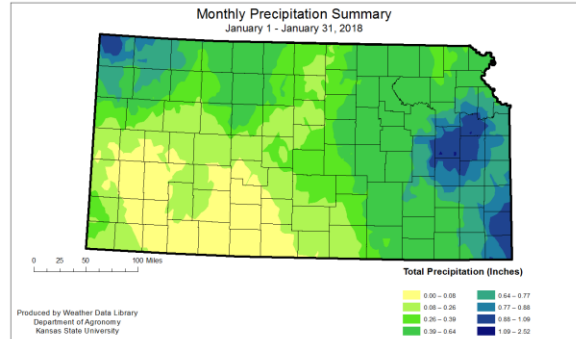


# KANSAS CLIMATE SUMMARY

## January 2018

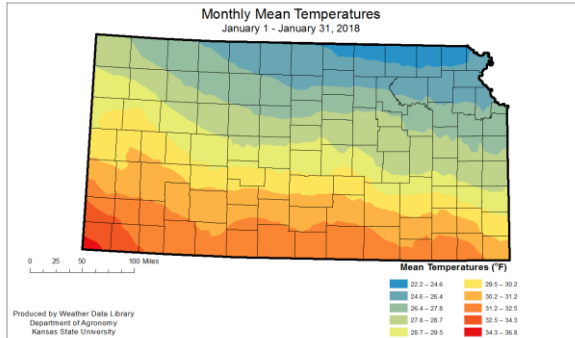
### Some welcome moisture

After an extended period with little to no moisture, parts of Kansas recorded some significant precipitation. At Tribune, a small snow event on January 12<sup>th</sup> snapped a 97-day period without any precipitation. This ties the previous record set in 1901. When it comes to a wetting precipitation event – defined as a tenth of an inch or greater – Elkhart is just two days shy of the 120-day record set in 1936. Manhattan established a new record of 87 days, which ended on January 10<sup>th</sup> with 0.17 inches. The previous record was 76 days set in 1927. State-wide the average precipitation was 0.34 inches or 46 percent of normal. The East Central Division came closest to normal with 0.65 inches or 67 percent of normal. The South Central Division, with just 0.18 inches, had the lowest percent of normal with just 21 percent. The greatest monthly precipitation totals were 2.52 inches at Osage City, Osage County (NWS) and 2.05 inches at St. Francis 12.1 NW, Cheyenne County (CoCoRaHS). Most of the precipitation came in the form of snowfall. A series of storms brought snowfall across mainly the northern half of the state. Forty-six locations set daily records for snowfall. Multiple locations tied for the greatest daily snowfall at 9 inches at Atwood, Rawlins County, on the 22<sup>nd</sup>. The greatest snowfall totals for the month were 12 inches at Atwood, Rawlins County (NWS) and 14.4 inches at Goodland 16.6 NW, Sherman County (CoCoRaHS)



January continued the pattern of wide temperature swings, as might be expected with the dry air in place. The statewide average temperature was 28.8 oF, or 1.1 degrees cooler than normal. The warm days

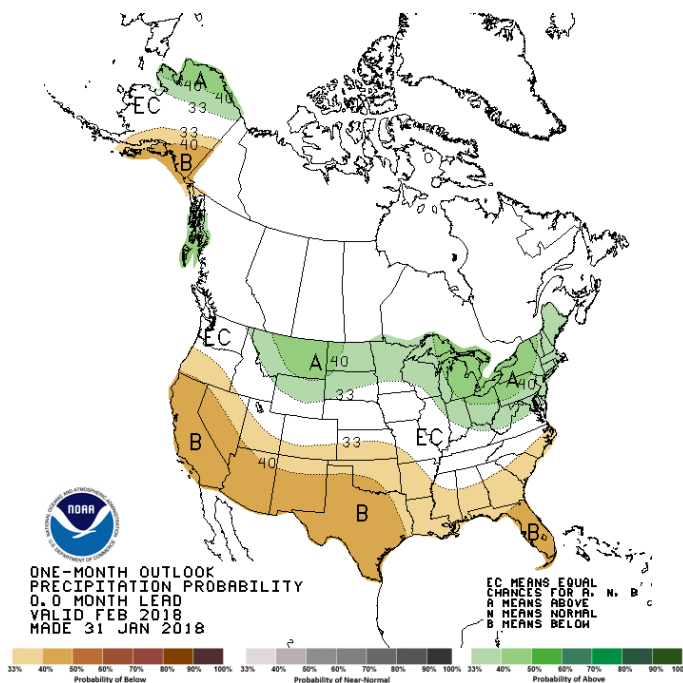
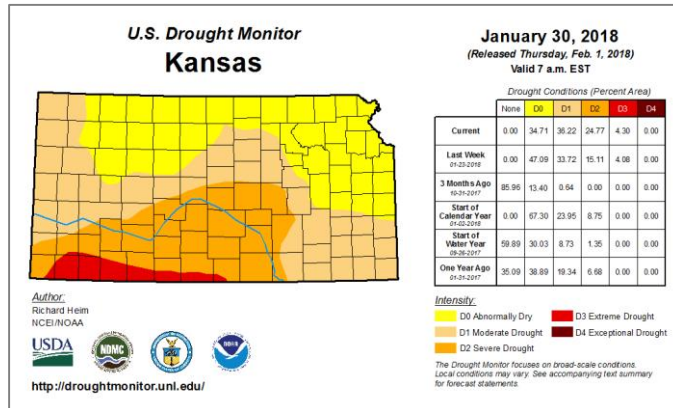
were n't persistent enough to outweigh the very cold start to the month. The western divisions came closest to normal, with the Southwest Division coming in as the warmest, averaging 32.7 °F, or 0.1 degrees warmer than normal. The central and eastern divisions were all colder than normal. The Northeast had the greatest departure, with an average of 25.0 oF or 2.5 degrees cooler than normal. The warmest temperature reported for the month was 83 oF at Medicine Lodge, Barber County, on the 20th. The coldest reading was -16 oF at Belleville, Republic County, on the 1st. Records were set on both the cold and warm end of the spectrum. On the cold side, there were 37 new record low



maximum temperatures and 31 new record low minimum temperatures. On the warm side, there were 41 new record high maximum temperatures and 53 new record high minimums.

Unsurprisingly, given the dry conditions, there were no severe weather reports during the month. In addition to several winter weather advisories, there were several days with extreme fire danger, and also several days with wind chill warnings.

With much below normal precipitation, there was a steep increase in the drought conditions. Extreme drought conditions now cover almost 5 percent of the state. Severe drought has expanded to a quarter of the state while moderate drought covers an additional 36 percent of the state. No area of the state is currently drought-free. The February outlook has a slight chance for drier than normal conditions in the southern half the state, and equal chances for above or below normal precipitation in the rest of the state. Given the low amount of moisture that typically is seen in February, improvement in the current drought status is unlikely. With the wet summer last year and current dryness, increased fire danger continues.



# Appendix:

## Precipitation and Temperature Maps

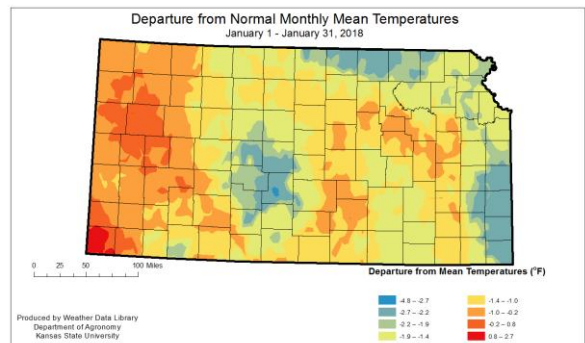
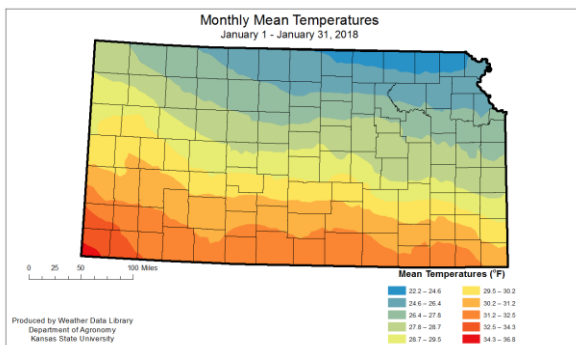
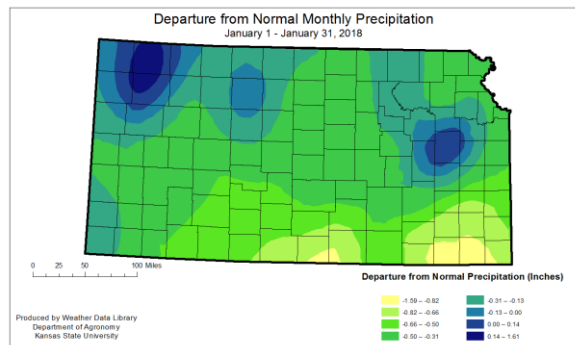
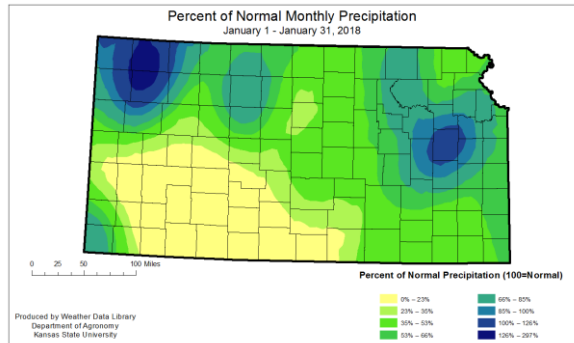
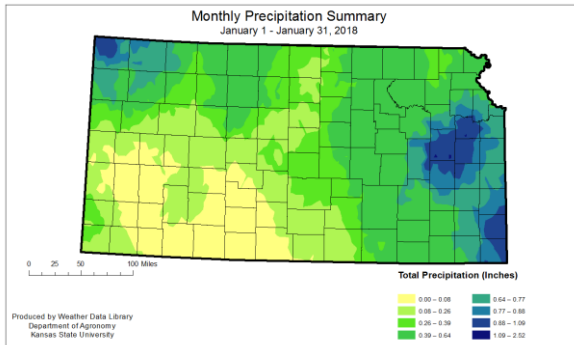


Table 1.

<b>Table 1</b> <b>Jan-18</b> <b>Kansas Climate Division Summary</b>										
	Precipitation (inches)						Temperature (°F)			
	Jan-18			2018 through January			Ave	Dep. 1	Monthly Extremes	
Division	Total	Dep. 1	% Normal	Total	Dep. 1	% Normal			Max	Min
<b>Northwest</b>	0.28	-0.17	61	0.28	-0.17	61	28.2	-0.6	74	-9
<b>West Central</b>	0.22	-0.28	48	0.22	-0.28	48	30.0	0.2	77	-10
<b>Southwest</b>	0.19	-0.28	41	0.19	-0.28	41	32.7	0.6	80	-9
<b>North Central</b>	0.36	-0.27	60	0.36	-0.27	60	25.9	-2.0	69	-16
<b>Central</b>	0.29	-0.40	43	0.29	-0.40	43	28.6	-1.3	77	-10
<b>South Central</b>	0.18	-0.65	21	0.18	-0.65	21	31.0	-1.1	83	-8
<b>Northeast</b>	0.31	-0.50	40	0.31	-0.50	40	25.0	-2.5	66	-13
<b>East Central</b>	0.65	-0.29	67	0.65	-0.29	67	27.2	-1.9	68	-22
<b>Southeast</b>	0.58	-0.67	46	0.58	-0.67	46	30.2	-1.5	69	-7
<b>STATE</b>	0.34	-0.40	46	0.34	-0.40	46	28.8	-1.1	83	-21

1. Departure from 1981-2010 normal value

2. State Highest temperature: 83 °F at Medicine Lodge, Barber County, on the 20th.

3. State Lowest temperature: -16 °F at Belleville, Republic County, on the 1st

4. Greatest 24hr: 2.20 inches at Osage City, Osage County, on the 15th (NWS); 1.70 inches at St. Francis 12.1 NW, Cheyenne County on the 22nd (CoCoRaHS).

**Source: KSU Weather Data Library**

January 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	1.06	0.68	279%	31.9	2.5	74 (19)	-7 (6)
Dodge City	0.09	-0.49	16%	33.6	1.4	74 (10)	-9 (1)
Garden City	T	-0.34	0%	32.2	1.3	73 (10)	-9 (1)
Goodland	0.68	0.30	179%	31.6	2.0	74 (19)	-7 (6)
Guymon, OK	0.01	-0.39	3%	37.4	1.8	80 (30, 20)	-1 (16)
Hill City	0.38	-0.07	84%	30.1	0.8	70 (19)	-3 (16)
Lamar, CO	0.09	-0.21	30%	31.9	3.0	75 (20)	-9 (16)
McCook, NE	0.97	0.46	190%	26.7	-0.5	60 (9)	-6 (2)
Springfield, CO	0.14	-0.23	38%	33.9	1.7	79 (19)	-8 (16)
<b>Central</b>							
Concordia	0.42	-0.16	72%	28.6	0.0	66 (25)	-10 (1)
Hebron, NE				26.2	0.6	62 (25)	-15 (1)
Medicine Lodge	0.08	-0.63	11%	34.2	0.8	69 (25)	-4 (1)
Ponca City, OK	0.11	-0.89	11%	35.7	0.8	69 (21)	-1 (1)
Salina	0.34	-0.29	54%	31.6	0.5	69 (25)	-5 (1)
Wichita (ICT)	0.20	-0.63	24%	34.1	1.8	67 (25)	-2 (1)
<b>East</b>							
Bartlesville, OK	0.46	-1.16	28%	34.1	-0.9	71 (21)	-2 (17)
Chanute	0.61	-0.65	48%	33.2	0.6	67 (25,21)	-3 (1)
Falls City, NE	0.09	-0.56	14%	25.6	-0.9	63 (25)	-17 (1)
Johnson Co. Exec. Apt	0.70	-0.42	63%	28.6	-1.5	64 (21)	-9 (1)
Joplin, MO	0.47	-1.56	23%	33.1	-1.8	72 (21)	-6 (16)
Kansas City (MCI), MO	1.13	0.06	106%	28.4	-0.4	64 (25,21)	-11 (1)
St. Joseph, MO	0.77	0.21	138%	28.6	1.4	62 (25)	-14 (1)
Topeka (TOP)	0.94	0.08	109%	29.4	-0.3	68 (25)	-9 (1)

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

Vegetative Health Index Map:  
Not available at this time

January Snowfall Map:

