Comparison of Flagler monthly average maximum and minimum temperatures with other surrounding cities for the 1971-2000 period
Akron Average Winter and Summer Temperature Comparison

Akron Average Winter and Summer Temperatures

Temperature (degrees F)

Winter (Dec-Feb)  Summer (Jun-Aug)

10.0 20.0 30.0 40.0 50.0 60.0 70.0 80.0

Mean Monthly Pan Evaporation

Monthly Pan Evaporation for Akron and Bonny Dam

- **Evaporation (inches)**
- **Month**
- **Jan**  **Feb**  **Mar**  **Apr**  **May**  **Jun**  **Jul**  **Aug**  **Sep**  **Oct**  **Nov**  **Dec**

- **Akron**
- **Bonny Dam**
Bonny Dam Pan Evaporation (May-Sep)

May - September Pan Evaporation for Bonny Dam
Akron Pan Evaporation (May-Sep)
Goodland, KS, Average Wind Speed

![Bar chart showing mean monthly wind speed in Goodland, KS]
Flagler Average Monthly Precipitation

Flagler Average Mean Precipitation (in.) for 1971-2000 averages

Precipitation (inches)

Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec
Flagler Average Precipitation Compared to Surrounding Sites

Flagler Average Precipitation Compared to Surrounding Sites (1971-2000 averages)

- Flagler
- Holyoke
- Sterling
- Greeley
Precipitation: Annual Climatology (1971-2000)
Flagler Annual Precipitation Totals

Incomplete records for some years

Flagler Total Annual Precipitation from 1950-2004

Precipitation (inches)
What’s the Status of the Drought Now??
Fraction of Colorado in Drought
Based on 3 month SPI
(1890 - 2004)
48-Month SPI

Fraction of Colorado in Drought
Based on 48 month SPI
(1890 - 2004)
1999 Water Year Precipitation

Water Year 1999
Precipitation Percent of Average for 1961-1990 Averages
September 28, 1999

U.S. Drought Monitor

Drought type: used only when impacts differ

A = Agriculture
W = Water
F = Forest fire danger

Released Thursday, Sep 30, 1999

D0 Watch
D1 Drought
D2 Drought–Severe
D3 Drought–Extreme
D4 Drought–Exceptional

Delineates Overlapping Areas

Plus (+) = Forecast to intensify next two weeks
Minus (-) = Forecast to diminish next two weeks
No sign = No change in drought classification forecast
2000 Water Year Precipitation

Water Year 2000
Precipitation Percent of Average for 1961-1990 Averages

Precip % of Average

- 0 - 9
- 10 - 29
- 30 - 49
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- 150 - 169
- 170 - 189
- 190 - 209
- 210 - 229
- 230 - 249
- > 250
Water Year 2001
(Oct. 2000 - Sept. 2001)
Precipitation Percent of Average for 1961-1990 Averages
2002 Water Year Precipitation

Water Year 2002
Precipitation Percent of Average for 1961-1990 Averages
2004 Water Year Precipitation

September 2004 Drought Monitor Map

U.S. Drought Monitor

September 28, 2004
Valid 8 a.m. EDT

Intensity:
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

Drought Impact Types:
- Delineates dominant impacts
- A = Agricultural (crops, pastures, grasslands)
- H = Hydrological (water)
- (No type = Both impacts)

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, September 30, 2004
Author: Brad Rippey, U.S. Department of Agriculture
Division 6 – Rocky Ford

Rocky Ford
2005 Water Year
(Oct '04 - Dec '04)

Accumulated Precipitation (Inches)

- 30 Year Averages-1971-2000
- Max Year - 1999
- Min Year - 2002
- Period of Record Average - 1889-2002
- 2005 Water Year Accumulated
Cheyenne Wells
2005 Water Year
(Oct '04 - Dec '04)

- 30 Year Averages-1971-2000
- Max Year - 1909
- Min Year - 1956
- Period of Record Average - 1971 - 2002
- 2005 Water Year
- 2002 Water Year Accumulated

Accumulated Precipitation (Inches)

Months

OCT  NOV  DEC  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP
Division 7 – Akron

Akron 4E
2005 Water Year
(Oct '04 - Dec '04)

Accumulated Precipitation (Inches)

- 30 Year Averages-1971-2000
- Max Year - 1915
- Min Year - 2002
- Period of Record Average - 1906 - 2002
- 2005 Water Year Accumulated
Division 7 - Leroy

Leroy 5SW
2005 Water Year
(Oct '04 - Dec '04)

Accumulated Precipitation (Inches)

- 30 Year Averages-1971-2000
- Max Year - 1995
- Min Year - 1894
- Period of Record Average - 1890-2002
- 2005 Water Year Accumulated
- 2002 Water Year Accumulated
What Comes Next?
Multivariate ENSO Index (MEI)

http://www.cdc.noaa.gov/people/klaus.wolter/MEI/

Last update: January 7, 2005
El Nino Forecast

NINO3.4 SST anomaly plume
ECMWF forecast from 1 Dec 2004
Monthly means plotted using NCEP adjusted OIv2 1971-2000 climatology

Forecast production date: 14 Dec 2004

http://www.cdc.noaa.gov/people/klaus.wolter/SWcasts/
Temperature
Jan-Mar 2005

From the Colorado Prediction Center
Precipitation
Jan-Mar 2005

From the Colorado Prediction Center
Temperature
Apr-Jun 2005

From the Colorado Prediction Center
Precipitation
Apr-Jun 2005

From the Colorado Prediction Center
Temperature
Jul-Sep 2005

From the Colorado Prediction Center
Precipitation
Jul-Sep 2005

From the Colorado Prediction Center
CoAgMet
Weather Data for Agriculture

- Automated weather stations with daily and hourly readings of:
  - Temperature
  - Humidity
  - Wind
  - Precipitation
  - Solar energy
  - Evapotranspiration

http://www.coagmet.com
Colorado Climate Magazine

- Good bedtime reading about the climate of Colorado -- recent and historic
- $15/year subscription pays printing and mailing costs

http://ccc.atmos.colostate.edu/magazine.php
CoCoRaHS
Community Collaborative Rain, Hail, and Snow Network

http://www.cocorahs.org

- Over 1,000 volunteers participate in rain, hail and snow measurements.
- More accurate maps, verifies forecasting, radar research, crop damage, drought/flooding, educational purposes.

Support for this project provided by Informal Science Education Program, National Science Foundation and many local charter sponsors.
Eastern Colorado Precipitation
August 5, 2004
Data and Power Point Presentations available for downloading

http://ccc.atmos.colostate.edu
click on “Drought”
then click on “Presentations”