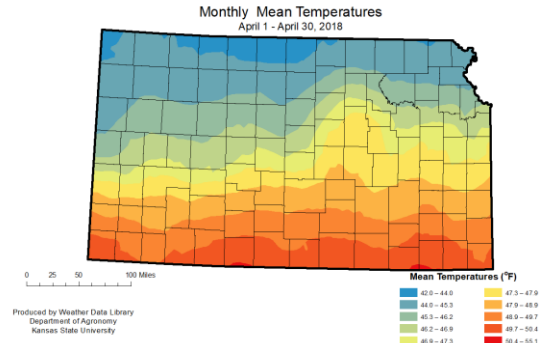


# KANSAS CLIMATE SUMMARY

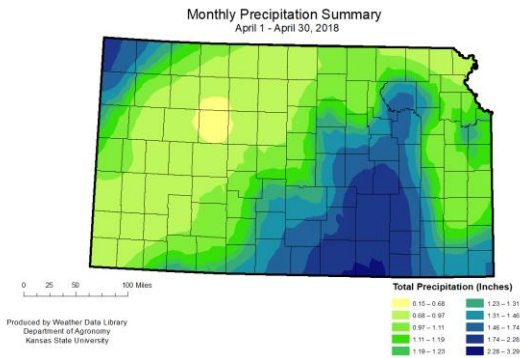
## April 2018

### Cold and Dry

April set a new record as the coldest since 1895. The state-wide average temperature for the month was 46.7 °F. This was 6.5 degrees cooler than normal. The Northeast Division had the greatest departure with an average of 44.5 °F which was a departure of -9.0 degrees. The West Central Division came closest to normal with an average of 46.0 °F, which was a departure from normal of -4.7 degrees. There were 189 new record daily cold maximum temperatures, of which 18 set new record low maximums for the month. In addition, there were 291 new daily record low minimum temperatures, of which 3 set new records for the month. The records weren't all on the cold side, however. There were 26 new record high maximum temperatures and 10 new record high minimum temperatures record during April. The warmest temperature reported during the month was 99 °F at Ashland, Clark County, and Wilmore 16SE, Comanche County, on the 13th. The coldest temperature reported during April was 4 °F. This was reported at multiple locations and dates with the latest at Atwood, Rawlins County, on the 8th.

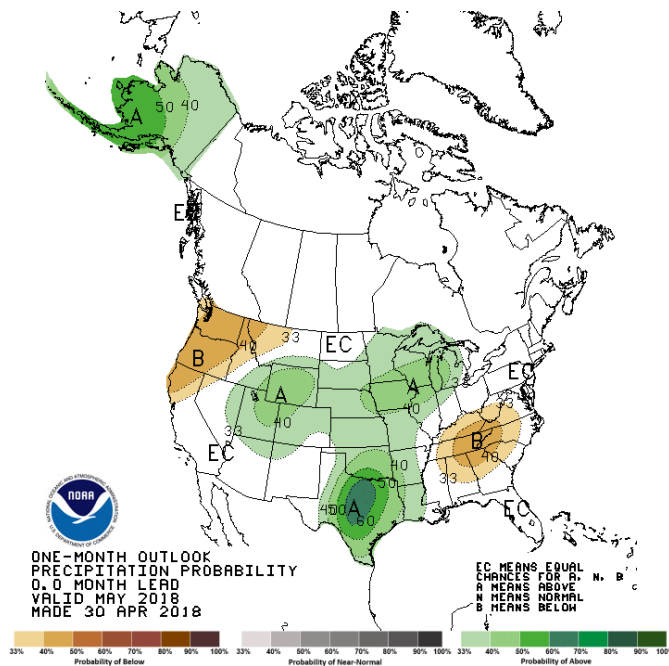
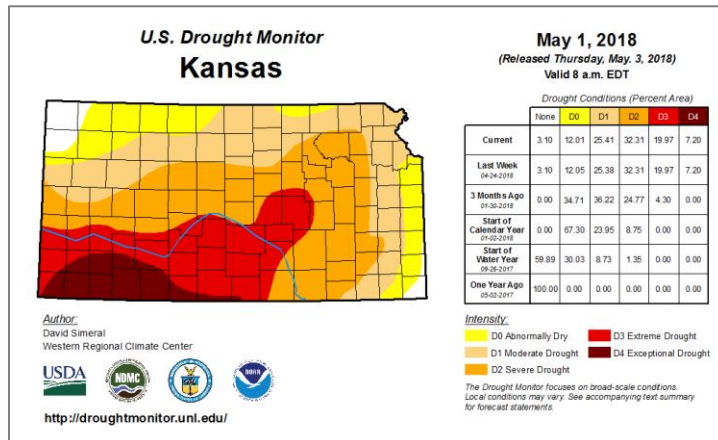


While precipitation began to fall towards the end of the month. April continued the pattern of below normal precipitation. The state-wide average precipitation was 1.19 inches which was just 45 percent of normal. April is one of the months with higher normal precipitation, so the deficit of -1.48 inches has had a negative impact on vegetation. The division that came closest to normal precipitation was the Southcentral Division with an average of 1.57 inches or 58 percent of normal. The Northeast Division had the greatest departure, with an average of 1.01 inches or just 31 percent of normal. The greatest monthly total for a National Weather Service Cooperative station was Augusta, Butler County with 3.29 inches. The Community Collaborative Rain, Hail and Snow network station with the greatest monthly precipitation was Winfield 5.9SW, Cowley County, with 3.06 inches. Among the Kansas Mesonet stations, the Butler County station near El Dorado had the greatest total at 2.38 inches.



Unsurprisingly, given the dry conditions, severe weather reports during the month were limited. There were 11 hail reports and 4 damaging wind reports. The lack of tornadoes in April made for the latest start to the tornado season since 2000.

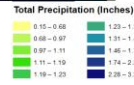
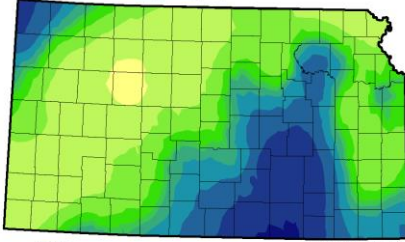
The Northwest and Southeast corners of the state remain drought-free. The rest of the state saw deterioration. Exceptional drought conditions now cover just over 7 percent of the state, with extreme drought covers an additional 20 percent of the state. Severe drought has expanded to a quarter of the state while moderate drought covers an additional 32 percent of the state. The May outlook has a slight chance for wetter than normal conditions across the state. The temperature outlook is for cooler than normal temperatures statewide. Unless May moisture is significant, that combination is unlikely to result in significant improvement of the drought conditions. With the wet summer last year, current dryness, and the cool start to the year, increased fire danger continues in Southwest Kansas.



# Appendix:

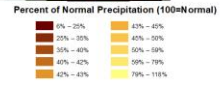
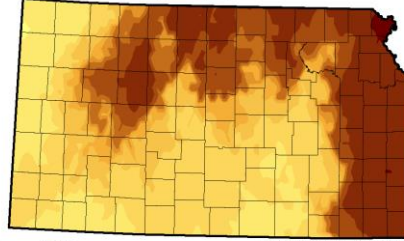
## Precipitation and Temperature Maps

Monthly Precipitation Summary  
April 1 - April 30, 2018



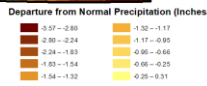
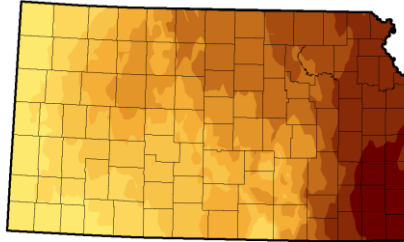
Produced by Weather Data Library  
Department of Agronomy  
Kansas State University

Percent of Normal Precipitation  
April 1 - April 30, 2018



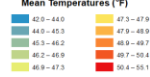
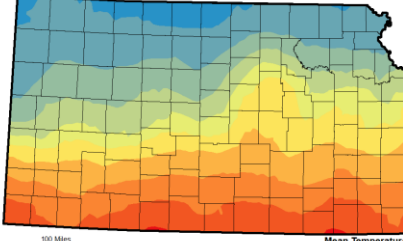
Produced by Weather Data Library  
Department of Agronomy  
Kansas State University

Departure from Normal Precipitation  
April 1 - April 30, 2018



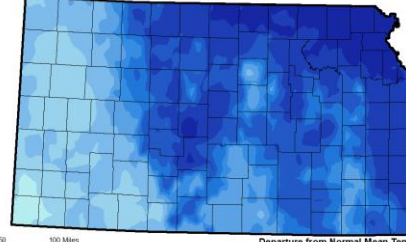
Produced by Weather Data Library  
Department of Agronomy  
Kansas State University

Monthly Mean Temperatures  
April 1 - April 30, 2018



Produced by Weather Data Library  
Department of Agronomy  
Kansas State University

Departure from Normal Monthly Mean Temperatures  
April 1 - April 30, 2018



Produced by Weather Data Library  
Department of Agronomy  
Kansas State University

Table 1.

<b>Table 1</b> <b>Apr-18</b> <b>Kansas Climate Division Summary</b>										
	Precipitation (inches)						Temperature (°F)			
	Apr-18			2018 through April			Ave	Dep. 1	Monthly Extremes	
Division	Total	Dep. 1	% Normal	Total	Dep. 1	% Normal			Max	Min
<b>Northwest</b>	0.67	-1.40	32	1.69	-2.68	39	44.7	-4.9	88	4
<b>West Central</b>	0.81	-1.10	42	1.84	-2.57	42	46.0	-4.8	92	10
<b>Southwest</b>	0.89	-0.75	54	1.44	-2.58	36	48.6	-4.9	99	4
<b>North Central</b>	0.99	-1.53	39	2.56	-3.45	43	45.0	-7.8	91	8
<b>Central</b>	1.21	-1.45	45	2.82	-3.79	43	47.1	-6.7	95	8
<b>South Central</b>	1.57	-1.13	58	3.57	-3.75	49	48.8	-6.4	99	14
<b>Northeast</b>	1.01	-2.24	31	3.16	-4.30	42	44.5	-9.0	88	12
<b>East Central</b>	1.63	-1.93	46	4.50	-3.98	53	46.5	-7.6	87	15
<b>Southeast</b>	1.66	-2.21	43	5.80	-4.07	59	48.9	-6.8	87	17
<b>STATE</b>	1.19	-1.48	45	3.07	-3.45	47	46.7	-6.5	99	4

1. Departure from 1981-2010 normal value  
2. State Highest temperature: 99 °F at Ashland, Clark County, and Wilmore 16SE, Comanche County, on the 13th.  
3. State Lowest temperature: 4 °F multiple locations and dates; latest at Atwood, Rawlins County, on the 8th.  
4. Greatest 24hr: 1.74 inches at Winfield, on the 21st (NWS); 2.40 inches at Latham 0.2 W, Butler County on the 22nd (CoCoRaHS).

**Source: KSU Weather Data Library**

April Summary							
Station <sup>1</sup>	Precipitation (inches)			Temperature of F			
	Total	Departure	Percent Normal	Mean	Departure	Extreme (Date)	
						Highest	Lowest
<b>West</b>							
Burlington, CO	1.71	0.25	117%	46.0	-1.9	86 (29,12)	14 (7)
Dodge City	0.97	-0.85	53%	49.4	-4.5	96 (12)	16 (7,6)
Garden City	0.40	-1.32	23%	48.3	-4.8	94 (12)	14 (15)
Goodland	1.48	-0.11	93%	46.0	-3.2	86 (29)	12 (6)
Guymon, OK	1.06	-0.45	70%	52.3	-3.0	94 (12)	19 (7)
Hill City	0.57	-1.55	27%	46.4	-5.2	86 (29)	5 (7)
Lamar, CO	1.15	-0.17	87%	50.4	-1.8	92 (12)	18 (2)
McCook, NE	1.02	-1.29	44%	45.2	-4.3	86 (29)	3 (7)
Springfield, CO	0.48	-0.79	38%	48.3	-3.3	88 (12)	17 (7)
<b>Central</b>							
Concordia	0.99	-1.46	40%	46.4	-6.7	85 (12)	12 (7)
Hebron, NE				45.4	-5.6	83 (30,12)	14 (7)
Medicine Lodge	1.39	-1.04	57%	51.1	-5.1	96 (12)	19 (7,4)
Ponca City, OK	2.08	-1.36	60%	52.6	-5.8	89 (17,13)	22 (16,7)
Salina	1.20	-1.85	39%	49.7	-5.5	90 (12)	15 (7)
Wichita (ICT)	1.76	-0.83	68%	50.7	-5.4	87 (12)	18 (7)
<b>East</b>							
Bartlesville, OK	1.49	-2.49	37%	51.9	-6.9	88 (17)	23 (16,8)
Chanute	1.13	-3.27	26%	51.1	-5.8	82 (30)	23 (7,4)
Falls City, NE	0.71	-2.47	22%	45.2	-8.0	85 (13)	11 (2)
Johnson Co. Exec. Apt	0.92	-3.07	23%	47.4	-7.7	80 (30,13)	17 (4)
Joplin, MO	2.11	-2.36	47%	51.8	-6.6	83 (12)	23 (7)
Kansas City (MCI), MO	1.04	-2.66	28%	47.4	-7.5	83 (13)	16 (7)
St. Joseph, MO	0.56	-3.23	15%	45.9	-8.3	84 (13)	10 (2)
Topeka (TOP)	1.06	-2.47	30%	48.4	-6.7	84 911)	18 (7,4)
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							