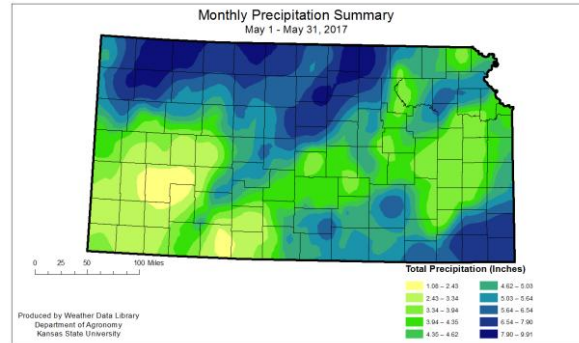


# KANSAS CLIMATE SUMMARY

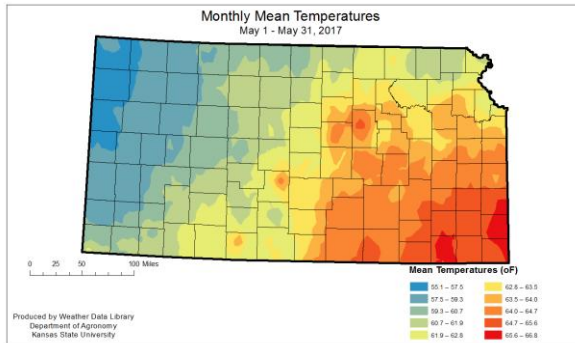
## May 2017

### Cold, wet start

The epic April blizzard carried into the first of May, with significant snowfall reported from the event. This started a wetter than normal month for most of the state. The state-wide average precipitation was 4.66 inches which is 113 percent of normal. The North Central Division had the highest percent of normal with an average of 6.32 inches or 154 percent of normal. The Northeast, East Central and Southwest divisions were below normal for the month, but given the very wet conditions in April, all divisions are above normal for the April – May period. Rains were frequent enough that even the divisions with below normal precipitation had planting delays. The greatest monthly precipitation total for a National Weather Service (NWS) Coop station was 9.49 inches at Oswego 1N, Labette County. The greatest monthly total for a Community Collaborative Rain, Hail and Snow (CoCoRaHS) station was 9.91 inches at Beloit 9.9 SSW, Mitchell County. The highest 24hr totals: 5.18 inches at Norwich, Kingman County, on the 12th (NWS); 5.00 inches at Abilene 0.7 E, Dickinson County, on the 19th (CoCoRaHS).

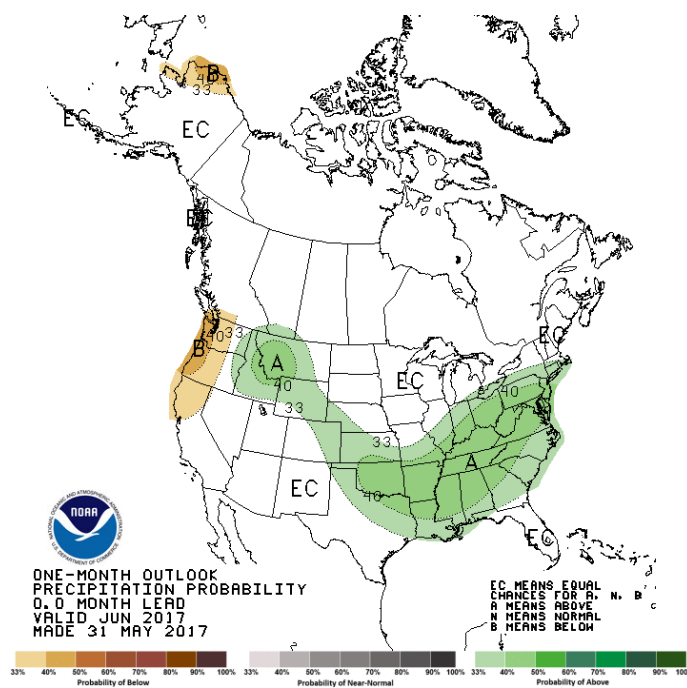
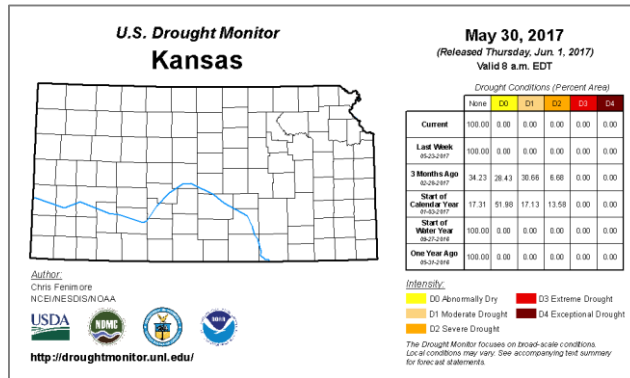


Temperatures were slow to recover from the cooler than normal start. State-wide temperatures averaged 61.8 °F or -1.7 degrees from normal. The East Central and Southeast divisions averaged closest to normal with a departure of -0.7 °F respectively. The warmest reading for the month was 95 °F at Elkhart, Morton County, on the 26th. The coldest reading, not surprisingly was at the beginning of the month when Hays 1ESE recorded a low of 22 °F on the 1<sup>st</sup>. Despite the cool temperatures, there were five record high maximum temperatures during the month and seven record high minimum temperatures. On the cold side, there were 41 new record cold maximum temperature in May and 33 new record low minimum temperatures. Of the record cold maximum temperatures, 15 set new records for any day in May. Freezing temperatures were reported in five of the nine climate divisions. The exceptions were the South Central Division and the eastern divisions. All divisions, except the Southeast, saw high temperatures reach 90 oF or more.



After the remnants of the winter storm, an outbreak of typical spring severe weather occurred. There were 37 reports of tornadoes, 160 hail reports, and 106 high wind reports. The largest outbreak came during the week of May 16<sup>th</sup> to May 22<sup>nd</sup> when 35 tornadoes and 123 hail events were reported.

The higher than normal precipitation resulted in continued drought free conditions state-wide. The June outlook calls for a slightly increased chance of wetter than normal conditions the across the state coupled with equal chances of above or below normal temperatures. At this point, the dry pattern expected for the next week is providing a welcome window for field work.



# Appendix:

## Precipitation and Temperature Maps

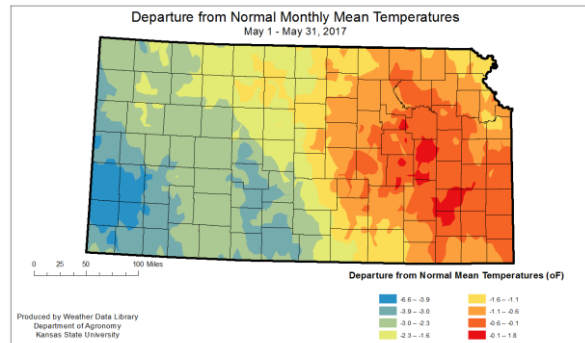
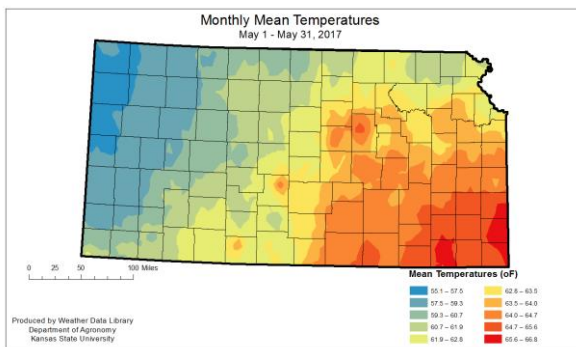
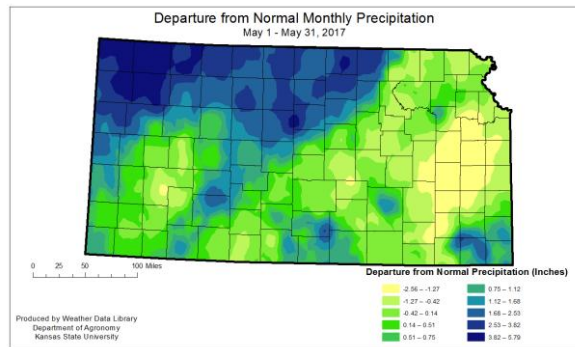
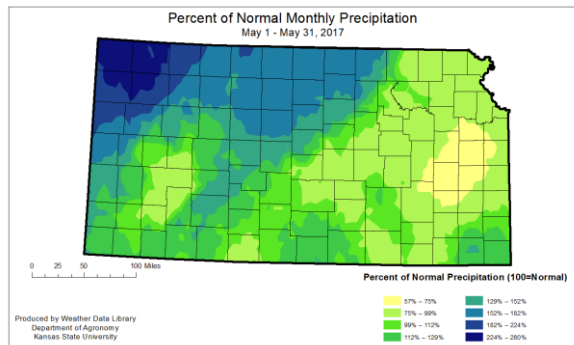
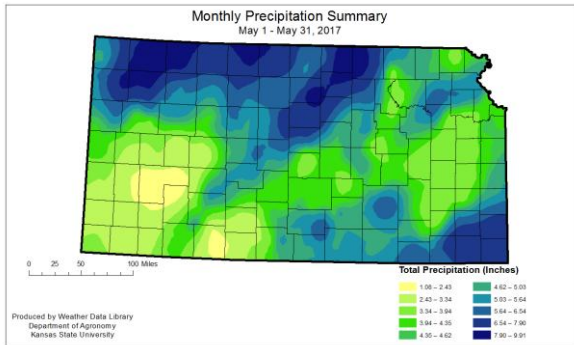


Table 1.

<b>Table 1 May-17 Kansas Climate Division Summary</b>										
<b>Division</b>	<b>Precipitation (inches)</b>						<b>Temperature (°F)</b>			
	<b>May-17</b>			<b>2017 through May</b>			<b>Ave</b>	<b>Dep. 1</b>	<b>Monthly Extremes</b>	
	<b>Total</b>	<b>Dep. 1</b>	<b>% Normal</b>	<b>Total</b>	<b>Dep. 1</b>	<b>% Normal</b>			<b>Max</b>	<b>Min</b>
<b>Northwest</b>	4.66	1.20	134	7.93	0.10	100	58.2	-1.9	93	29
<b>West Central</b>	4.26	1.23	140	9.75	2.32	131	59.2	-2.1	93	28
<b>Southwest</b>	2.39	-0.34	88	11.34	4.59	168	61.1	-2.7	95	30
<b>North Central</b>	6.32	2.24	154	13.29	3.22	131	61.6	-1.6	91	28
<b>Central</b>	5.42	1.15	130	14.80	3.92	137	62.8	-1.5	93	22
<b>South Central</b>	5.02	0.63	114	17.61	5.90	151	62.9	-2.5	92	34
<b>Northeast</b>	4.14	-0.65	88	12.66	0.41	105	62.0	-1.7	91	36
<b>East Central</b>	4.11	-1.04	79	13.32	-0.31	97	63.5	-0.7	90	35
<b>Southeast</b>	5.85	0.06	101	19.80	4.14	127	64.8	-0.7	88	36
<b>STATE</b>	4.66	0.49	113	13.68	3.00	130	61.8	-1.7	95	22

1. Departure from 1981-2010 normal value

2. State Highest temperature: 95 oF at Elkhart, Morton County, on the 26th.

3. State Lowest temperature: 22 oF at Hays 1 ESE, Ellis County, on the 1st.

4. Greatest 24hr: 5.18 inches at Norwich, Kingman County, on the 12th (NWS); 5.00 inches at Abilene 0.7 E, Dickinson County, on the 19th (CoCoRaHS).

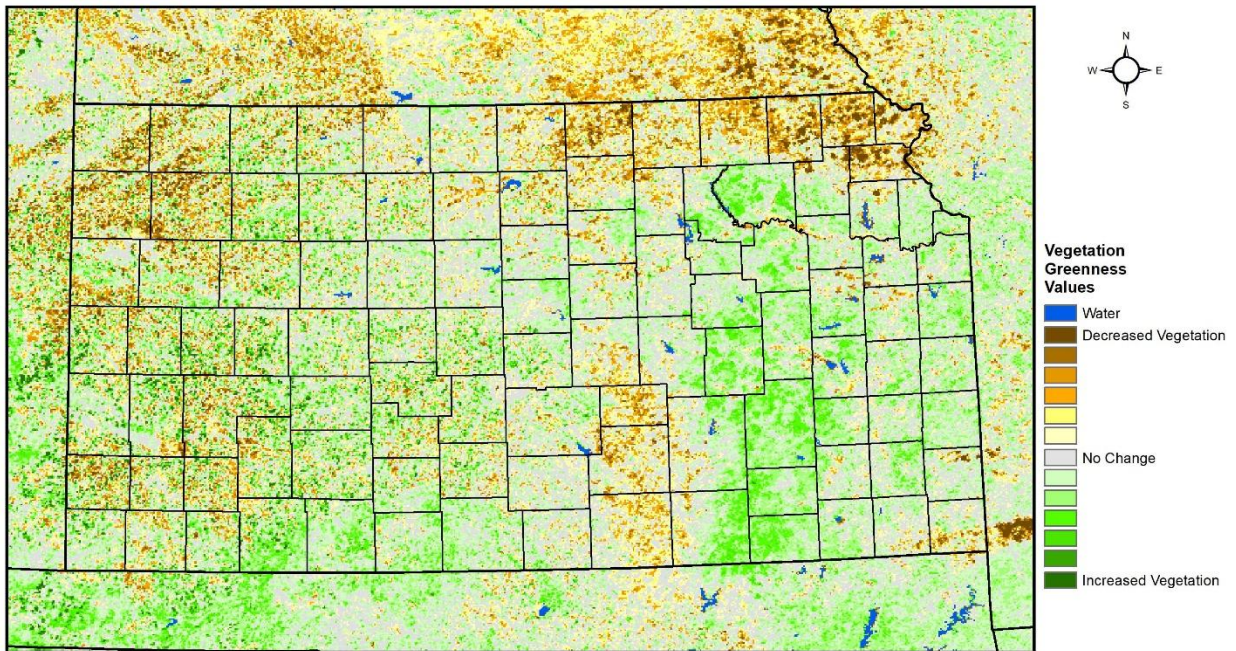
**Source: KSU Weather Data Library**

May Summary							
Station <sup>1</sup>	Precipitation (inches)			Temperature of			
	Total	Departure	Percent Normal	Mean	Extreme (Date)		
					Departure	Highest	Lowest
<b>West</b>							
Burlington, CO	4.96	2.38	192%	57.4	-1.2	86 (7)	30 (1)
Dodge City	4.62	1.77	162%	62.1	-2.1	90 (15)	34 (1)
Garden City	1.08	-1.80	38%	61.7	-1.6	92 (15)	35 (24)
Goodland	7.66	4.71	260%	58.5	-0.9	88 (15,7)	32 (4,3)
Guymon, OK	2.18	-0.26	89%	63.1	-1.8	95 (25)	36 (2)
Hill City	4.49	0.71	119%	62.1	-0.4	94 (15)	34 (1)
Lamar, CO	3.69	1.67	183%	60.5	-1.7	92 (25,15)	30 (4)
McCook, NE	3.55	0.41	113%	59.6	0.0	90 (7)	31 (4)
Springfield, CO	4.58	2.22	194%	57.6	-3.7	90 (25)	30 (1)
<b>Central</b>							
Concordia	8.00	3.84	192%	62.0	-1.1	86 (14)	34 (1)
Hebron, NE				62.0	0.3	90 (16,15)	33 (1)
Medicine Lodge	5.18	1.88	157%	66.1	-0.9	90 (31)	40 (21)
Ponca City, OK	4.29	-0.52	89%	67.7	0.1	91 (31,27)	40 (4)
Salina	3.87	-0.88	81%	65.8	0.5	91 (14)	38 (1)
Wichita (ICT)	4.44	-0.13	97%	65.9	-0.1	89 (31)	40 (1)
<b>East</b>							
Bartlesville, OK	7.59	2.27	143%	66.3	-1.4	92 (27)	42 (25,4)
Chanute	5.89	0.09	102%	66.1	0.2	87 (26)	40 (4,1)
Falls City, NE	3.10	-1.48	68%	63.2	-0.7	90 (15)	37 (1)
Johnson Co. Exec. Apt	4.33	-1.10	80%	63.7	-1.0	86 (15)	38 (1)
Joplin, MO	8.00	2.29	140%	67.1	0.1	87 (18)	41 (4)
Kansas City (MCI), MO	5.37	0.14	103%	63.8	-0.7	88 (15)	38 (4)
St. Joseph, MO	3.85	-1.57	71%	64.2	-0.2	92 (15)	37 (4)
Topeka (TOP)	3.69	-1.22	75%	65.1	0.1	89 (15)	39 (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:

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

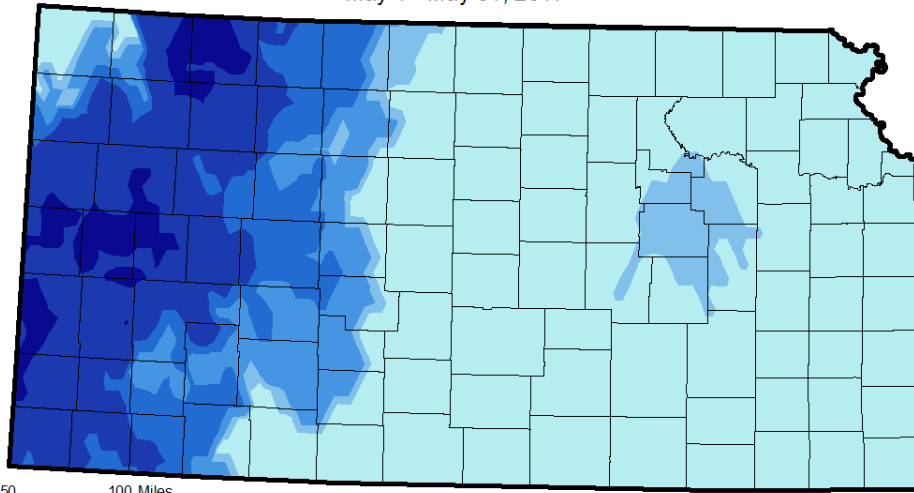


0 25 50 100 150 200 Miles

Nan An, Imaging Scientist, an\_198317@hotmail.com  
Antonio Ray Asebedo, Assistant Professor, ara4747@ksu.edu

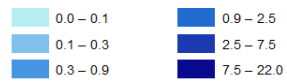


### Total Monthly Snowfall May 1 - May 31, 2017



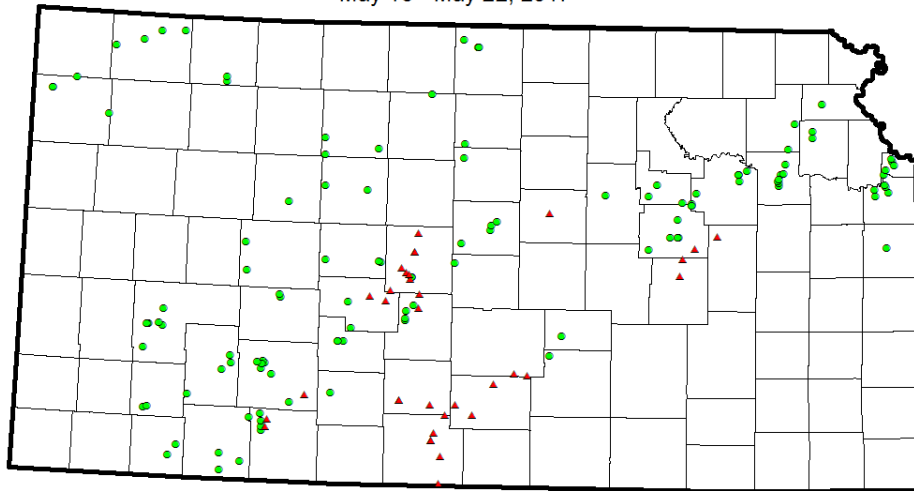
0 25 50 100 Miles

Total Snowfall (Inches)



Produced by Weather Data Library  
Department of Agronomy  
Kansas State University

### Preliminary Storm Events May 16 - May 22, 2017



0 25 50 100 Miles

Storm events from Storm Prediction Center



Produced by Weather Data Library  
Department of Agronomy  
Kansas State University