Colorado Climate Center – WATF Climate Update

Becky Bolinger

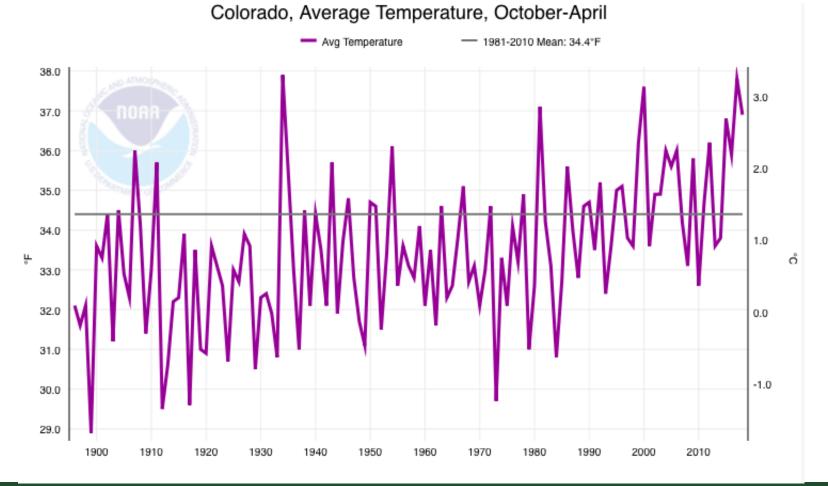
Water Availability Task Force May 17, 2018





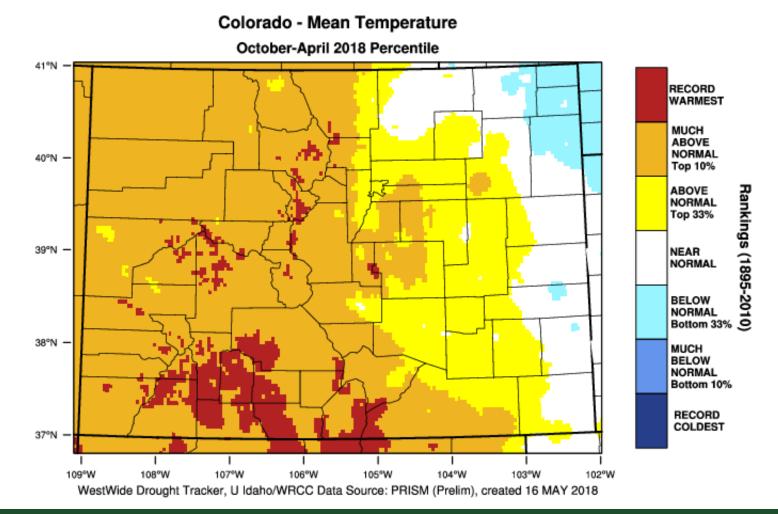
Water Year 2018 – Temperature



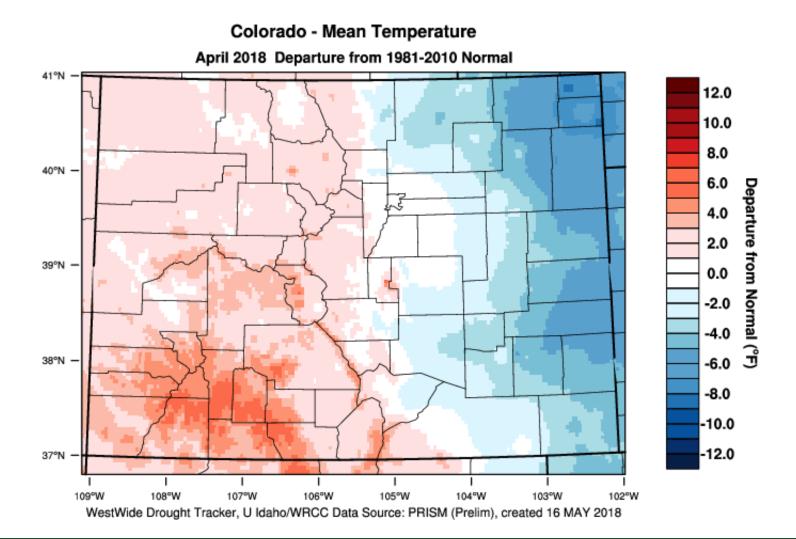


5th Warmest in 123-year record - +3.5°F above 34.4°F average











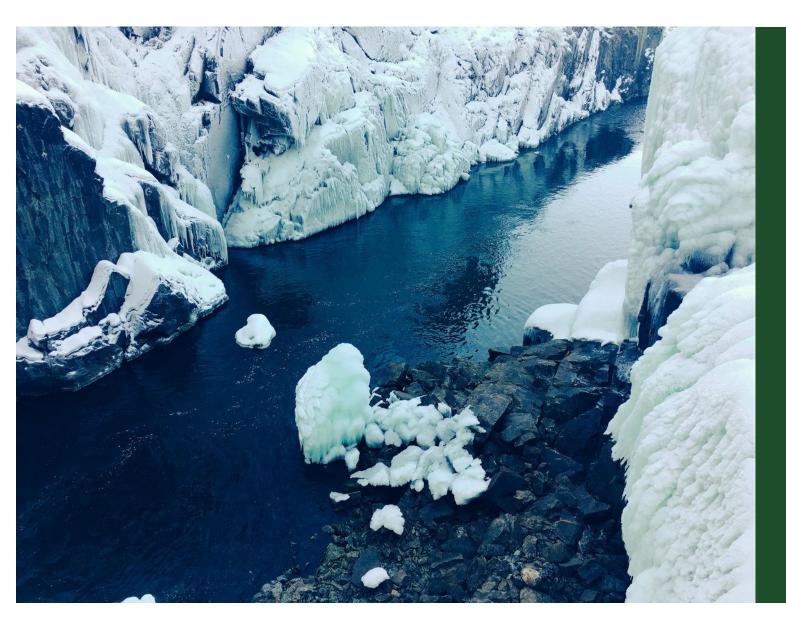
May 01, 2018 to May 16, 2018 Denver Grand Junction Colorado Springs (c) Midwestern Regional Climate Center 0 5 10 Stations from the following networks used: WBAN, COOP, GHCN, CoCoRaHS, -5

Average Temperature (°F): Departure from 1981-2010 Normals

Midwestern Regional Climate Center cli-MATE: MRCC Application Tools Environment Generated at: 5/16/2018 5:41:46 PM CDT



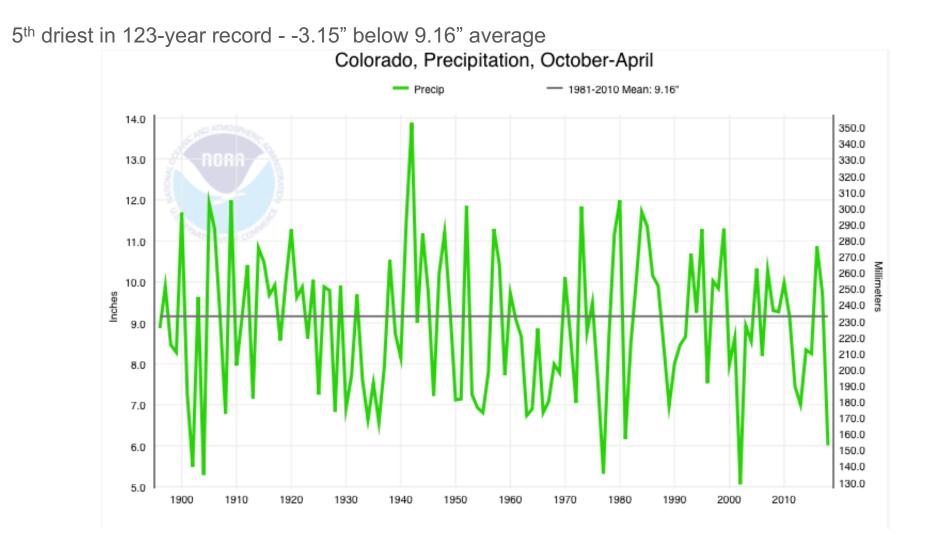




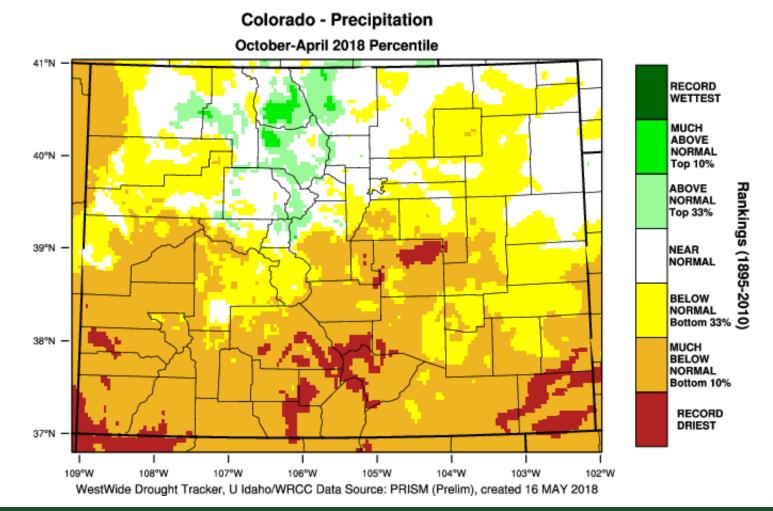


Water Year 2018 – Precipitation

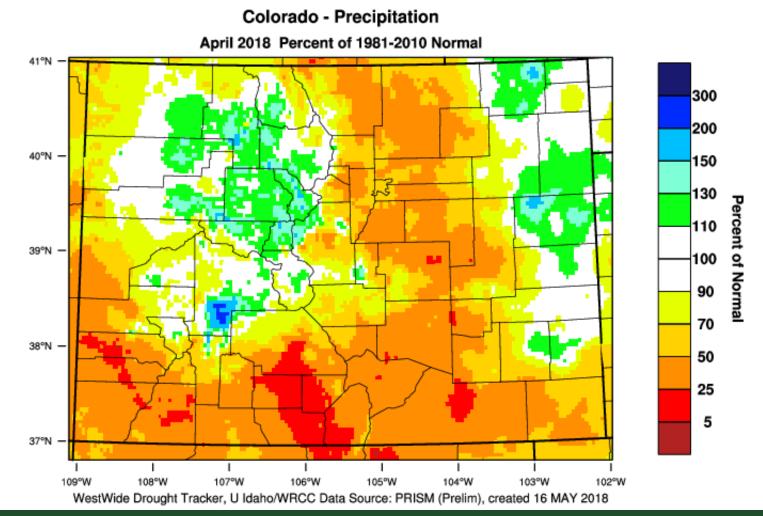






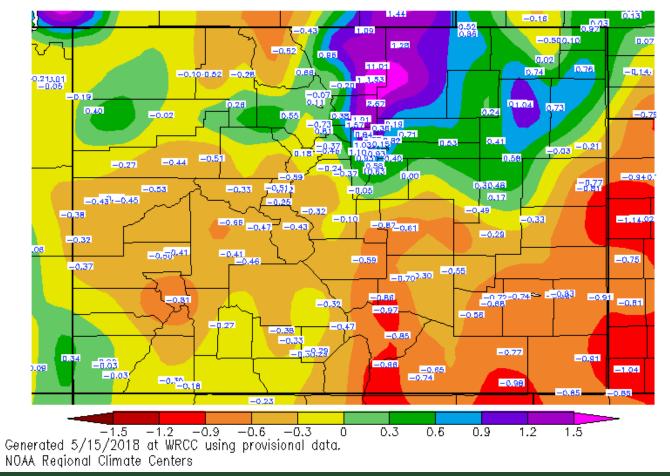








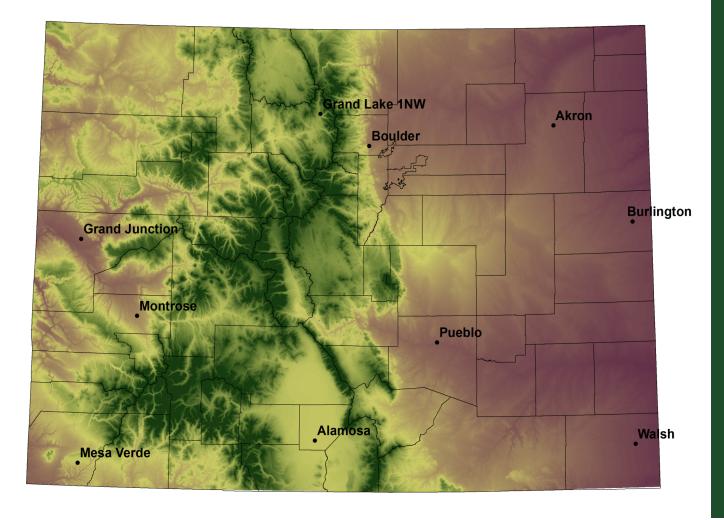
Precipitation Departure from Average (in.) 5/1/2018 - 5/14/2018







NWS Cooperative Stations for WATF

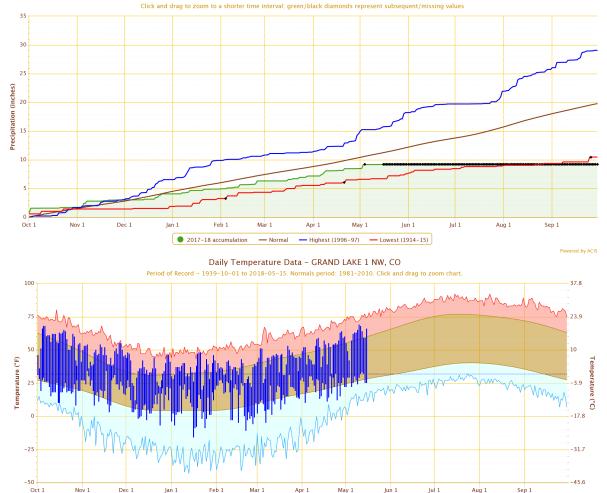


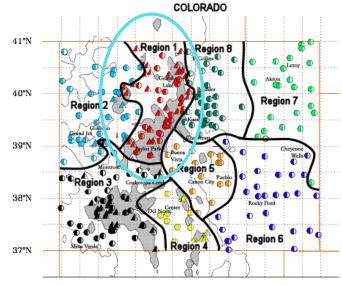


Water Year 2018 – <u>Sta</u>tion Updates



Accumulated Precipitation – GRAND LAKE 1 NW, CO





-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W

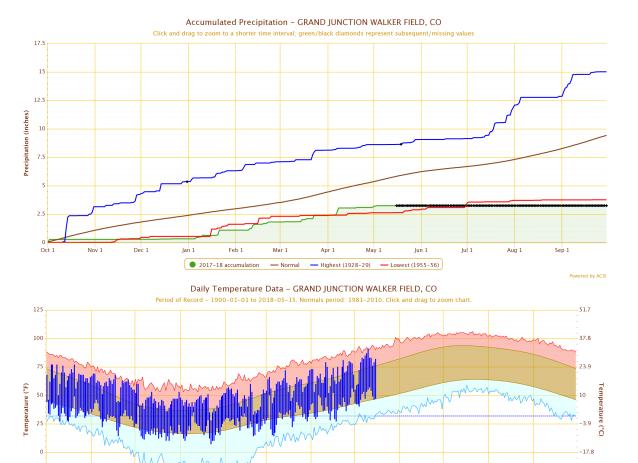
Observed temperature range (2017-2018)

- Record Max

- Record Min

Powered by ACIS

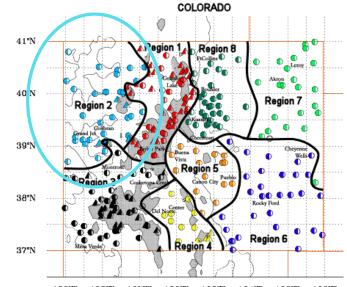




-31.7

-45.6

Powered by ACIS



 $-109^{\circ}W - 108^{\circ}W - 107^{\circ}W - 106^{\circ}W - 105^{\circ}W - 104^{\circ}W - 103^{\circ}W - 102^{\circ}W$

COLORADO CLIMATE CENTER

Feb 1

Mar 1

● Observed temperature range (2017-2018) ● Normal temperature range

Apr 1

May 1

Jun 1

- Record Max

Jul 1

- Record Min

Aug 1

Sep 1

-25

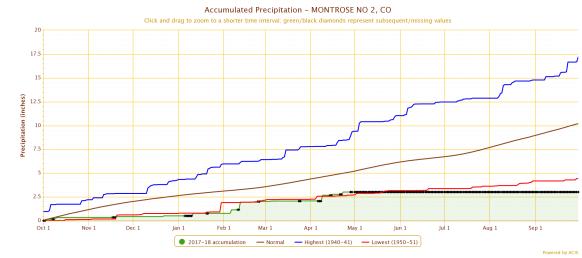
-50

Oct 1

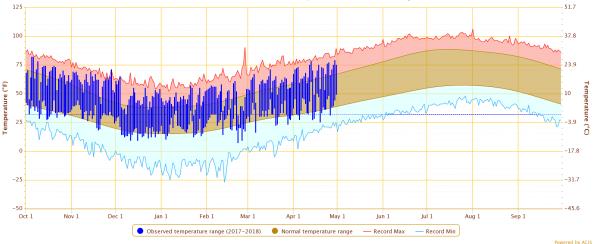
Nov 1

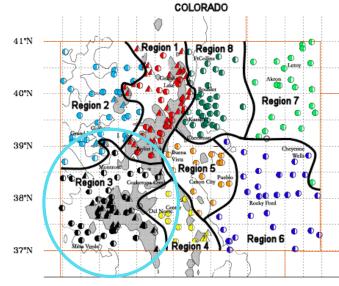
Dec 1

Jan 1



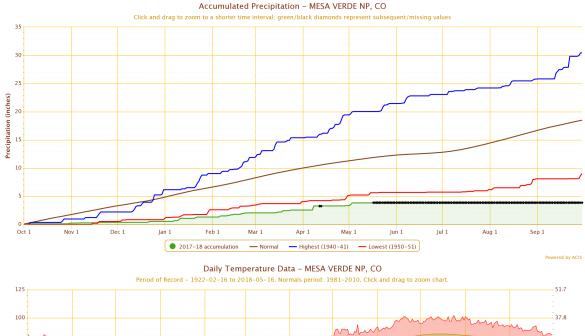
Daily Temperature Data - MONTROSE NO 2, CO Period of Record - 1895-10-01 to 2018-04-30. Normals period: 1981-2010. Click and drag to zoom chart.

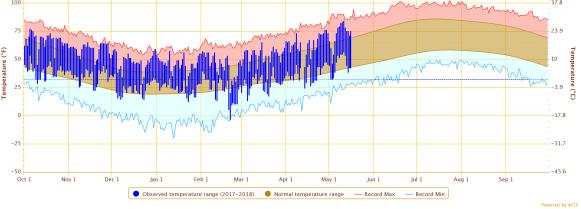


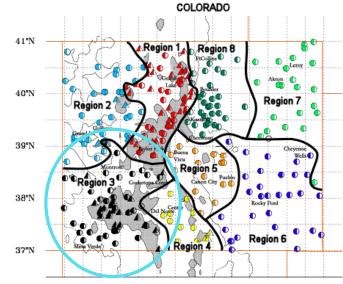


-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W



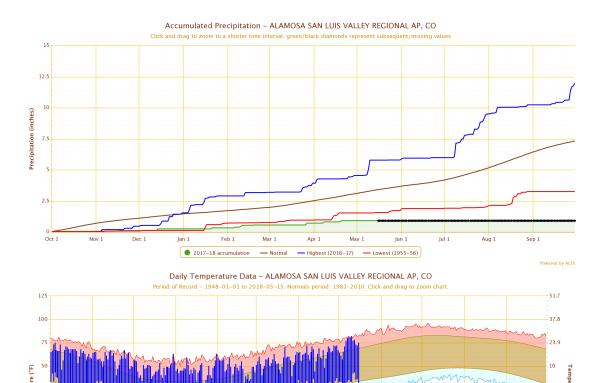






-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W



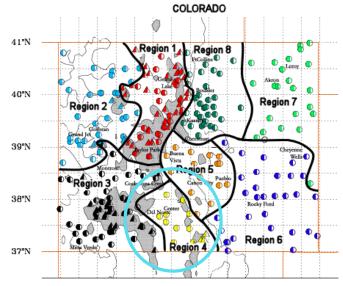


-3.9 rature (°C

-31.7

-45.6

Powered by ACIS



-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W

Feb 1

Mar 1

Apr 1

🕒 Observed temperature range (2017–2018) 🛛 🛑 Normal temperature range 🛛 — Record Max 🛛 — Record Min 🖉

May 1

Jun 1

Jul 1

Aug 1

Sep 1

-25

-50

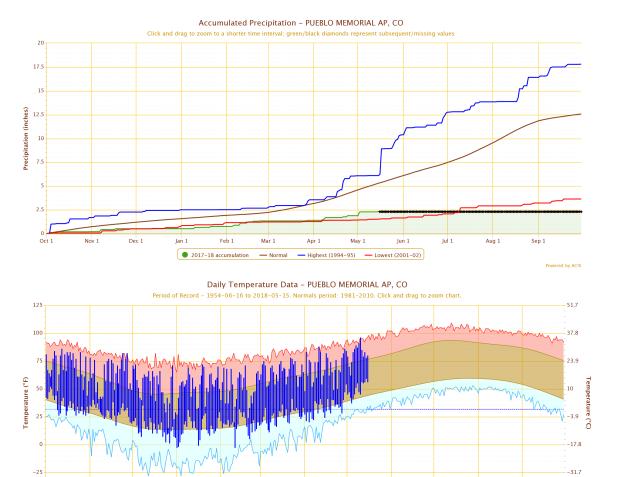
-75 Oct 1

Nov 1

Dec 1

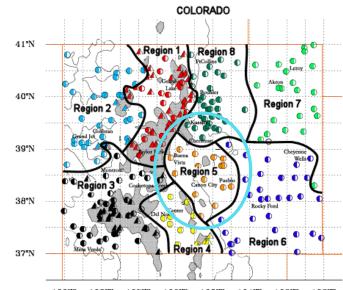
Jan 1





-45.6

Powered by ACIS



 $-109^{\circ}W - 108^{\circ}W - 107^{\circ}W - 106^{\circ}W - 105^{\circ}W - 104^{\circ}W - 103^{\circ}W - 102^{\circ}W$

Feb 1

Mar 1

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🔵 Observed temperature range (2017–2018) 🛛 🔴 Normal temperature range 🛛 — Record Max 🛛 — Record Min

May 1

Jun 1

Jul 1

Aug 1

Sep 1

-50

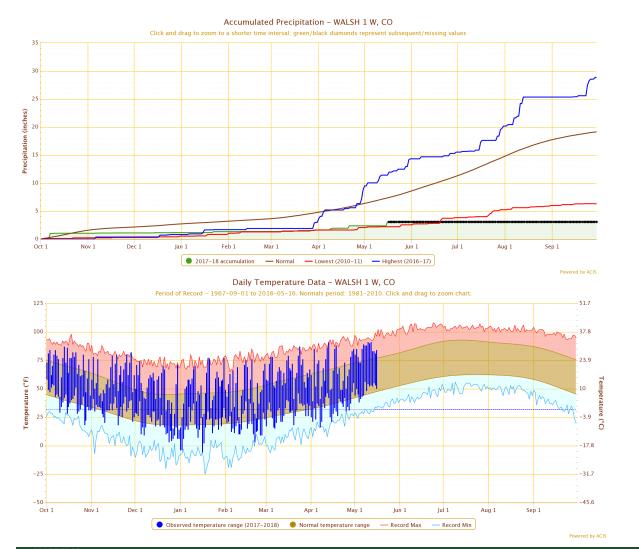
Oct 1

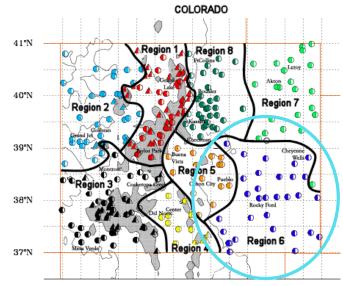
Nov 1

Dec 1

Jan 1

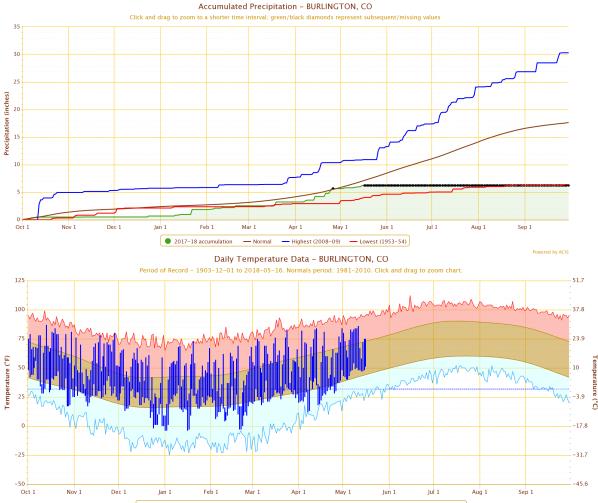






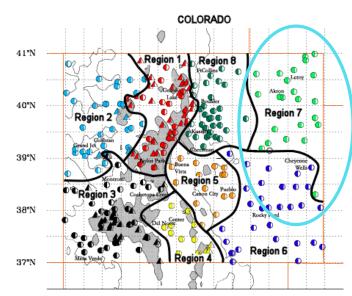
-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W





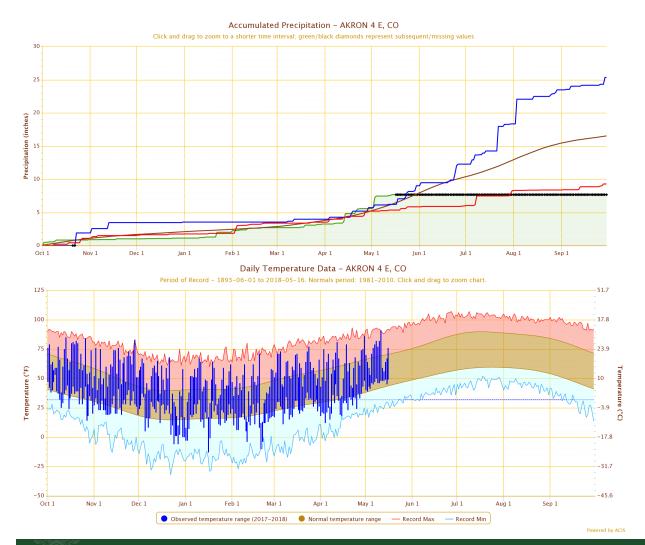
🔵 Observed temperature range (2017–2018) 🛛 🌑 Normal temperature range 🛛 — Record Max 🛛 — Record Min 🖉

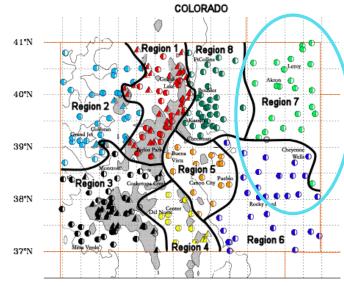
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-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W

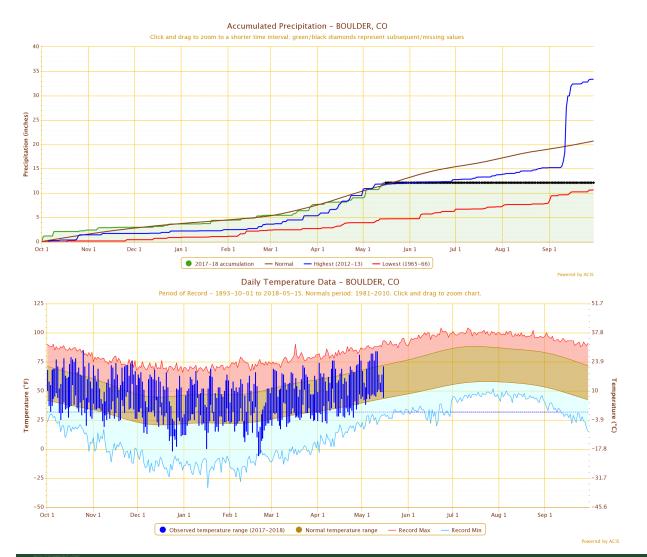


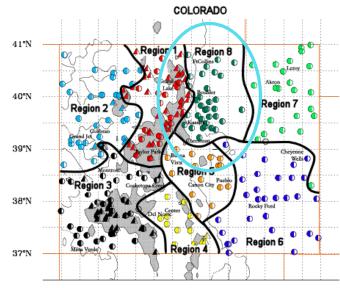




-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W







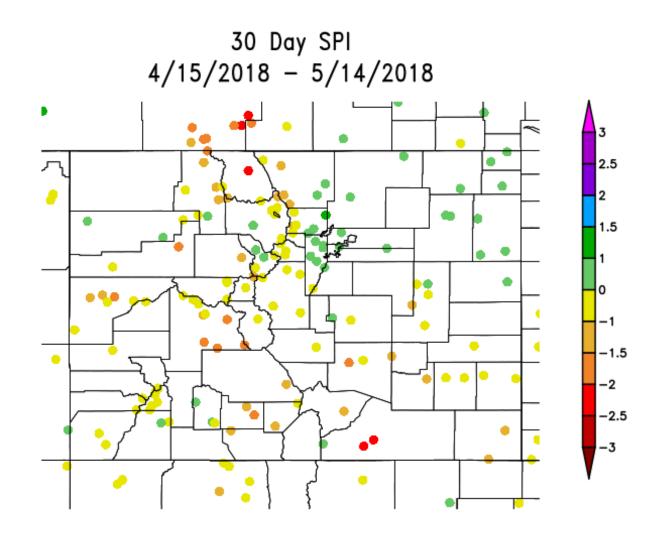
-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W





Colorado Drought

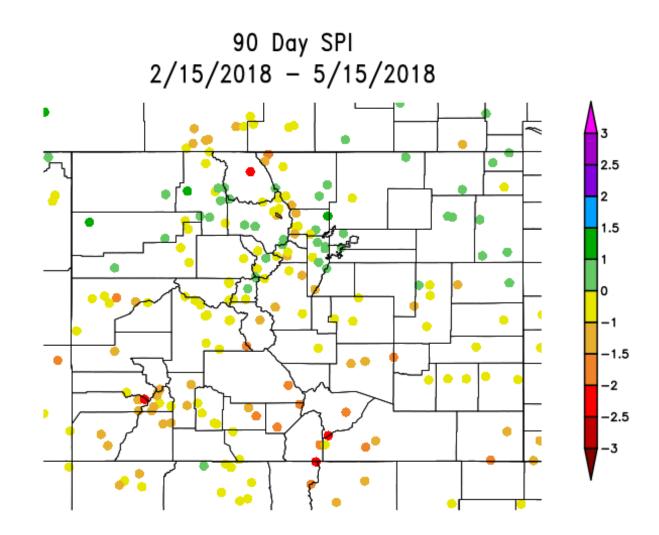




Generated 5/15/2018 at HPRCC using provisional data.



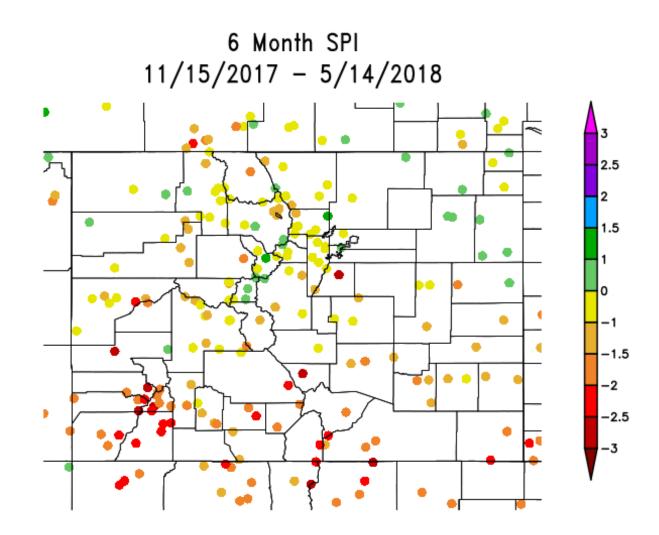




Generated 5/16/2018 at HPRCC using provisional data.



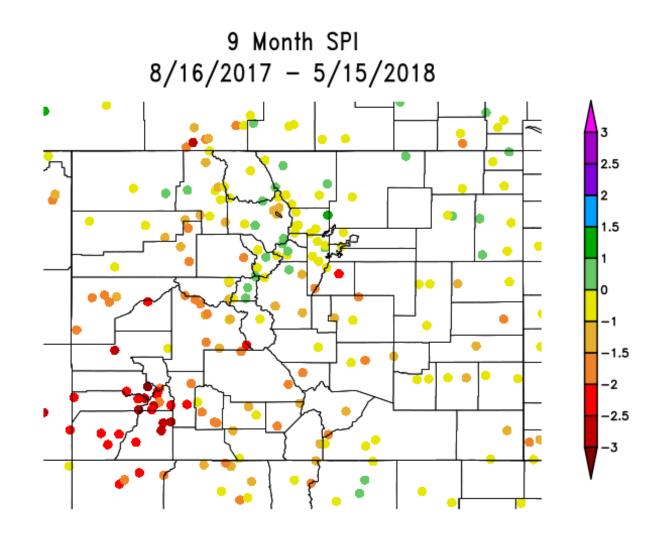




Generated 5/15/2018 at HPRCC using provisional data.



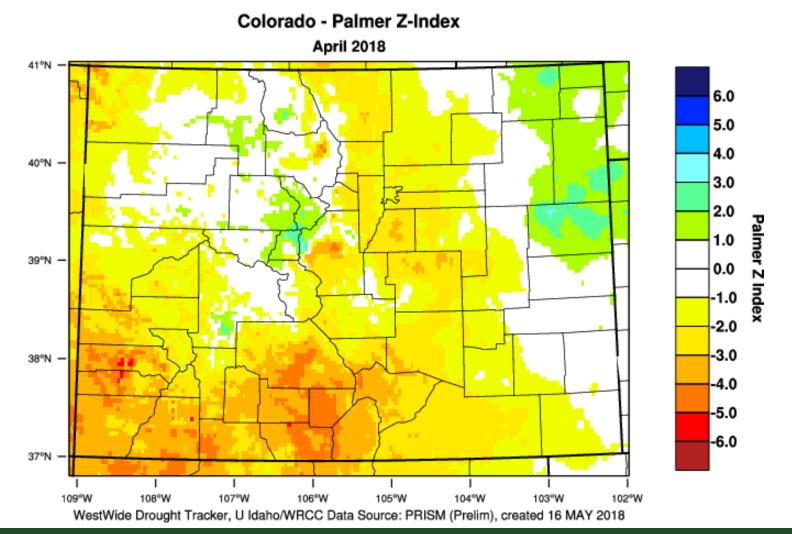


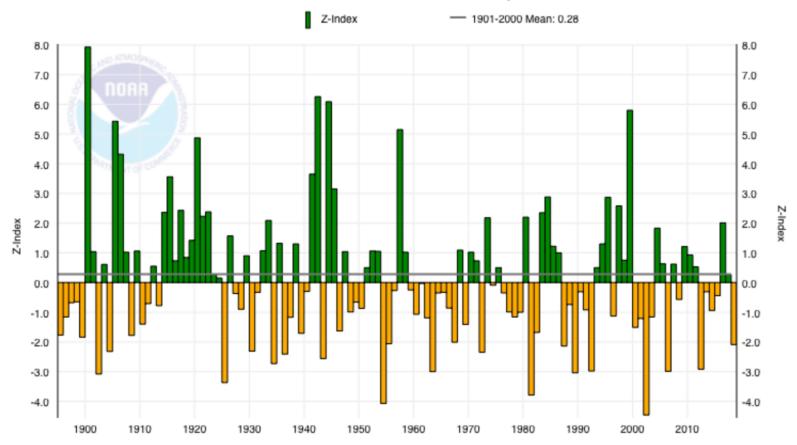


Generated 5/16/2018 at HPRCC using provisional data.









Colorado, Palmer Z-Index, April



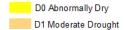
U.S. Drought Monitor Continental U.S. (CONUS)

January 16, 2018

(Released Thursday, Jan. 18, 2018) Valid 7 a.m. EST

	Drought Conditions (Percent Area)							
		None	D0-D4	D1-D4	D2-D4	D3-D4	D4	
	Current	39.07	60.93	33.04	10.03	0.64	0.00	
	Last Week 01-09-2018	42.20	57.80	32.07	8.70	0.46	0.00	
	3 Month s Ago 10-17-2017	62.25	37.75	12.48	2.98	0.82	0.00	
	Start of Calendar Year 01-02-2018	44.46	55.54	27.70	7.46	0.83	0.00	
	Start of Water Year 09-26-2017	<u>63.07</u>	36.93	13.81	4.99	2.36	0.87	
	One Year Ago 01-17-2017	60.50	39.50	19.26	<u>6</u> .77	2.39	0. 11	

Intensity:



D4 Exceptional Drought

D3 Extreme Drought

D2 Severe Drought

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

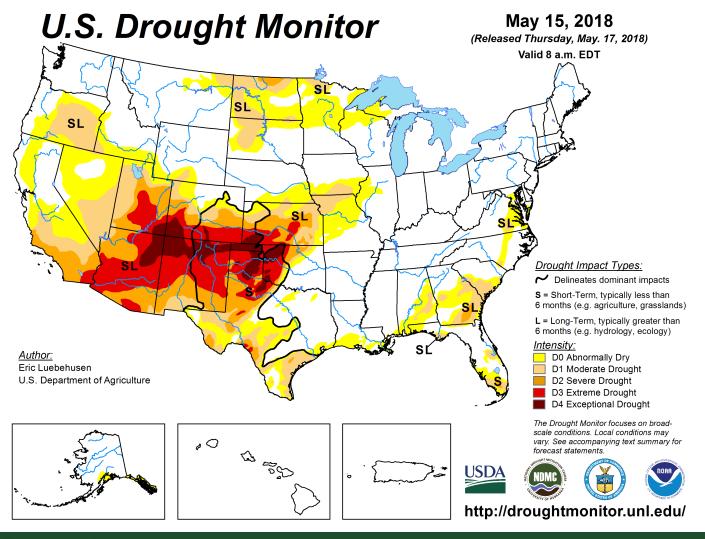
Author:

Brian Fuchs National Drought Mitigation Center



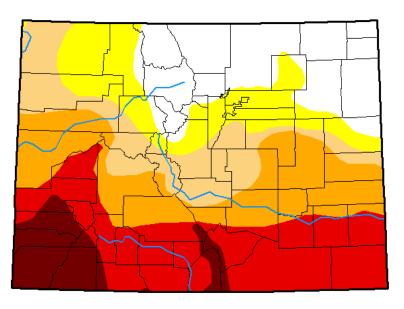
http://droughtmonitor.unl.edu/





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U.S. Drought Monitor Colorado

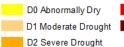


May 15, 2018 (Released Thursday, May. 17, 2018)

Valid 8 a.m. EDT

	Drought Conditions (Percent Area)							
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4		
Current	20.49	79.51	65.53	51.14	30.89	7.79		
Last Week 05-08-2018	18.02	81.98	67.98	51.57	30.89	7.40		
3 Month s Ago 02-13-2018	8.59	91.41	71.18	33.51	0.00	0.00		
Start of Calendar Year 01-02-2018	6.57	93.43	33.53	7.27	0.00	0.00		
Start of Water Year 09-26-2017	67.63	32.37	3.72	0.00	0.00	0.00		
One Year Ago 05-16-2017	81.26	18.74	0.41	0.00	0.00	0.00		

Intensity:



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

D3 Extreme Drought

D4 Exceptional Drought

Author:

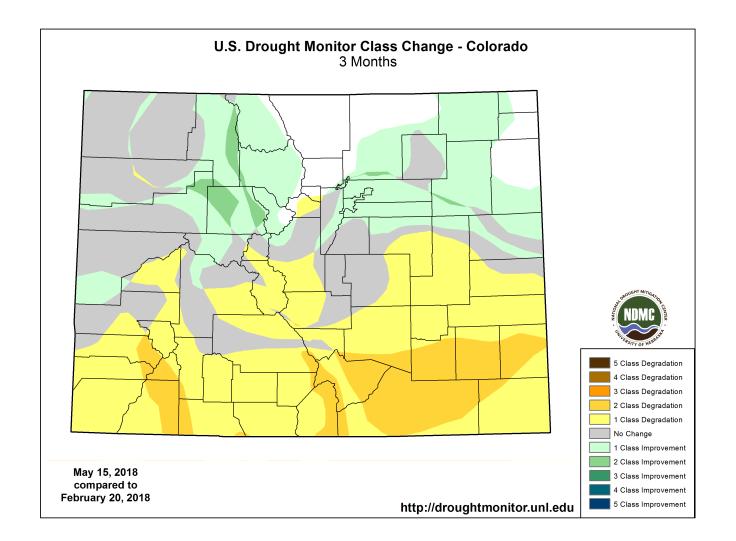
Eric Luebehusen U.S. Department of Agriculture



http://droughtmonitor.unl.edu/

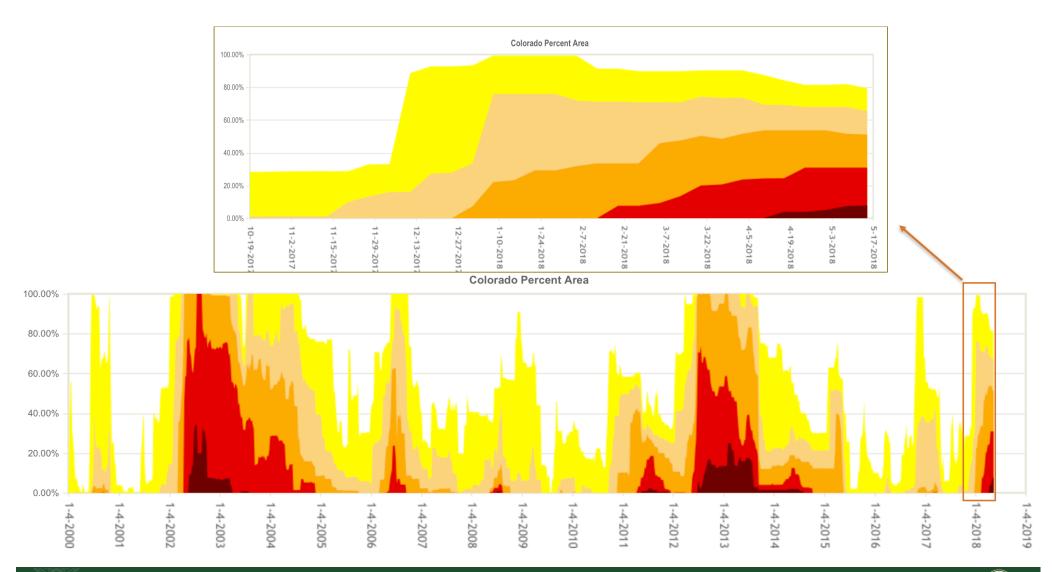
COLORADO CLIMATE CENTER

R.P.









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To view this and other presentations: http://climate.colostate.edu/ccc_archive.html

Thank you

