Colorado Climate Center – WATF Climate Update

Becky Bolinger

Water Availability Task Force January 18, 2018

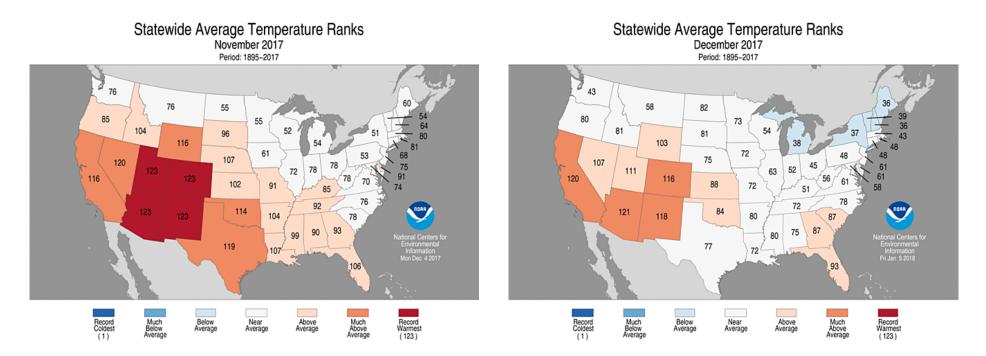




Water Year 2018 –

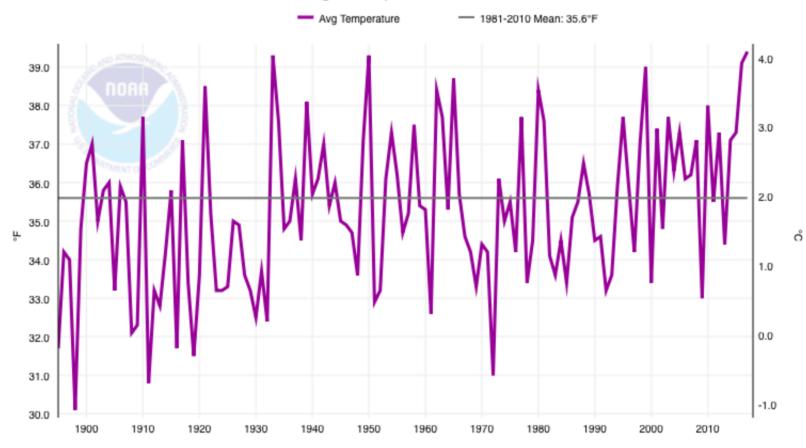
Temperature





Refe

1st Warmest in 123-year record - +3.8°F above 35.6°F average

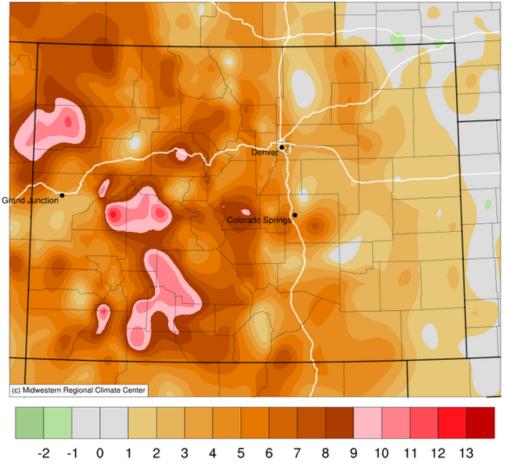


Colorado, Average Temperature, October-December

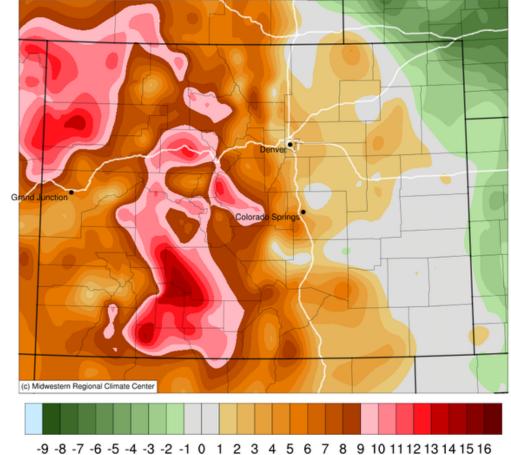


Average Temperature (°F): Departure from 1981-2010 Normals Average Temperature (°F): Departure from 1981-2010 Normals

December 01, 2017 to December 31, 2017

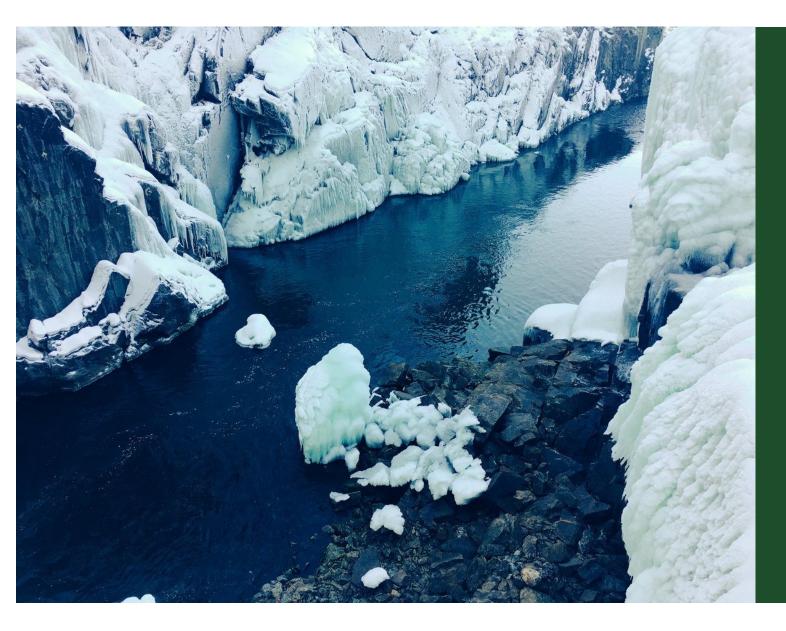


January 01, 2018 to January 16, 2018



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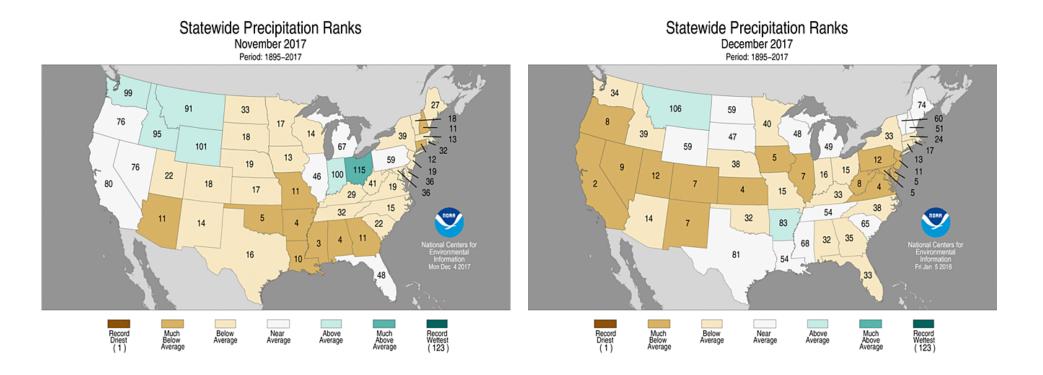
Store 1



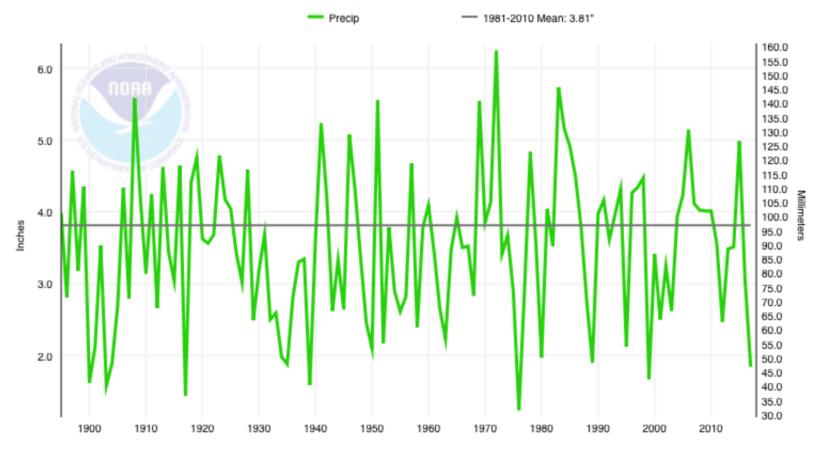


Water Year 2018 – Precipitation





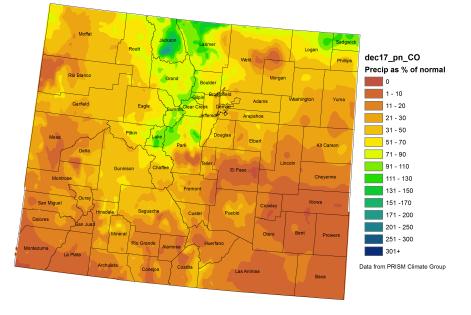
7th driest in 123-year record - -1.97" below 3.81" average



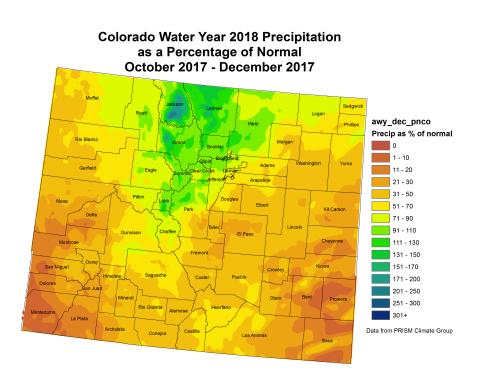
Colorado, Precipitation, October-December

COLORADO CLIMATE CENTER

Ref.

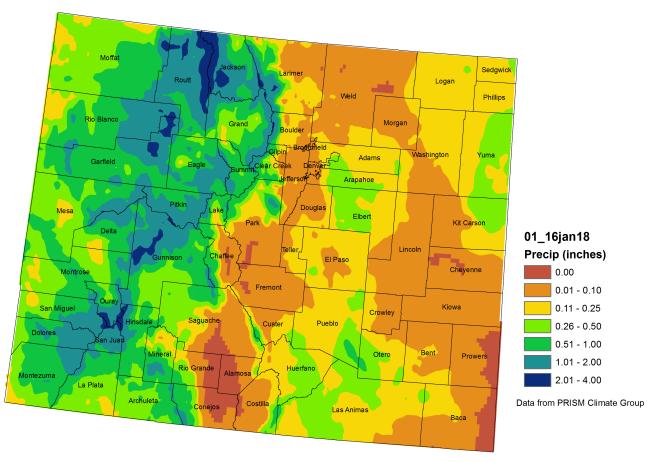


Colorado December 2017 Precipitation as a Percentage of Normal



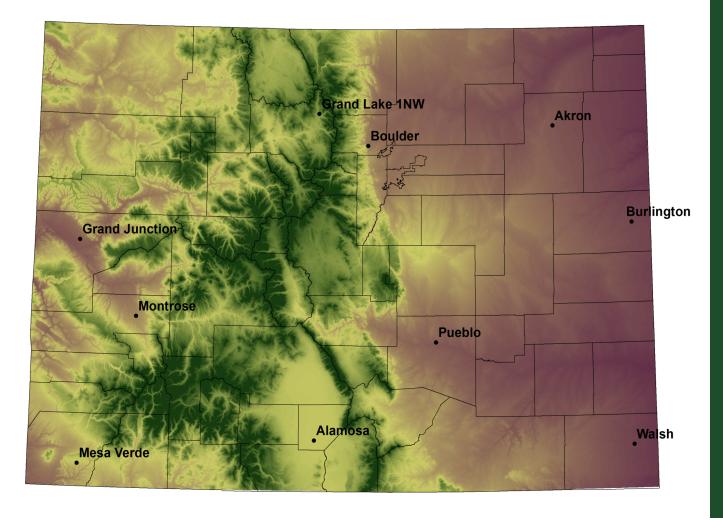


Colorado Month to Date Precipitation 1 - 16 January 2018





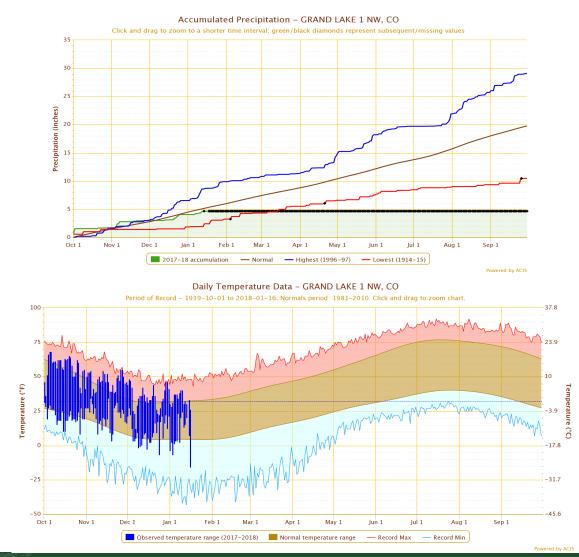
NWS Cooperative Stations for WATF

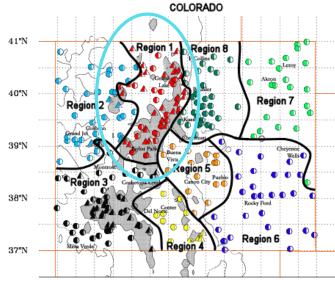




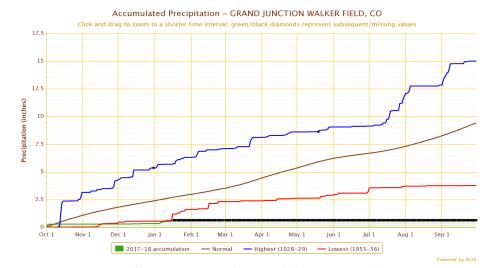
Water Year 2018 – <u>Sta</u>tion Updates



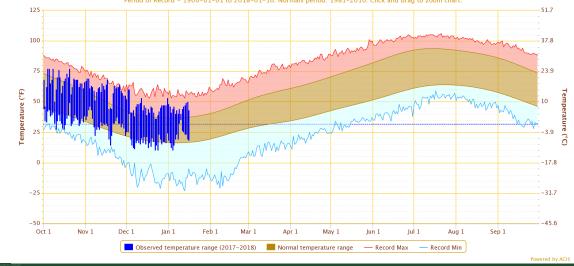


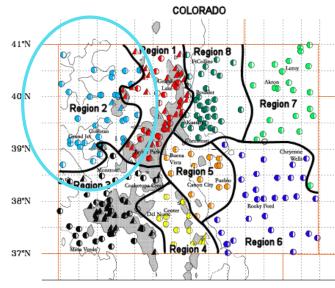


-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W



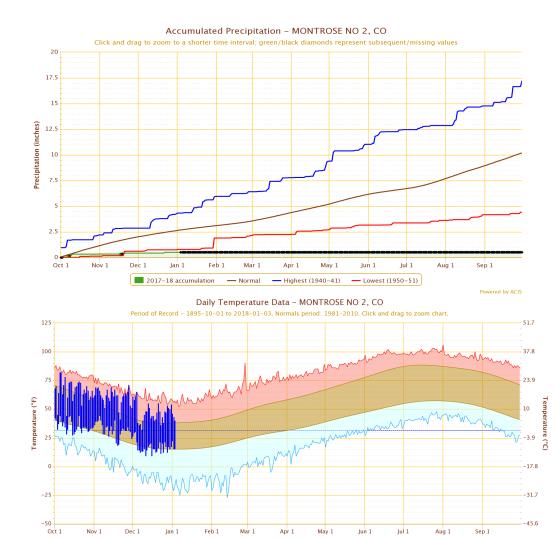
Daily Temperature Data – GRAND JUNCTION WALKER FIELD, CO Period of Record – 1900-01-01 to 2018-01-16. Normals period: 1981-2010. Click and drag to zoom chart.



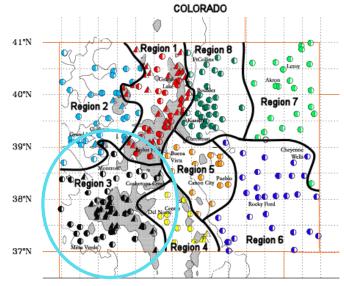


-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W



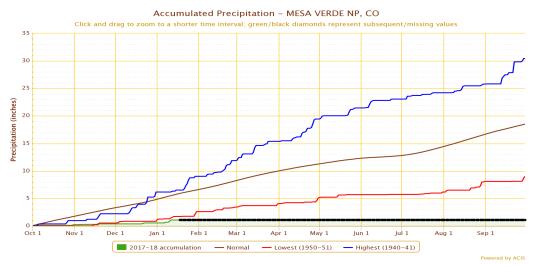


🗖 Observed temperature range (2017–2018) 📕 Normal temperature range 🧼 Record Max 🔶 Record Min

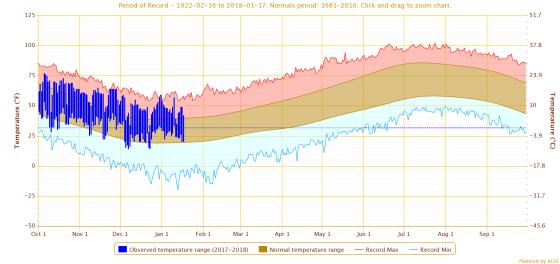


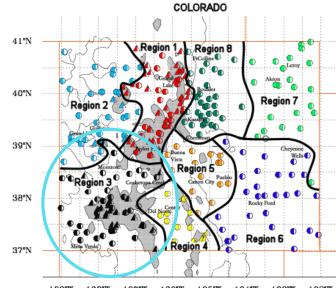
-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W





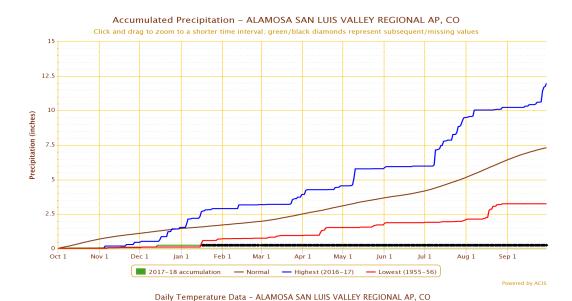
Daily Temperature Data – MESA VERDE NP, CO

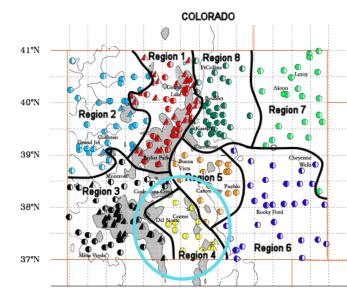




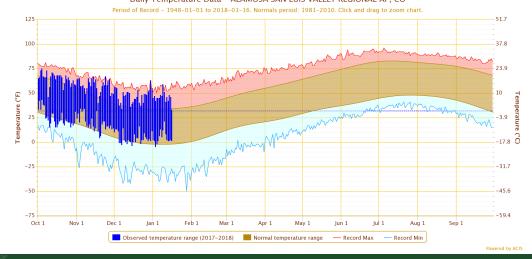
-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W





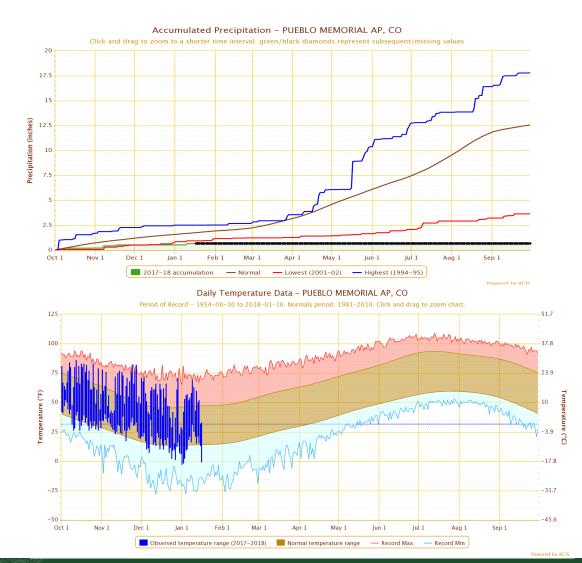


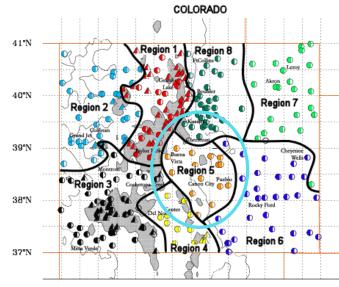
-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W





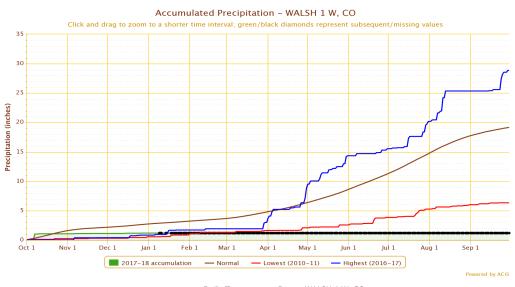


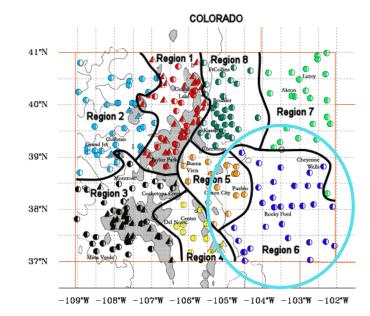




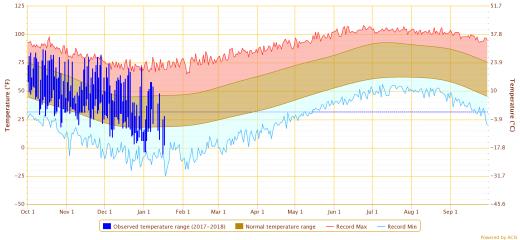
-109°W -108°W -107°W -106°W -105°W -104°W -103°W -102°W



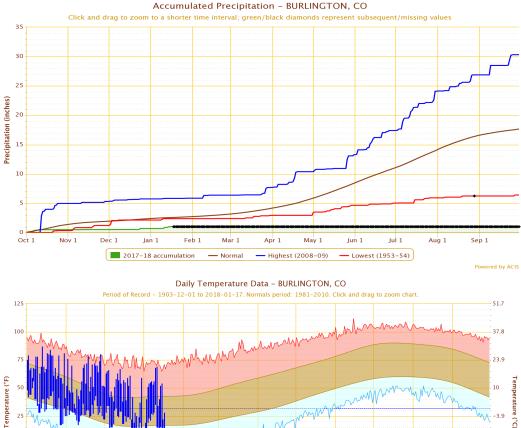


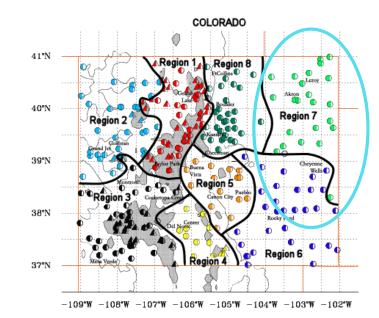


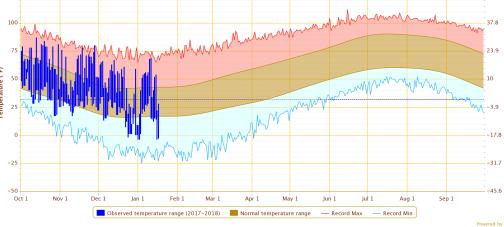
Daily Temperature Data – WALSH 1 W, CO Period of Record – 1967-09-01 to 2018-01-17. Normals period: 1981-2010. Click and drag to zoom chart.

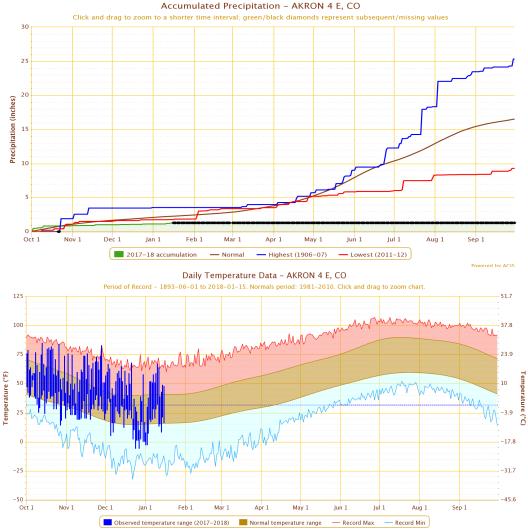


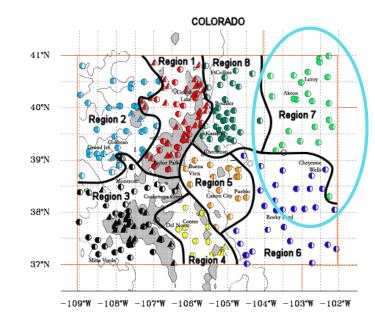






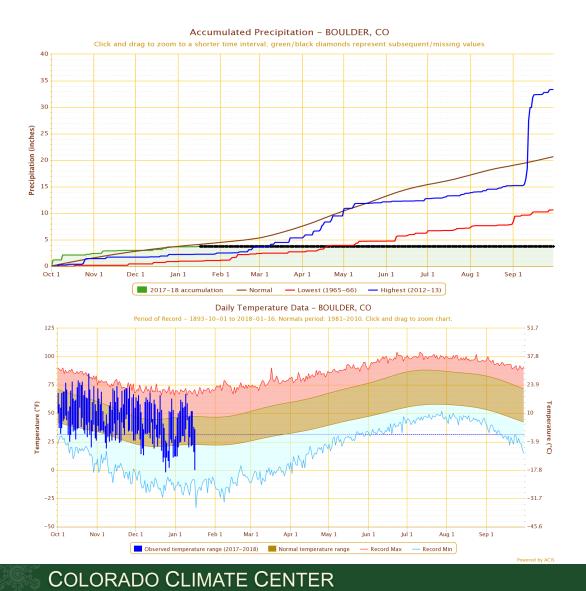


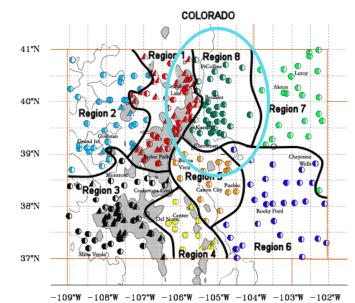




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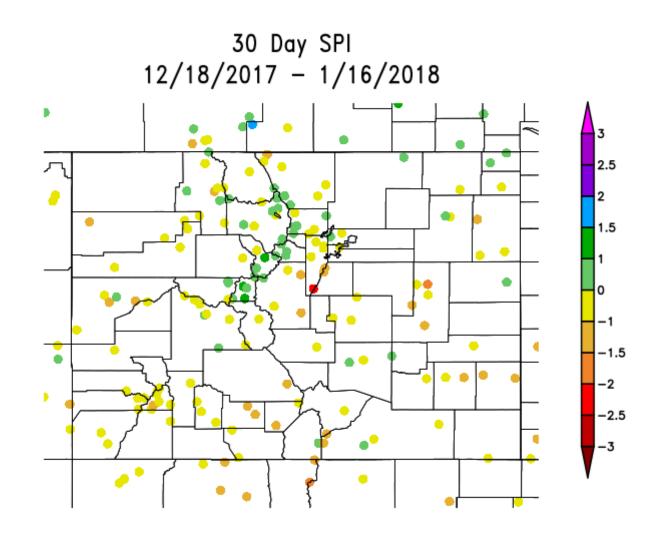






Colorado Drought

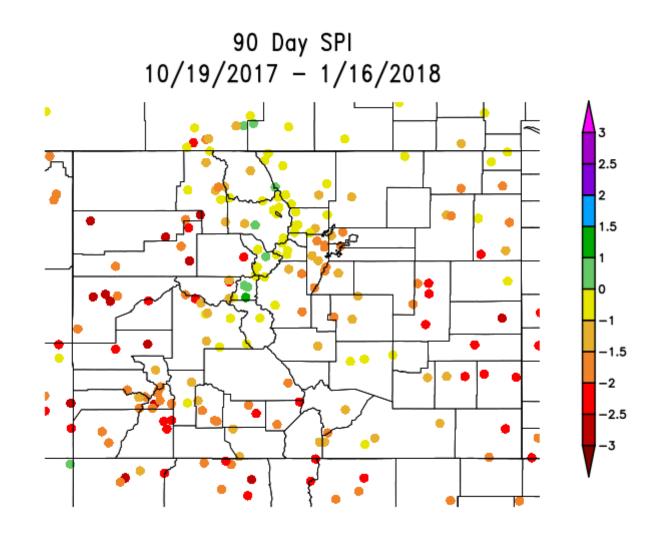




Generated 1/17/2018 at HPRCC using provisional data.



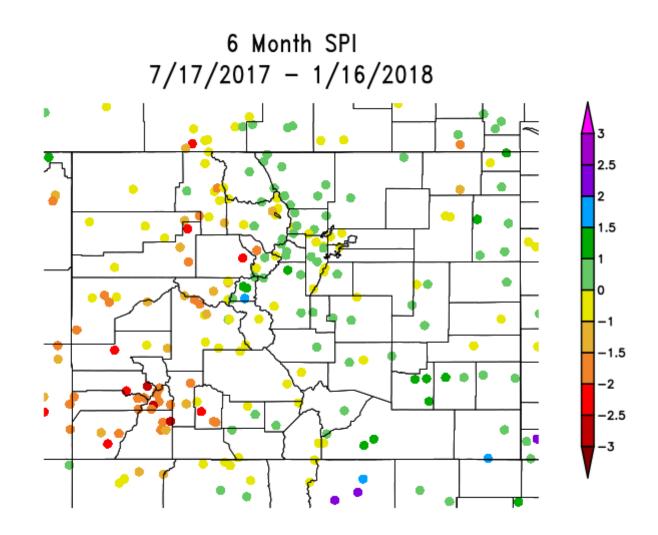




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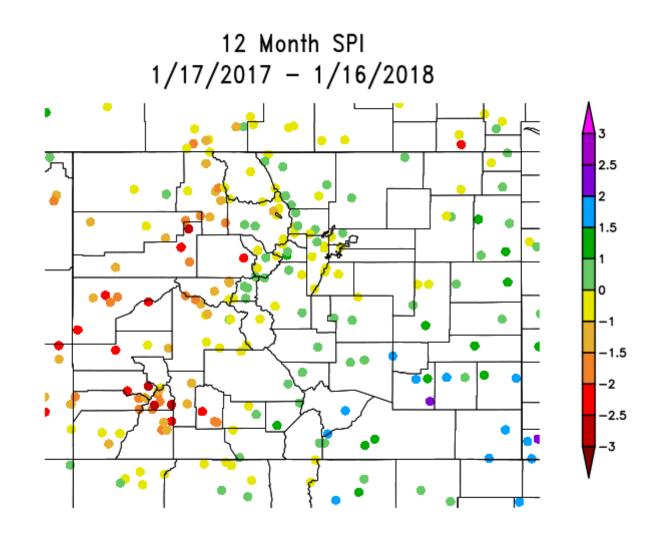




Generated 1/17/2018 at HPRCC using provisional data.



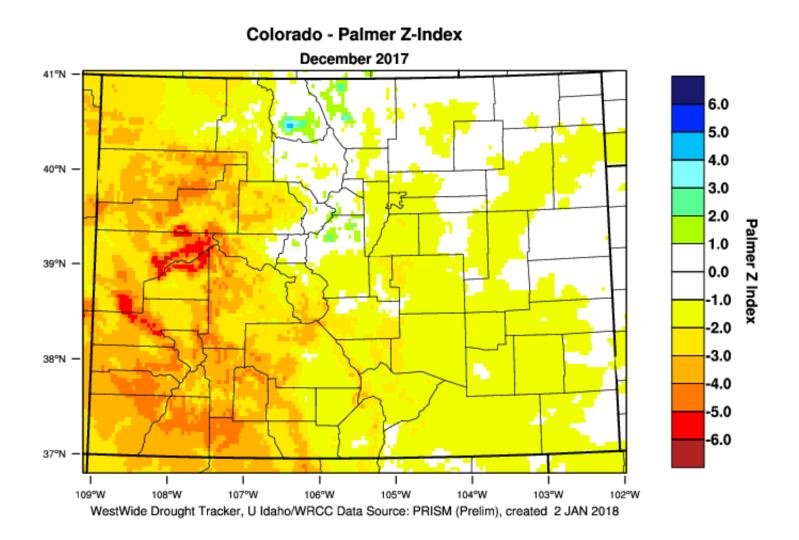




Generated 1/17/2018 at HPRCC using provisional data.

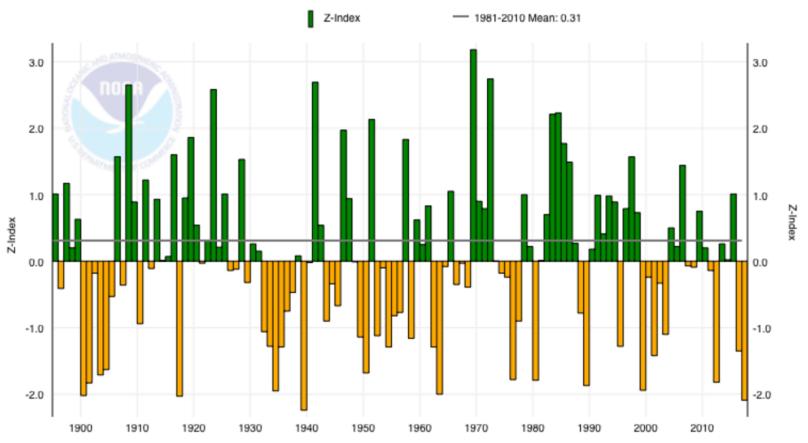








2nd lowest in 123-year record - -2.40 below 0.31 average



Colorado, Palmer Z-Index, October-December



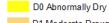
U.S. Drought Monitor Continental U.S. (CONUS)

January 16, 2018

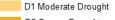
(Released Thursday, Jan. 18, 2018) Valid 7 a.m. EST

	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:



D3 Extreme Drought D4 Exceptional Drought



D2 Severe Drought

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

Author:

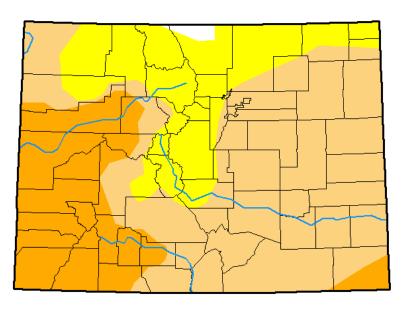
Brian Fuchs National Drought Mitigation Center



http://droughtmonitor.unl.edu/



U.S. Drought Monitor Colorado

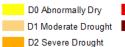


January 16, 2018

(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	0.59	99.41	75.90	23.23	0.00	0.00		
Last Week 01-09-2018	0.59	99.41	75.90	22.02	0.00	0.00		
3 Month s Ago 10-17-2017	71.71	28.29	1.12	0.00	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 01-17-2017	44.17	55.83	35.34	0.75	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:

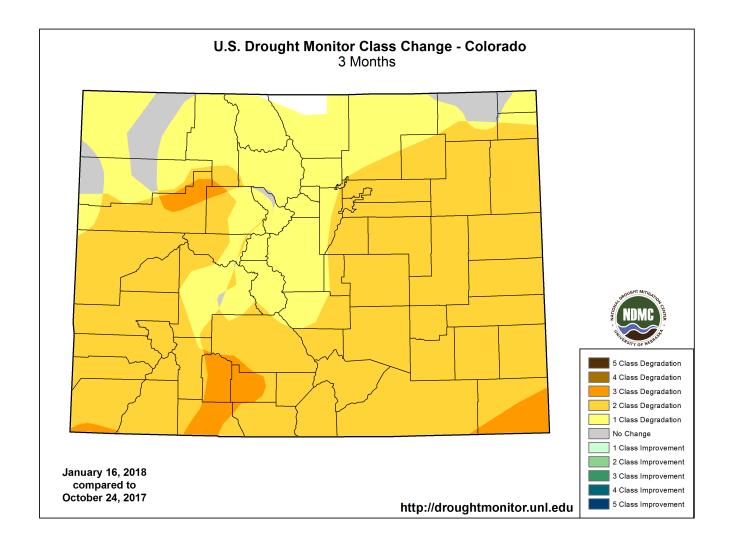
Brian Fuchs National Drought Mitigation Center



http://droughtmonitor.unl.edu/

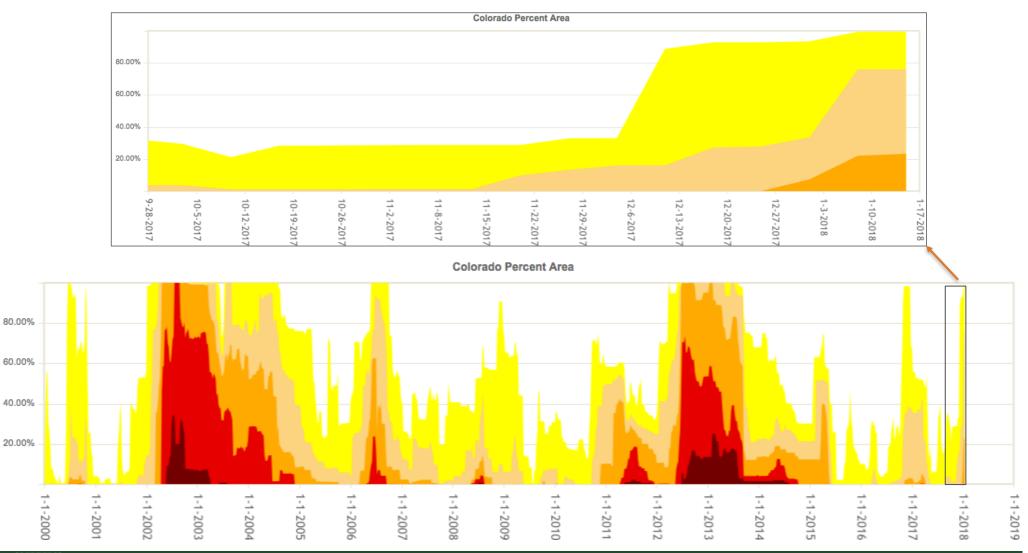
COLORADO CLIMATE CENTER

REP









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

Thank you

