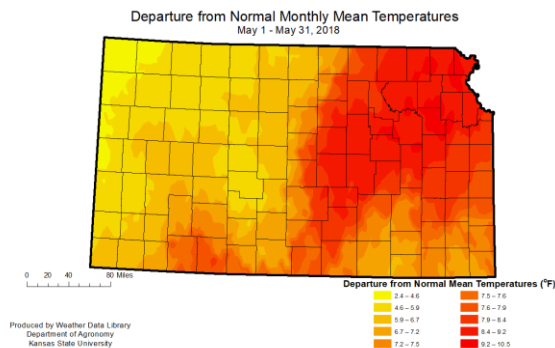


KANSAS CLIMATE SUMMARY

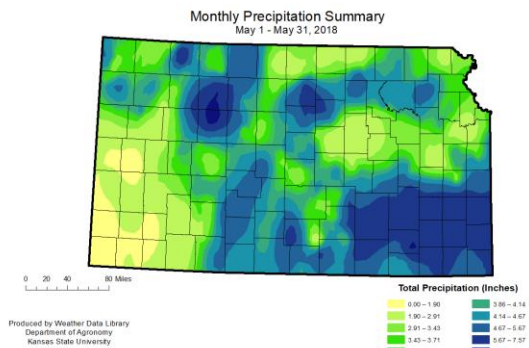
May 2018

From Cold to Hot

May came close to setting the record as the hottest since 1895. The state-wide average temperature for the month was 70.6 °F. This was 7.2 degrees warmer than normal, and ranked as the second warmest. The swing from the cold of April to the warmth of May was the largest change on record at 23.7 degrees. The Northeast Division had the greatest departure with an average of 72.4 °F which was a departure of +8.6 degrees. The Northwest Division came closest to normal with an average of 64.5 °F, which was a departure from normal of +4.6 degrees. There were 90 new record daily warm maximum temperatures, of which 6 set new record warm maximums for the month. In addition, there were 60 new daily record warm minimum temperatures, of which 1 set a new record for the month. This month, there were no new records on the cold side for either coldest maximum or coldest minimum temperatures. This is one reason that the monthly average was so much warmer than normal with relatively few records. The warmest temperature reported during the month was 103 °F at Abilene, Dickinson County on the 29th. The coldest temperature reported during May was 35 °F, reported at Syracuse, Hamilton County, on the 4th.

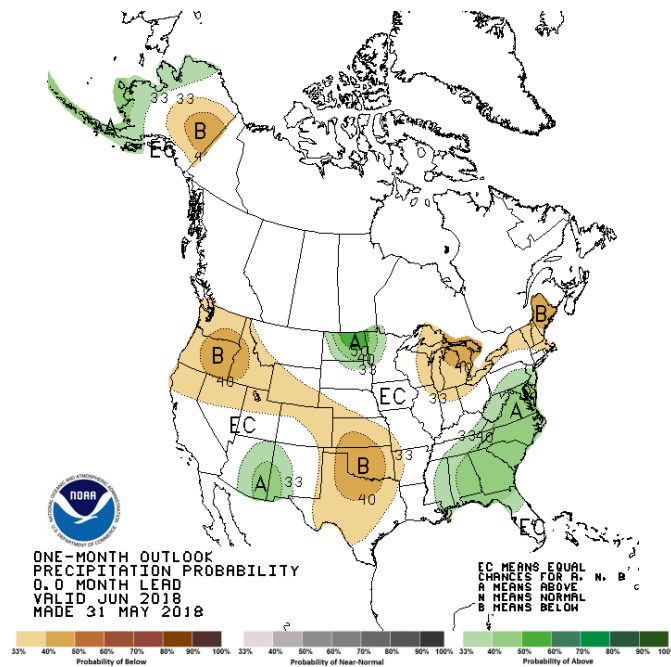
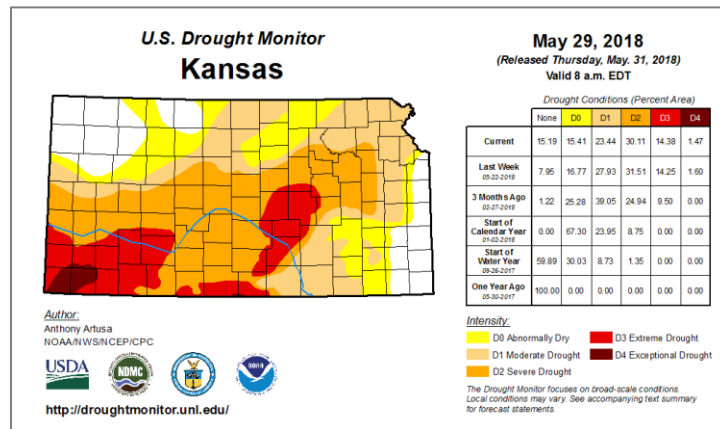


While May continued the pattern of below normal precipitation, it was much closer to normal. The state-wide average precipitation was 3.92 inches which was 94 percent of normal. As the month was much warmer than normal, the benefit from that precipitation was less than it might have been. The division with the largest surplus was the West Central Division, with an average of 3.66, or 114 percent of normal. The East Central Division had the greatest departure, with an average of 3.48 inches or 67 percent of normal. The greatest monthly total for a National Weather Service Cooperative station was Wakeeney, Trego County, with 11.88 inches. The Community Collaborative Rain, Hail and Snow network station with the greatest monthly precipitation was Latham 0.2 W, Butler County, with 8.95 inches. Among the Kansas Mesonet stations, the Hill City station in Graham County had the greatest total at 7.49 inches.



With the resurgence of moisture, severe weather reports during the month also increased. With 34 tornadoes reported, it was slightly higher than the average of 24 (based on 1950-2016 SPC data), and makes a slight dent in the late start to the season. There were 258 hail reports and 131 damaging wind reports. One of the most destructive events was the heavy flooding in Graham and Gove counties, where widespread rainfall amounts in excess of 4 inches were reported.

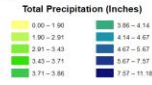
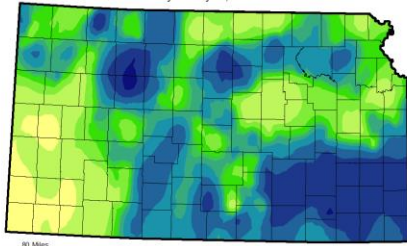
The Northwest and Southeast corners of the state remain drought-free, and there was some reduction in the most severe drought. Exceptional drought conditions now cover just under 2 percent of the state, while extreme drought covers an additional 14 percent of the state. Severe drought has expanded to 30 percent of the state while moderate drought covers an additional 23 percent of the state. The June outlook has a slight chance for drier than normal conditions across the state. The temperature outlook is for warmer than normal temperatures statewide. That combination is unlikely to result in significant improvement of the drought conditions.



Appendix:

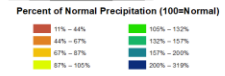
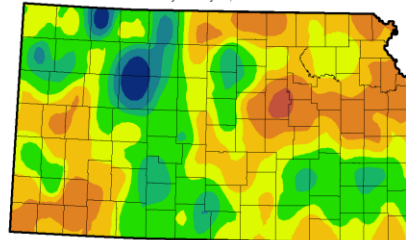
Precipitation and Temperature Maps

Monthly Precipitation Summary
May 1 - May 31, 2018



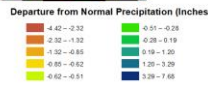
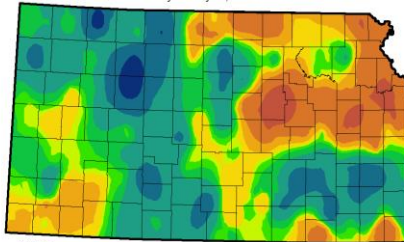
Produced by Weather Data Library
Department of Agronomy
Kansas State University

Percent of Normal Monthly Precipitation
May 1 - May 31, 2018



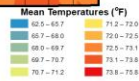
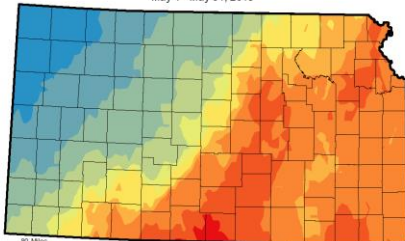
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Departure from Normal Monthly Precipitation
May 1 - May 31, 2018



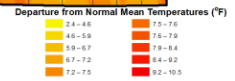
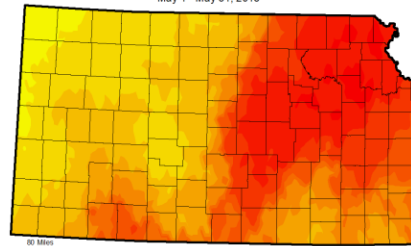
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Monthly Mean Temperatures
May 1 - May 31, 2018



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Departure from Normal Monthly Mean Temperatures
May 1 - May 31, 2018



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Table 1.

Table 1 May-18 Kansas Climate Division Summary										
Division	Precipitation (inches)						Temperature (°F)			
	May-18			2018 through May			Ave	Dep. 1	Monthly Extremes	
	Total	Dep. 1	% Normal	Total	Dep. 1	% Normal			Max	Min
Northwest	3.12	-0.34	89	4.81	-3.02	61	64.5	4.6	99	39
West Central	3.66	0.63	114	5.50	-1.93	72	67.5	6.6	100	37
Southwest	2.67	-0.06	97	4.11	-2.64	60	70.0	6.2	98	35
North Central	3.57	-0.51	84	6.04	-4.05	59	70.6	7.4	100	43
Central	3.86	-0.41	93	6.67	-4.21	62	71.9	7.6	103	40
South Central	4.63	0.24	107	8.20	-3.51	69	73.1	7.8	96	44
Northeast	3.39	-1.40	74	6.55	-5.70	54	72.4	8.6	99	48
East Central	3.48	-1.67	67	7.96	-5.67	57	72.7	8.5	97	49
Southeast	6.41	0.62	112	12.21	-3.45	78	73.1	7.7	99	45
STATE	3.92	-0.25	94	6.98	-3.71	64	70.6	7.2	103	35

1. Departure from 1981-2010 normal value

2. State Highest temperature: 103 °F at Abilene 1W, Dickinson County, on the 26th.

3. State Lowest temperature: 35 °F Syracuse 1NE, Hamilton County, on the 5th.

4. Greatest 24hr: 6.65 inches at Hill City 1E, Graham County, on the 29th (NWS); 9.88 inches at Morland 9.7 S, Graham County, on the 29th (CoCoRaHS).

Source: KSU Weather Data Library

May Summary							
Station ¹	Precipitation (inches)			Temperature of			
	Total	Departure	Percent Normal	Mean	Departure	Extreme (Date)	
						Highest	Lowest
West							
Burlington, CO	3.28	0.70	127%	63.4	4.8	92 (27,26)	37 (4)
Dodge City	2.30	-0.55	81%	72.2	8.0	98 (26)	44 (4)
Garden City	2.59	-0.29	90%	69.8	6.5	98 (28)	42 (4)
Goodland	6.10	3.15	207%	64.2	4.8	92 (27,26)	39 (4)
Guymon, OK	2.94	0.50	120%	72.6	7.7	98 (27,26)	40 (5)
Hill City	7.83	4.05	207%	67.5	5.0	94 (26)	44 (4,5)
Lamar, CO	0.30	-1.72	15%	69.0	6.8	99 (27,26)	35 (5)
McCook, NE	3.32	0.18	106%	64.9	5.3	96 (26)	40 (5)
Springfield, CO	0.80	-1.56	34%	66.8	5.5	95 (27,26)	31 (3)
Central							
Concordia	4.08	-0.08	98%	71.3	8.2	97 (27)	49 (4)
Hebron, NE	3.38	-1.42	70%	70.4	8.7	101 (26)	47 (5)
Medicine Lodge	5.72	2.42	173%	74.5	7.5	95 (14,11)	47 (5)
Ponca City, OK	4.12	-0.69	86%	75.6	8.0	94 (26)	44 (5)
Salina	2.09	-2.66	44%	74.8	9.5	100 (27,26)	49 (5)
Wichita (ICT)	4.74	0.17	104%	75.1	9.1	96 (26)	52 (5)
East							
Bartlesville, OK	5.46	0.14	103%	73.7	6.0	94 (9)	46 (5)
Chanute	8.35	2.55	144%	73.7	7.8	90 (29, 28)	48 (5)
Falls City, NE	2.56	-2.02	56%	72.6	8.8	101 (26)	48 (5)
Johnson Co. Exec. Apt	3.68	-1.55	70%	72.7	8.0	91 (28)	53 (5)
Joplin, MO	2.82	-2.28	55%	73.3	8.5	93 (27)	48 (5)
Kansas City (MCI), MO	5.47	0.24	105%	73.4	8.9	94 (28)	54 (5)
St. Joseph, MO	2.99	-2.43	55%	74.1	9.6	102 (26)	46 (5)
Topeka (TOP)	3.80	-1.11	77%	74.7	9.7	97 (26)	51 (5)
1. Airport Automated Observation Stations (NWS/FAA) 2. Departure from 1981-2010 normal value T - Trace; M - Missing; --- no normal value from which to calculate departure or percent of normal Source: National Weather Service F-6 Climate Summaries							