

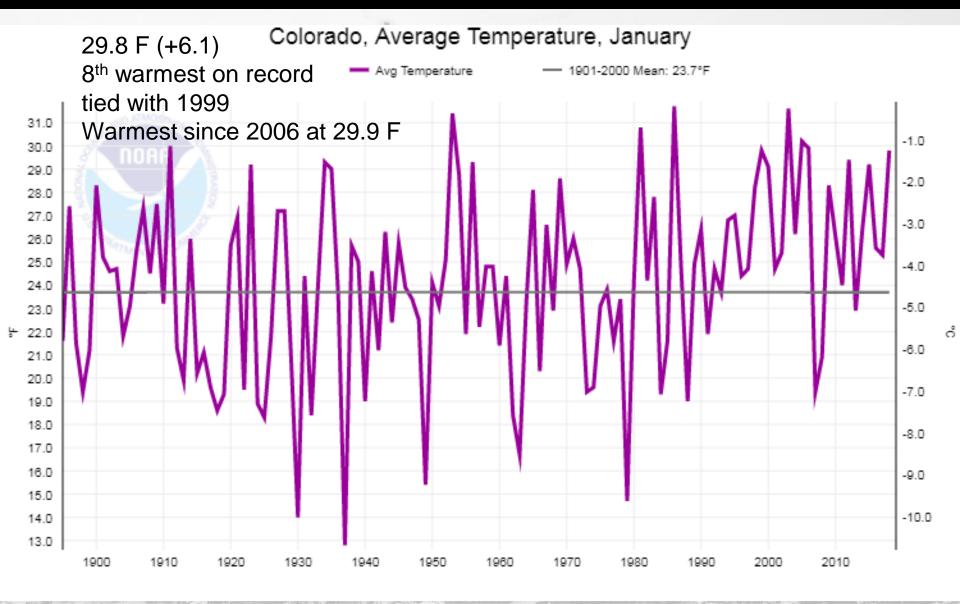
CLIMATE Climate Update Colorate



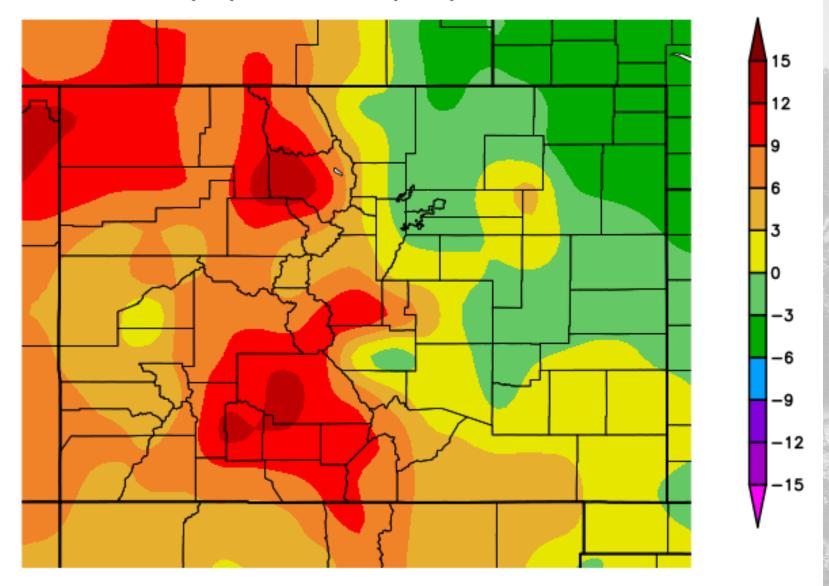
Peter Goble Colorado Climate Center

Presented to **Water Availability Task Force** February 22, 2018 Denver, CO

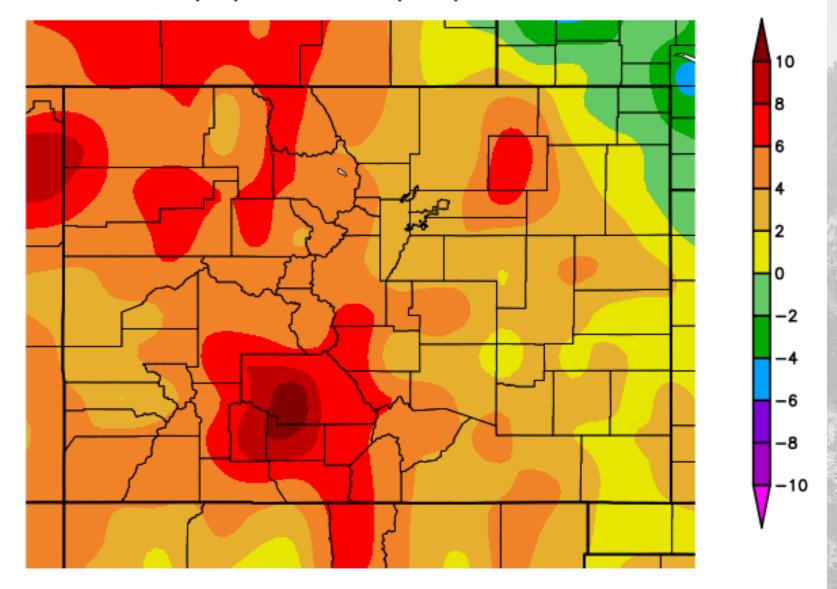
Jan 2018 Average Temperature History for Colorado (NCEI)

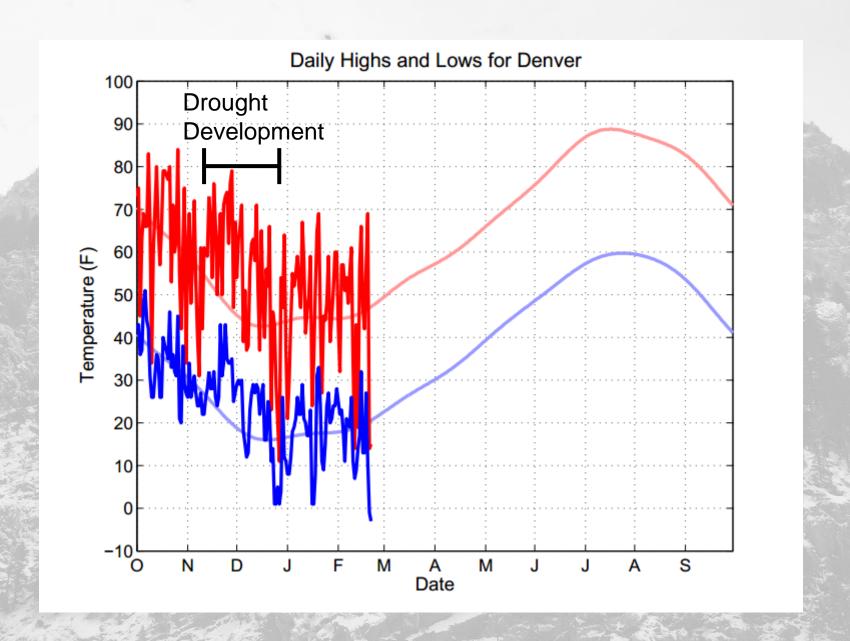


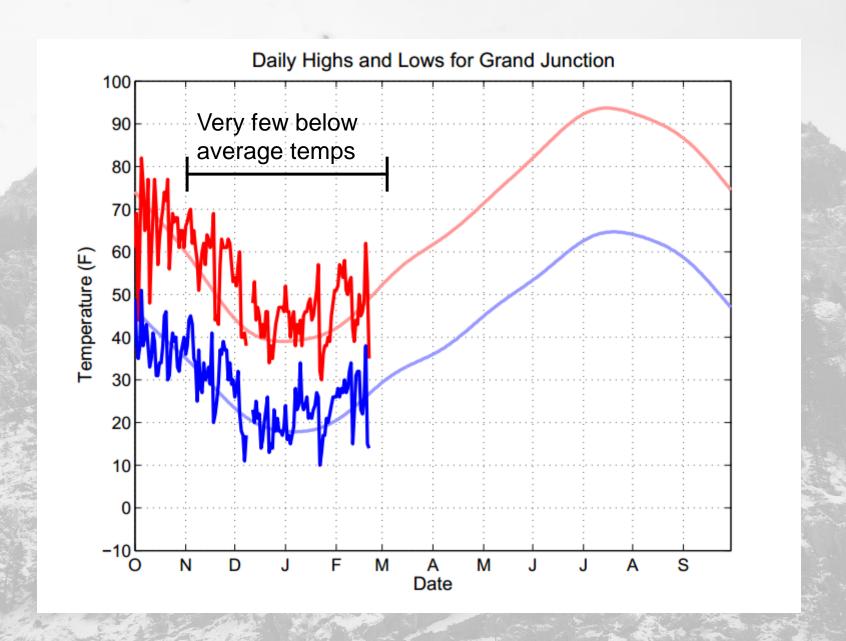
Departure from Normal Temperature (F) 2/1/2018 - 2/20/2018



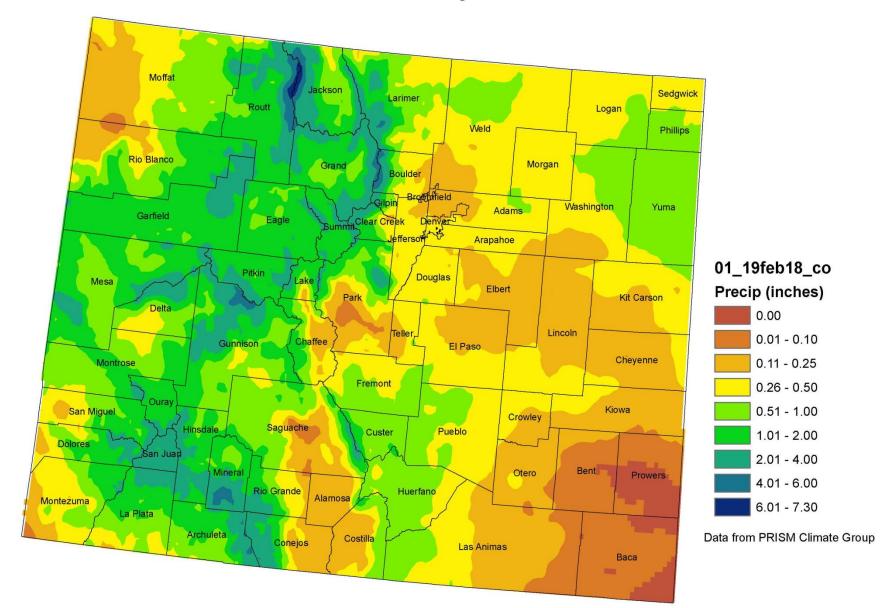
Departure from Normal Temperature (F) 1/1/2018 - 1/31/2018



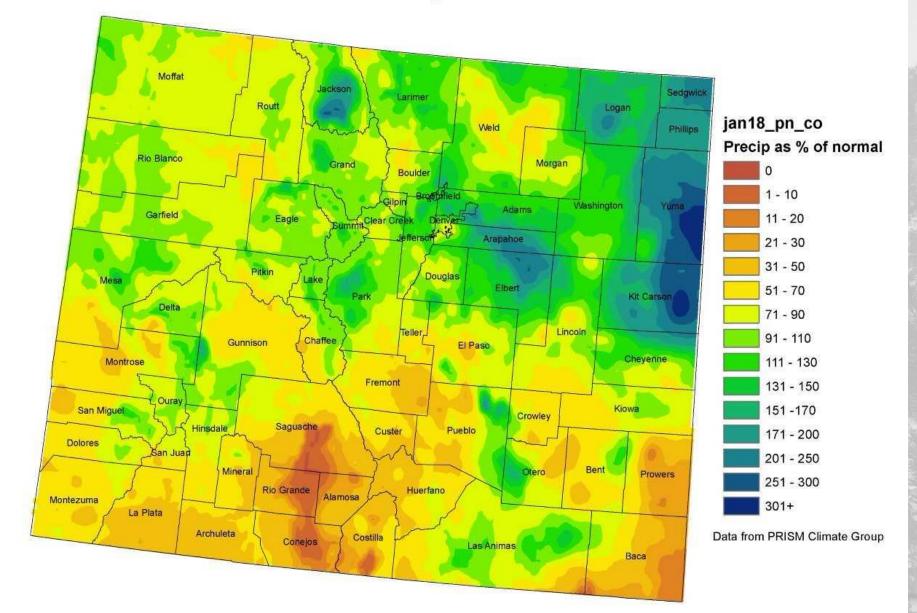




Colorado Month to Date Precipitation 1 - 19 February 2018



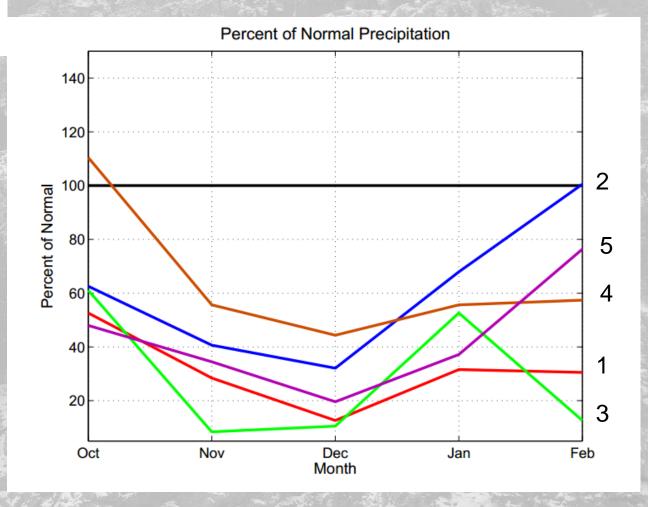
Colorado January 2018 Precipitation as a Percentage of Normal



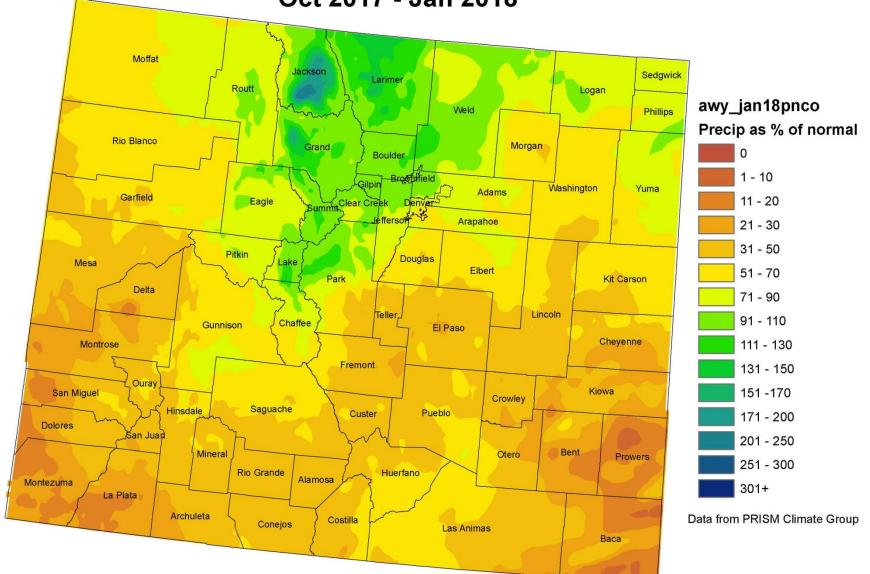
2 3

Colorado Climate Divisions

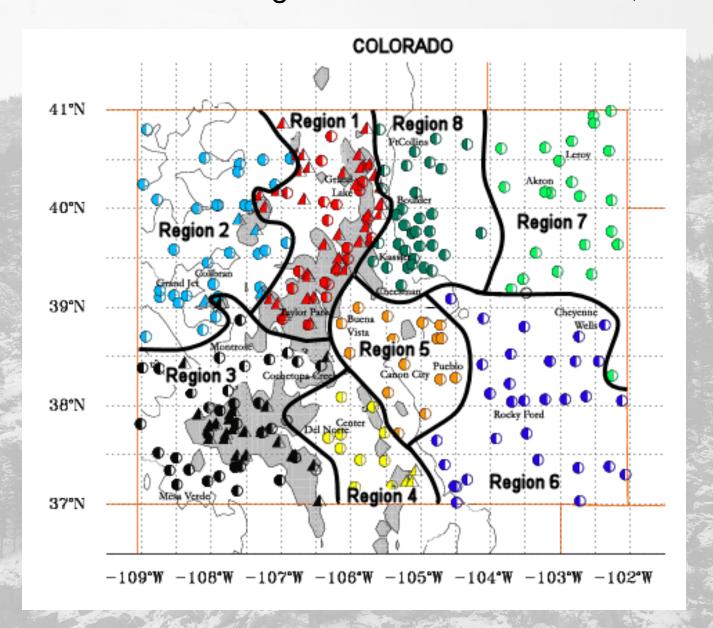
Precipitation By Climate Division



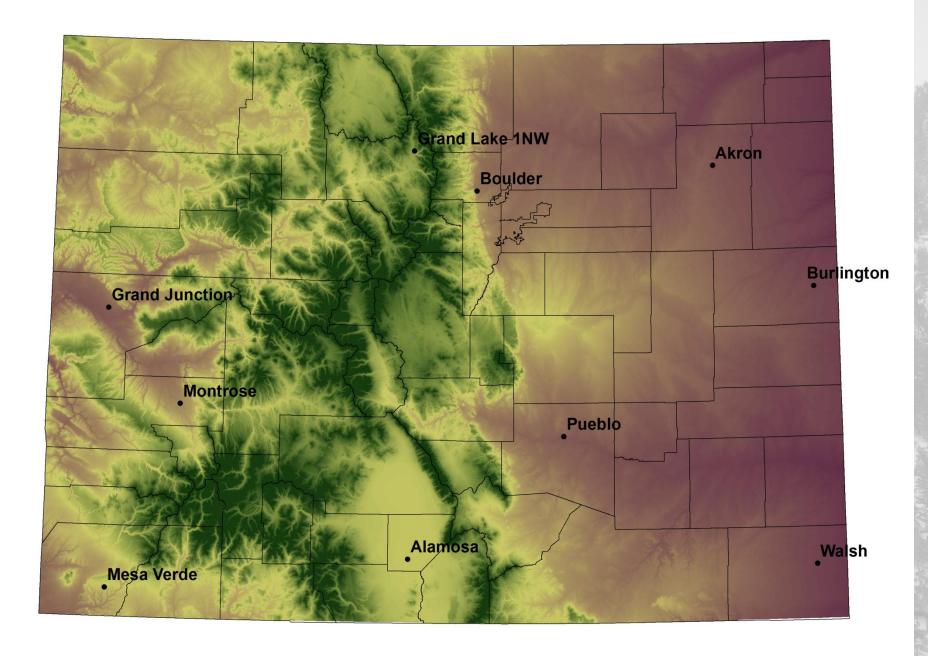
Colorado Water Year 2018 Precipitation as a Percentage of Normal Oct 2017 - Jan 2018



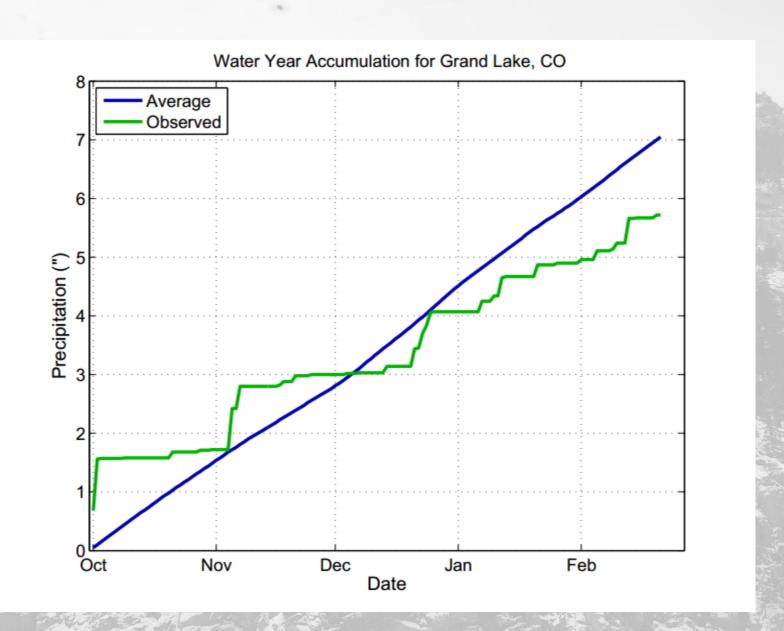
Climate divisions defined by Dr. Klaus Wolter of NOAA's Climate Diagnostic Center in Boulder, CO



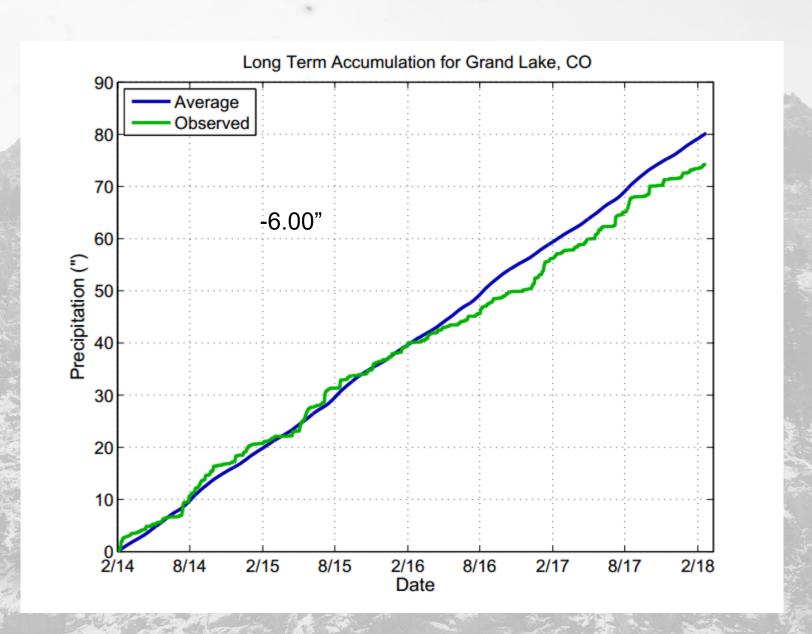
NWS Cooperative Stations for WATF



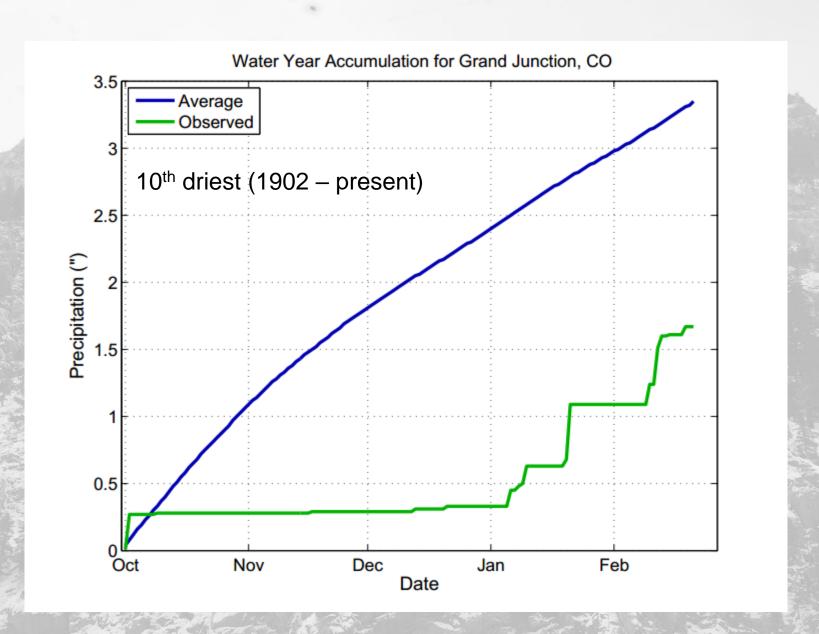
Division 1 - Grand Lake 1NW



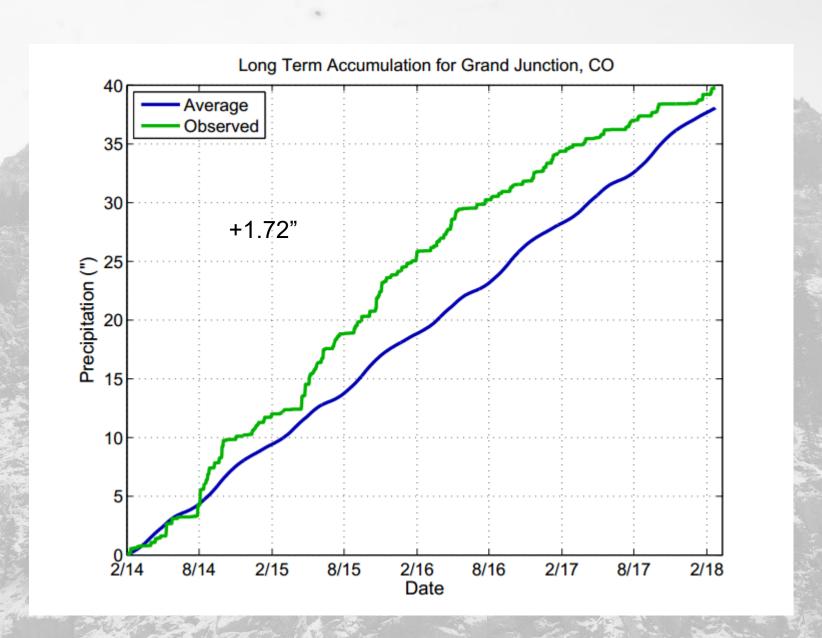
Division 1 - Grand Lake 1NW



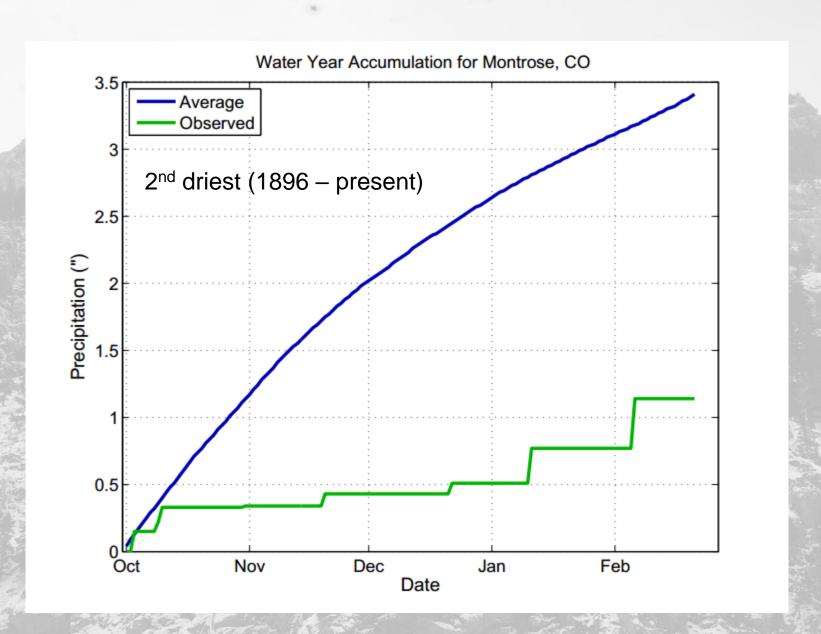
Division 2 – Grand Junction



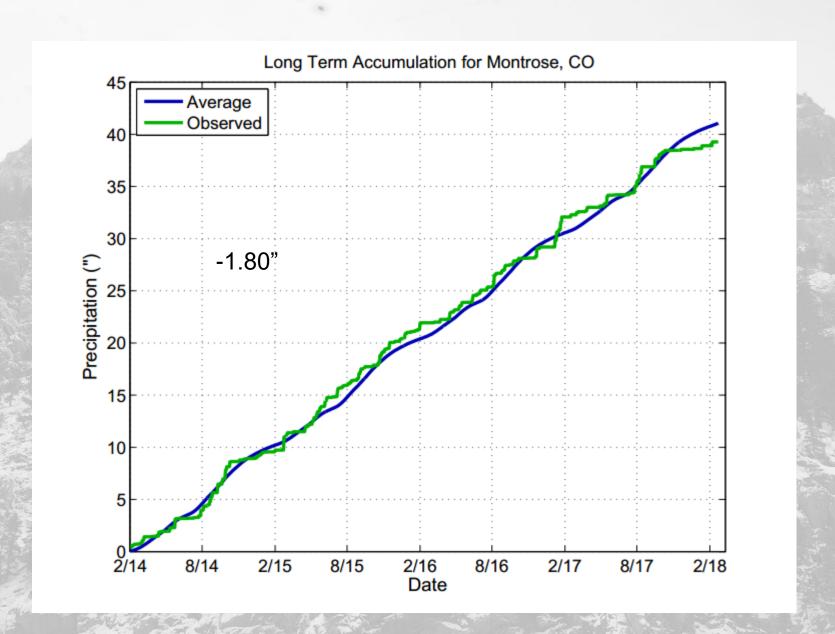
Division 2 - Grand Junction



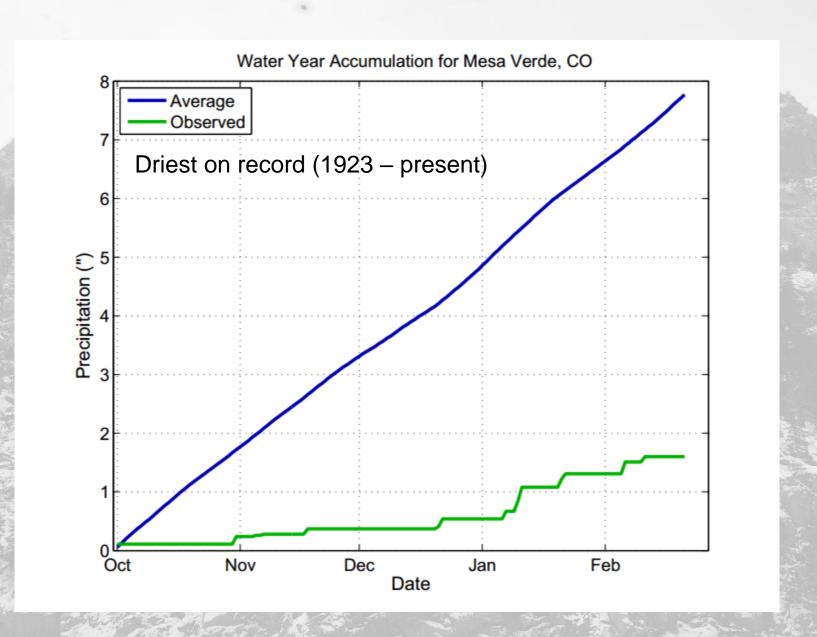
Division 3 – Montrose



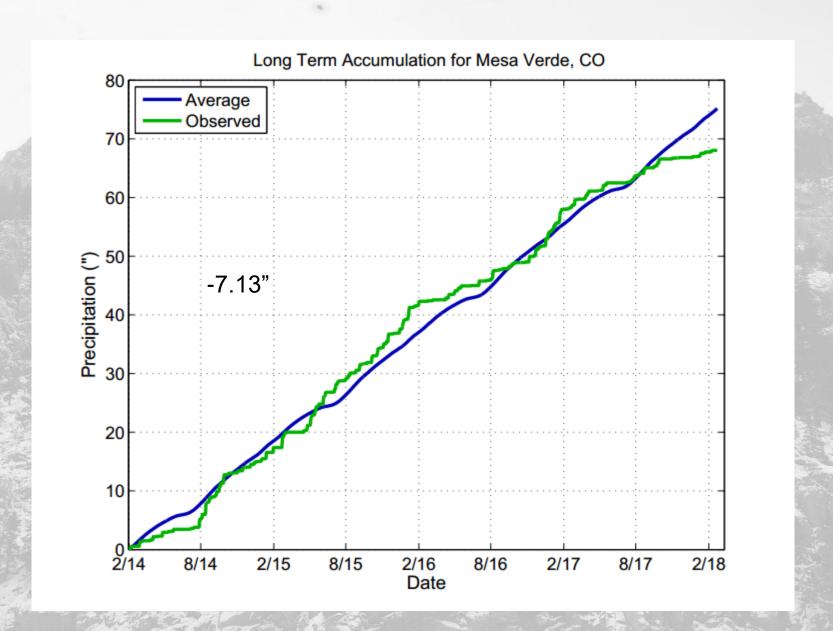
Division 3 – Montrose



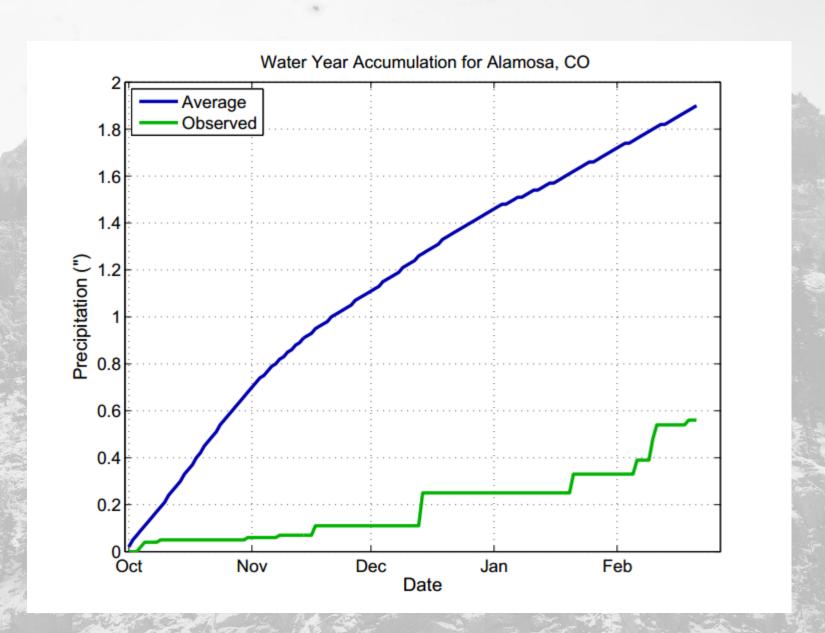
Division 3 – Mesa Verde NP



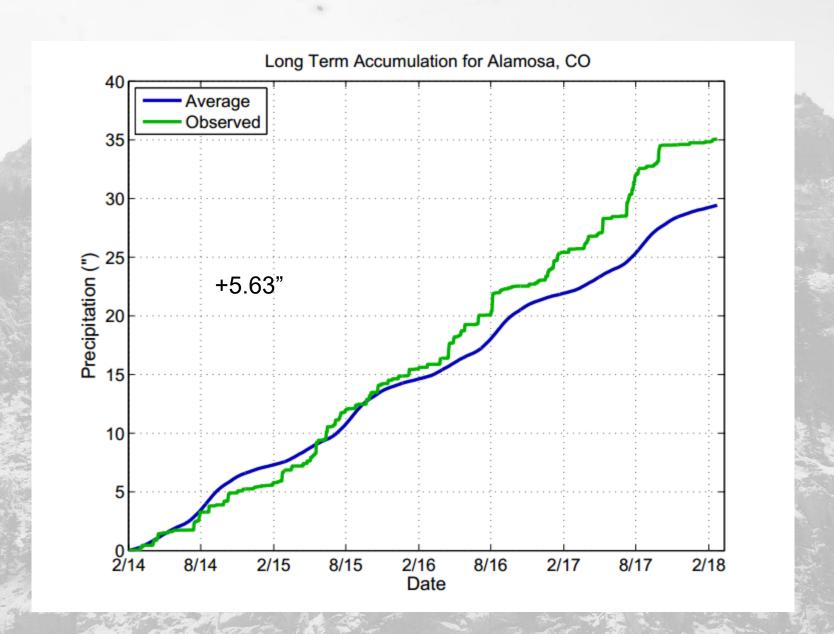
Division 3 – Mesa Verde NP



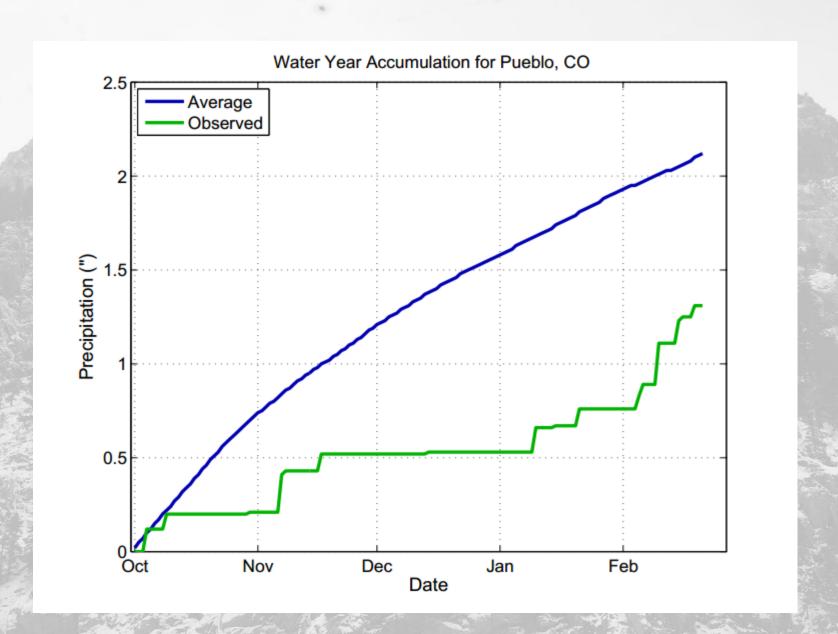
Division 4 – Alamosa



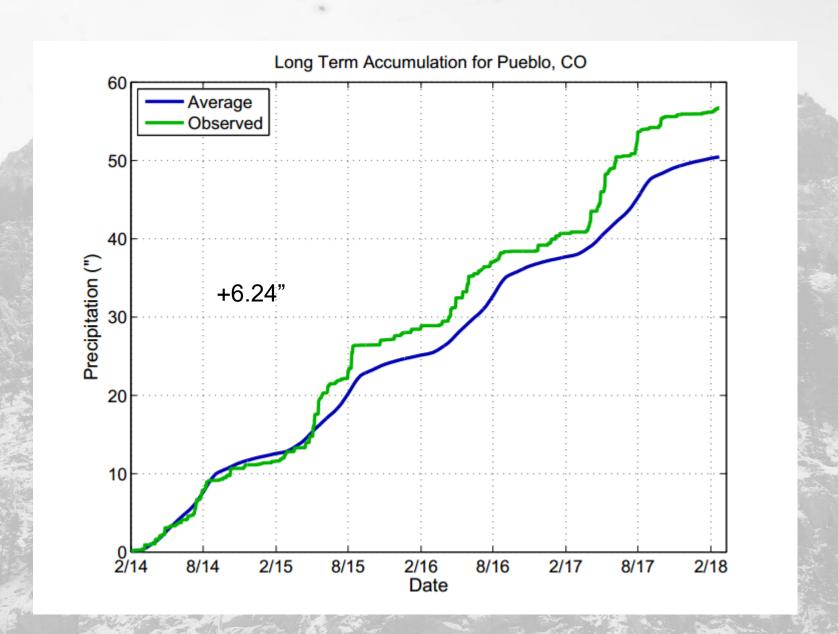
Division 4 – Alamosa



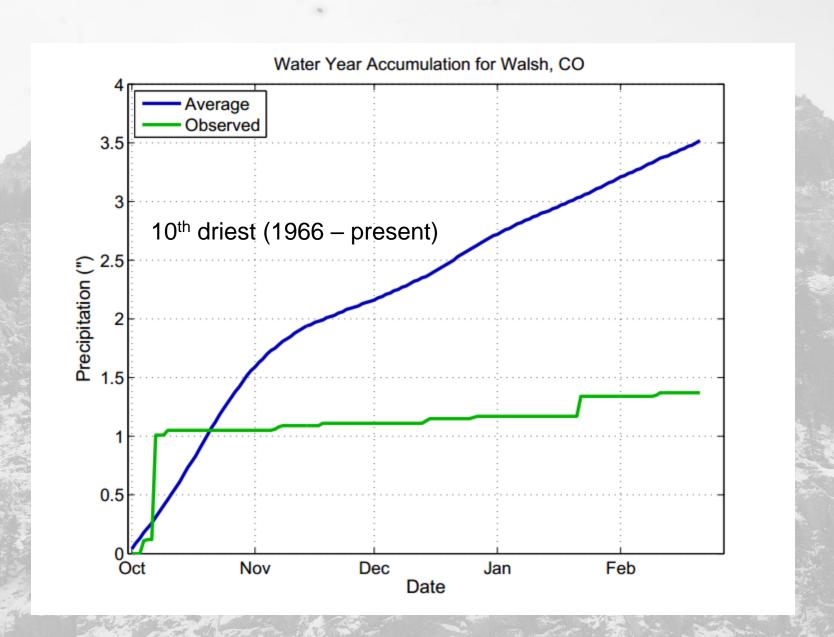
Division 5 – Pueblo



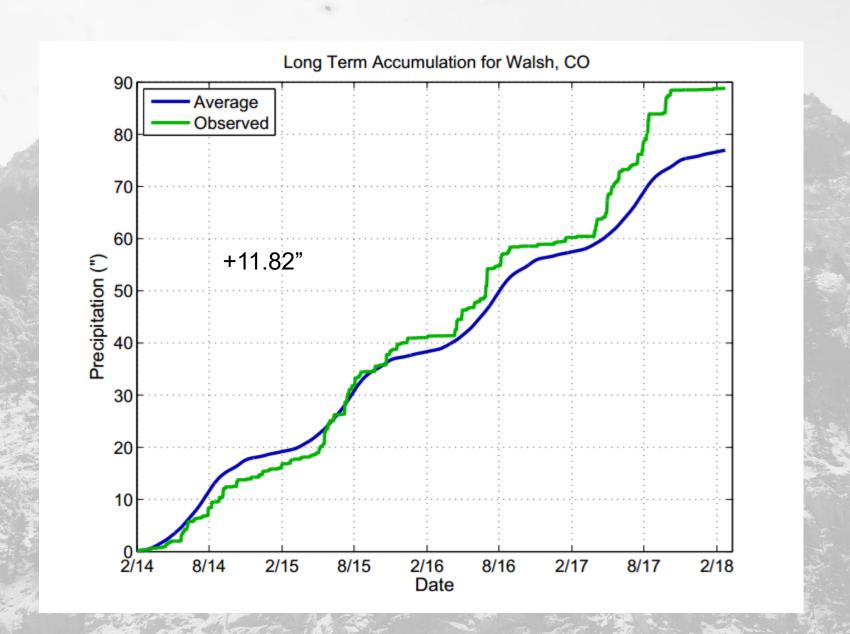
Division 5 - Pueblo



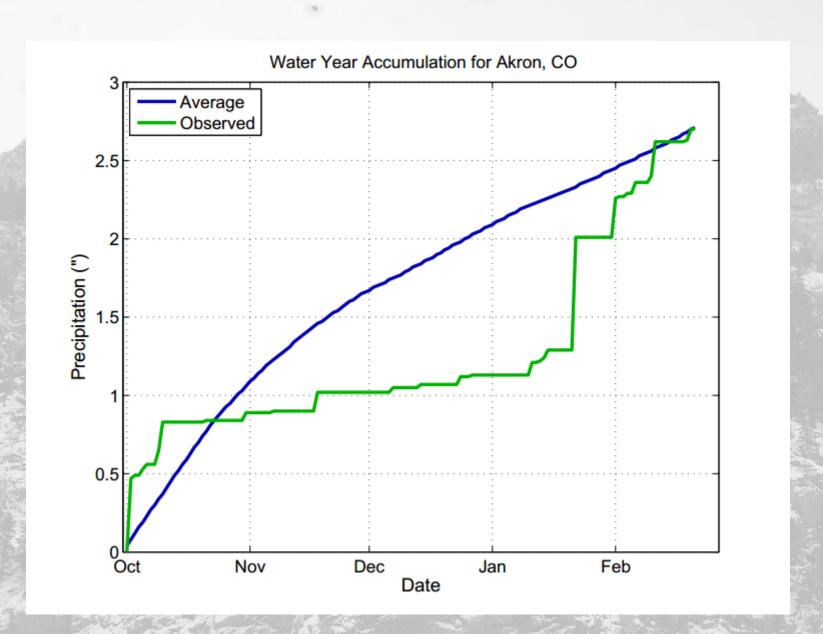
Division 6 - Walsh



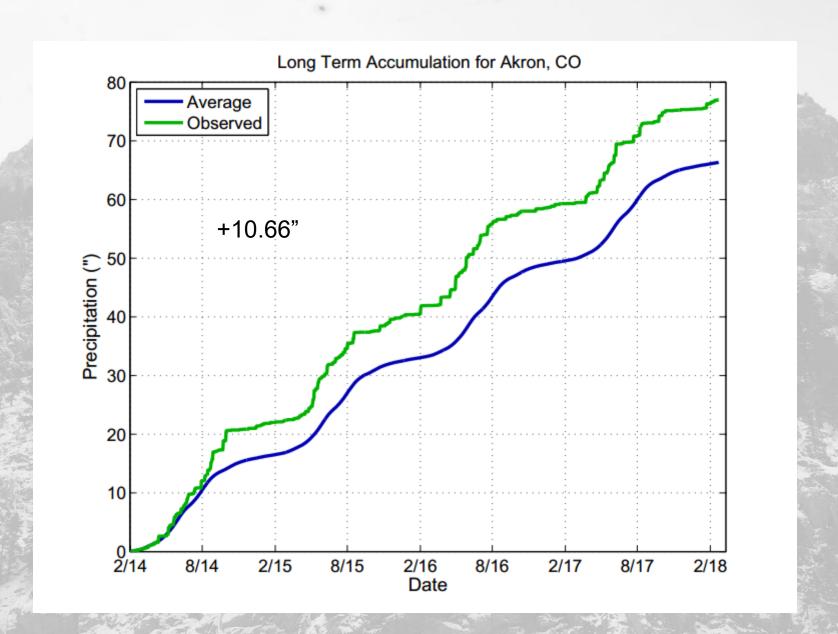
Division 6 - Walsh



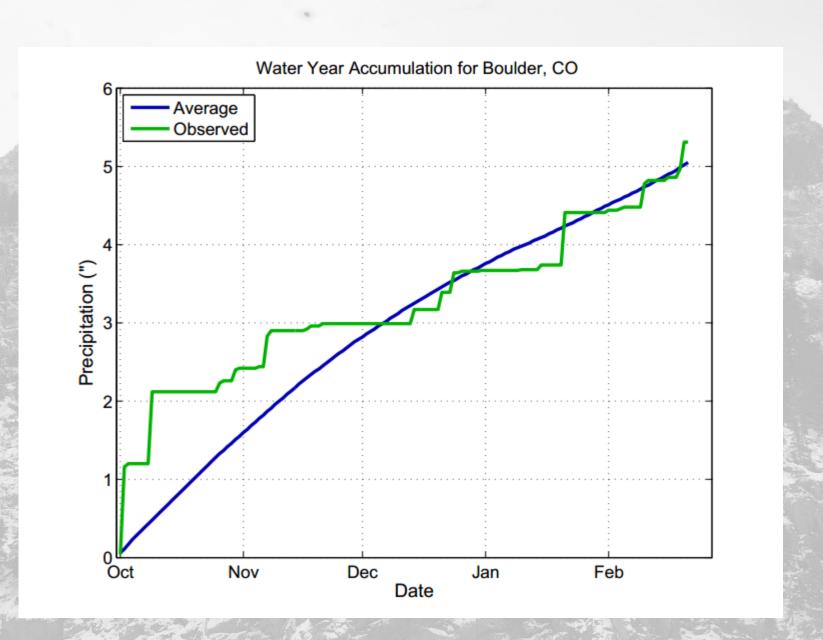
Division 7 – Akron



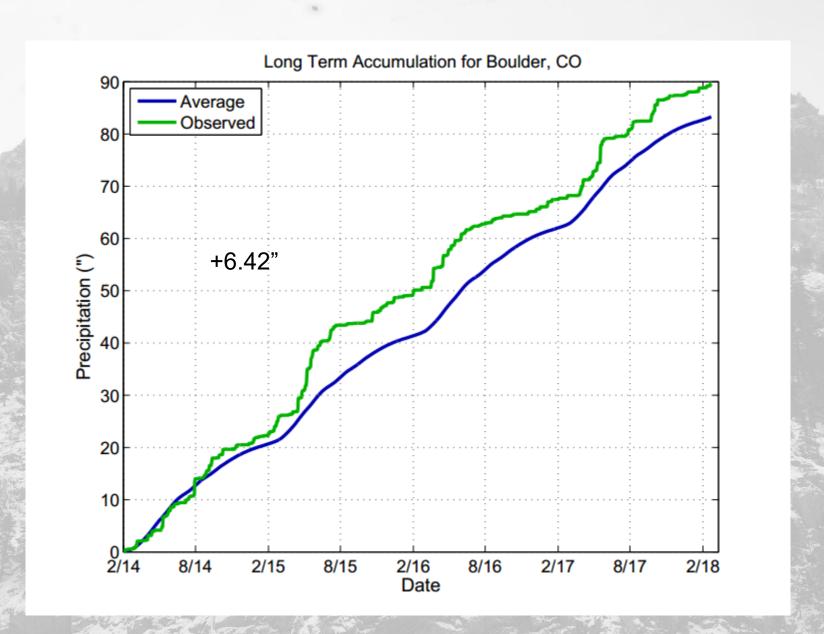
Division 7 – Akron

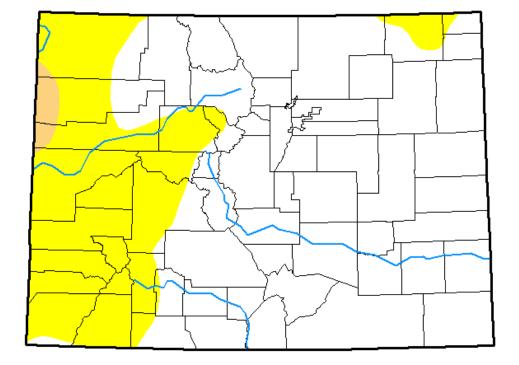


Division 8 - Boulder



Division 8 - Boulder





October 24, 2017

(Released Thursday, Oct. 26, 2017) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

_	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	71.57	28.43	1.12	0.00	0.00	0.00
Last Week 10-17-2017	71.71	28.29	1.12	0.00	0.00	0.00
3 Month's Ago 07-25-2017	60.05	39.95	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	31.88	68.12	37.21	2.88	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 10-25-2016	35.46	64.54	5.83	0.00	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought

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

Author:

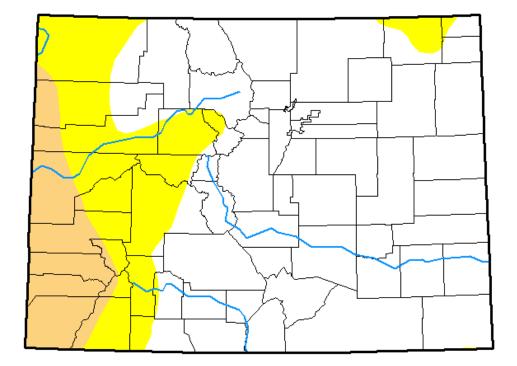
Eric Luebehusen
U.S. Department of Agriculture











November 21, 2017

(Released Wednesday, Nov. 22, 2017)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

_	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	71.23	28.77	9.82	0.00	0.00	0.00
Last Week 11-14-2017	71.26	28.74	1.22	0.00	0.00	0.00
3 Month's Ago 08-22-2017	83.96	16.04	0.00	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	31.88	68.12	37.21	2.88	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 11-22-2016	1.60	98.40	35.21	2.15	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought

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

Author:

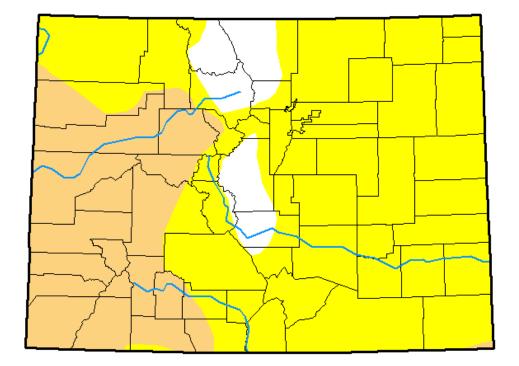
Richard Tinker CPC/NOAA/NWS/NCEP











December 19, 2017

(Released Thursday, Dec. 21, 2017) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	7.17	92.83	27.13	0.00	0.00	0.00
Last Week 12-12-2017	11.25	88.75	16.09	0.00	0.00	0.00
3 Month's Ago 09-19-2017	64.79	35.21	3.72	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	31.88	68.12	37.21	2.88	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 12-20-2016	1.66	98.34	38.38	2.88	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought

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

Author:

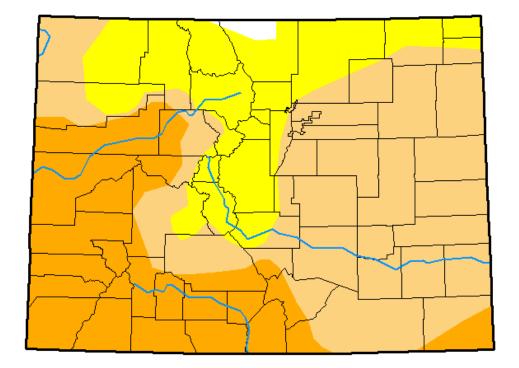
Jessica Blunden NCEI/NOAA











January 23, 2018

(Released Thursday, Jan. 25, 2018) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сиптепт	0.59	99.41	75.90	29.21	0.00	0.00
Last Week 01-16-2018	0.59	99.41	75.90	23.23	0.00	0.00
3 Months Ago 10-24-2017	71.57	28.43	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 01-24-2017	44.27	55.73	35.34	0.75	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought

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

Author:

Richard Heim NCEI/NOAA









February 20, 2018

(Released Thursday, Feb. 22, 2018) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	8.59	91.41	71.18	33.51	7.62	0.00
Last Week 02-13-2018	8.59	91.41	71.18	33.51	0.00	0.00
3 Month's Ago 11-21-2017	71.23	28.77	9.82	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 02-21-2017	48.05	51.95	36.92	1.64	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought

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

Author:

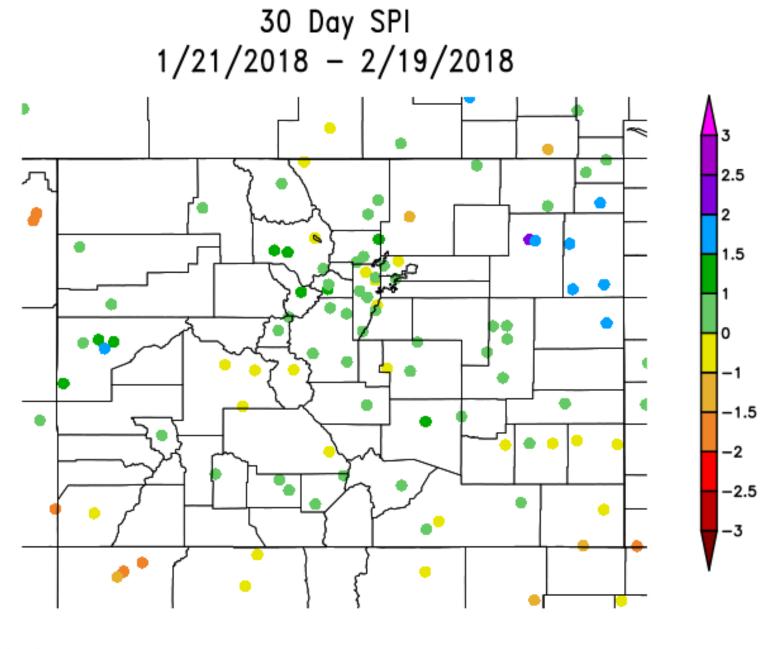
Deborah Bathke National Drought Mitigation Center

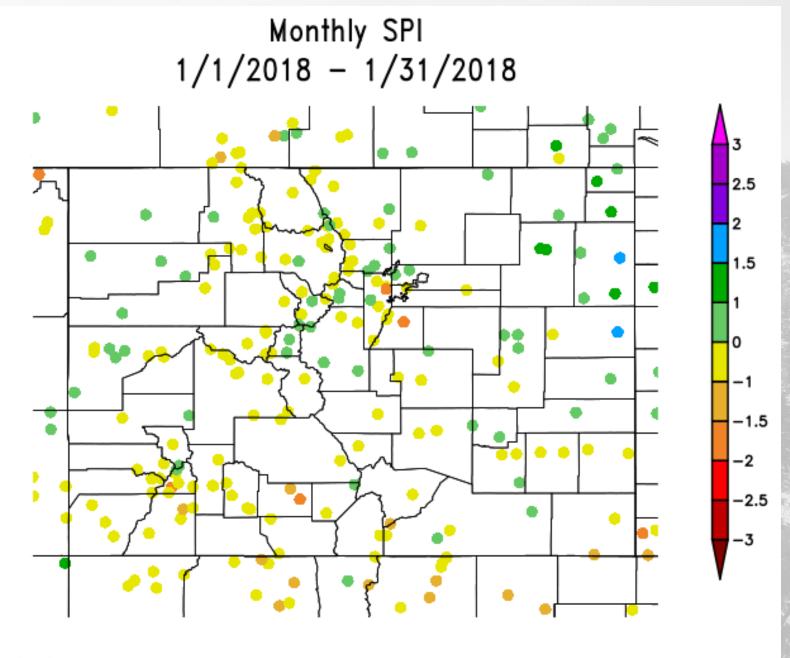


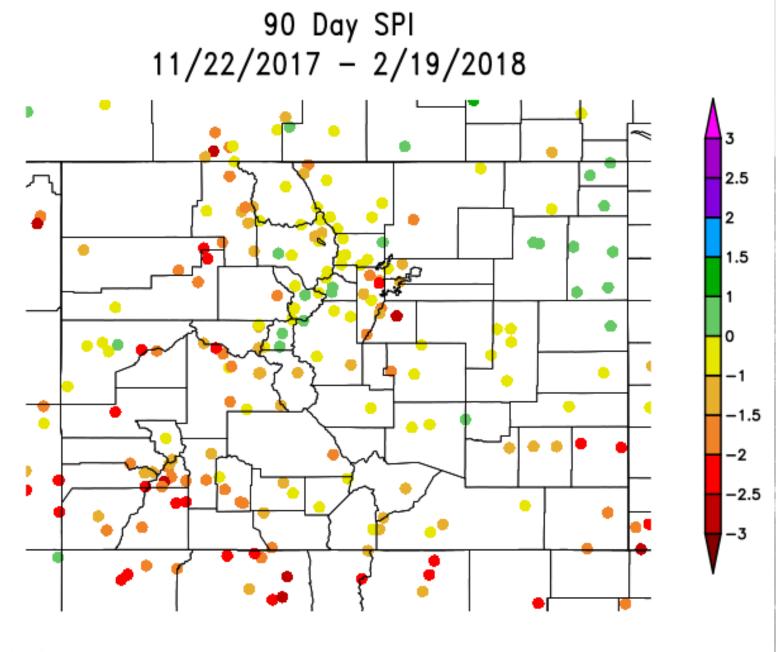


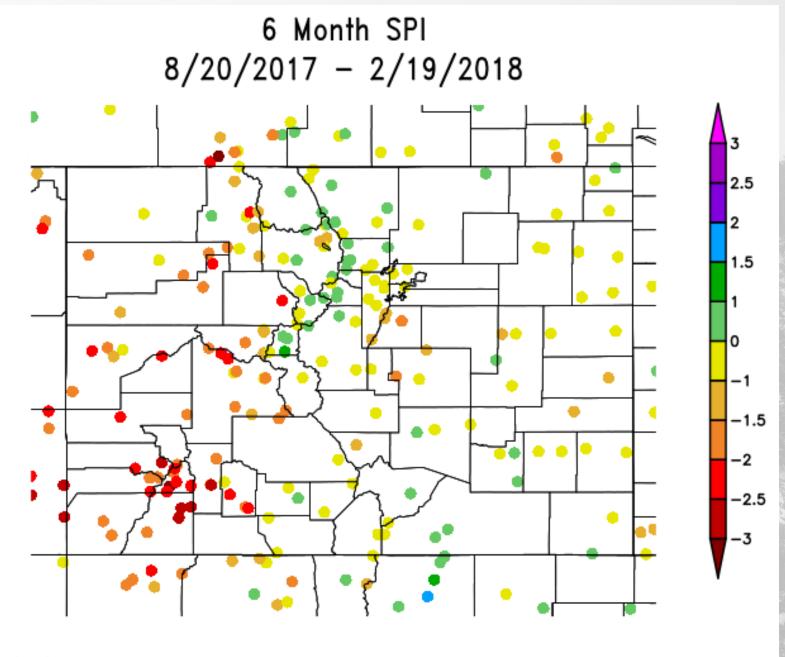


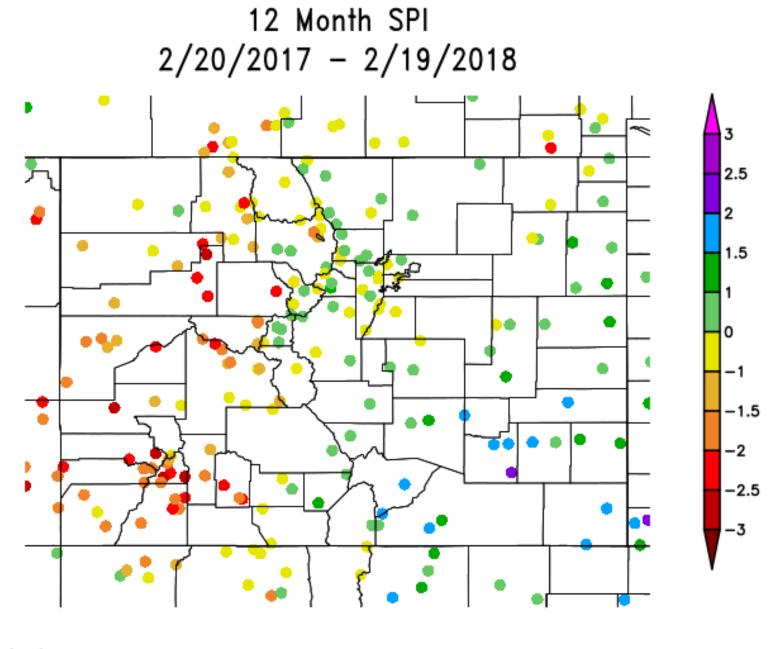










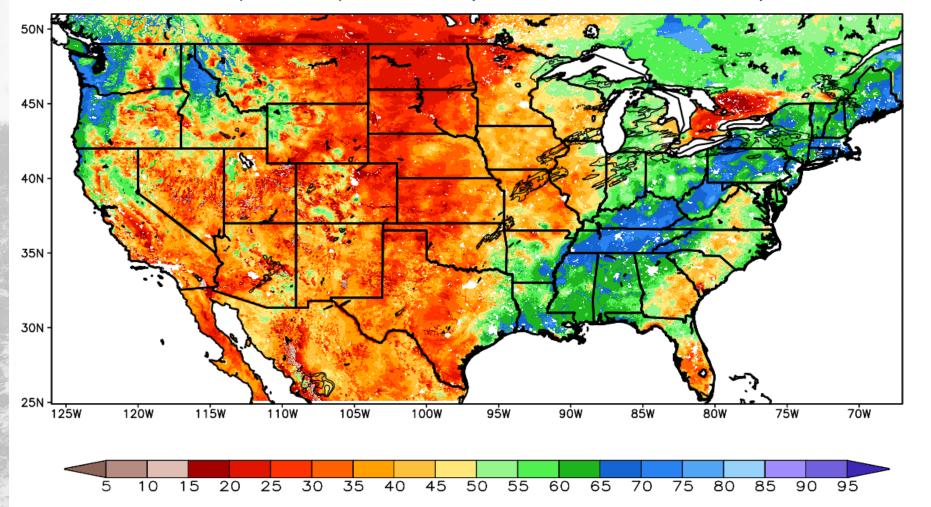


Reservoir and Soils Update

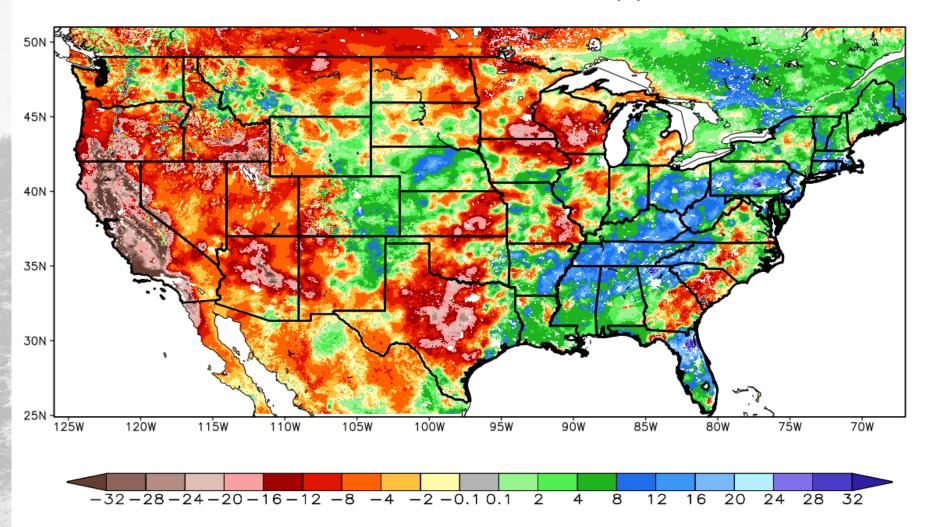


Column—Integrated Relative Soil Moisture (available water; %) valid 00z 20 Feb 2018

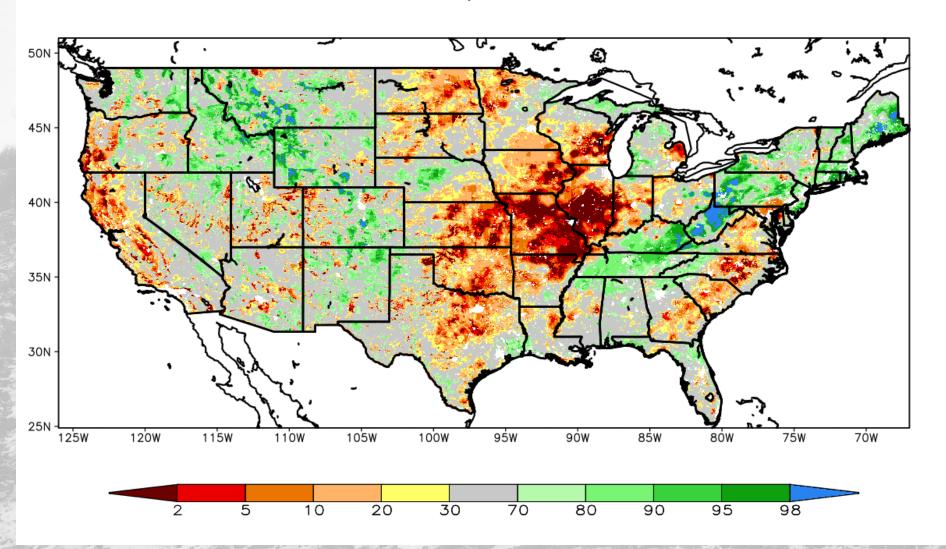
Precipitation in previous hour (1,2,5,10,15,20,25 mm contours)

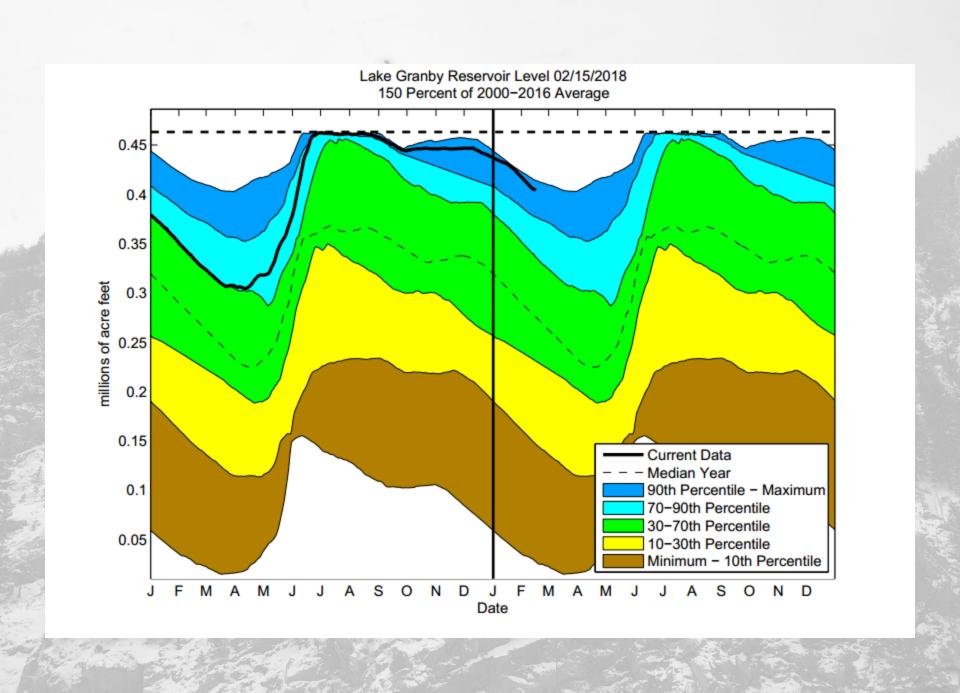


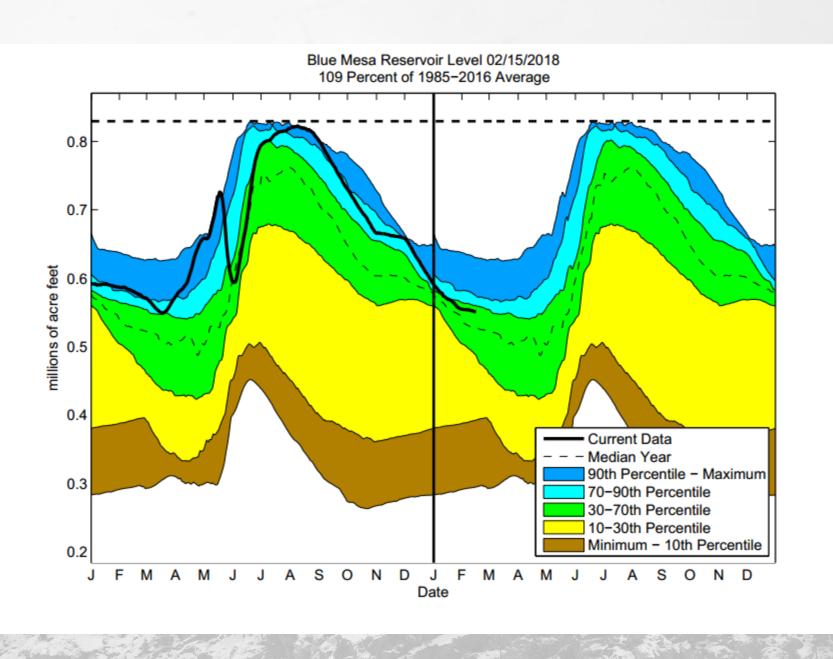
1—Year Difference in Column Relative Soil Moisture (%) valid 12z 20 Feb 2018

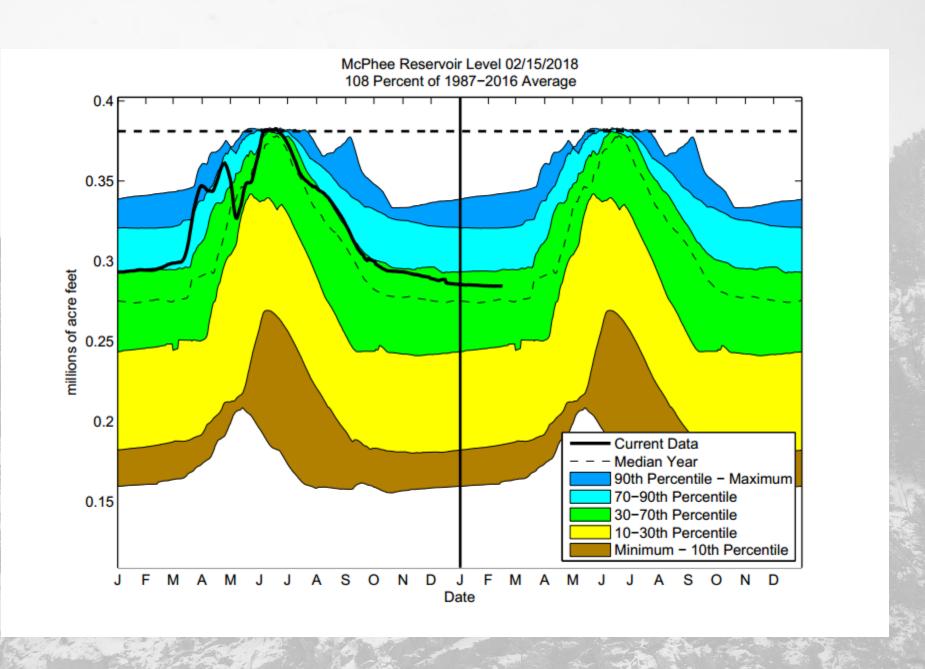


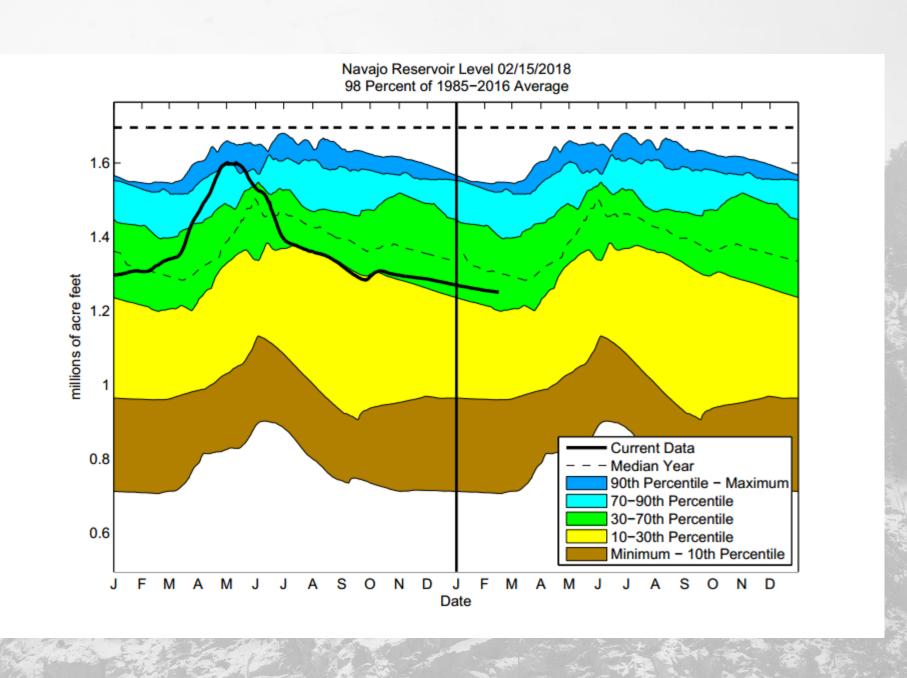
SPoRT-LIS 0-2 m RSM percentile valid 20 Feb 2018











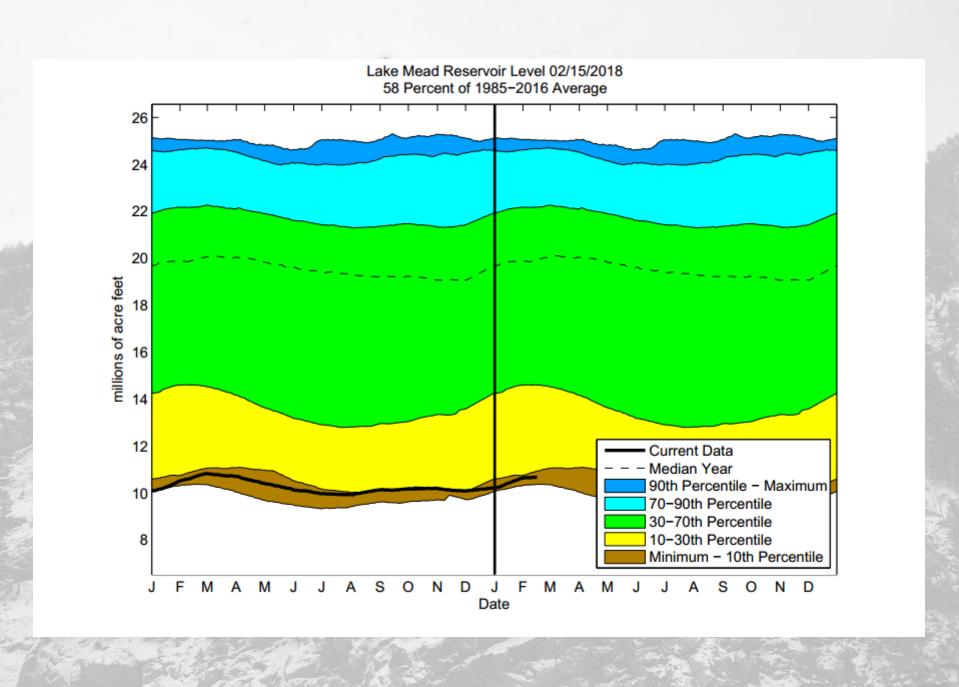


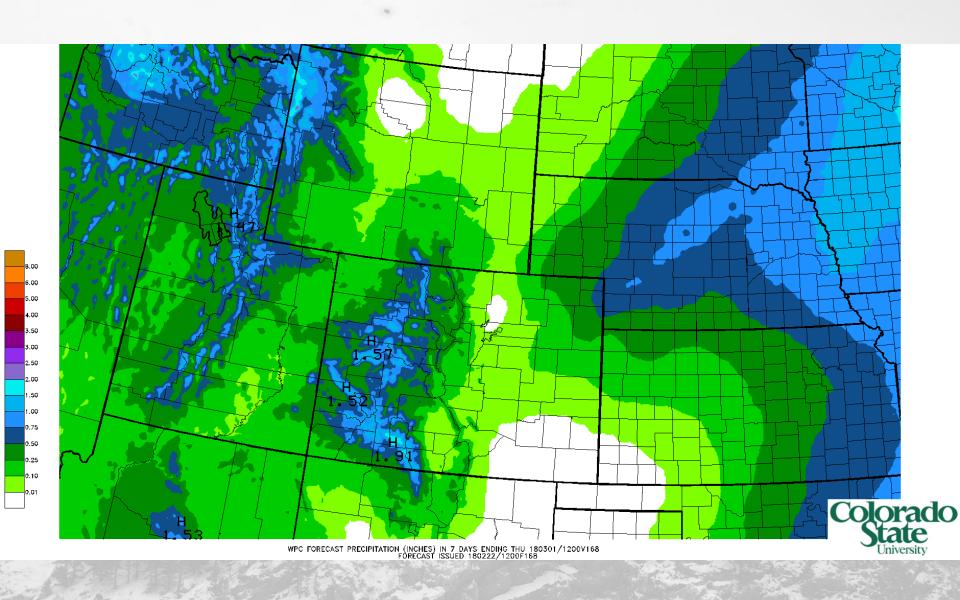
Raw Water Supply Daily Report

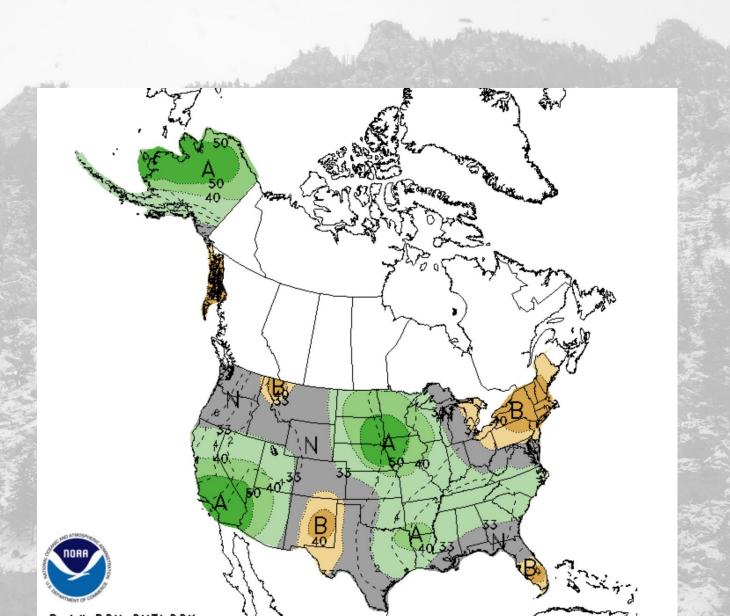
Day: Monday Date: 2/19/18

Reservoir Operations:							
	Inflow (cfs)	Outflow (cfs)	Elevation (feet)	Storage (ac-ft)	Change (ac-ft)	Full Elev. (feet)	Capacity (ac-ft)
South Platte System:							
Antero	17	6	8,942.09	20,319	22	8,942	19,881
Eleven Mile	59	77	8,597.54	99,624	-34	8,597	97,779
Cheesman	108	184	6,828.84	68,143	-152	6,842	79,064
Strontia Springs	243	36	5,991.28	6,806	-6	6,002	7,863
Chatfield	36	0	5,428.99	23,021	25	5,432	27,076
Marston	9	0	5,529.50	13,755	61	5,538	19,256
Soda Lakes				1,577	0		1,680
Platte Canyon	0		5,530.40	763	1	5,533	910
South Complex	0	1		2,991	2		3,561
Harriman			5,621.75	694	0	5,623	762
Moffat System:							
Gross	21	11	7,246.76	28,880	20	7,282	41,811
Ralston	1	1	6,016.39	6,429	-71	6,046	10,776
Upper Long Lake	0	0	6,075.40	853	0	6,088	1,519
Lower Long Lake	0	0	5,892.28		0	5,908	268
Western Slope:							
Dillon	82	113	9,012.43	242,888	-61	9,017	257,304
Williams Fork	57	45	7,789.20	66,245	24	7,811	96,822
Meadow Creek	1	1	9,970.70	2,035	0	9,995	5,370
Total System:				585,022	-170		671,702
Non-system							
Wolford Mountain	22	27	7,480.93	54,380	-10	7,489	65,985
Green Mountain	188	230	7,898.61	69,114	-84	7,950	153,639
Spinney Mountain	25	80		41,641	N/A		53,651

Raw Water Distribution: (all flows in cubic feet per second, cfs) South Platte System: Roberts Tunnel Conduit 26 to Foothills TP 139 Conduit 20 to Marston Lake From Diversion Dam From Last Chance Pump From Chatfield Pumps Conduit 15 to Marston Lake High Line Canal Total Flow City Ditch at Washington Park 0 Harriman Ditch Total Flow 0 Metro Sewer Effluent Exchange Bi-City Effluent Exchange 0 South Complex Exchange Recycling Plant Moffat System: Moffat Tunnel 10 Jones Pass Tunnel South Boulder Canal Long Lake Feeder Ditch Ralston to Moffat TP 22 Ralston/Clear Creek Canal 0







Colorado Climate Center

Data and Power Point Presentations available for downloading

http://ccc.atmos.colostate.edu/droughtpresentations.php



