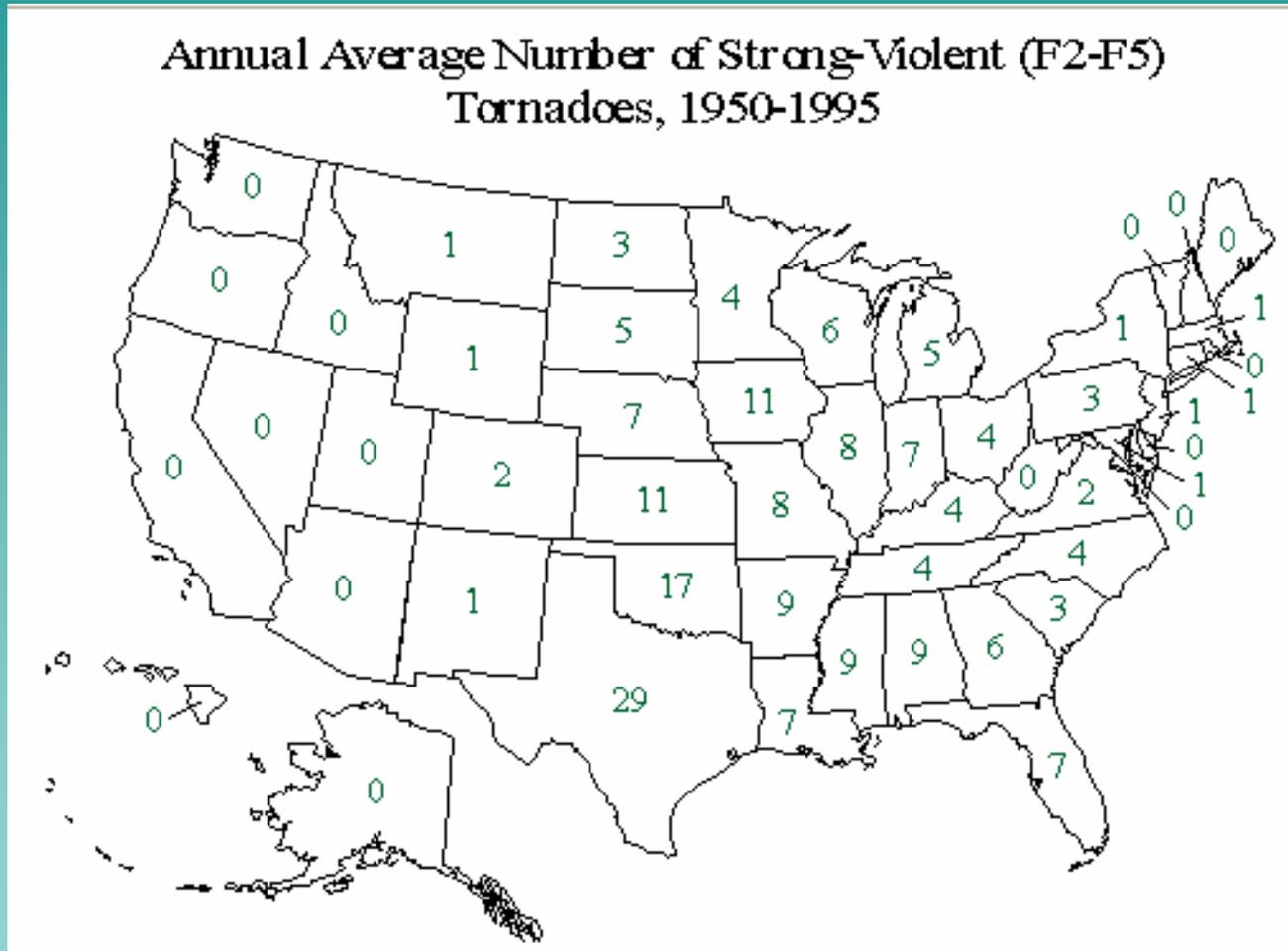
[Storm Prediction Center](#)

NCDC is the world's largest active archive of weather data. NCDC produces numerous climate publications and responds to data requests from all over the world. NCDC operates the [World Data Center for Meteorology](#) which is co-located at NCDC in Asheville, North Carolina, and the [World Data Center for Paleoclimatology](#) which is located in Boulder, Colorado.

NCDC supports a three tier national climate services support program - the partners include: NCDC, [Regional Climate Centers](#), and [State Climatologists](#).

<http://www.ncdc.noaa.gov/oa/climate/severeweather/tornadoes.html>

NCDC Tornado Climatology



<http://www.ncdc.noaa.gov/oa/climate/severeweather/tornadoes.html>

Climate Diagnostics Center



Jump to: Search for: Go!

You are at: [CDC Home](#) ► [Daily Mean Composites](#)

[Home](#) | [Search](#) | [Site index](#) | [Privacy policy](#) | [Disclaimer](#) | [Contact us](#)

As of October 1, 2005, the NOAA Climate Diagnostics Center has merged into the [Earth System Research Laboratory \(ESRL\)](#) as part of the [Physical Sciences Division](#).

Daily Mean Composites

Plot daily composites (averages) of the mean or anomalies (mean - total mean) of variables from the **NCEP/NCAR Reanalysis** and other datasets. Total means are based on **1968-1996**. Data is available from **Jan 1948 to Dec 6, 2005** for most variables. Enjoy!

Variables: Analysis level?:

Enter Year, Month and Day for composites To subtract one set of days from another, use a minus sign (-) before the years of the days that are to be subtracted. Default is last available date for variable.

<input type="text"/>							
<input type="text"/>							
<input type="text"/>							
<input type="text"/>							

OR to Enter Year of last day of range

OR File with Dates Optional Plot Label replaces list of dates.

Filename: Plot Label:

In order to help ensure that this web analysis page remains available, we would greatly appreciate feedback on its use, particularly in the classroom, for presentations or for research. Mail to Cathy Smith at (cathy.smith@noaa.gov).

Help

- [Instructions](#)
- [Datasets and variables](#)
- [Use your own date file](#)

Background Information

- [Referencing Plots](#)
- [Mailing list for NCEP/NCAR Reanalysis data updates](#)

Dataset Information

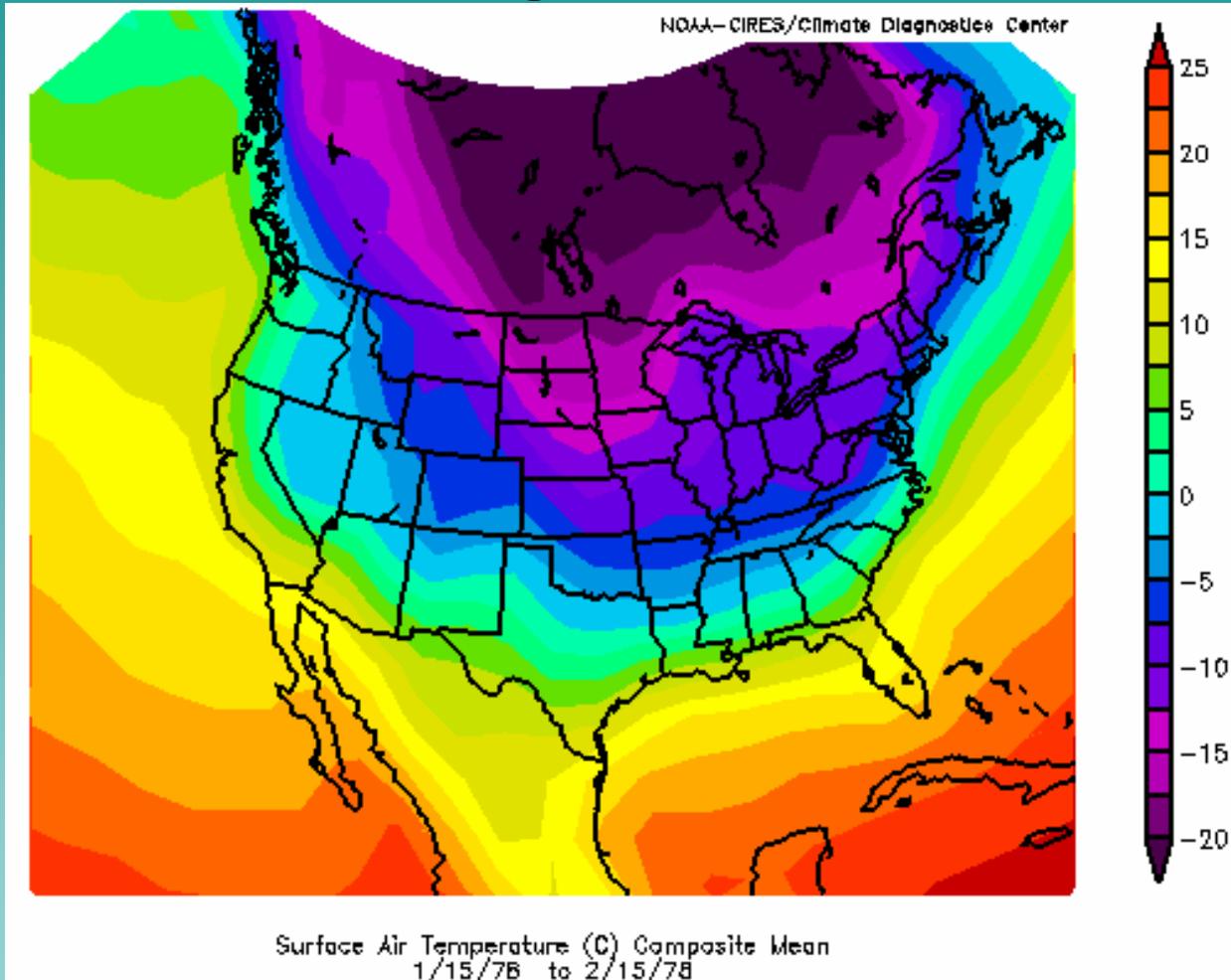
- [NCEP/NCAR Reanalysis:](#)
- [NOAA Interpolated OLR](#)

Related Plot/Analysis

- [Plot NCEP operational data](#)
- [Plot 6-hourly NCEP/NCAR Reanalysis composites](#)
- [Plot monthly gridded composites](#)

<http://www.cdc.noaa.gov/Composites/Day/>

Climate Diagnostics Center



<http://www.cdc.noaa.gov/Composites/Day/>

Precipitation Frequency

NOAA's National Weather Service
Hydrometeorological Design Studies Center

Site Map News Organization Search

General Info
HDSC Homepage
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Related Links

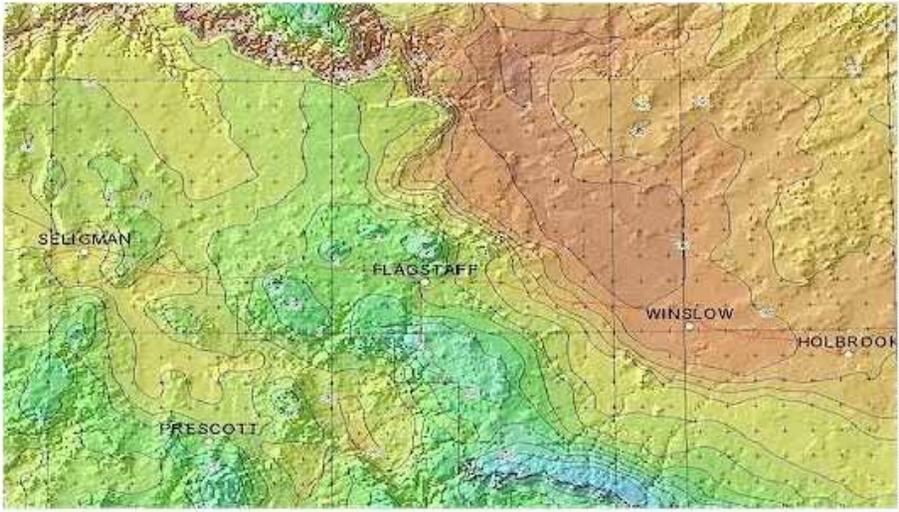
Precipitation
Frequency (PF)
Precipitation
Frequency Data
Server (PFDS)
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Frequency
Information and
Publications
FAQ

Probable Maximum
Precipitation (PMP)
PMP Information
Record Rainfalls

Contact Us

This is the Home Page for the Hydrometeorological Design Studies Center, part of the National Weather Service's Office of Hydrologic Development, Hydrology Laboratory. This home page is for those interested in:

- precipitation frequency (PF)
- probable maximum precipitation (PMP)



The map displays a topographic view of the Flagstaff region in Arizona. It features contour lines representing elevation and is overlaid with a grid. Several cities are labeled: SELIGMAN, FLAGSTAFF, WINSLOW, HOLBROOK, and PRESCOTT. The map uses a color gradient from green (lower elevations) to brown (higher elevations) to represent terrain. The precipitation frequency contours are shown as thin lines, with higher values generally occurring in the higher elevation areas.

<http://www.nws.noaa.gov/ohd/hdsc/>

Precipitation Frequency

Precipitation Frequency Estimates (inches)

AEP* (1-in-Y)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
2	0.41	0.64	0.78	1.05	1.29	1.51	1.61	1.95	2.30	2.75	3.25	3.68	4.37	4.94	6.74	8.41	10.61	12.68
5	0.52	0.80	0.99	1.36	1.71	1.99	2.13	2.57	3.02	3.61	4.28	4.77	5.63	6.35	8.51	10.45	12.96	15.37
10	0.59	0.91	1.12	1.56	1.99	2.33	2.50	3.02	3.54	4.24	5.01	5.54	6.54	7.35	9.70	11.78	14.41	17.00
25	0.67	1.03	1.28	1.82	2.36	2.79	3.00	3.63	4.22	5.09	6.00	6.56	7.76	8.69	11.22	13.43	16.11	18.89
50	0.74	1.13	1.40	2.00	2.65	3.14	3.40	4.11	4.77	5.78	6.77	7.35	8.74	9.74	12.37	14.63	17.29	20.19
100	0.80	1.22	1.51	2.20	2.94	3.51	3.82	4.63	5.34	6.49	7.58	8.17	9.77	10.85	13.52	15.81	18.38	21.39
200	0.87	1.31	1.62	2.39	3.25	3.90	4.27	5.17	5.95	7.27	8.43	9.03	10.85	12.01	14.68	16.97	19.42	22.51
500	0.96	1.42	1.77	2.64	3.67	4.44	4.91	5.95	6.81	8.37	9.60	10.22	12.39	13.65	16.24	18.48	20.67	23.86
1000	1.03	1.51	1.88	2.84	4.01	4.88	5.42	6.59	7.51	9.28	10.55	11.17	13.64	14.96	17.44	19.61	21.57	24.80

2.94" of rain falling at Paris, Kentucky in one hour would be a once-in-100-years event

<http://www.nws.noaa.gov/ohd/hdsc/>

National Diurnal Climatology



NATIONAL **DIURNAL** CLIMATOLOGY

SELECT MONTH: [graphical plots]
JAN ■ FEB ■ MAR ■ APR ■ MAY ■ JUN ■ JUL ■ AUG ■ SEP ■ OCT ■ NOV ■ DEC

[or click here for data tables]



DIURNAL AVERAGES

- TEMPERATURE
- DEWPOINT
- WIND SPEED
- WIND DIRECTION (VECTOR AVERAGE)
- FREQUENCY OF WIND DIRECTION
- SKY COVER (TOTAL & OPAQUE)
- PRECIPITATION

- AVAILABLE FOR 239 CITIES
- DERIVED FROM 30-YEAR SAO DATASET

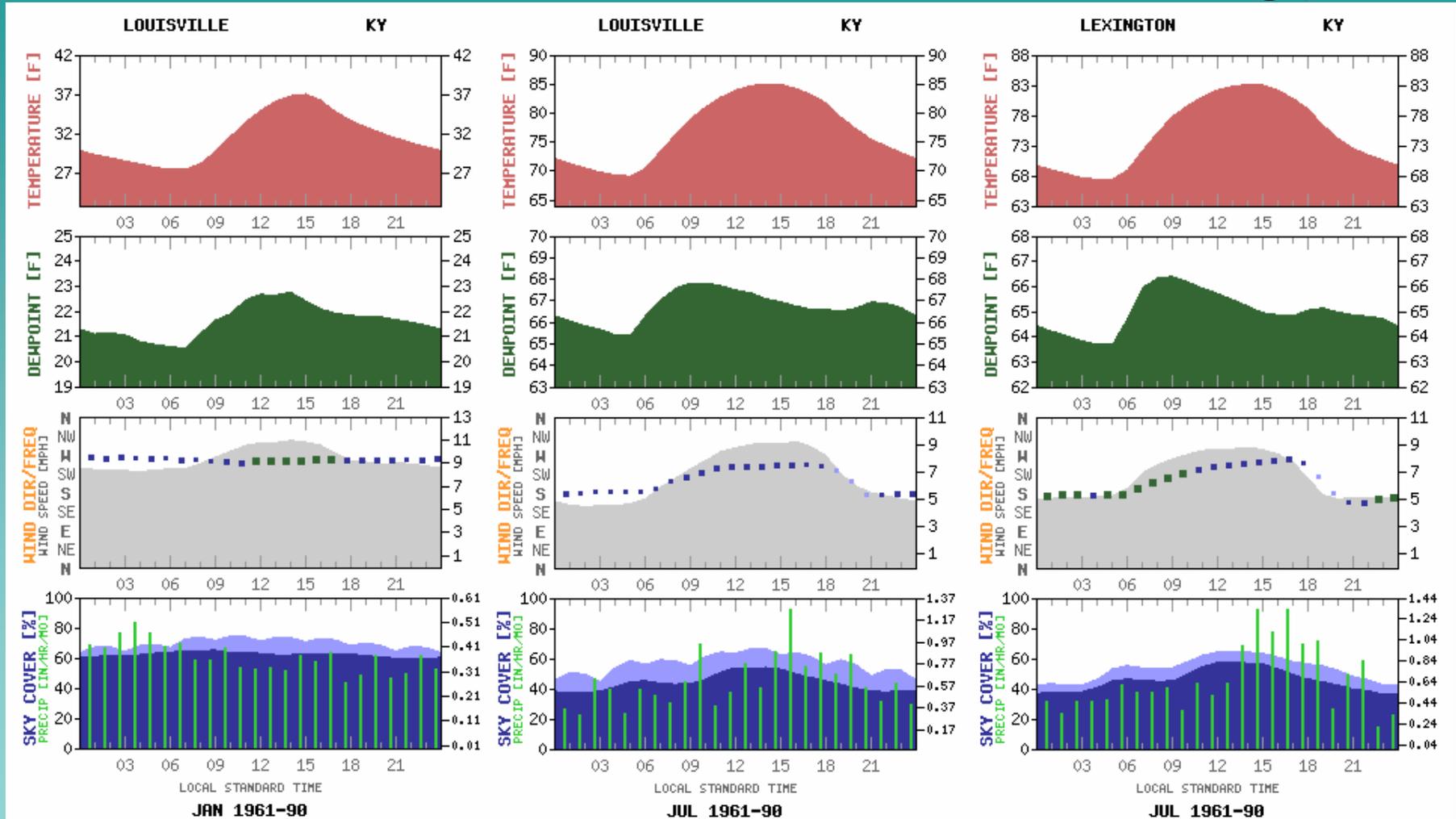


QUESTIONS?
contact Matt Haugland

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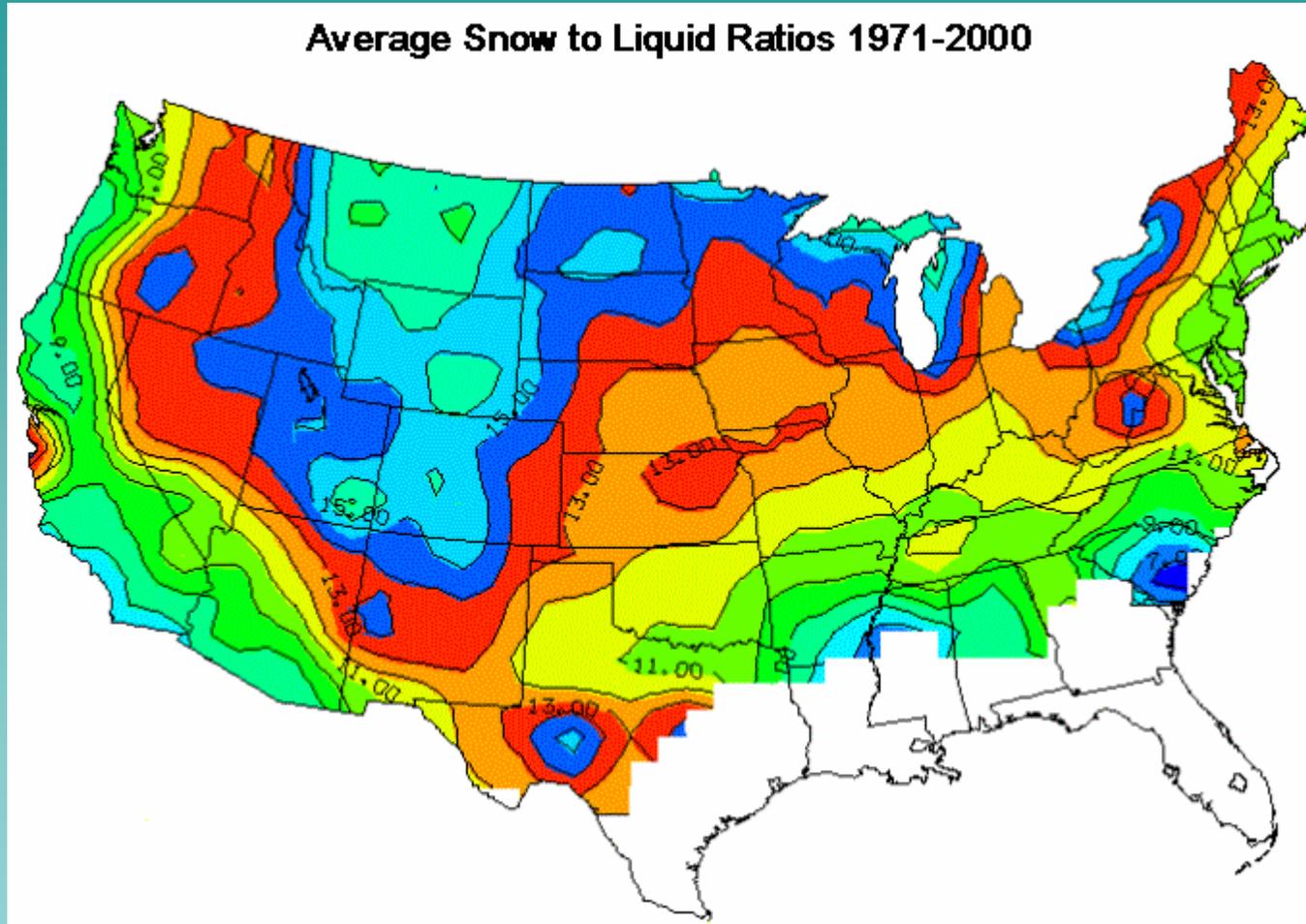
<http://www.microclimates.org/diurnal/index.html>

National Diurnal Climatology



<http://www.microclimates.org/diurnal/index.html>

Snow-to-Liquid Ratios

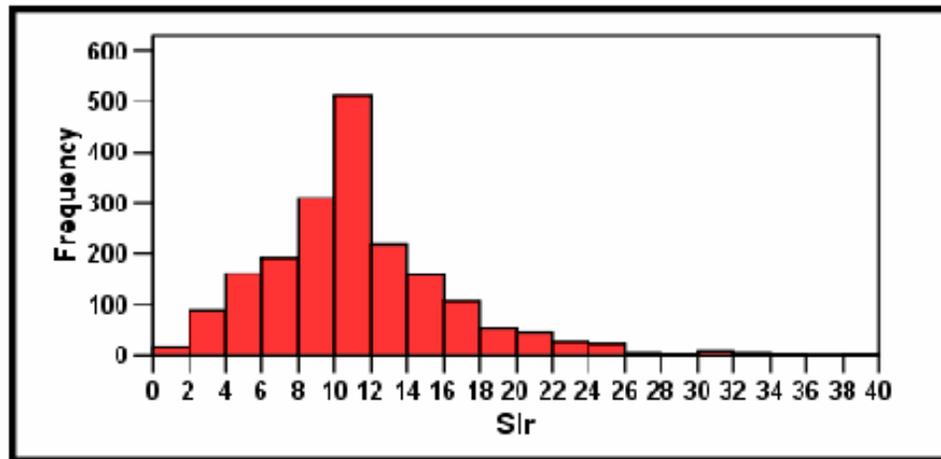
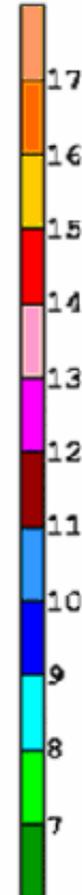


<http://www.eas.slu.edu/CIPS/Research/snowliquidrat.html>

Snow-to-Liquid Ratios

Louisville, KY

Avg SLR: 11.2
Standard Dev: 5.7
75th Percentile: 13.5
50th Percentile: 10.0
25th Percentile: 8.2



<http://www.eas.slu.edu/CIPS/Research/snowliquidrat.html>

Tiempo Climate Newswatch



Tiempo Climate Newswatch Week ending December 11th 2005

A weekly magazine
covering climate and
development

The Cyberlibrary

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The rules for limiting greenhouse gas emissions under the [Kyoto Protocol](#) have been adopted. The agreement took place at the [First Meeting of the Parties](#) to the Kyoto Protocol, which began on November 28th 2005, alongside the 11th Conference of the Parties to the United Nations [Framework Convention on Climate Change](#). The meetings are being held in Montreal, Canada. The Kyoto rules cover greenhouse gas accounting, investment in developing countries, emissions trading and other operational details.

Saudi Arabia blocked agreement on the provision on compliance, arguing that a [proposed amendment](#) would strengthen the rules. Others considered the move an attempt to delay agreement on the deal and postpone the discussions on what to do after the end of the Kyoto period in 2012. "They're trying to stop any discussion of what to do after 2012," accused [Jennifer Morgan](#) of [WWF International](#). There was confidence, though, that agreement would be reached by the end of the meeting. The [compliance system](#) stipulates that any country that misses its target will have to make up the shortfall, and an additional 30 per cent penalty, during the next period. Emissions trading rights may be affected.

More information

- ◆ [ENS](#)
- ◆ [Reuters](#)
- ◆ [Stuff](#)
- ◆ [New Zealand Herald](#)
- ◆ [Planet Ark](#)
- ◆ [Webcast](#)
- ◆ [Earth Negotiations Bulletin, daily reports](#)
- ◆ [On the Web: The climate negotiations](#)

The Atlantic hurricane season of 2005 drew to an official close on Wednesday November 30th, though activity continued with the formation of [Tropical Storm Epsilon](#) following Tropical Storm Delta's [eastward progress towards Morocco](#). The season as a whole broke a number of records. Twenty-six tropical storms formed, compared to the previous high of 21 back in 1933. Thirteen developed into hurricanes, beating the old record of 12 in 1969. Four major hurricanes made landfall in the United States, a new record. A record five storms formed in July. [Hurricane Dennis](#) was the most powerful July storm recorded. Three hurricanes reached [Category Five](#) status, another record. [Hurricane Vince](#) became the first known tropical storm to hit Spain and Portugal. [Hurricane Wilma](#) was the most powerful hurricane known to have formed in the Atlantic Basin.

[Hurricane Katrina](#) proved the most costly natural disaster to hit the United States, with damage estimated at US\$80 billion and an estimated 1300 fatalities. "Within all the record-breaking statistics of the season, there are epic human impacts... suffering on a very large scale," commented [Max Mayfield](#), director of the United States [National Hurricane Center](#) (NHC). Forecasters had warned that activity would be high during 2005 because of high ocean temperatures in the tropical Atlantic. High-level wind conditions also played a part. Many storms formed closer to land and developed more rapidly than usual due to the extra energy picked up from the warm water. According to NHC forecaster Stacy Stewart, "Wilma went from a tropical storm to Category Five in 24 hours. That's unprecedented!"

More information

Bright Ideas



[Bluesky International](#) has developed an aerial thermal imaging system that allows local government departments to [identify energy loss "hotspots"](#) in residential properties and target energy saving assistance



German cities are [recycling prefabricated concrete panels](#) used in slab construction of dwellings when [redeveloping housing estates](#)



<http://www.tiempocyberclimate.org/newswatch/>

CDC U.S. Climatologies

US Station Daily Data: Access by State

By selecting a state and then a city, the user can examine the temperature and precipitation station data for continental US. All stations available have data from 1950 until 1999 for daily maximum and minimum temperature and for precipitation.

If you have problems with a plot, please send me the webpage you were using and all input values. Detailed [help](#) and [data set information](#) is available.

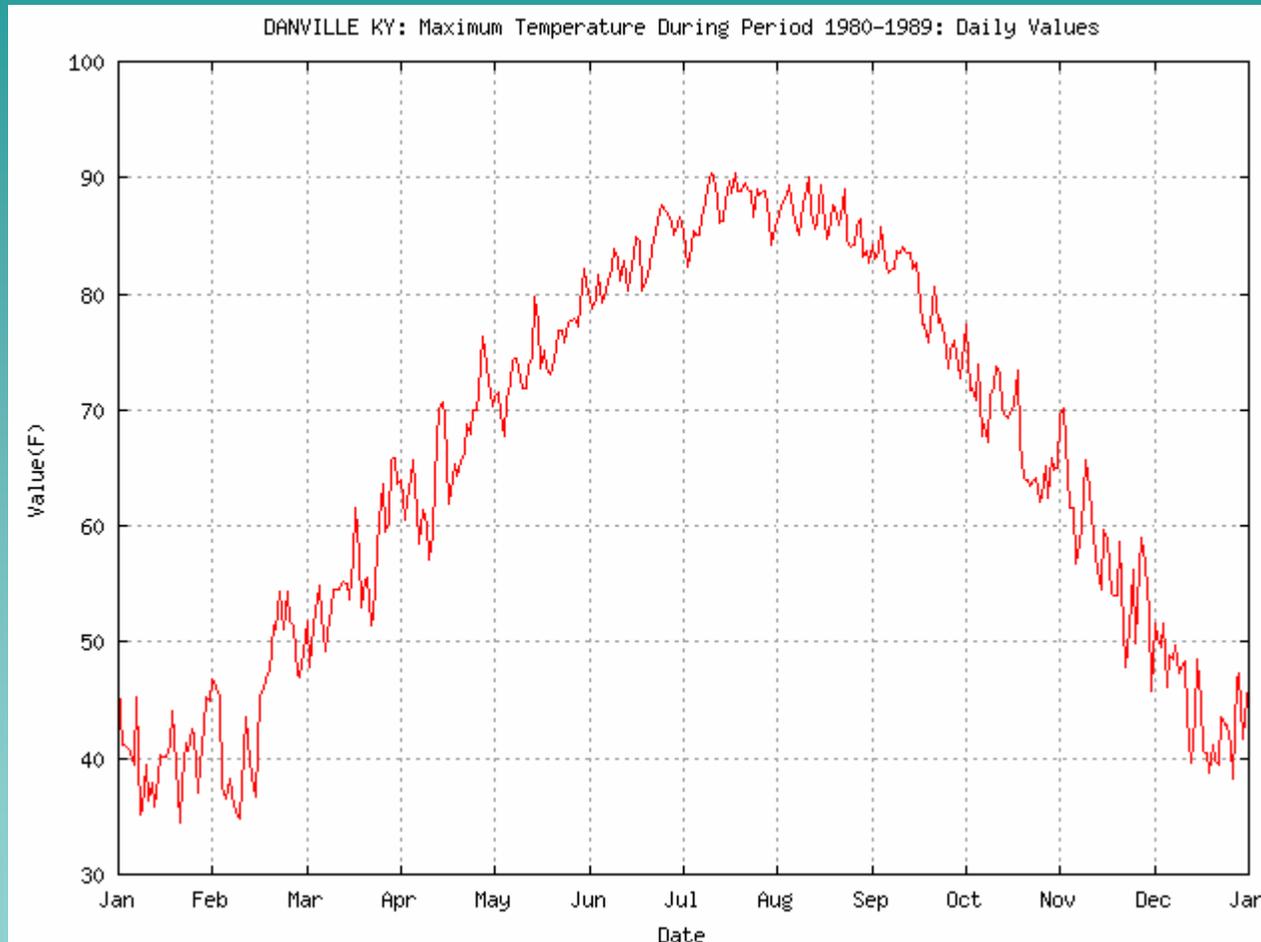
Choose a state

Alabama	Arizona	Arkansas
California	Colorado	Connecticut
Delaware	Florida	Georgia
Idaho	Illinois	Indiana
Iowa	Kansas	Kentucky
Louisiana	Maine	Maryland
Massachusetts	Michigan	Minnesota
Mississippi	Missouri	Montana
Nebraska	Nevada	New Hampshire
New Jersey	New Mexico	New York
North Carolina	North Dakota	Ohio
Oklahoma	Oregon	Pennsylvania
Rhode Island	South Carolina	South Dakota
Tennessee	Texas	Utah
Vermont	Virginia	Washington
West Virginia	Wisconsin	Wyoming

Construct your
own city
climatologies

<http://www.cdc.noaa.gov/USstation/>

CDC U.S. Climatologies



<http://www.cdc.noaa.gov/USstation/>

CDC Comparative Climatology

Distribution of Monthly and Seasonal Means: US Climate Division data

How do the current month or season's us climate division's temperature, precipitation and palmer drought index values compare with those in the past? By selecting a state and division, you can obtain a plot of the distribution of the monthly or seasonal values from 1895 to the present for the location chosen together with general statistics and the current value. Other options available include plots of the sorted data and data values (listed by year or sorted). For sorted plots, you can optionally highlight certain years on the plot (for example, the last 5 years or the strongest El Nino years). When a subset of years is highlighted you will also get summary statistics for that subgroup.

State Climate Division Variable

Statistic mean anomaly (relative to period selected)

Start Month End Month

Start Year: End Year:

1895-the present available

Data Distribution Plot Sorted Values, Plotted

Table of values Sorted Table of values

Percentile (ranking) of input value:

Percentile (ranking) of input year:

Optional: Plot options:

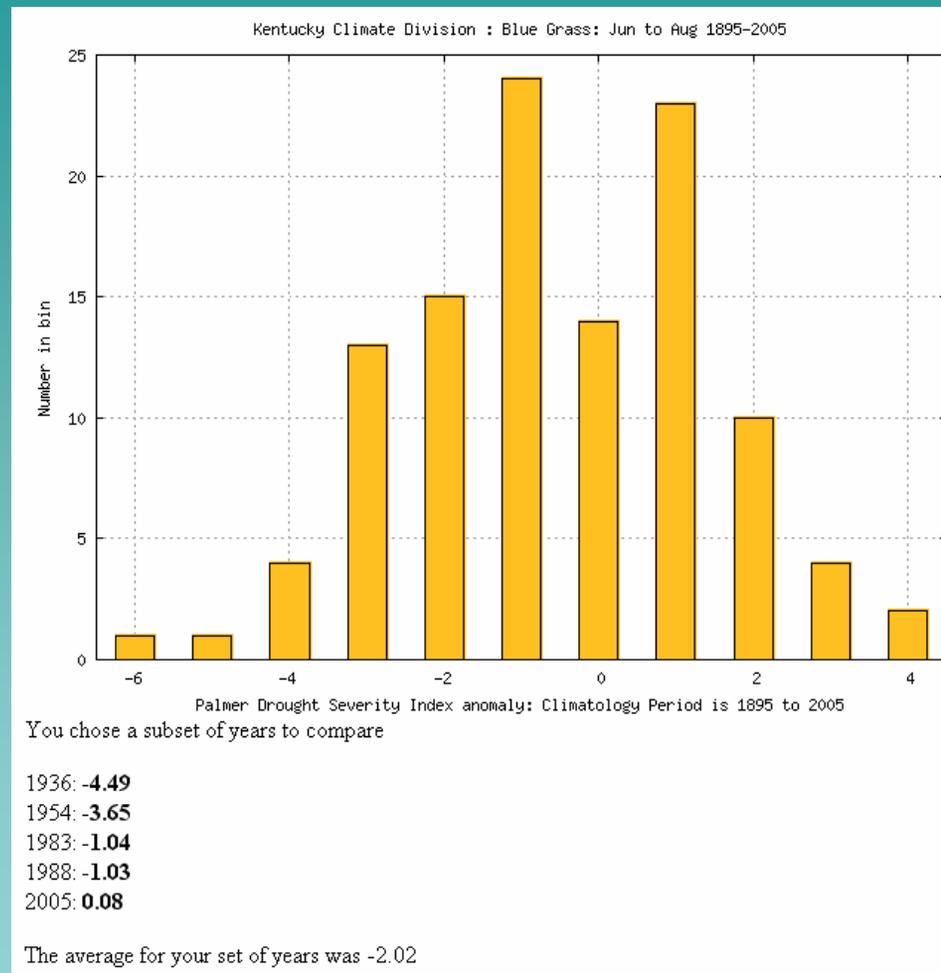
Bin size: Low Value: High Value:

Set y-range: Low High Set x-range: Low High

Frequency plot

<http://www.cdc.noaa.gov/PDF/Climdiv/>

CDC Comparative Climatology



<http://www.cdc.noaa.gov/PDF/Climdiv/>

Local Work



<http://weather.gov/bowlinggreen>

<http://weather.gov/lexington>

<http://weather.gov/louisville>

Local Work

- Established a local Climate Team
 - Moving official observing site back to SDF
 - Handling erroneous ASOS data
 - Research projects
 - LMK Climate webpage
 - Team Leader went to Kansas City for training

<http://www.weather.gov/climate/index.php?wfo=lmk>

Local Work

Louisville, KY

Home Site Map News Organization

Local forecast by "City, St" or Zip Code
City, St Go

Current Hazards
Watches / Warnings
Outlooks
U.S. Hazards
Hurricane Info
Safety Rules
Submit Report

Current Conditions
Observations
Satellite Images
Rivers & Lakes AHPS
Precip Estimate

Radar Imagery
Local Radar
Nationwide

Forecasts
Local Area
Aviation
Fire Weather
Graphical
Interactive
Weather Radio
Forecast Discussion
Wx Planner
Winter Weather
Non Precipitation

Rivers / Hydrology
AHPS / River Info
Flash Floods

Climate
Past Weather Records
Prediction
Local Climate
Bowling Green
Lexington
Louisville

Weather Safety

Top News of the Day

- What exactly is an "Alberta Clipper"?
- Coop Observer celebrates 55 years of service
- How satisfied are you with fire weather products and services
- Louisville weather records change

Click on the map below for the latest forecast.

Read watches, warnings & advisories

Zoom Out

- Snow Advisory
- Winter Weather Advisory
- Special Weather Statement
- Short Term Forecast
- Hazardous Weather Outlook

Last map update: Sun, Dec 11th 2005 at 10:02:36 pm EST

Quick Links...

- Radar Image [enhanced]
- Radar Rainfall
- Forecast Discussion
- Hazard Wx Outlook
- Report Severe Wx
- AHPS Rivers & Lakes
- Climate Data
- Science Section
- Photo Album

This Day in Weather History ...

9 December 1978 → A record crest was reached on the Kentucky River at Frankfort

<http://www.weather.gov/climate/index.php?wfo=lmk>

Local Work

The screenshot displays the National Weather Service Forecast Office website for Louisville, KY. The page features a navigation menu on the left with categories like Local forecast, Current Hazards, Current Conditions, Radar Imagery, and Forecasts. The main content area is titled "Observed Weather Reports" and includes a "Product" selection menu with options like Daily Climate Report (CLI), Preliminary Climatology Data (CF6), Record Event Report (RER), Monthly Weather Summary (CLM), Regional Summary (RTP), and State Summary (Temp/Precip). A "Location" dropdown menu is set to "Louisville International". The "Timeframe" is set to "Most Recent" with a date range from December 5th to 10th, 2005. A "Go" button is visible. Below the selection options, there is a "Product Description" section for the Daily Climate Report (CLI), which provides details about the report's content and availability.

National Weather Service Forecast Office
Louisville, KY

Site Map News Organization

Local forecast by "City, St"
City, St Go

Observed Weather Climate Locations Climate Prediction Climate Resources Local Data/Records Astronomical

Observed Weather Reports

1. Product »
 Daily Climate Report (CLI)
 Preliminary Climatology Data (CF6)
 Record Event Report (RER)
 Monthly Weather Summary (CLM)
 Regional Summary (RTP)
 State Summary (Temp/Precip)

2. Location »
Louisville International
Louisville Weather Off
Lexington
Bowling Green

3. Timeframe »
 Most Recent
 Archived Data:
December 10th, 2005
December 9th, 2005
December 8th, 2005
December 7th, 2005
December 6th, 2005
December 5th, 2005

4. View »
Go

Storm Event Database (SPC)
Storm Data (NCDC)

Product Description:
DAILY CLIMATE REPORT - issued daily:
Detailed daily weather statistics (usually for yesterday), including temperature, precipitation, degree days, wind, humidity, sunrise/sunset, and record temperature data for the following day. Precipitation data includes both calendar year and water year totals, percent of normal values, and comparisons to normal. This product is available for up to 2 months.

<http://www.weather.gov/climate/index.php?wfo=lmk>

Local Work

CPC climate forecasts are provided, CDC climate information, as well as El Niño/La Niña, drought information, and other climate pattern information.

Observed Weather	Climate Locations	Climate Prediction	Climate Resources	Local Data/Records	Astronomical
Climate Prediction and Variability					
Climate Prediction Long range forecasts across the U.S.			Climate Variability Topics important to climate assessment and prediction		
Climate Prediction Web Sites <ul style="list-style-type: none">• Climate Prediction Center (CPC)• Climate Diagnostics Center (CDC)			Information on El Niño and La Niña <ul style="list-style-type: none">• CPC's El Niño / La Niña Page• El Niño Theme Page• What is La Niña• ENSO Diagnostic Discussion		
Week Two Forecasts (6-14 days) <ul style="list-style-type: none">• 6-10 Day Temperature Forecast Map• 6-10 Day Precipitation Forecast Map• 8-14 Day Temperature Forecast Map• 8-14 Day Precipitation Forecast Map• 6-10 Day & 8-14 Day Forecast Discussions• U.S. Hazards Assessment			Drought Information <ul style="list-style-type: none">• U.S. Drought Assessment		
Monthly (30 day) Outlooks <ul style="list-style-type: none">• CPC Seasonal Outlooks• Seasonal Outlook Discussion• Monthly & Seasonal Outlook Maps			Intraseasonal Oscillations <ul style="list-style-type: none">• Monitoring Intraseasonal Oscillations• Madden-Julian Oscillation• Daily Indices		
Seasonal (90 day) Outlooks <ul style="list-style-type: none">• CPC Seasonal Outlooks• Seasonal Outlook Discussion• Monthly & Seasonal Outlook Maps			Teleconnections <ul style="list-style-type: none">• Northern Hemisphere Teleconnections• Daily Indices• Forecasts of Teleconnection Indices		

<http://www.weather.gov/climate/index.php?wfo=lmk>

Local Work

This page provides links to National and International climate organizations and data sources.

Observed Weather	Climate Locations	Climate Prediction	Climate Resources	Local Data/Records	Astronomical
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Climate Resources

Climate Information Outside the Local Office Area

- [Climate Information Outside the Local Office Area](#)
- [Regional Climate Centers](#)
- [State Climate Offices](#)

National Climate Information

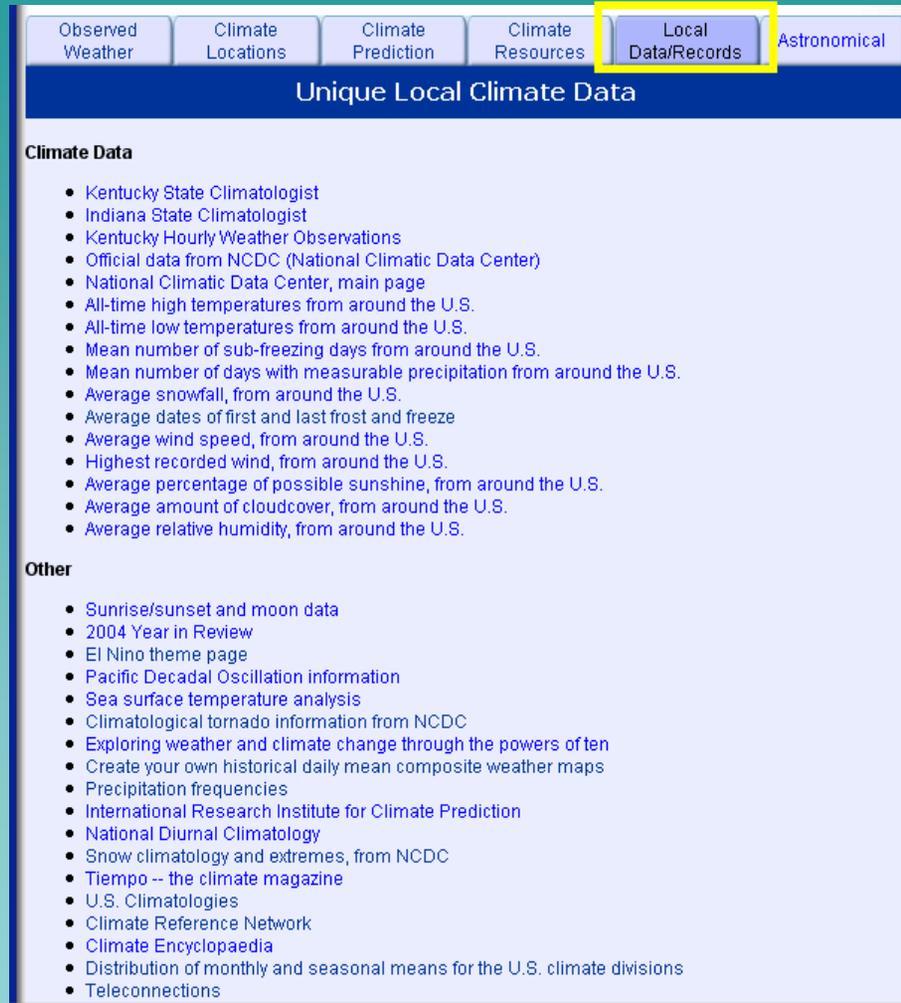
- [National Temperature and Precipitation Summary for Selected Cities](#)
- [National Operational Hydrologic Remote Sensing Center](#)
- [NOAA's Climate Page](#)
- [National Climatic Data Center](#)
- [U.S. Climate at a Glance](#)
- [Climate Prediction Center](#)
- [CDC Interactive Climate Pages](#)
- [NOAA's El Niño and La Niña Pages](#)
- [NOAA's Drought Monitoring Page](#)
- [NOAA's Storm Event Archives](#)
- [U.S. Hazards Assessments](#)

International Climate Information

- [World Meteorological Organization](#)
- [World Climate](#)
- [Global Climate Extremes](#)
- [Global Climate Change](#)
- [Global Climate Observing System](#)

<http://www.weather.gov/climate/index.php?wfo=lmk>

Local Work



The screenshot shows the top navigation bar of the weather.gov website. The 'Local Data/Records' link is highlighted with a yellow box. Below the navigation bar is a blue header with the text 'Unique Local Climate Data'. The main content area is divided into two sections: 'Climate Data' and 'Other', each containing a list of links to various climate-related resources.

Observed Weather Climate Locations Climate Prediction Climate Resources **Local Data/Records** Astronomical

Unique Local Climate Data

Climate Data

- [Kentucky State Climatologist](#)
- [Indiana State Climatologist](#)
- [Kentucky Hourly Weather Observations](#)
- [Official data from NCDC \(National Climatic Data Center\)](#)
- [National Climatic Data Center, main page](#)
- [All-time high temperatures from around the U.S.](#)
- [All-time low temperatures from around the U.S.](#)
- [Mean number of sub-freezing days from around the U.S.](#)
- [Mean number of days with measurable precipitation from around the U.S.](#)
- [Average snowfall, from around the U.S.](#)
- [Average dates of first and last frost and freeze](#)
- [Average wind speed, from around the U.S.](#)
- [Highest recorded wind, from around the U.S.](#)
- [Average percentage of possible sunshine, from around the U.S.](#)
- [Average amount of cloudcover, from around the U.S.](#)
- [Average relative humidity, from around the U.S.](#)

Other

- [Sunrise/sunset and moon data](#)
- [2004 Year in Review](#)
- [El Nino theme page](#)
- [Pacific Decadal Oscillation information](#)
- [Sea surface temperature analysis](#)
- [Climatological tornado information from NCDC](#)
- [Exploring weather and climate change through the powers of ten](#)
- [Create your own historical daily mean composite weather maps](#)
- [Precipitation frequencies](#)
- [International Research Institute for Climate Prediction](#)
- [National Diurnal Climatology](#)
- [Snow climatology and extremes, from NCDC](#)
- [Tiempo -- the climate magazine](#)
- [U.S. Climatologies](#)
- [Climate Reference Network](#)
- [Climate Encyclopaedia](#)
- [Distribution of monthly and seasonal means for the U.S. climate divisions](#)
- [Teleconnections](#)

<http://www.weather.gov/climate/index.php?wfo=lmk>

Local Work

This page provides data on sunset/sunrise, moon phases, tides and currents, and official time.

Observed
Weather

Climate
Locations

Climate
Prediction

Climate
Resources

Local
Data/Records

Astronomical

Astronomical Data

Sun and Moon

- [Sunrise/Sunset & Moonrise/Moonset Calculator for anywhere in the U.S.](#)
- [Sunrise/Sunset & Moonrise/Moonset Tables for one year, anywhere in the U.S.](#)
- [Phases of the Moon](#)

Tides and Currents

- [National Ocean Service \(NOS\) Tide Predictor](#)
- [World Wide Tide Predictor](#)

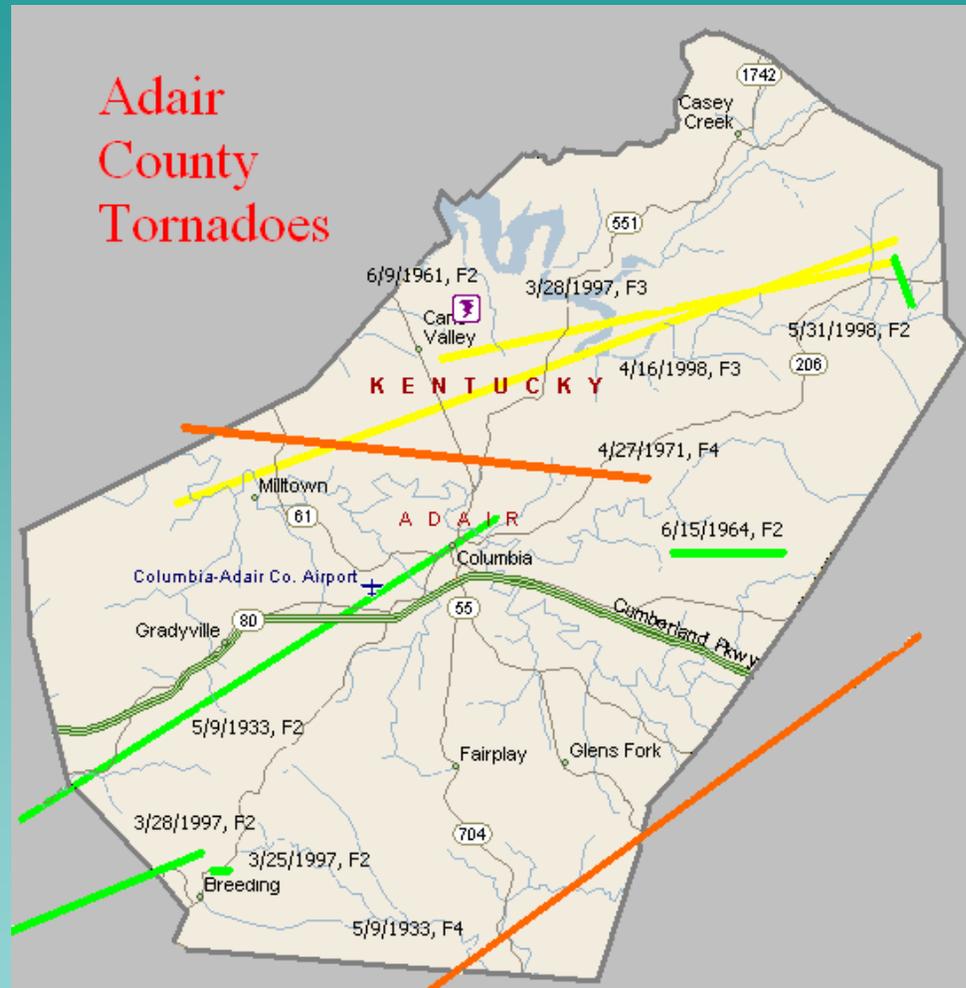
Time

- [Official U.S. Time](#)

The U.S. Naval Observatory takes observations and generates sunrise and sunset data. The NWS is not the custodian of records for such records and therefore, cannot certify to such facts, or authenticate such data. For information regarding sunrise and sunset tables and to obtain certified records, contact: U.S. Naval Observatory, ATTN: Code AA, 3450 Massachusetts Ave., N.W., Washington, D.C. 20392-5420; <http://aa.usno.navy.mil/data/>.

<http://www.weather.gov/climate/index.php?wfo=lmk>

Tornado Tracks



On the Web soon...

This Day in Weather History

This Day in Weather History ...



9 December 1978 → A record crest was reached on the Kentucky River at Frankfort Lock, with a stage of 48.47 feet.



9 December 1952 → A tornado, on the ground for 10 miles, inflicted F3 damage on Hancock and Perry counties, including the north side of Tell City. It was part of a tornado family with a 32 mile long path.

About half-way down on the main LMK webpage

<http://weather.gov/louisville>

OHRFC Observed Precip and Precip Anomalies

Maps available for durations of:

- 1 hour
- 24 hours
- 48 hours
- 72 hours
- 96 hours
- Month-to-date
- 7days
- 30 days
- 60 days
- 90 days
- 180 days
- 365 days

<http://weather.gov/louisville>

Thank You