Climate Update

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Prepared by Odie Bliss and Wendy Ryan
Colorado Snowcover

As of January 7, 2007

http://rapidfire.sci.gsfc.nasa.gov/subsets/?AERONET_BSRN_BAO_Boulder
Colorado Snowcover
As of February 15, 2007

http://rapidfire.sci.gsfc.nasa.gov/subsets/AERONET_BSRN_BAO_Boulder
Water in the Snowpack during early February and the Total Precipitation for the months of December and January

Yellow - water equivalent measured by coring/melting as reported by Cooperative Observers
Light Blue - water equivalent measured by coring/weighing as reported by NWS employees
Boxed - total precipitation for December and January as reported by Cooperative Observers

http://www.crh.noaa.gov/crnews/display_story.php?wfo=pub&storyid=5870&source=0
Greeley Daily Total Snowdepth

Greeley Snowdepth
from November 28, 2006 - February 11, 2007

Snowdepth (inches)

Kersey CoAgMet Temperatures

12/31/05 – 02/15/06

Temperature for KSY01 (12-31-2005 - 02-15-2006)

12/31/06 – 02/15/07

Temperature for KSY01 (12-31-2006 - 02-15-2007)
Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO
Grand Lake 1 NW
2007 Water Year

Analyzing the graph:
- The accumulated precipitation data is shown for each month of the 2007 water year.
- The graph includes 30-year averages (1971-2000), max year (1984), min year (2002), period of record average (1941-2002), and the 2007 water year accumulated rainfall.
- The rainfall data is represented from October 2006 to September 2007.
- The highest rainfall accumulation is observed in September 2007.
Taylor Park
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1999
- Min Year - 1974
- Period of Record Average - 1942 - 2002
- 2007 Water Year Accumulated
- 2002 Water Year Accumulated
Grand Junction WSFO
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1929
- Min Year - 1956
- Period of Record Average - 1893-2002
- 2007 Water Year Accumulated
- 2002 Water Year Accumulated
Cochetopa Creek
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1957
- Min Year - 2002
- Period of Record Average - 1949 - 2002
- 2007 Water Year
- 2nd Min Year - 1950
Division 4 – Del Norte

Del Norte
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1985
- Min Year - 1951
- Period of Record Average - 1921-2002
- 2007 Accumulated
- 2002 Accumulated Water Year
Division 4 – Center

Center 4SSW
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1992
- Min Year - 1951
- Period of Record Average - 1971 - 2002
- 2002 Water Year
- 2007 Water Year

Accumulated Precipitation (Inches)

Months
Division 5 – Colorado Springs

Colorado Springs
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1999
- Min Year - 1939
- Period of Record Average - 1893-2002
- 2007 Water Year Accumulated
- 2002 Water Year Accumulated
Division 5 – Pueblo

Pueblo WSO
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1942
- Min Year - 2002
- Period of Record Average - 1874-2000
- 2007 Water Year Accumulated
Canon City
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1957
- Min Year - 1962
- Period of Record Average - 1906 - 2002
- 2007 Water Year Accumulated
- 2002 Water Year Accumulated
Division 6 – Rocky Ford

Rocky Ford
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1999
- Min Year - 2002
- Period of Record Average - 1889-2002
- 2007 Water Year Accumulated

Accumulated Precipitation (Inches)

Months

Accumulated Precipitation (Inches)

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

Leroy 5SW
2007 Water Year

Accumulated Precipitation (Inches)

- 30 Year Averages-1971-2000
- Max Year - 1995
- Min Year - 1894
- Period of Record Average - 1890-2002
- 2007 Water Year Accumulated
- 2002 Water Year Accumulated

Months

OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP
Division 8 – Boulder

Boulder
2007 Water Year
Division 8 – Cheesman

Cheesman
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1970
- Min Year - 2002
- Period of Record Average - 1904 - 2002
- 2007 Water Year

Accumulated Precipitation (Inches)

Months

OCT  NOV  DEC  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP
Division 8 – Fort Collins

Fort Collins
2007 Water Year

- 30 Year Averages-1971-2000
- Max Year - 1961
- Min Year - 1966
- Period of Record Average - 1890 - 2002
- 2007 Water Year
- 2002 WY

Accumulated Precipitation (inches)

Month

OCT  NOV  DEC  JAN  FEB  MAR  APR  MAY  JUN  JUL  AUG  SEP
CoCoRaHS Stations for February 1-15, 2007 precipitation totals

Legend
CoCo Precipitation Precip
- 0.00 - 0.19
- 0.19 - 0.37
- 0.37 - 0.60
- 0.60 - 0.97
- 0.97 - 1.63
CoCoRaHS Accumulated Precipitation

Jefferson County, CO Accumulated Precipitation WY 2006 and 2007

Accumulated Precipitation WY 2006
Accumulated Precipitation WY 2007
Boulder, CO Accumulated Precipitation WY 2006 and 2007

Accumulated Precip WY 2006
Accumulated Precip WY 2007

Accumulated Precipitation (in)

Date
6 Month SPI

Colorado

1/2007 6 mon. SPI

Produced by Colorado Climate Center
Fort Collins, CO
24 Month SPI

Colorado

1/2007 24 mon. SPI

Produced by Colorado Climate Center
Fort Collins, CO
48 Month SPI

Colorado

1/2007 48 mon. SPI
Standardized Precipitation Index

Fraction of Colorado in Drought
Based on 48 month SPI
(1890 - Jan 2007)
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://drought.unl.edu/dm
Projected Conditions at 0.2 Probability Level
12 Month SPI at 6 months

Colorado

1/2007 12 mon. SPI – Projected 6 mon. at P=0.20

Produced by
Common Climate Center
Fort Collins, CO
Projected Conditions at 0.5 Probability Level
12 Month SPI at 6 months
Projected Conditions at 0.8 Probability Level
12 Month SPI at 6 months
Data and Power Point Presentations available for downloading

http://ccc.atmos.colostate.edu

- click on “Drought”
- then click on “Presentations”