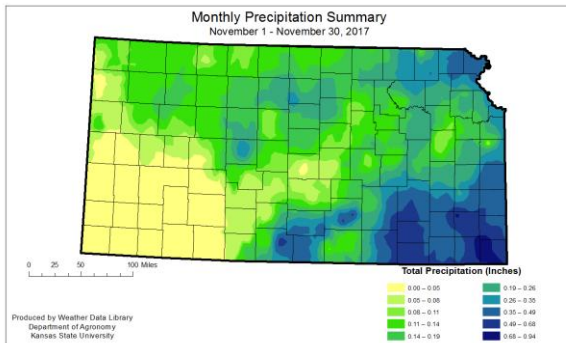


KANSAS CLIMATE SUMMARY

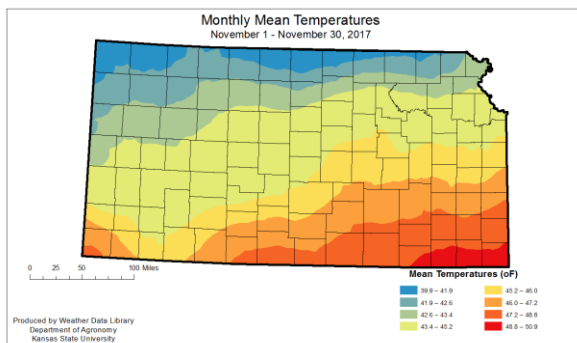
November 2017

Dry

The major climate feature for November was the dryness. Statewide average precipitation was just 0.10 inches, which is a 3-way tie for the sixth driest November on record. The driest November on record was in 1989 when the statewide average precipitation was zero, and the greatest amount reported was just 0.01 inches. The Southeast Division came closest to normal with an average of 0.37 inches or 14 percent of normal. The Southwest Division ended as the driest with an average of zero, which was zero percent of normal. Thanks to the wet conditions in the division in September, the Southwest is still at 99 percent of normal for the September through November period. Greatest monthly total for a National Weather Service (NWS) reporting station was 0.88 inches at Coffeyville Waterworks, Montgomery County. The greatest monthly total for a Community Collaborative Rain Hail and Snow (CoCoRaHS) station was 0.77 inches at Wichita 4.5 ENE, Sedgwick County. Not surprisingly, with the low monthly totals the 24hr maximum amounts were also low. The greatest 24hr amounts: 0.59 inches at Cedarvale 5SSE, Chautauqua County, on the 29th (NWS); 0.64 inches at Beaumont 6.6 SSW, Butler County on the 29th (CoCoRaHS).



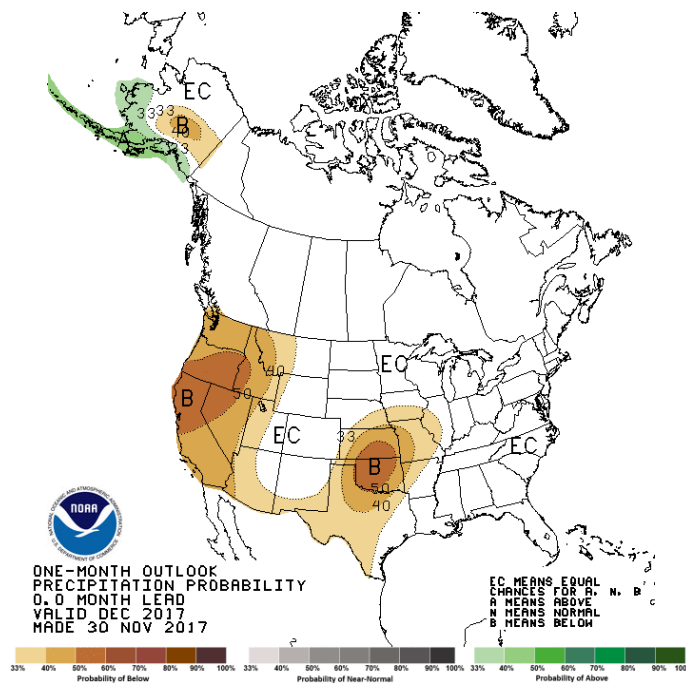
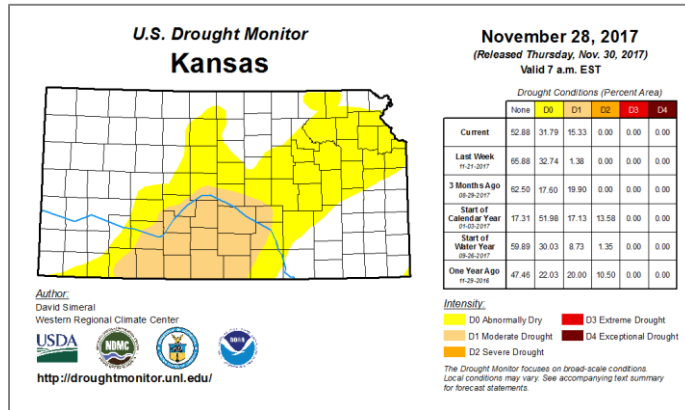
November ended on a warm note, pushing the statewide average to 44.2 °F or 1.6 degrees warmer than normal. That places it on the warm side of the distribution in a 7-way tie for the 36th warmest November since 1895. The warmest November on record occurred in 1999 when the statewide average temperature was 50.1 °F. There were 137 new record daily highs, one of which tied the monthly record high for the location. That was 87 °F reported at Atwood, Rawlins County, on the 28th. There were also 28 new record daily warm minimum temperatures. None of those set new records for the month. On the cold side of the scale, there were 6 new record low maximum temperatures and 4 new record low minimum temperatures during the month. The warmest reading of the month was 86 °F at Salina Airport, Saline County, on the 24th. The coldest temperature for the month was 12 °F reported at Burr Oak and Mankato, both in Jewell County, on the 22nd.



Although the warmth that ended the month made it a distant memory, snow was reported in November. Five locations in North Central KS set daily records for snowfall. The greatest snowfall report for the month was 2.5 inches at Ellis, Ellis County, on the 1st. This Halloween storm was the only significant snowfall event during the month.

Unsurprisingly, given the dry conditions there were no severe weather reports during the month.

Much below normal precipitation, coupled with warmer than normal temperatures resulted in a steep increase in the drought conditions. The area of abnormally dry to moderate drought increased by 33 percent in November. The December outlook calls for drier than normal conditions statewide. Given the low amount of moisture that typically is seen in December, improvement in the current drought status is unlikely. With the wet summer and current dryness, increased fire danger is likely.



Appendix:

Precipitation and Temperature Maps

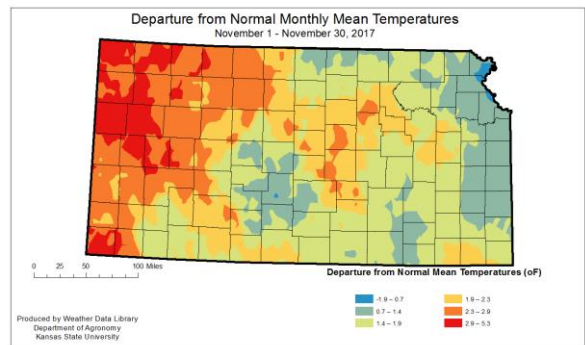
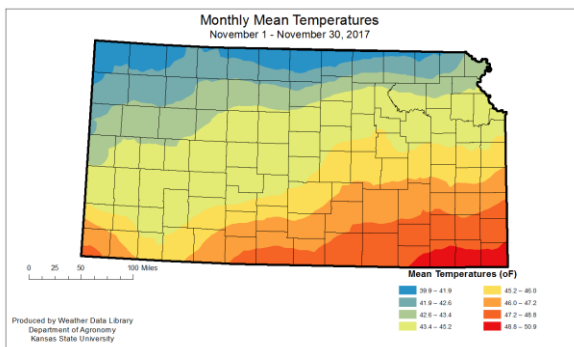
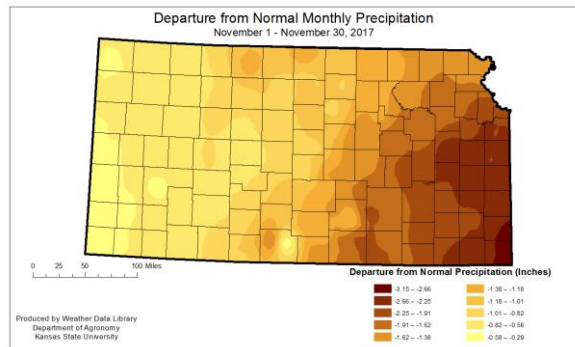
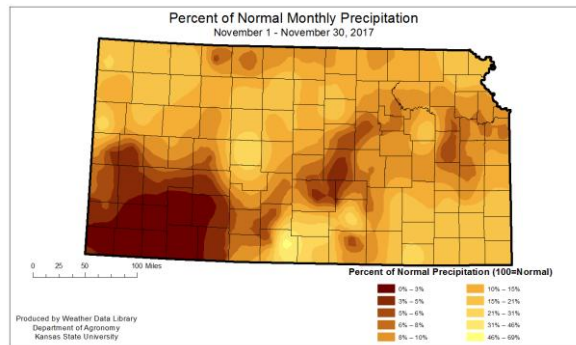
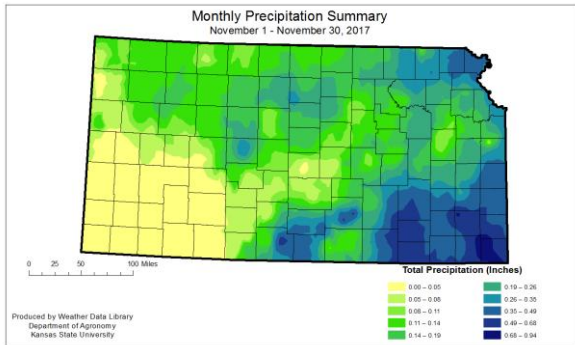


Table 1.

Table 1 Nov-17 Kansas Climate Division Summary										
	Precipitation (inches)						Temperature (°F)			
	Nov-17			2017 through November			Ave	Dep. 1	Monthly Extremes	
Division	Total	Dep. 1	% Normal	Total	Dep. 1	% Normal			Max	Min
Northwest	0.01	-0.81	1	20.35	-0.44	97	42.0	2.6	86	15
West Central	0.03	-0.76	3	23.24	3.10	115	43.5	2.9	86	17
Southwest	0.00	-0.66	0	24.32	5.09	127	45.8	2.8	86	16
North Central	0.06	-1.17	4	26.23	-0.93	96	42.3	1.1	85	12
Central	0.09	-1.15	7	25.94	-2.42	92	44.2	1.4	87	13
South Central	0.13	-1.36	8	31.16	0.96	103	45.9	1.3	84	16
Northeast	0.09	-1.68	5	29.17	-4.61	86	42.2	0.0	79	13
East Central	0.11	-2.06	5	32.87	-3.65	88	44.5	0.9	79	15
Southeast	0.37	-2.22	14	41.18	1.50	103	47.1	1.2	80	18
STATE	0.10	-1.32	5	28.56	0.21	102	44.2	1.6	86	12

1. Departure from 1981-2010 normal value

2. State Highest temperature: 87 °F at Salina Airport, Saline County, on the 24th.

3. State Lowest temperature: 12 °F at Burr Oak and Mankato, Jewell County, on the 22nd.

4. Greatest 24hr: 0.59 inches at Cedarvale 5SSE, Chautauqua County, on the 29th (NWS); 0.64 inches at Beaumont 6.6 SSW, Butler County on the 29th (CoCoRaHS).

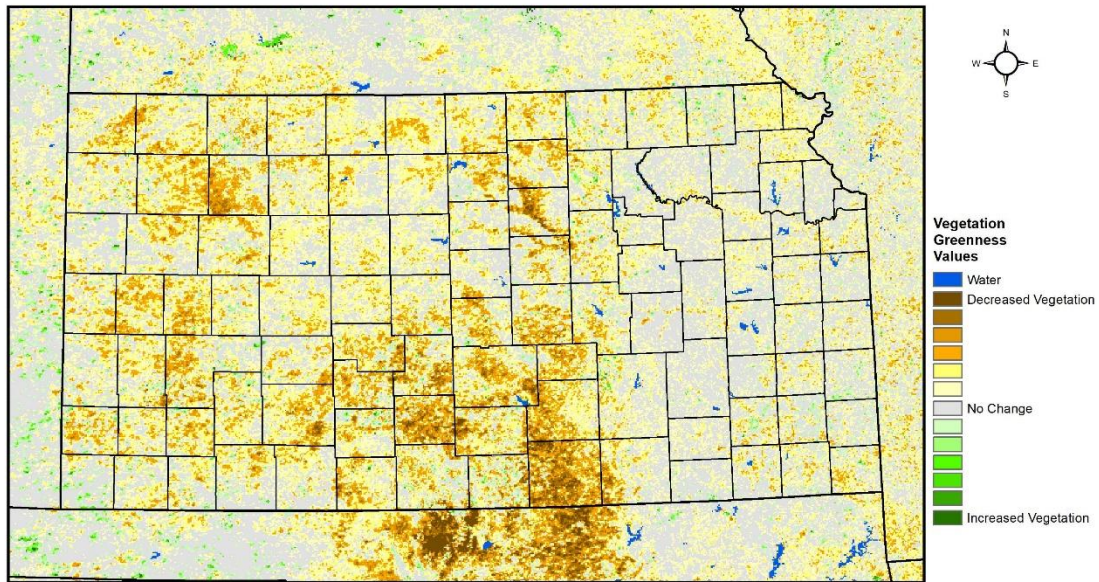
Source: KSU Weather Data Library

November Summary							
Station ¹	Precipitation (inches)			Temperature of F			
	Total	Departure	Percent Normal	Mean	Departure	Extreme (Date)	
						Highest	Lowest
West							
Burlington, CO	0.02	-0.57	3%	43.3	5.1	82 (27)	16 (19,18)
Dodge City	0.01	-0.75	1%	46.1	3.0	82 (24)	20 (22,8)
Garden City	0.01	-0.54	2%	44.5	2.8	79 (17)	18 (19)
Goodland	0.03	-0.68	4%	43.5	4.5	82 (27)	18 (10)
Guymon, OK	T	-0.53	0%	49.5	3.9	84 (27,24)	21 (19)
Hill City	0.10	-0.85	11%	44.2	3.5	83 (24)	19 (29,8)
Lamar, CO	T	-0.38	0%	44.9	4.9	86 (27)	12 (19)
McCook, NE	0.16	-0.79	17%	42.4	4.2	79 (27)	17 (8)
Springfield, CO	0.07	-0.51	12%	45.9	4.2	85 (27)	17 (19)
Central							
Concordia	0.14	-0.97	13%	44.4	2.8	83 (24)	16 (22)
Hebron, NE	0.09	-1.35	6%	42.7	3.2	80 (24)	14 (22)
Medicine Lodge	0.64	-0.29	69%	47.6	2.1	78 (27,17)	21 (22)
Ponca City, OK	1.32	-0.49	73%	51.3	3.6	82 (24)	20 (22)
Salina	0.06	-1.19	5%	47.4	3.4	87 (24)	20 (22)
Wichita (ICT)	0.52	-0.91	36%	47.9	2.5	76 (24)	20 (22)
East							
Bartlesville, OK	0.23	-2.45	9%	50.0	2.0	80 (24,17)	21 (22)
Chanute	0.79	-1.71	32%	49.1	2.8	77 (12)	19 (22)
Falls City, NE	0.35	-1.61	18%	42.4	1.4	77 (24)	14 (22)
Johnson Co. Exec. Apt	0.10	-2.39	4%	45.1	1.1	72 (24)	18 (22)
Joplin, MO	0.52	-3.26	14%	51.0	2.6	79 (2)	19 (22)
Kansas City (MCI), MO	0.27	-1.88	13%	44.8	1.2	72 (24)	16 (22)
St. Joseph, MO	0.46	-1.09	30%	42.7	0.8	75 (24)	14 (22)
Topeka (TOP)	0.10	-1.75	5%	45.8	2.0	79 (24)	18 (22)

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:

Kansas Vegetation Condition Comparison Late-November 2017 compared to the 28-Year Average for Late-November



0 25 50 100 150 200 Miles

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