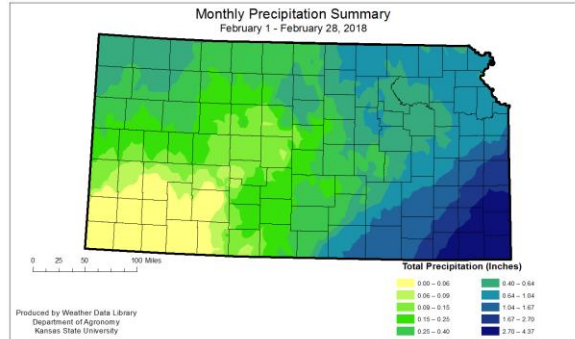


# KANSAS CLIMATE SUMMARY

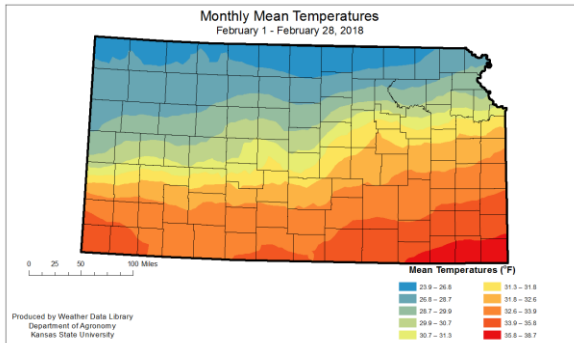
## February 2018

### Dry and Cool

While most locations saw at least some moisture in February, overall the precipitation was below normal for the month. Eight locations, mainly in the Southwest Division, saw just a trace of precipitation during the month. State-wide the average precipitation was 0.53 inches or 41 percent of normal. The Southeast Division was the only area of the state that was above normal for the month, with an average of 1.99 inches or 109 percent of normal. The Southwest Division, with an average of just 0.02 inches, had the lowest percent of normal with just 2 percent. The greatest monthly precipitation totals were 4.37 inches at Coffey Waterworks, Montgomery County (NWS) and 4.05 inches at McCune 1.6 NW, Crawford County (CoCoRaHS). Most of the precipitation came in the last week of the month. There was some snow during the month, with twelve locations setting daily records for snowfall. The greatest daily snowfall report was 4.5 inches at Tribune 1W, Greeley County, on the 6<sup>th</sup>. The greatest snowfall totals for the month were 9.6 inches at Goodland, Sherman County (NWS) and 16.0 inches at St. Francis 12.1 NW, Cheyenne County (CoCoRaHS)



February continued the pattern of wide temperature swings, as might be expected with the dry air in place. The statewide average temperature was 30.7 oF, or 3.3 degrees cooler than normal. The warm days

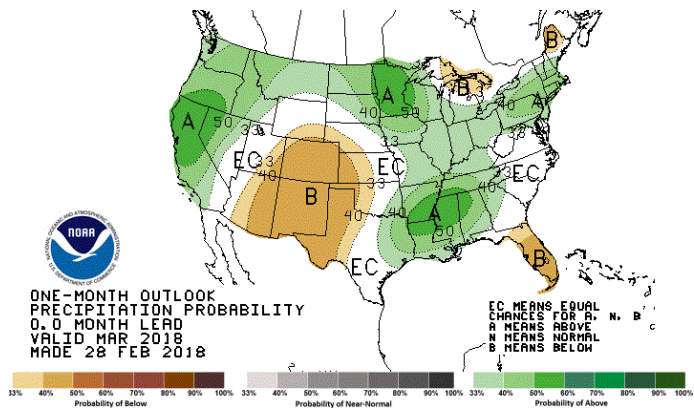
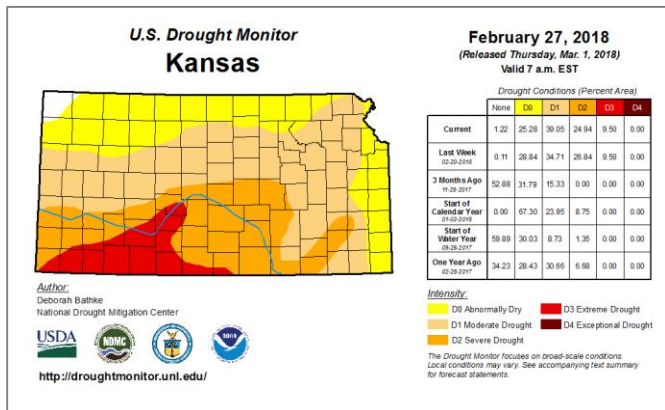


were not persistent enough to outweigh the very cold start to the month. All divisions averaged below normal for the month. The Northwest had the greatest departure, with an average of 26.7 oF or 5.0 degrees cooler than normal. The Southeast Division came closest to normal with an average temperature of 34.6 oF and a departure of -1.9 degrees. The warmest temperature reported for the month was 80 oF at Ashland, Clark County, on the 15<sup>th</sup> and Tallgrass Prairie Park, Chase County, on the 19<sup>th</sup>. The coldest reading was -10 oF at Marysville, Marshall County, on the 5<sup>th</sup>. Records were set on both the cold and warm end of the spectrum. On the cold side, there were 7

new record low maximum temperatures and 7 new record low minimum temperatures. On the warm side, there were 22 new record high maximum temperatures and 17 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.

Extreme northwest Kansas saw improvement, due to the wet conditions in January and February. The rest of the state saw deterioration. Extreme drought conditions now cover almost 10 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. The March outlook has a slight chance for drier than normal conditions state wide, with an increased chance of warmer than normal temperatures. Since March is a critical transition month, that combination is likely to result in further deterioration of the drought conditions. With the wet summer last year and current dryness, increased fire danger continues.



# Appendix:

## Precipitation and Temperature Maps

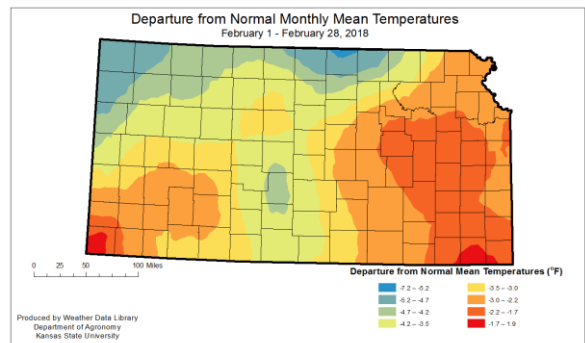
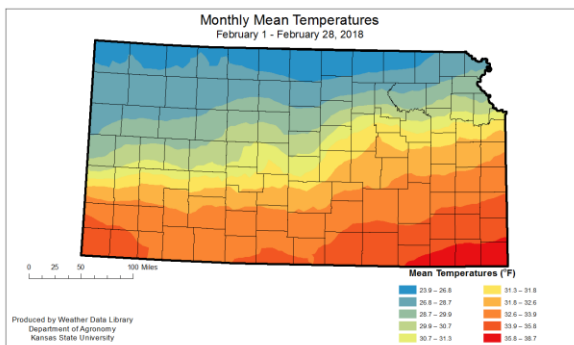
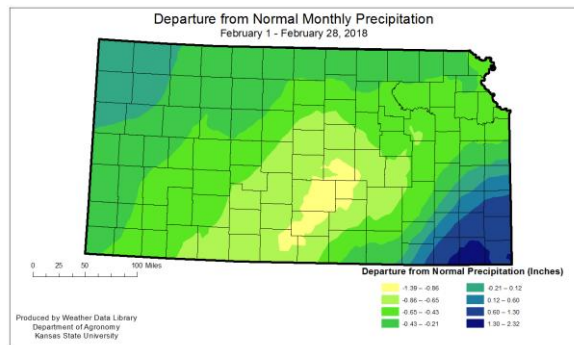
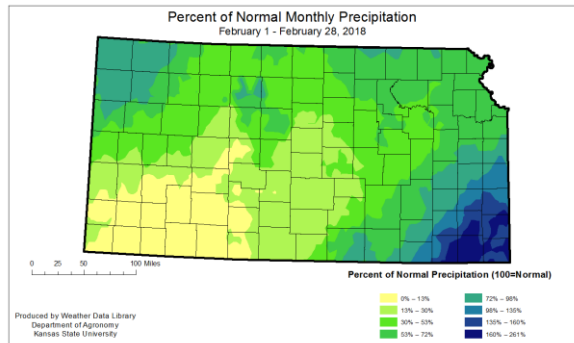
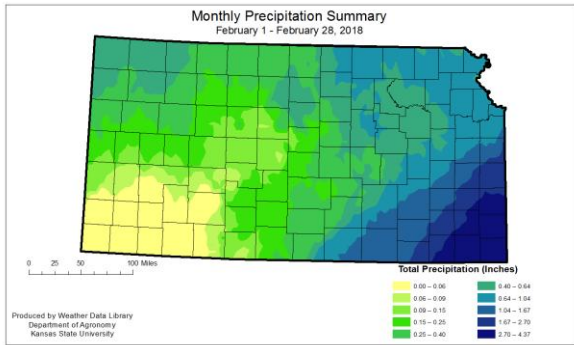


Table 1.

<b>Table 1</b> <b>Feb-18</b> <b>Kansas Climate Division Summary</b>										
	Precipitation (inches)						Temperature (°F)			
	Feb-18			2018 through February			Ave	Dep. 1	Monthly Extremes	
Division	Total	Dep. 1	% Normal	Total	Dep. 1	% Normal			Max	Min
<b>Northwest</b>	0.16	-0.38	28	0.44	-0.55	43	26.7	-5.0	78	-7
<b>West Central</b>	0.20	-0.39	36	0.42	-0.68	41	29.3	-3.8	79	-1
<b>Southwest</b>	0.02	-0.53	2	0.21	-0.81	21	33.4	-2.2	80	0
<b>North Central</b>	0.32	-0.51	38	0.68	-0.78	48	27.3	-4.8	78	-8
<b>Central</b>	0.43	-0.58	45	0.72	-0.98	44	31.1	-3.1	79	-1
<b>South Central</b>	0.44	-0.72	33	0.61	-1.38	27	33.0	-3.5	78	4
<b>Northeast</b>	0.49	-0.63	43	0.81	-1.11	41	28.9	-3.4	74	-10
<b>East Central</b>	0.58	-0.75	39	1.23	-1.05	51	31.7	-2.0	76	-2
<b>Southeast</b>	1.99	0.27	109	2.57	-0.40	82	34.6	-1.9	78	2
<b>STATE</b>	0.53	-0.46	41	0.86	-0.87	43	28.8	-1.1	80	-9

1. Departure from 1981-2010 normal value  
2. State Highest temperature: 80 °F at Ashland, Clark County, on the 15th and Tallgrass Prairie Park, Chase County, on the 19th.  
3. State Lowest temperature: -10 °F at Marysville, Marshall County, on the 5th.  
4. Greatest 24hr: 1.93 inches at Erie, Neosho County, on the 21st (NWS); 2.08 inches at Erie 0.3 N , Neosho County, on the 21st (CoCoRaHS).

**Source: KSU Weather Data Library**

February 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	0.50	0.08	119%	29.0	-2.6	70 (18)	-8 (21,20)
Dodge City	0.06	-0.62	9%	34.1	-1.8	77 (18)	4 (21)
Garden City	T	-0.54	0%	32.6	-2.2	77 (18)	3 (11, 7)
Goodland	0.61	0.12	124%	29.3	-3.0	70 (18)	0 (21)
Guymon, OK	0.01	-0.46	2%	38.2	-0.4	80 (14)	10 (11)
Hill City	0.44	-0.08	85%	29.9	-3.0	76 (27)	2 (221, 7)
Lamar, CO	0.08	-0.32	20%	32.7	-0.9	76 (18)	-2 (21)
McCook, NE	0.54	-0.08	87%	25.9	-5.0	64 (18)	0 (11)
Springfield, CO	0.06	-0.38	14%	33.9	-1.5	74 (18)	1 (21)
<b>Central</b>							
Concordia	0.57	-0.22	72%	29.3	-3.4	73 (27)	0 (4)
Hebron, NE				26.5	-3.1	70 (27)	-6 (4)
Medicine Lodge	0.30	-0.74	29%	35.5	-2.7	79 (14)	8 (12)
Ponca City, OK	1.15	-0.19	86%	38.4	-1.3	78 (15)	6 (12)
Salina	0.14	-1.03	12%	34.4	-1.1	74 (27)	6 (5)
Wichita (ICT)	0.28	-0.90	24%	35.9	-1.3	72 (15,14)	8 (5)
<b>East</b>							
Bartlesville, OK	3.31	1.34	168%	37.8	-2.0	81 (15)	4 (12)
Chanute	2.00	0.10	105%	36.1	-1.3	77 (15)	2 (5)
Falls City, NE	0.24	-0.70	26%	28.1	-2.8	74 (27)	-4 (5)
Johnson Co. Exec. Apt	0.71	-0.86	45%	32.4	-2.4	68 (27)	0 (5)
Joplin, MO	4.94	2.62	213%	39.1	-0.7	77 (15)	4 (5)
Kansas City (MCI), MO	1.32	-0.14	90%	32.3	-1.2	71 (27)	-2 (5)
St. Joseph, MO	0.69	-0.24	74%	29.9	-2.1	71 (27)	0 (5)
Topeka (TOP)	0.81	-0.51	61%	33.1	-1.3	71 (27)	-1 (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							

Vegetative Health Index Map:  
Not available at this time

February Snowfall Map:

