

Drought is a major focus for many Kansans this summer. One means of measuring the drought is the Drought Severity Classification. Below is the list of indicators and their ranges from the National Drought Mitigation Center used in the U.S. Drought Monitor:

		Ranges					
Category	Description	Possible Impacts	Palmer Drought Index	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation Index (SPI)	Objective Short and Long-term Drought Indicator Blends (Percentiles)
D0	Abnormally Dry	Going into drought: short-term dryness slowing planting, growth of crops or pastures. Coming out of drought: some lingering water deficits; pastures or crops not fully recovered	-1.0 to -1.9	21-30	21-30	-0.5 to -0.7	21-30
D1	Moderate Drought	Some damage to crops, pastures; streams, reservoirs, or wells low, some water shortages developing or imminent; voluntary water-use restrictions requested	-2.0 to -2.9	11-20	11-20	-0.8 to -1.2	11-20
D2	Severe Drought	Crop or pasture losses likely; water shortages common; water restrictions imposed	-3.0 to -3.9	6-10	6-10	-1.3 to -1.5	6-10
D3	Extreme Drought	Major crop/pasture losses; widespread water shortages or restrictions	-4.0 to -4.9	3-5	3-5	-1.6 to -1.9	3-5
D4	Exceptional Drought	Exceptional and widespread crop/pasture losses; shortages of water in reservoirs, streams, and wells creating water emergencies	-5.0 or less	0-2	0-2	-2.0 or less	0-2

Short-term drought indicator blends focus on 1-3 month precipitation. Long-term blends focus on 6-60 months. Additional indices used, mainly during the growing season, include the USDA/NASS Topsoil Moisture, Keetch-Byram Drought Index (KBDI), and NOAA/NESDIS satellite Vegetation Health Indices. Indices used primarily during the snow season and in the West include snow water content, river basin precipitation, and the Surface Water Supply Index (SWSI). Other indicators include groundwater levels, reservoir storage, and pasture/range conditions.

A general estimation of Kansas Conditions, by Climate Division:

Division	Palmer Drought Index	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation Index (SPI)	Objective Short and Long-term Drought Indicator Blends (Percentiles)
Northwest	-0.93	30-70	25 – 75	+0.51 to + 0.79	30 to 70
North Central	0.69	30-70	25 – 75	+0.51 to + 0.79	80 to 90
North East	-1.21	30-70	25 – 75	-0.50 to + 0.50	30 to 70
West Central	-3.14	20-30	25 – 75	-0.50 to + 0.50	30 to 70
Central	-2.37	20-30	< 10	-1.29 to – 0.80	10 to 20
East Central	-1.88	20-30	25 – 75	-0.79 to – 0.51	10 to 20
Southwest	-4.74	1-20	< 10	Less than -2.00	0 to 2
South Central	-3.83	1-20	< 10	Less than -2.00	0 to 2
Southeast	-2.59	5-20	25 -75	-0.79 to – 0.51	5 to 10

Using provisional data, as available Aug 5, 2011.

Current Kansas Drought Monitor:

U.S. Drought Monitor

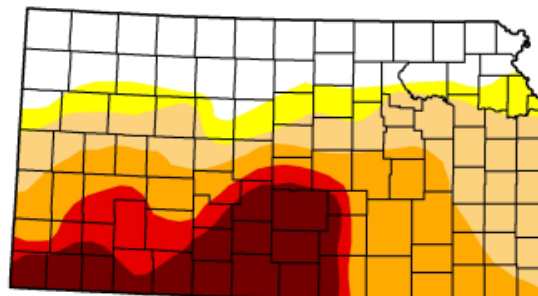
Kansas

August 2, 2011

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	24.54	75.46	66.43	44.81	22.66	14.55
Last Week (07/26/2011 map)	29.49	70.51	53.03	40.48	17.64	11.57
3 Months Ago (05/03/2011 map)	10.39	89.61	61.48	17.90	1.41	0.18
Start of Calendar Year (12/28/2010 map)	17.82	82.18	43.85	3.48	0.00	0.00
Start of Water Year (09/28/2010 map)	83.23	16.77	0.00	0.00	0.00	0.00
One Year Ago (07/27/2010 map)	98.66	1.34	0.00	0.00	0.00	0.00



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, August 4, 2011
Brad Rippey, U.S. Department of Agriculture

8/8/2020

Kansas Climate Division Precipitation Summary (inches)

7 Day Summary ending on 8/7/2011
Percent of Normal (100% = Normal)

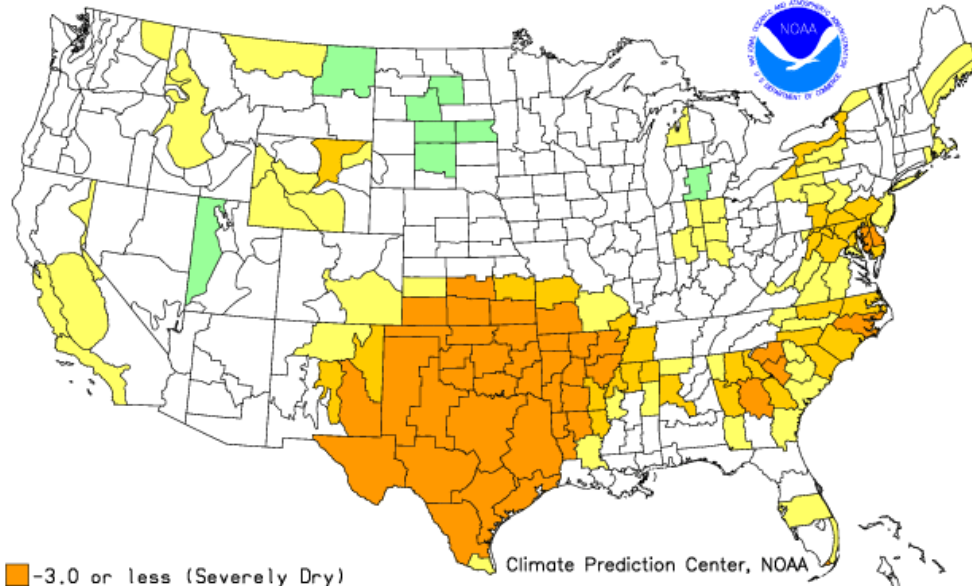
	8/1 -8/7				1/1 - 8/7				4/1 -8/7			
	ACT.	NRM.	Dept.	%	ACT.	NRM.	Dept.	%	ACT.	NRM.	Dept.	%
Northwest	1.07	0.55	0.52	192	11.42	14.24	-2.82	79	10.28	12.04	-1.76	84
West Central	0.94	0.58	0.36	164	9.24	13.54	-4.30	68	7.71	11.34	-3.63	68
Southwest	0.42	0.57	-0.15	74	5.15	13.22	-8.07	39	4.22	11.08	-6.86	38
North Central	1.6	0.74	0.86	213	17.05	17.56	-0.51	96	14.91	14.34	0.57	103
Central	1.38	0.74	0.64	182	12.03	18.52	-6.49	65	9.51	14.93	-5.42	64
Southcentral	0.59	0.71	-0.12	85	7.51	17.96	-10.45	40	5.41	14.26	-8.85	37
Northeast	0.55	0.88	-0.33	64	16.85	21.60	-4.75	78	13.38	17.54	-4.16	76
East Central	0.75	0.82	-0.07	97	14.40	22.59	-8.19	64	10.44	17.96	-7.52	58
Southeast	0.56	0.83	-0.27	68	15.89	23.16	-7.27	68	10.51	17.73	-7.22	59
State	0.85	0.71	0.14	123	11.74	17.94	-6.20	64	9.2	14.47	-5.27	62

Latest Palmer Readings

Week ending 30-Jul

CD	TEMP (F)	PCPN (IN)	MOISTURE		FIELD CAP. END WEEK	POT EVAP (IN)	RUN OFF (IN)	CROP MOIST INDEX	CHANGE FROM PREV WEEK	MOIST ANOM (Z) INDEX	PALMER DROUGHT INDEX	FINAL -F	NEEDED TO END DROUGHT (IN)
			UPPER LAYER (IN)	LOWER LAYER (IN)									
NORTHWEST	80.3	1.14	0	3.56	32.4	1.55	0	-0.13	0.5	-0.15	-0.8	P	1.54
WEST CENTRAL	81.4	1.13	0	0.7	7.8	1.59	0	-1.19	0.92	-1.5	-2.94	P	6.2
SOUTHWEST	84.4	0.38	0	0.14	1.6	1.71	0	-4.44	0.26	-4.05	-4.89	F	9.64
NORTH CENTRAL	81.7	1.37	0	6.12	61.2	1.61	0	0.26	0.21	0.57	1.01	P	
CENTRAL	85.3	0.41	0	1.64	20.5	1.75	0	-3.45	-0.28	-2.95	-2.57	F	7.63
SOUTH CENTRAL	88.4	0.35	0	0.5	7.1	1.85	0	-5.79	-0.02	-4.62	-4.07	F	11.75
NORTHEAST	83.3	1.75	0.07	6.23	63	1.68	0	-0.25	0.48	-0.98	-0.8	P	2.29
EAST CENTRAL	86.4	0.7	0	1.96	28.1	1.77	0	-2.83	-0.19	-2.96	-2.03	F	7.24
SOUTHEAST	88.4	0.71	0	2.01	25.1	1.84	0	-3.56	-0.02	-3.96	-2.75	F	10.06

Crop Moisture Index by Division
Weekly Value for Period Ending JUL 30, 2011
Short Term Need vs. Available Water in a Shallow Soil Profile

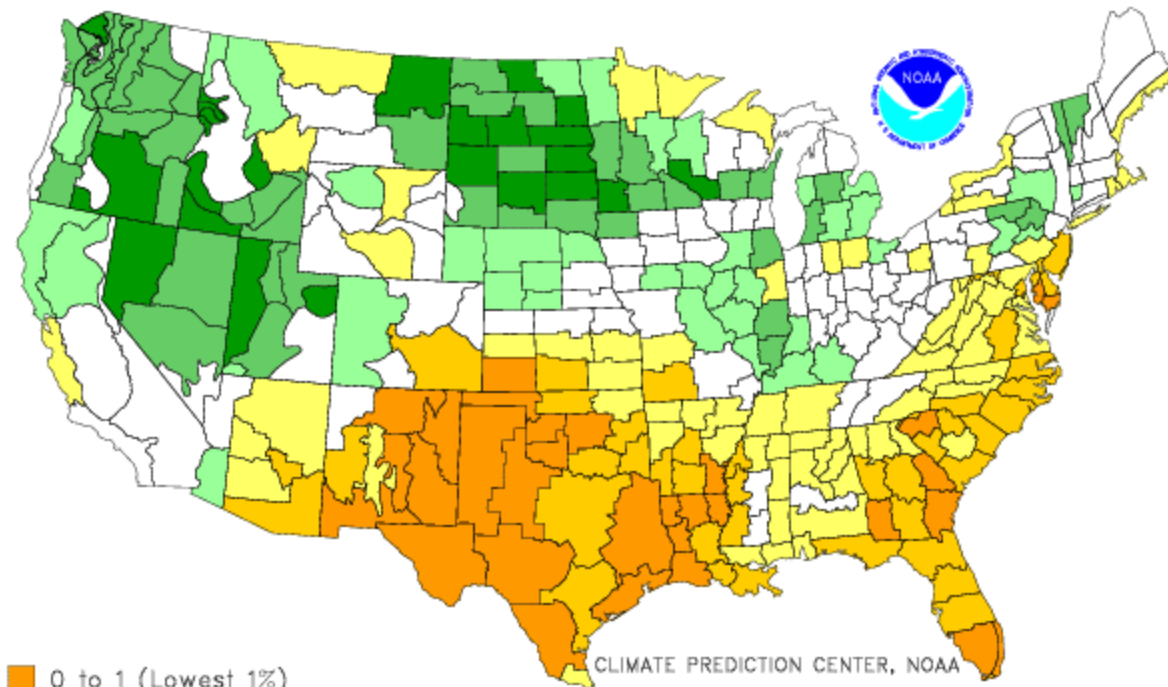


- | | |
|---|------------------------------------|
| ■ -3.0 or less (Severely Dry) | ■ +1.0 to +1.9 (Abnormally Moist) |
| ■ -2.0 to -2.9 (Excessively Dry) | ■ +2.0 to +2.9 (Wet) |
| ■ -1.0 to -1.9 (Abnormally Dry) | ■ +3.0 and above (Excessively Wet) |
| ■ -0.9 to +0.9 (Slightly Dry/Favorably Moist) | |

Palmer Drought Index Percentiles by Division

Weekly Value for Period Ending 30 JUL 2011

Records Began In 1895



0 to 1 (Lowest 1%)

2 to 10 (Lowest 10%)

11 to 30 (Lowest 30%)

31 to 69 (Middle 40%)

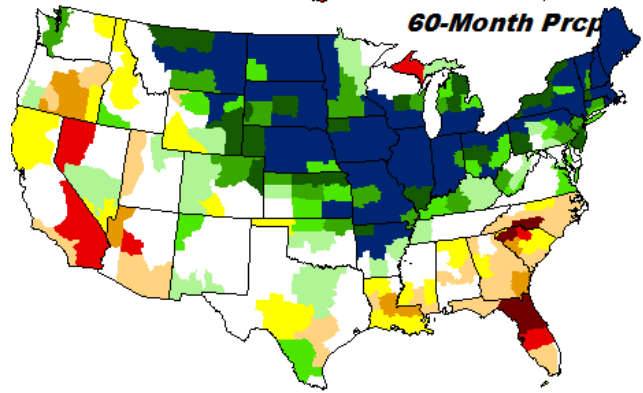
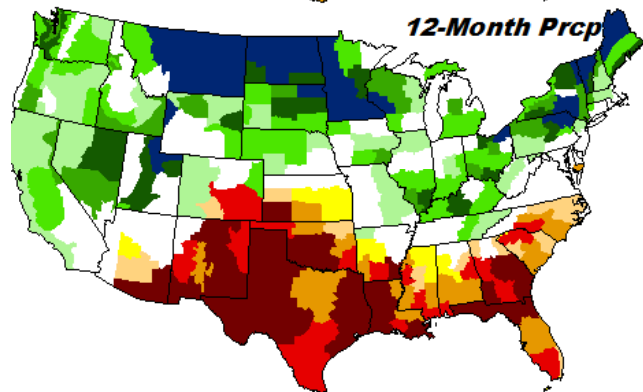
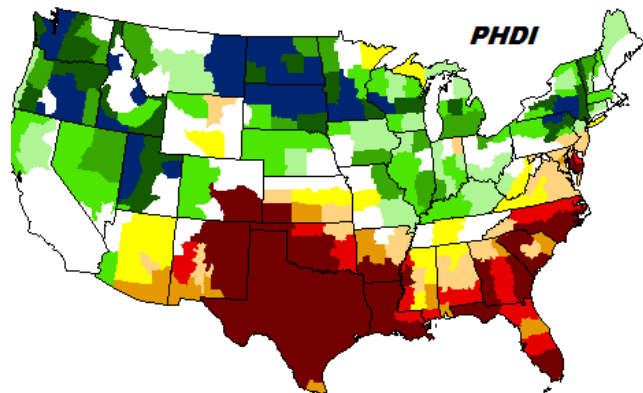
70 to 89 (Highest 30%)

90 to 98 (Highest 10%)

99 to 100 (Highest 1%)

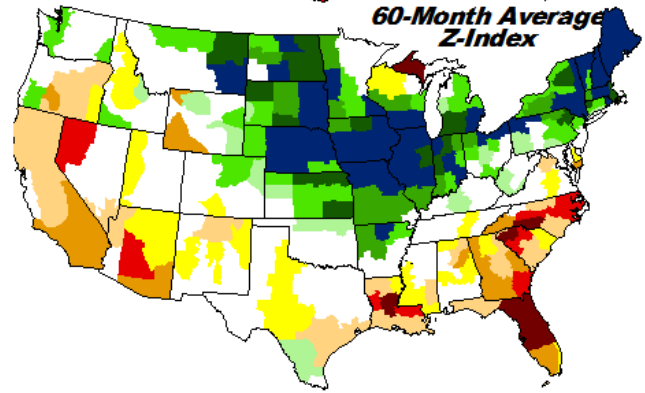
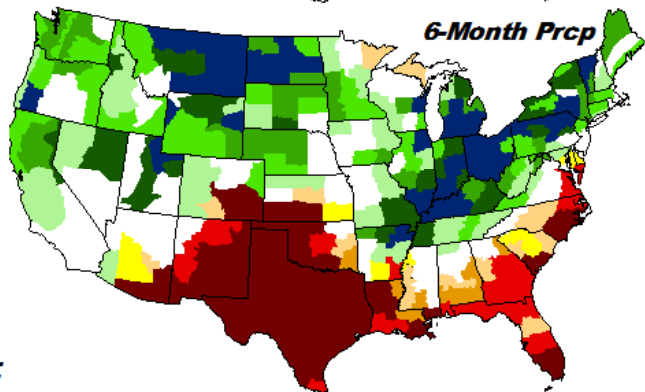
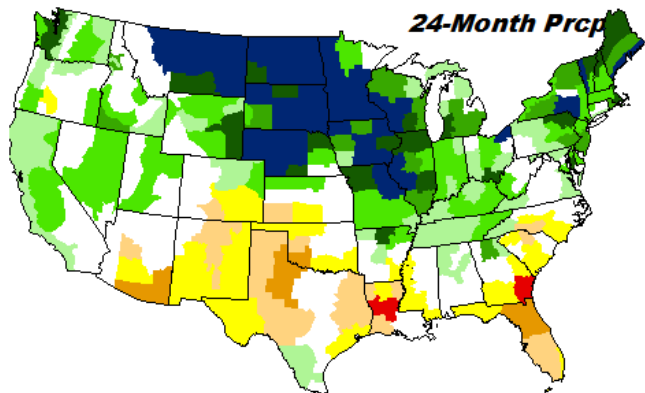
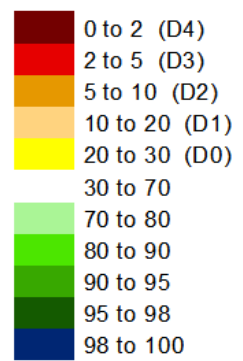
CLIMATE PREDICTION CENTER, NOAA

Objective Long-Term Drought Indicator Blend Percentiles -- July 30, 2011

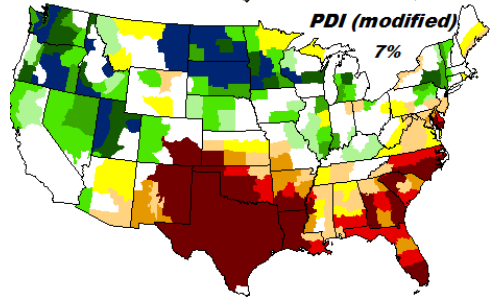
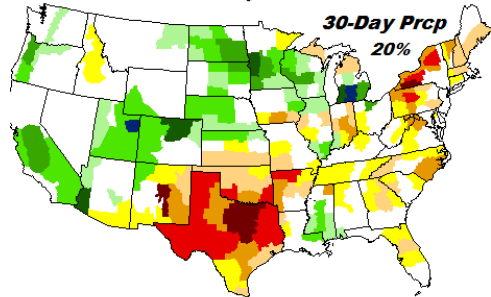
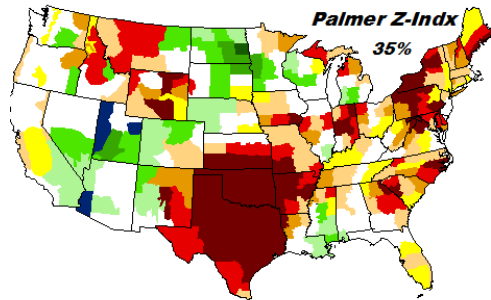


NWS / NCEP
Climate
Prediction
Center
NESDIS
National
Climatic
Data Center

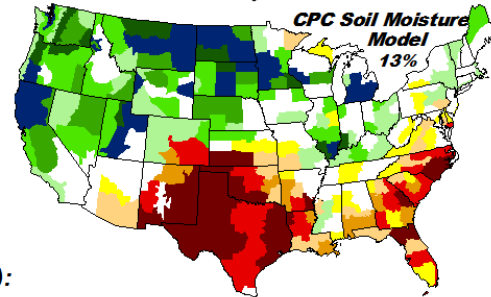
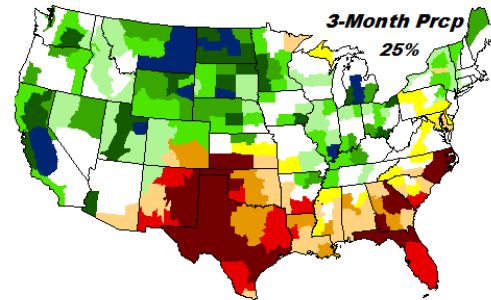
Percentile
(D0-to-D4 equivalent):



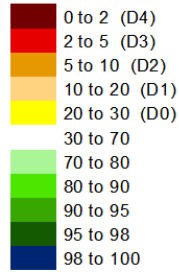
Objective Short-Term Drought Indicator Blend Percentiles -- July 30, 2011



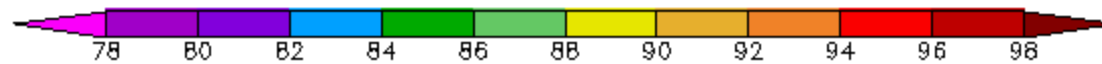
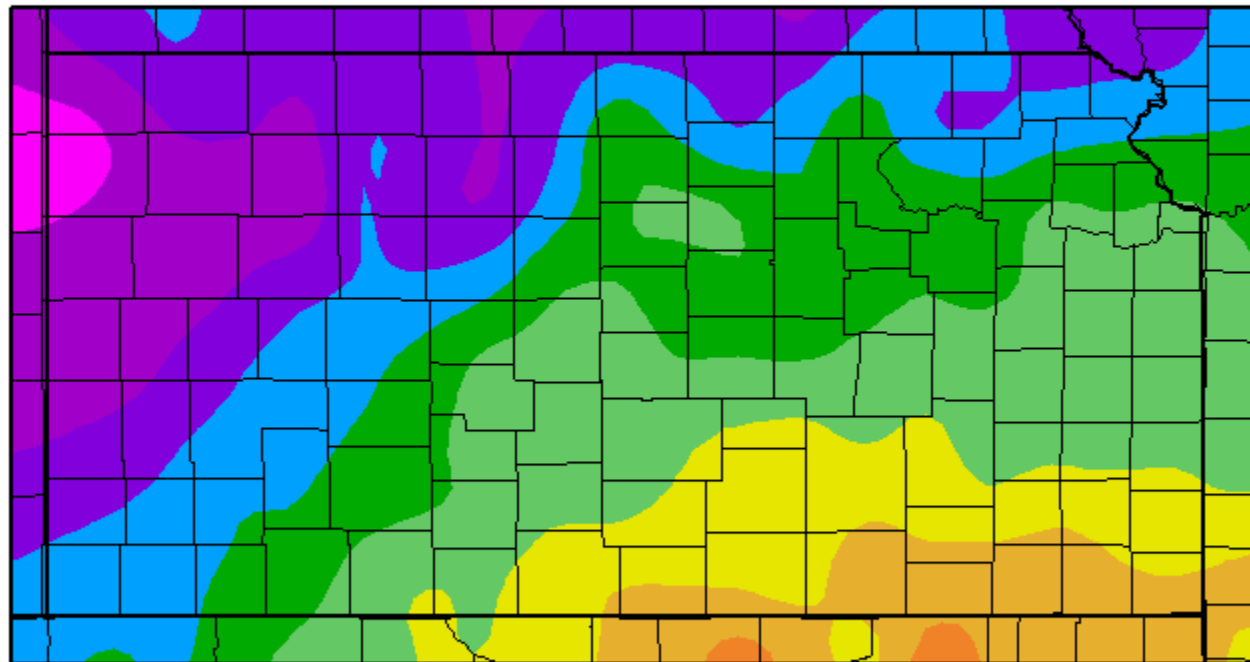
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Climate
Prediction
Center
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Data Center



**Percentile
(D0-to-D4 equivalent):**



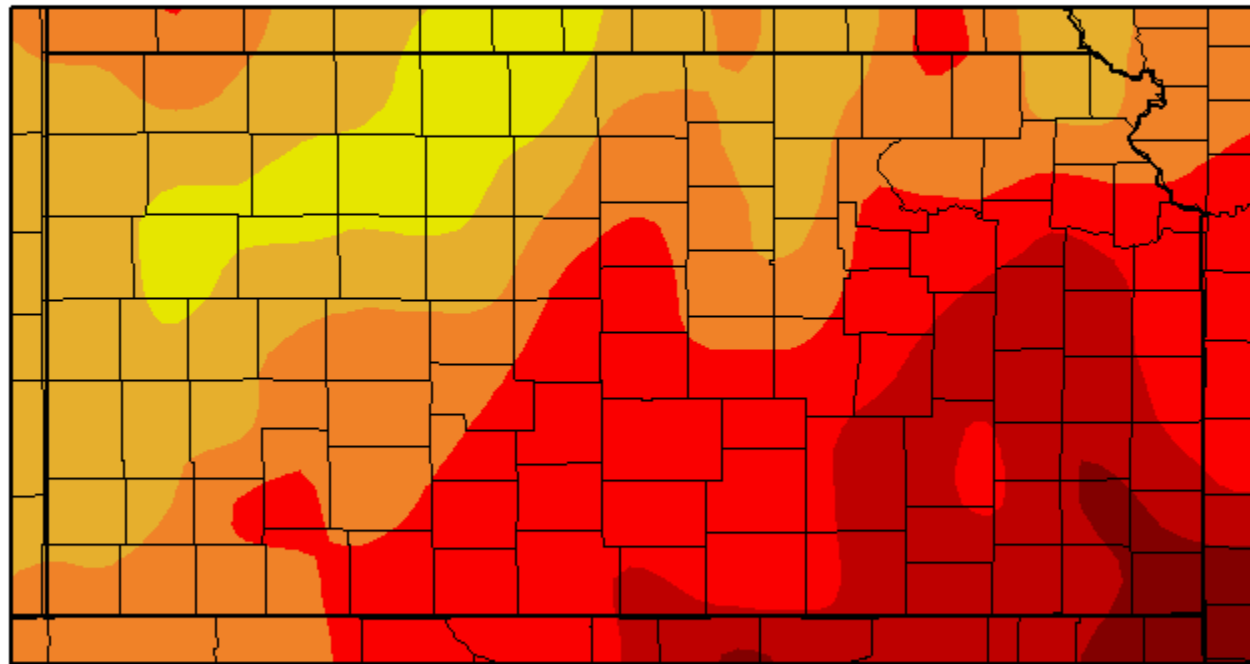
Temperature (F)
8/1/2011 - 8/7/2011



Generated 8/8/2011 at HPRCC using provisional data.

Regional Climate Centers

Departure from Normal Temperature (F)
8/1/2011 – 8/7/2011



Generated 8/8/2011 at HPRCC using provisional data.

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