

The summer doldrums were absent during August with plenty of rainfall and relatively cool weather on tap for Oklahoma. Abundant rains in the north central parts of the state propelled the month to finish as the 25th wettest since 1895. The rains and a few unusually strong fronts helped cool things down from the normal August heat – the month finished as the 21st coolest on record. With the rain came a goodly amount of severe weather, mostly flooding and high wind reports. Cloud-to-ground lightning strikes were especially prevalent with the August storms. The summer season finished a little cool and wet as well, and ranked as the 40th coolest and 48th wettest on record.

PRECIPITATION

All areas of the state were above normal save for the southwest corner. The Tipton Mesonet site in that region recorded the lowest August total with 0.42 inches. Medford in north central Oklahoma led the way with 10.77 inches. Similar but somewhat lesser amounts in that area led to the 11th wettest August on record for north central Oklahoma since 1895. Southwestern and south central Oklahoma experienced their 54th and 57th driest on record, respectively. Statewide, the average total was nearly 4 inches, a surplus of more than an inch.

August 2009 Statewide Extremes

Description	Extreme	Station	Day
High Temperature	107°F	Walters	25
Low Temperature	45°F	Nowata	31
High Precipitation	10.77 in.	Medford	...
Low Precipitation	0.42 in.	Tipton	...

TEMPERATURE

The eastern half of the state pushed the statewide average to more than a degree below normal, especially the northeastern quarter at more than four degrees below normal in some areas. That region's average temperature for the month was the 12th coolest on record. The northwest was the warmest section of the state at about a half of a degree below normal. Summer's first two months were just a tad above normal and the 49th warmest since 1895. For the January-July period, the temperature amounted to the 35th warmest on record.

AUGUST DAILY HIGHLIGHTS

AUGUST 1-6: A cold front on the month's first day kicked off a round of showers and storms in central Oklahoma, which then tracked to the southeast. High temperatures were a bit cooler than normal in the 80s and 90s. Areas in northern Oklahoma struggled to reach 80 degrees. Lows the next morning reflected the drier, cooler air after the cold front and dipped into the 50s and 60s. Temperatures warmed over the next few days back into the 90s and 100s. A few showers and storms struck on the third, then on the fifth and sixth along a stationary front. Central Oklahoma saw 1-2 inches during this six-day period with similar amounts in localized areas of southeastern and east central Oklahoma.

August 2009 Statewide Statistics

Temperature

	Average	Depart.	Rank (1895-2009)
Month (August)	78.3°F	-2.1°F	21st Coolest
Season-to-Date (Jun-Aug)	79.0°F	-0.5°F	40th Coolest
Year-to-Date (Jan-Aug)	62.2°F	0.3°F	41st Warmest

Precipitation

	Average	Depart.	Rank (1895-2009)
Month (August)	3.85 in.	1.08 in.	25th Wettest
Season-to-Date (Jun-Aug)	10.37 in.	0.6 in.	48th Wettest
Year-to-Date (Jan-Aug)	24.51 in.	-0.15 in.	49th Wettest

Depart. = departure from 30-year normal

AUGUST 7-9: Very little rain fell over these three days. A ridge of high pressure built over the state and temperatures began to rise into the triple-digits once again. This muggy period finally produced some rain in the northwest with the arrival of an upper-level storm system.

AUGUST 10-15: A cold front on the 10th kicked off a round of showers and storms that would later become severe. Strong winds of over 70 mph were scattered around northwestern Oklahoma while flooding rains fell in the northeast. The storms lasted overnight before finally ending on the 11th. The

cold front helped keep temperatures below normal with highs mainly in the 80s during this period. Rainfall amounts were highest across the northeastern half of the state with 2-3 inches common through a large area.

AUGUST 16-20: A cold front triggered very heavy rainfall during this four-day period. Medford recorded more than 8 inches of precipitation over this time. Somewhat lesser but still significant amounts from 4-7 inches were scattered throughout northwestern and north central Oklahoma. Many of the storms contained intense lightning to go along with winds of over 75 mph and large hail. Temperatures were mild north of the front where highs held in the 70s and 80s – south of the boundary highs rose into the 90s with a few 100s.

AUGUST 21-25: A dry period compared to the rest of the month, these five days were dominated by high pressure and scorching temperatures. Triple-digits were widespread and the month's highest temperature, 107 degrees, occurred at Walters on the 25th.

AUGUST 26-27: An upper-level trough approached from the west and set off a round of showers and storms overnight on the 26th. Chickasha recorded over 2 inches of rainfall in central Oklahoma. Surrounding stations received similar but lesser amounts. More storms fired along a cold front on the 27th. These storms were not the rain-producers that the previous day's storms were, but they did exhibit an impressive display of lightning. Temperatures cooled quite dramatically following the front's passage and high temperatures were mainly in the 80s and low 90s.

AUGUST 28-31: A cool and somewhat drier end to the month was in store for the remaining four days. Temperatures were mostly below average during this time with lows in the 60s and highs in the 80s. Mixed in with those numbers were some lows in the 50s and highs in the 70s. The Mesonet site at Nowata recorded a low temperature of 45 degrees on the 31st, the lowest temperature recorded in Nowata on record during August.

AUGUST 2009 SEVERE WEATHER

Hail (2 inches in diameter or greater)

Size (in.)	Location	County	Day
2.50	7 WNW Turpin	Texas	2
2.75	12 SSE Selman	Harper	19
2.00	Commerce	Ottawa	19
2.00	Seiling	Dewey	26

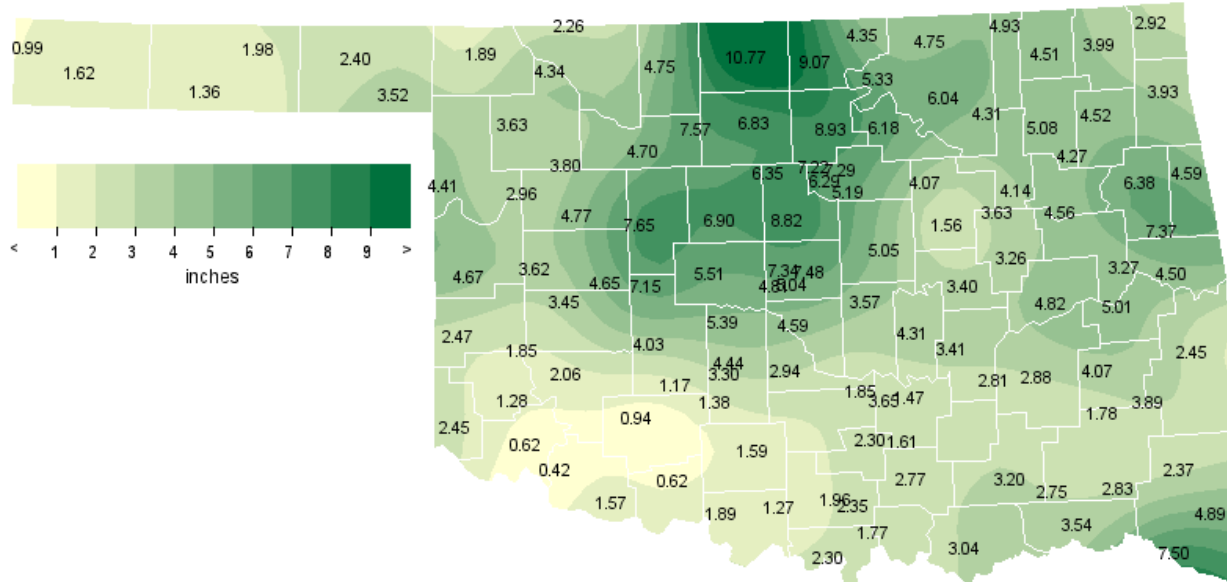
Wind Gusts (70 mph or greater)

Speed (m.p.h)	Location	County	Day
73	1 SSW Cherokee	Alfalfa	10
71	Enid	Garfield	10
74	3 SSW Freedom	Woodward	10
75	4 N Enid	Garfield	16
70	Quapaw	Ottawa	19
70	Commerce	Ottawa	19
76	4 NNW Fort Cobb	Caddo	26
72	2 SSE Chickasha	Grady	27

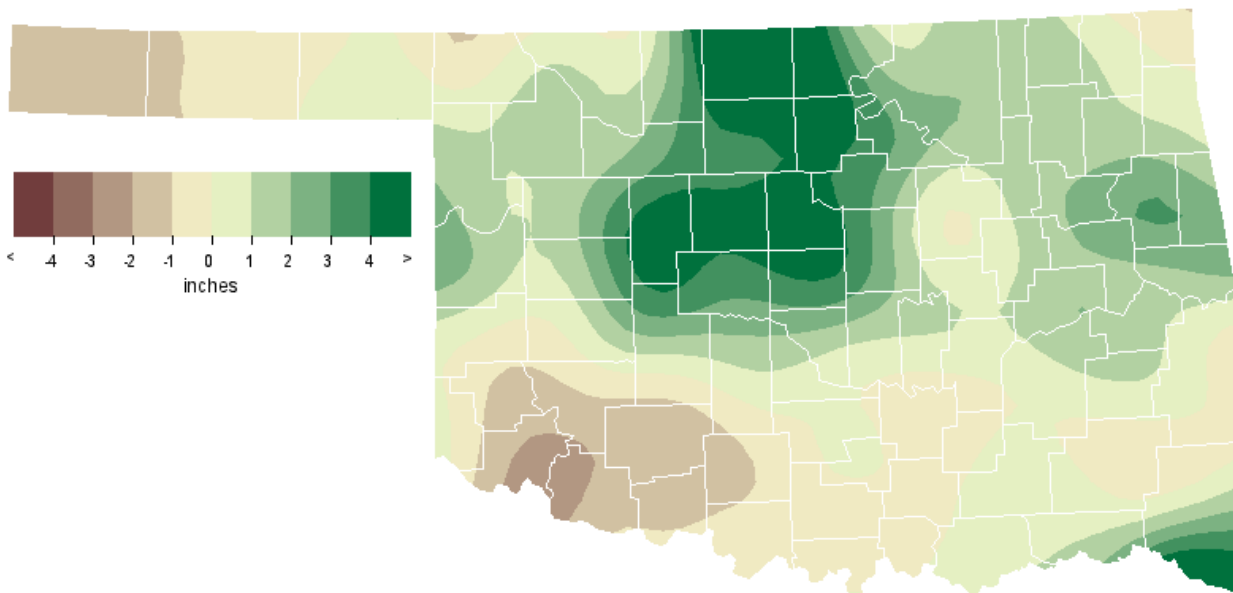
Flooding

Location	County	Day
Tulsa	Tulsa	10
Mannford	Creek	10
Carrier	Garfield	16
10 NW Enid	Garfield	17
3 SW Medford	Grant	17
Blackwell	Kay	17
1 E Geary	Canadian	17
Lequire	Haskell	20
10 ENE Canadian	Pittsburg	20
Bokoshe	LeFlore	20

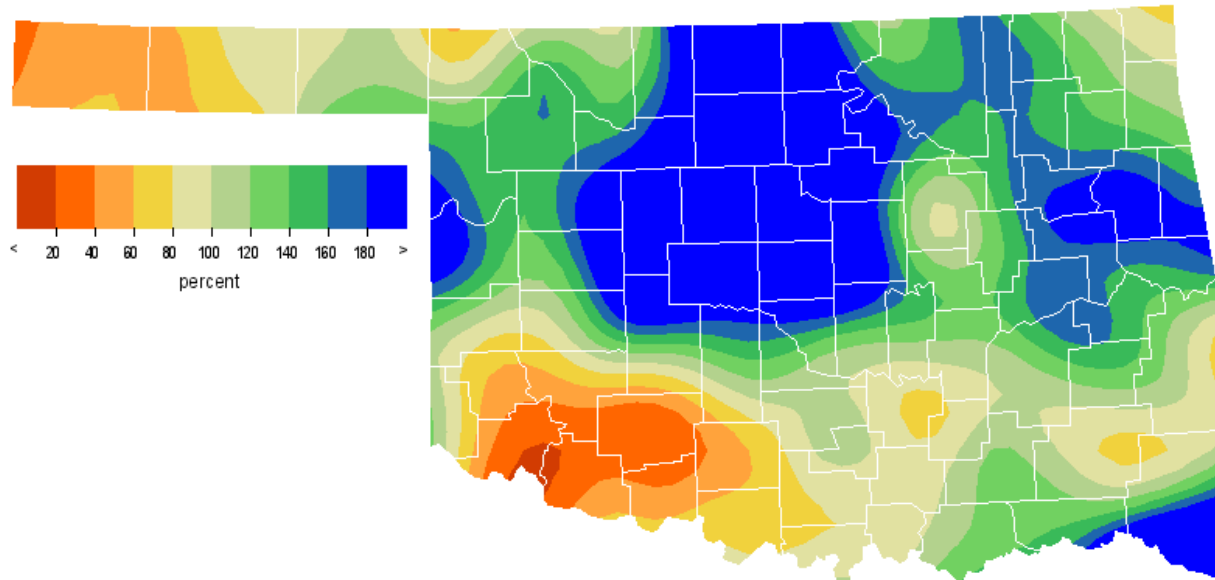
AUGUST 2009 OBSERVED PRECIPITATION



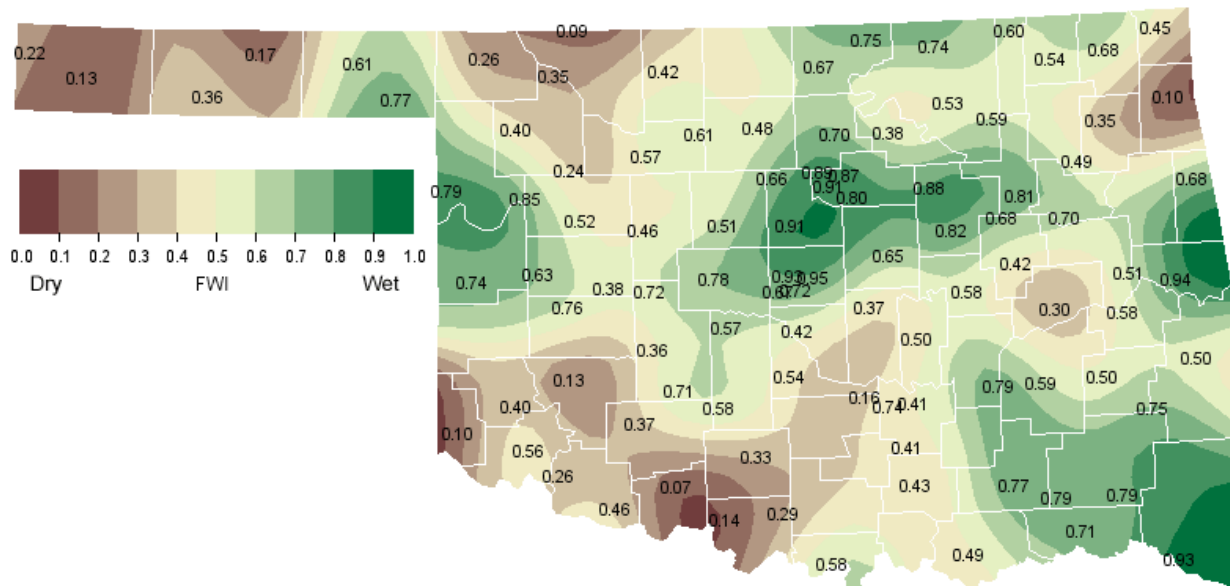
AUGUST 2009 DEPARTURE FROM NORMAL PRECIPITATION



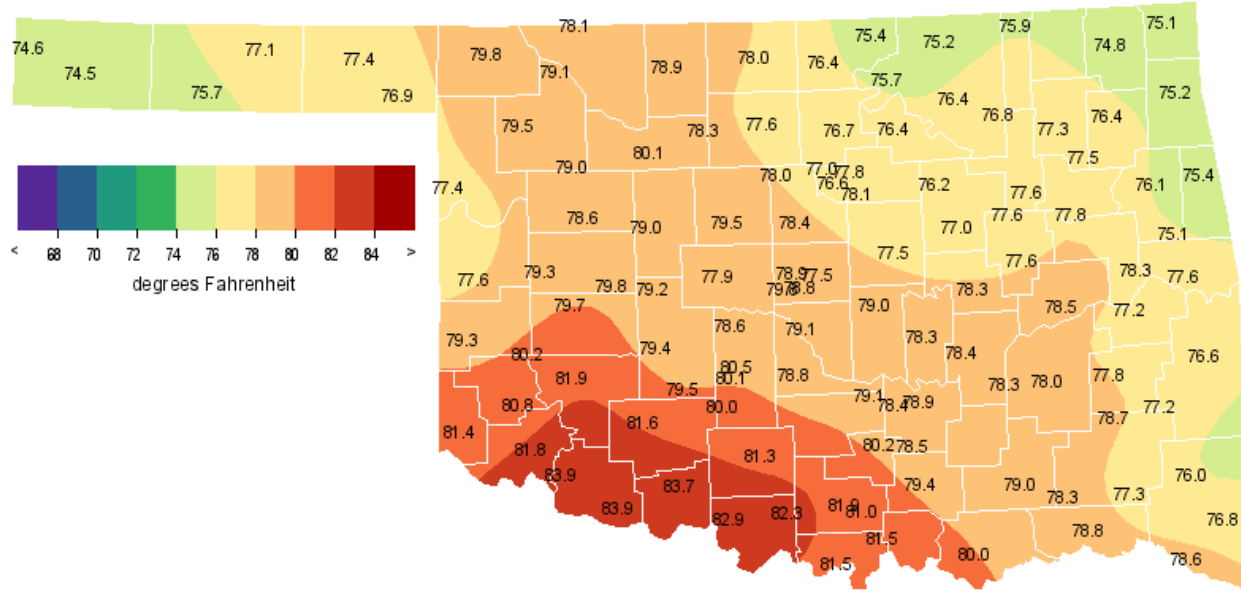
AUGUST 2009 PERCENT OF NORMAL PRECIPITATION



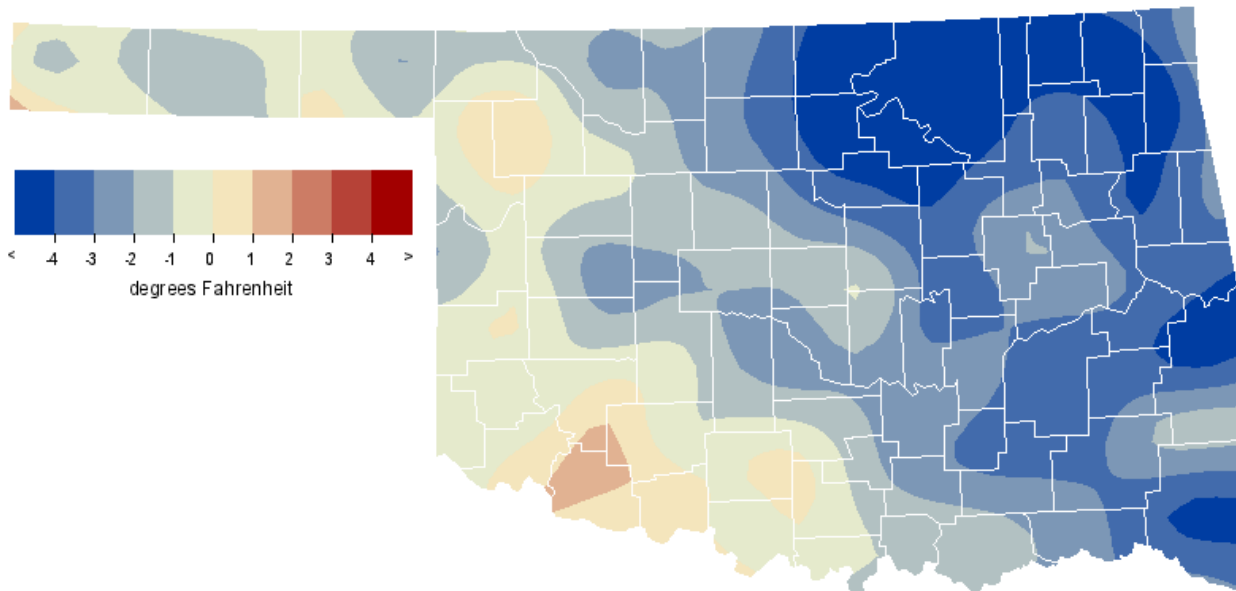
AUGUST 2009 AVERAGE SOIL MOISTURE AT 25CM



AUGUST 2009 AVERAGE TEMPERATURE



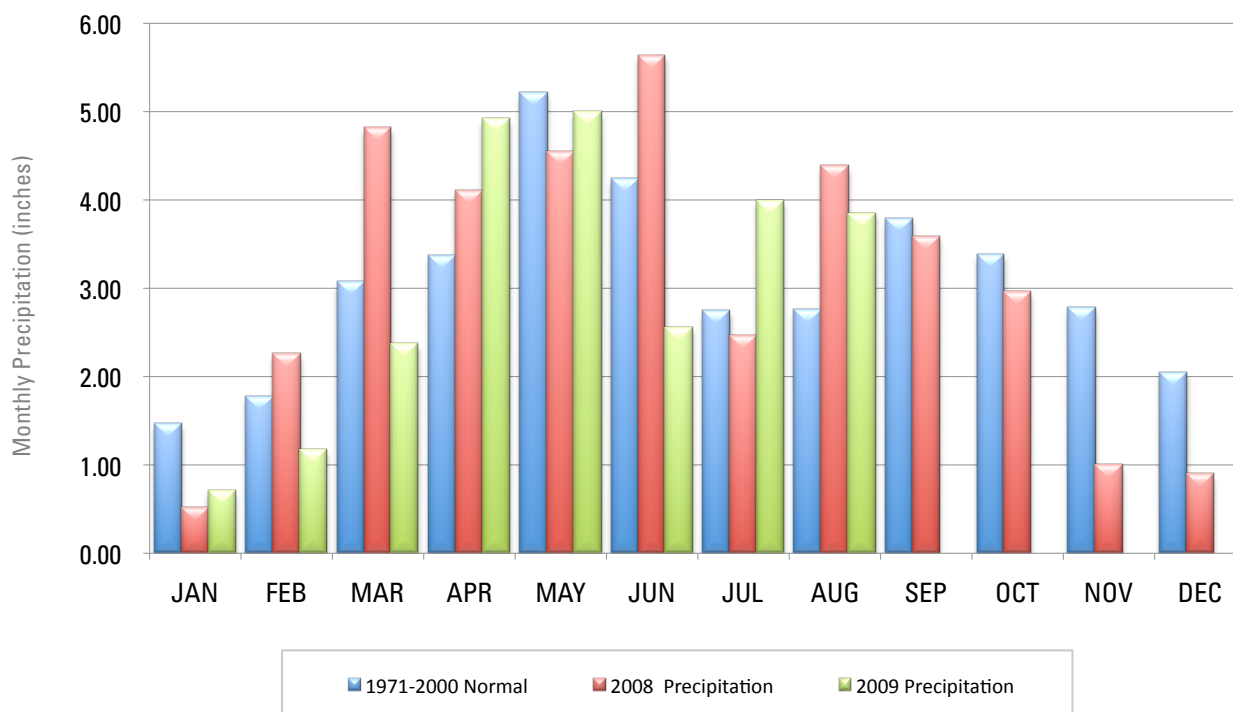
AUGUST 2009 DEPARTURE FROM NORMAL TEMPERATURE



MESONET MONTHLY SUMMARY FOR AUGUST 2009

PANHANDLE										NORTH CENTRAL											
NAME	MEAN TEMP	HIGH TEMP	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY	NAME	MEAN TEMP	HIGH TEMP	LOW TEMP	DAY	HDD	CDD	TOT PPT	HIGH 24-HR	DAY		
PANHANDLE										NORTH CENTRAL											
Arnett	77.4	99	4	56	30	0	386	4.41	2.10	18	Goodwell	75.8	100	8	54	28	0	333	1.36	.65	17
Beaver	77.4	102	8	52	28	1	386	2.40	1.77	18	Hooker	77.2	102	8	55	31	0	379	1.98	.91	31
Boise City	74.4	99	23	53	19	0	292	1.62	.93	26	Kenton	74.7	98	23	53	29	0	299	.99	.46	26
Buffalo	79.8	105	3	55	2	0	460	1.89	.85	18	Slapout	76.9	99	8	53	30	1	369	3.52	2.11	18
NORTH CENTRAL										NORTHEAST											
Alva	78.6	103	8	55	2	****	****	4.09	2.24	18	May Ranch	78.1	104	3	53	30	0	407	2.26	.63	10
Blackwell	76.4	101	4	50	31	3	358	9.07	5.37	17	Medford	78.0	102	4	53	31	1	405	10.77	5.78	17
Breckinridge	77.6	104	4	52	31	2	392	6.83	1.85	18	Newkirk	75.3	97	4	51	31	4	324	4.35	1.87	17
Cherokee	78.9	104	4	55	2	0	432	4.75	1.67	10	Red Rock	76.7	99	4	51	31	2	365	8.93	2.99	18
Fairview	80.1	105	4	56	30	0	467	4.70	1.66	18	Seiling	79.1	104	4	54	30	0	437	3.80	1.46	18
Freedom	79.2	105	3	53	30	0	439	4.34	1.90	18	Woodward	79.4	104	4	56	30	0	447	3.63	2.27	18
Lahoma	78.3	102	4	55	31	0	413	7.57	1.90	10											
NORTHEAST										WEST CENTRAL											
Bixby	77.6	100	10	51	31	2	393	4.14	1.50	10	Nowata	75.9	100	4	45	31	****	****	4.51	1.29	10
Burbank	75.7	97	3	49	31	3	335	5.33	1.94	17	Pawnee	76.3	96	4	51	31	3	355	6.18	2.84	17
Claremore	77.3	98	4	50	31	2	383	5.08	1.78	10	Porter	77.7	100	10	52	31	1	395	4.56	2.06	10
Copan	75.9	99	4	48	31	5	343	4.93	1.62	10	Pryor	76.4	99	4	48	31	3	356	4.52	2.49	10
Foraker	75.1	98	10	48	31	5	319	4.75	1.96	17	Skiatook	76.7	97	4	52	31	2	366	4.31	1.19	10
Inola	77.5	102	4	51	31	1	387	4.27	2.07	10	Vinita	74.8	97	4	46	31	8	310	3.99	1.41	18
Jay	75.2	99	4	48	31	6	321	3.93	1.38	20	Wynona	76.5	97	7	52	31	2	358	6.04	2.73	17
Miami	75.1	96	4	47	31	8	321	2.92	1.85	20											
WEST CENTRAL										CENTRAL											
Bessie	79.7	100	17	59	30	0	456	3.45	2.12	18	Ninnekah	80.2	102	25	57	31	0	471	3.30	1.21	26
Butler	79.4	101	17	59	21	0	445	3.62	2.64	18	Norman	79.1	98	4	57	31	0	437	4.59	1.33	18
Camargo	****	***	***	***	***	****	****	2.96	1.81	18	Oilton	76.3	96	10	46	31	6	355	4.07	1.33	18
Cheyenne	77.6	98	4	58	30	0	392	4.67	2.60	18	OKCE	78.8	98	4	58	31	0	427	5.04	1.16	10
Erick	79.2	100	5	57	29	0	442	2.47	1.49	18	OKCN	78.8	99	4	56	31	0	429	7.34	1.64	26
CENTRAL										EAST CENTRAL											
Acme	80.0	102	25	56	31	0	464	1.38	.55	26	Sallisaw	77.6	96	10	53	31	0	390	4.50	2.63	20
Bowlegs	78.3	99	10	52	31	0	411	4.31	2.73	10	Stigler	77.2	96	10	51	31	1	380	5.01	1.91	20
Bristow	77.0	99	10	46	31	3	375	1.56	.43	19	Stuart	78.3	94	4	55	31	0	412	2.81	2.24	11
Lake Carl Blac	77.0	98	3	50	31	3	376	7.22	2.07	10	Tahlequah	76.1	98	5	52	31	1	345	6.38	1.73	10
Chandler	77.4	96	4	53	31	1	386	5.05	1.06	20	Webbers Falls	78.3	99	10	54	31	0	411	3.27	1.52	20
Chickasha	80.5	104	25	57	31	0	482	4.44	2.42	26	Westville	75.4	97	4	52	31	2	324	4.59	1.27	5
El Reno	77.9	100	4	54	31	1	401	5.51	2.24	18											
Guthrie	78.4	99	3	56	31	0	414	8.82	1.91	11	EAST CENTRAL										
Kingfisher	79.6	104	4	57	31	0	452	6.90	1.89	18	Cookson	75.2	95	4	52	31	1	316	7.37	2.71	20
Marena	76.7	97	4	51	31	2	364	6.29	1.49	10	Eufaula	78.5	98	4	53	31	0	419	4.82	1.98	20
Mingo	78.7	100	25	57	31	0	424	5.39	1.70	3	Haskell	77.5	101	4	52	31	****	****	.86	.55	20
Marshall	78.0	101	4	53	31	1	404	6.35	1.26	18	Hectorville	77.6	98	10	54	31	0	391	3.63	2.15	10
EAST CENTRAL										SOUTHWEST											
Cookson	75.2	95	4	52	31	1	316	7.37	2.71	20	Altus	81.8	102	5	61	21	0	520	.62	.30	6
Eufaula	78.5	98	4	53	31	0	419	4.82	1.98	20	Apache	79.6	100	25	58	31	0	451	1.17	.56	19
Haskell	77.5	101	4	52	31	****	****	.86	.55	20	Fort Cobb	79.4	101	5	59	31	0	446	4.03	1.88	26
Hectorville	77.6	98	10	54	31	0	391	3.63	2.15	10	Grandfield	83.9	104	5	60	31	0	586	1.57	1.19	1
Holdenville	78.3	97	4	51	31	0	413	3.41	1.46	10	Hinton	79.2	100	4	58	31	0	439	7.15	3.11	18
McAlester	78.0	94	4	53	31	0	403	2.88	1.12	5	Hobart	81.9	103	5	61	30	0	525	2.06	.76	26
Okmulgee	77.6	100	4	50	31	1	392	3.26	2.26	10											
SOUTHWEST										SOUTH CENTRAL											
Altus	81.8	102	5	61	21	0	520	.62	.30	6	Madill	81.5	101	5	59	29	0	512	1.77	.38	18
Apache	79.6	100	25	58	31	0	451	1.17	.56	19	Newport	81.8	104	25	60	31	0	522	1.96	.83	5
Fort Cobb	79.4	101	5	59	31	0	446	4.03	1.88	26	Pauls Valley	****	***	***	***	***	****	****	****	****	****
Grandfield	83.9	104	5	60	31	0	586	1.57	1.19	1	Ringling	82.2	104	25	58	31	0	534	1.27	.61	5
Hinton	79.2	100	4	58	31	0	439	7.15	3.11	18	Sulphur	80.2	102	25	56	31	0	471	2.30	1.17	27
Hobart	81.9	103	5	61	30	0	525	2.06	.76	26	Tishomingo	79.4	98	4	58	31	0	445	2.77	1.27	5
SOUTH CENTRAL										SOUTHEAST											
Ada	78.8	97	4	52	31	0	429	1.47	.68	11	Antlers	78.3	94	17	54	31	0	413	2.75	1.21	11
Ardmore	81.0	101	25	58	31	0	495	2.35	1.01	27	Broken Bow	76.8	92	4	57	23	0	364	4.89	2.03	11
Burneyville	81.5	104	25	56	31	0	512	2.30	1.39	27	Clayton	78.6	95	4	54	31	0	423	1.78	.88	11
Byars	79.0	99	25	52	31	0	435	1.85	.59	27	Cloudy	77.3	91	4	58	31	0	381	2.83	1.72	11
Centrahoma	****	***	***	***	***	****	****	****	****	****	Hugo	78.8	93	3	61	31	0	427	3.54	1.74	1
Durant	80.0	96	25	58	31	0	464	3.04	.96	5											
Fittstown	78.5	97	25	56	31	0	419	1.61	.67	11	SOUTHEAST										
Ketchum Ranch	81.2	104	25	57	31	0	502	1.59	.89	26	Idabel	78.6	93	3	61	31	0	422	7.50	2.84	20
Lane	78.9	94	3	57	31	0	430	3.20	1.02	11	Mt Herman	76.1	90	4	56	31	0	343	2.37	.58	1
SOUTHEAST										WILBURTON											
Antlers	78.3	94	17	54	31	0	413	2.75	1.21	11	Talihina	77.2	94	17	54	31	0	378	3.89	1.65	20
Broken Bow	76.8	92	4	57	23	0	364	4.89	2.03	11	Wilburton	77.7	95	4	52	31	0	395	4.07	1.33	20
Clayton	78.6	95	4	54	31	0	423	1.78	.88	11	Wister	76.7	95	4	52	31	0	362	2.45	1.31	20
Cloudy	77.3	91	4	58	31	0	381	2.83	1.72	11											
Hugo	78.8	93	3	61	31	0	427	3.54	1.74	1											

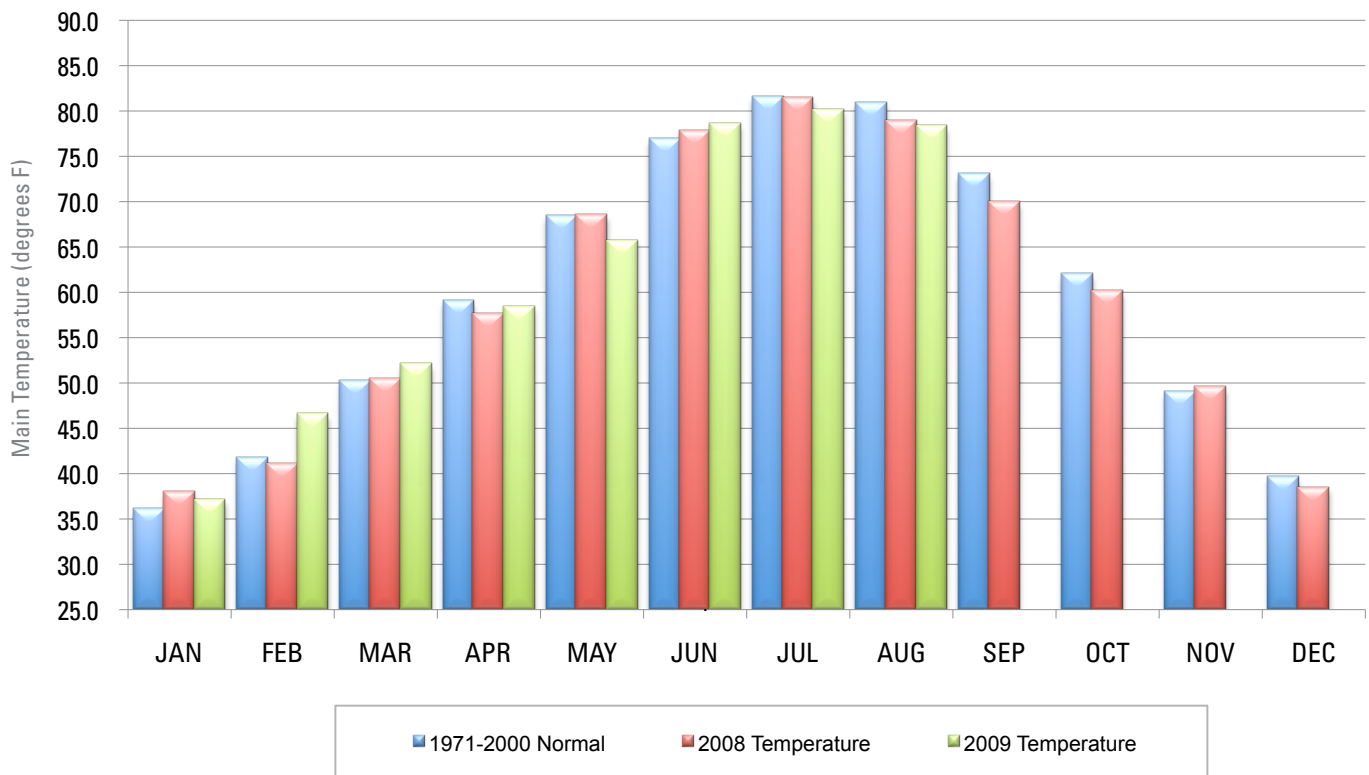
2008 AND 2009 STATEWIDE PRECIPITATION MONTHLY TOTALS VS. NORMAL



August 2009 Mesonet Precipitation Comparison

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Aug-08
Panhandle	2.27	-0.24	55th Driest	5.68 (1977)	0.47 (1913)	5.17
North Central	5.92	2.87	11th Wettest	7.69 (1974)	0.09 (1913)	1.53
Northeast	4.63	1.45	26th Wettest	8.03 (1964)	0.02 (2000)	4.81
West Central	4.01	1.29	23rd Wettest	7.25 (2005)	0.05 (1913)	3.49
Central	5.09	2.46	13th Wettest	7.21 (1906)	0.03 (2000)	4.50
East Central	4.33	1.46	28th Wettest	6.89 (1915)	0.00 (2000)	6.63
Southwest	2.03	-0.66	54th Driest	8.01 (1996)	0.00 (1913)	6.40
South Central	2.20	-0.34	57th Driest	8.46 (1915)	0.01 (2000)	4.68
Southeast	3.61	0.90	43rd Wettest	8.73 (1915)	0.19 (1943)	5.29
Statewide	3.85	1.08	25th Wettest	6.54 (1906)	0.14 (2000)	4.68

2008 AND 2009 STATEWIDE TEMPERATURE MONTHLY TOTALS VS. NORMAL



August 2009 Mesonet Temperature Comparison

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Aug-08 (F)
Panhandle	76.7	-1.1	33rd Coolest	83.1 (1983)	71.3 (1915)	76.4
North Central	78.1	-2.6	20th Coolest	88.9 (1936)	72.3 (1915)	78.6
Northeast	76.3	-3.5	10th Coolest	88.4 (1936)	71.7 (1915)	78.3
West Central	79.2	-1.0	35th Coolest	87.4 (1936)	72.9 (1915)	78.7
Central	78.4	-2.6	21st Coolest	88.3 (1936)	73.1 (1915)	79.1
East Central	77.3	-3.1	17th Coolest	88.0 (1936)	73.0 (1915)	79.2
Southwest	81.6	-0.2	51st Coolest	88.1 (1952)	75.4 (1915)	80.4
South Central	80.4	-1.4	34th Coolest	87.6 (1934)	75.5 (1915)	80.2
Southeast	77.6	-2.7	17th Coolest	87.3 (1943)	74.5 (1915)	78.0
Statewide	78.3	-2.1	21st Coolest	87.2 (1936)	73.2 (1915)	78.8

RECORD EVENT REPORTS

Description	Day	Location	Record	Previous Record	Year
Low Temperature	2	Bartlesville	51	57	1971
Daily Rainfall	11	Oklahoma City	1.45	1.18	1977
Low Temperature (tied)	31	McAlester	55	55	1967
Low Temperature	31	Bartlesville	47	48	1915

MESONET EXTREMES FOR AUGUST 2009

Climate Division	High Temp (F)			Low Temp (F)			High Monthly Rainfall (inches)		High Daily Rainfall (inches)		
	Day	Station	Day	Station	Day	Station	Station	Day	Station		
Panhandle	105	3rd	Buffalo	52	28th	Beaver	4.41	Arnett	2.11	18th	Slapout
North Central	105	4th	Fairview	50	31st	Blackwell	10.77	Medford	5.78	17th	Medford
Northeast	102	4th	Inola	46	31st	Vinita	6.18	Pawnee	2.84	17th	Pawnee
West Central	103	4th	Watonga	56	30th	Watonga	7.65	Watonga	3.33	18th	Putnam
Central	104	4th	Kingfisher	46	31st	Bristow	8.82	Guthrie	2.73	10th	Bowlegs
East Central	100	4th	Okmulgee	50	31st	Okmulgee	7.37	Cookson	2.71	20th	Cookson
Southwest	107	25th	Walters	55	29th	Mangum	7.15	Hinton	3.11	18th	Hinton
South Central	106	25th	Waurika	52	31st	Byars	3.65	Vanoss	1.39	27th	Burneyville
Southeast	95	4th	Wister	52	31st	Wilburton	7.50	Idabel	2.84	20th	Idabel
Statewide	107	25th	Walters	46	31st	Vinita	10.77	Medford	5.78	17th	Medford

SEPTEMBER OUTLOOK

Summer's heat fades as precipitation increases across most of Oklahoma during September. The statewide-averaged normal temperature for the month, 73.0 degrees, makes September the 4th warmest month of the year. As such, climatologists consider it to be the first month of the autumn transitional season. Monthly precipitation decreases in extreme northwestern portions of the state, even as the rest of the state enjoys a second rainy season. Normal monthly precipitation, averaged statewide, is 3.80 inches, an increase of more than one inch over either of the two previous months. An increasing frequency of fronts, bringing cooler air from the northern plains, leads to the lower temperatures, an effect that often isn't apparent before the middle of the month.

Temperature

Mean	73.0 degrees
Hottest September	1931, 79.8 degrees
Coollest September	1974, 64.7 degrees
Hottest location	Waurika, 76.8 degrees
Coollest location	Boise City, 68.0 degrees
Hottest recorded	115 degrees, Alva, September 3, 1939 and 1947
Cooldest recorded	25 degrees, Boise City, September 30, 1985

Freezes are uncommon in September, but stations in the extreme northwest experience a freeze before the end of September in about 10 percent of years. The earliest reported freeze is September 15, in 1993 at Freedom (28 degrees), Gage (30 degrees), and Hammon (30 degrees), and in 1947 at Kenton (31 degrees). Hot weather is most evident in the southwest. Chattanooga averages 16 days in September with a high temperature of 90 degrees or more, including four days in which the temperature reaches 100 degrees or more. Conversely, Kansas and Stilwell each average only six September days with the high temperature in the 90s. Triple digit temperatures occur only about once every third year at Miami, Kenton, and Boise City.

Statewide-averaged precipitation has varied between 0.27 inch in 1956 and 7.86 inches in 1945. Wyandotte recorded 16.82 inches in September 1945 to hold the monthly state record. The record daily precipitation at a regular reporting

station is the 10.42 inches reported at Barnsdall on September 29, 1986. Snow is rare in September, But Boise City reported 4 inches for the month in 1984 and Kenton recorded 3 inches on September 17, 1971, the earliest snowfall in the state since at least 1910.

Tornadoes are slightly more frequent in September, averaging 2.1 each year, than they are during the previous two months. The most tornadoes reported in the state during September is 16 in 1992. No tornadoes were reported in the state during September in 18 of 52 years from 1950 through 2001 (the period of comprehensive records). Two people killed in Pottawattomie County on September 14, 1957 are the only tornado-related deaths recorded in September during that period.

Floods present a more common weather hazard than tornadoes in September. Residual moisture from tropical disturbances, usually from the Gulf of Mexico but occasionally from the Pacific Ocean, interacts with slow moving frontal systems in the state from time-to-time during the autumn months. Widespread heavy downpours are the typical result, frequently leading to flooding on larger rivers and streams. On other occasions, a frontal system will stall within the state and successive thunderstorms will form along the frontal boundary and follow each other along a narrow path, thereby producing intense rain over a limited area and causing dangerous flash flooding.

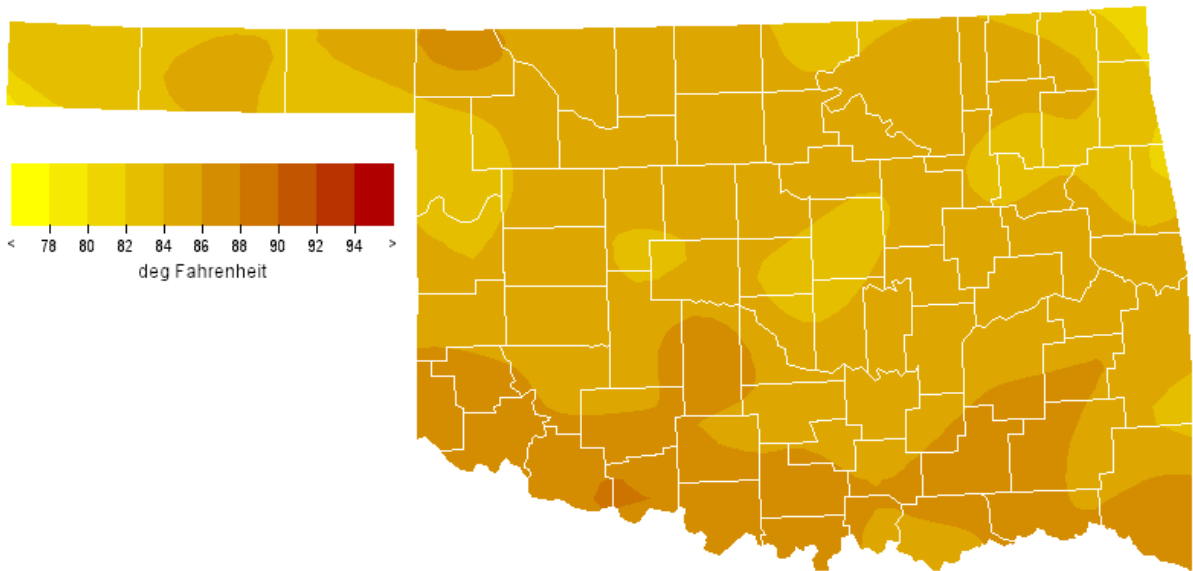
Precipitation

Mean	3.80 inches
Wettest September	1945, 7.86 inches
Driest September	1956, 0.27 inches
Wettest location	Kansas, 5.56 inches
Driest location	Regnier, 1.44 inches
Most recorded	16.82 inches, Wyandotte, 1945

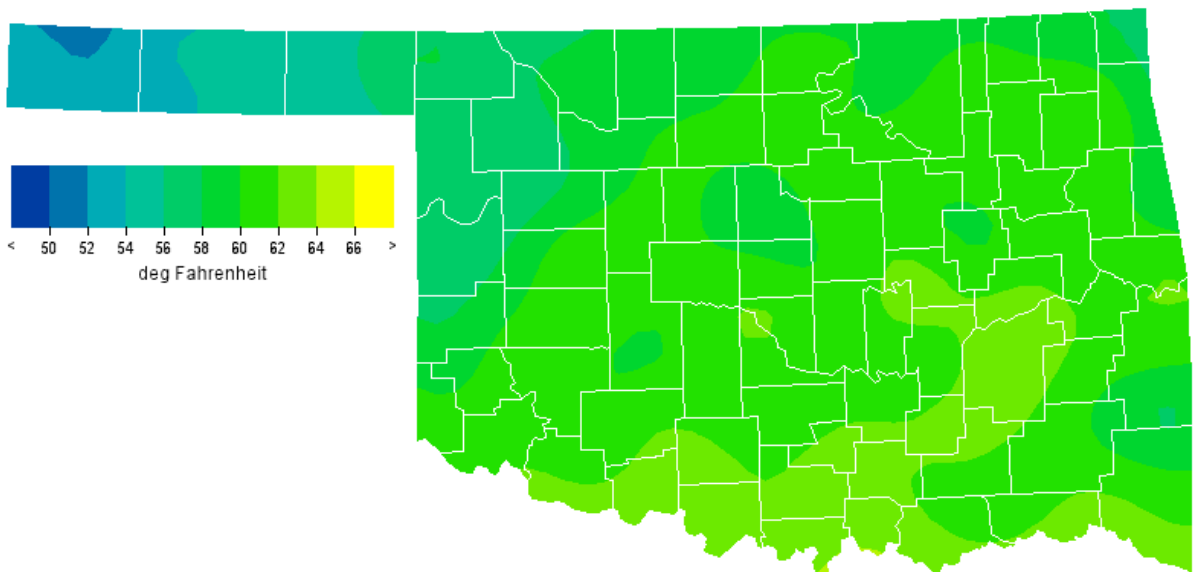
Tornadoes

Average September Tornadoes	2.1
Most	16 (1992)

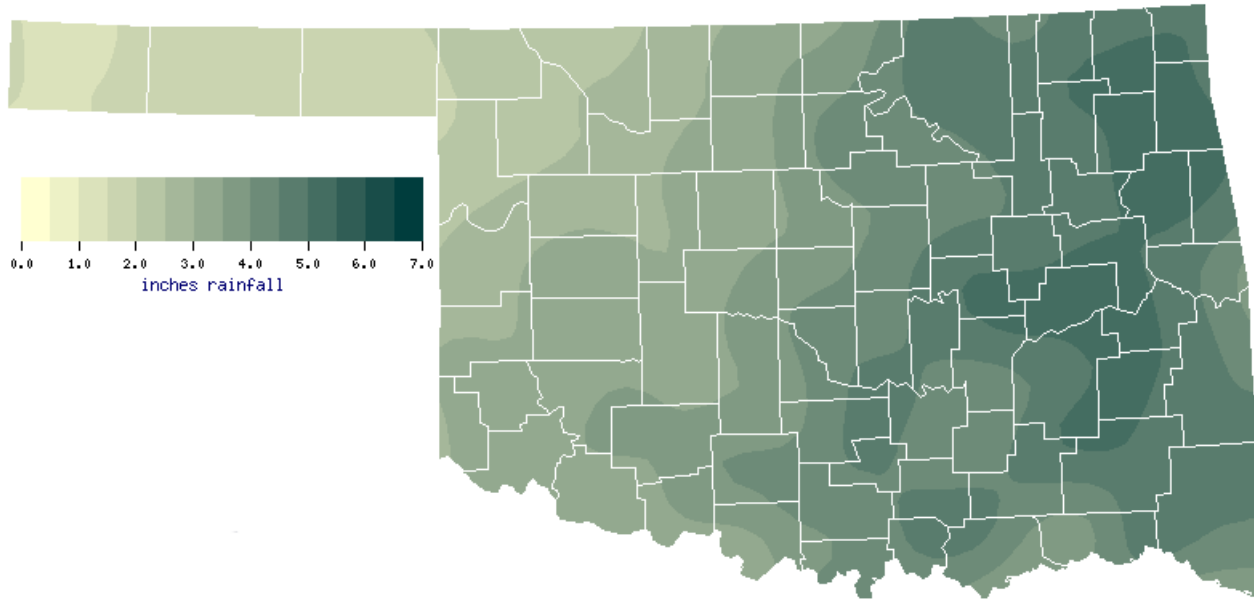
SEPTEMBER NORMAL DAILY MAXIMUM TEMPERATURE (1971-2000)



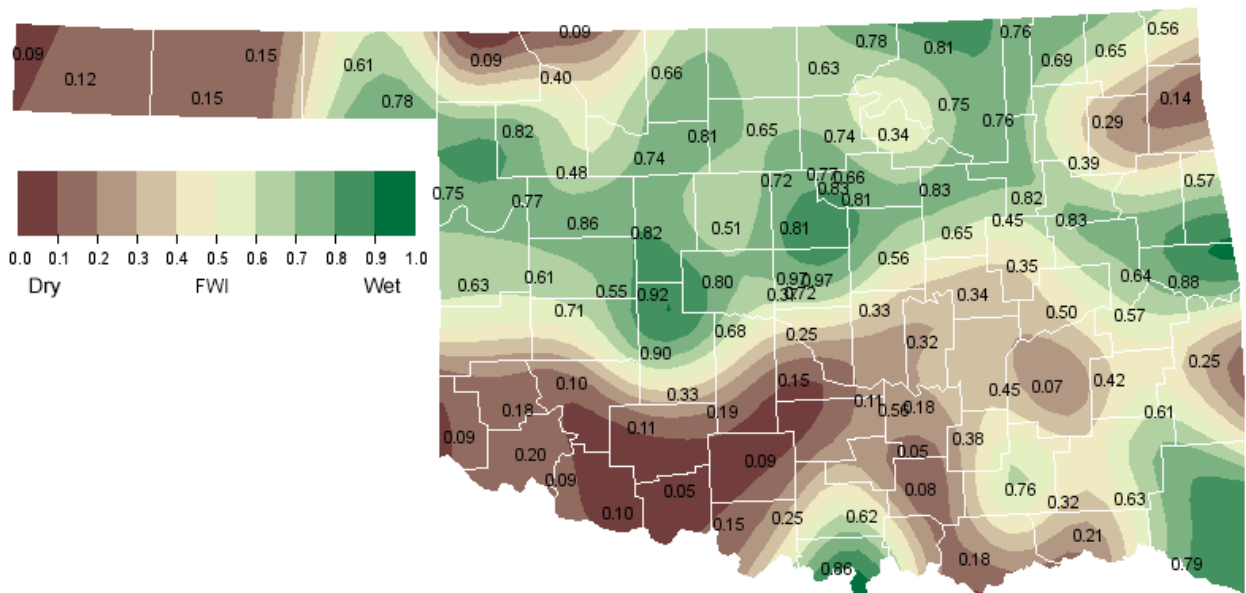
SEPTEMBER NORMAL DAILY MINIMUM TEMPERATURE (1971-2000)



SEPTEMBER NORMAL PRECIPITATION (1971-2000)



SEPTEMBER 1, 2009 SOIL MOISTURE CONDITIONS AT 25CM



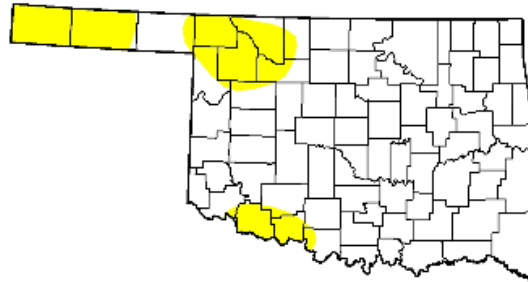
SEPTEMBER 2009 DROUGHT INDICES

U.S. Drought Monitor Oklahoma

September 1, 2009
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	84.5	15.5	0.0	0.0	0.0	0.0
Last Week (08/25/2009 map)	85.2	14.8	2.8	0.0	0.0	0.0
3 Months Ago (06/09/2009 map)	54.3	45.7	8.1	0.0	0.0	0.0
Start of Calendar Year (01/06/2009 map)	41.6	58.4	12.0	3.4	0.0	0.0
Start of Water Year (10/07/2008 map)	84.4	15.6	5.0	3.5	0.0	0.0
One Year Ago (09/02/2008 map)	72.0	28.0	5.8	3.5	0.0	0.0



Intensity:

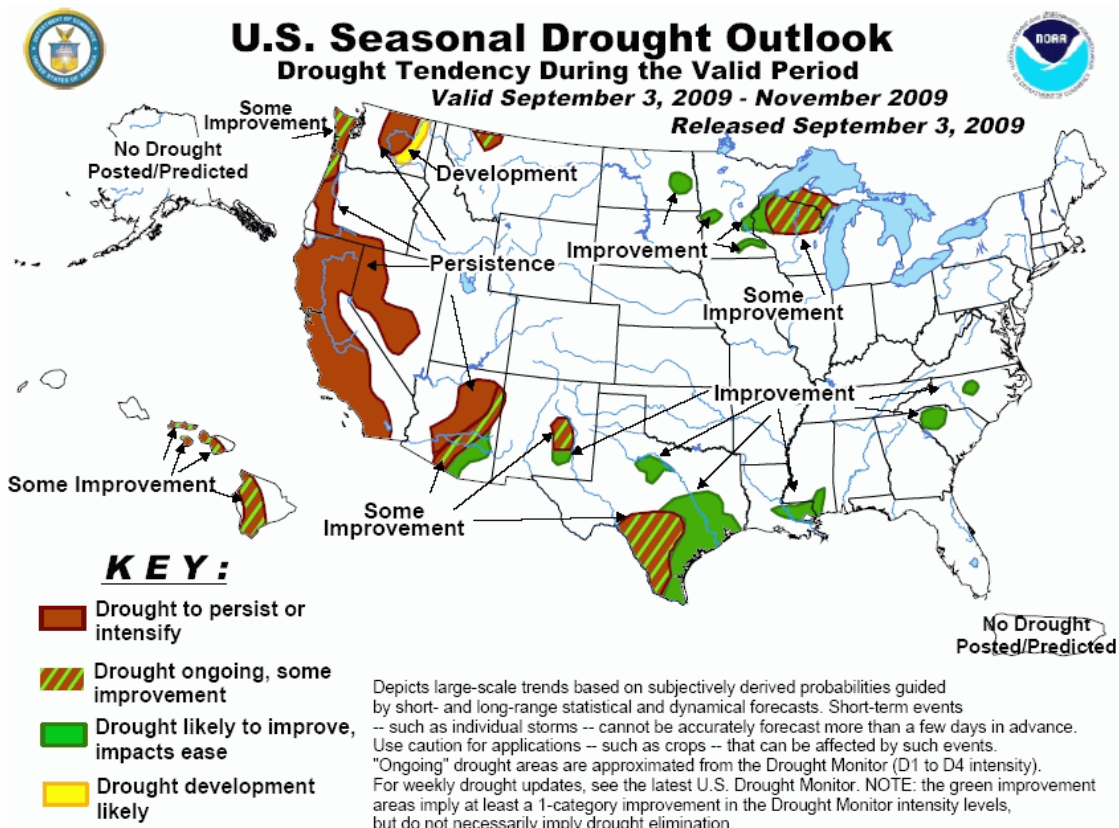
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

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

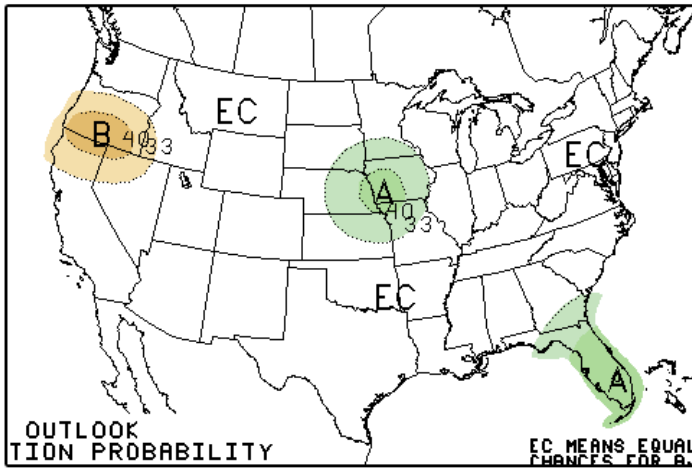
<http://drought.unl.edu/dm>



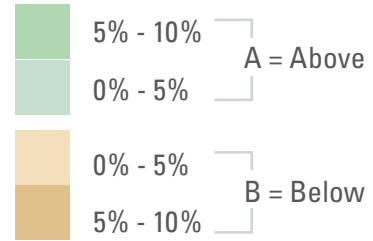
Released Thursday, September 3, 2009
Author: Brad Rippey, U.S. Department of Agriculture



SEPTEMBER 2009 U.S. PRECIPITATION FORECAST

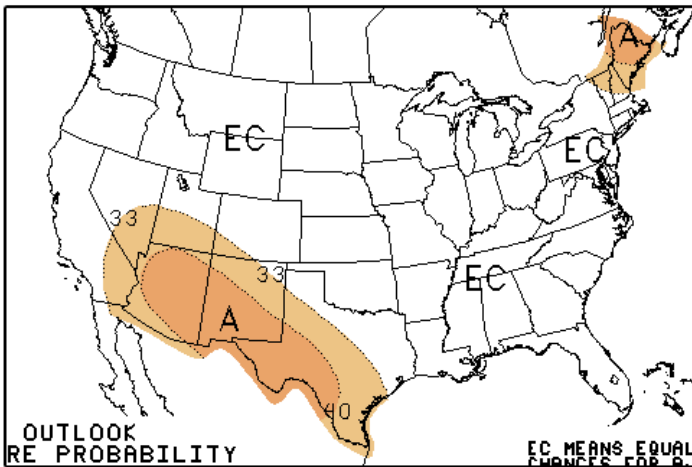


Percent Likelihood of Above or Below Average Precipitation*

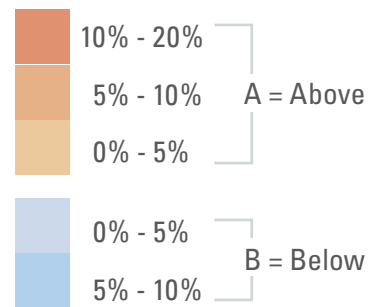


*EC indicates no forecasted anomalies due to lack of model skill.

SEPTEMBER 2009 U.S. TEMPERATURE FORECAST



Percent Likelihood of Above or Below Average Temperatures*

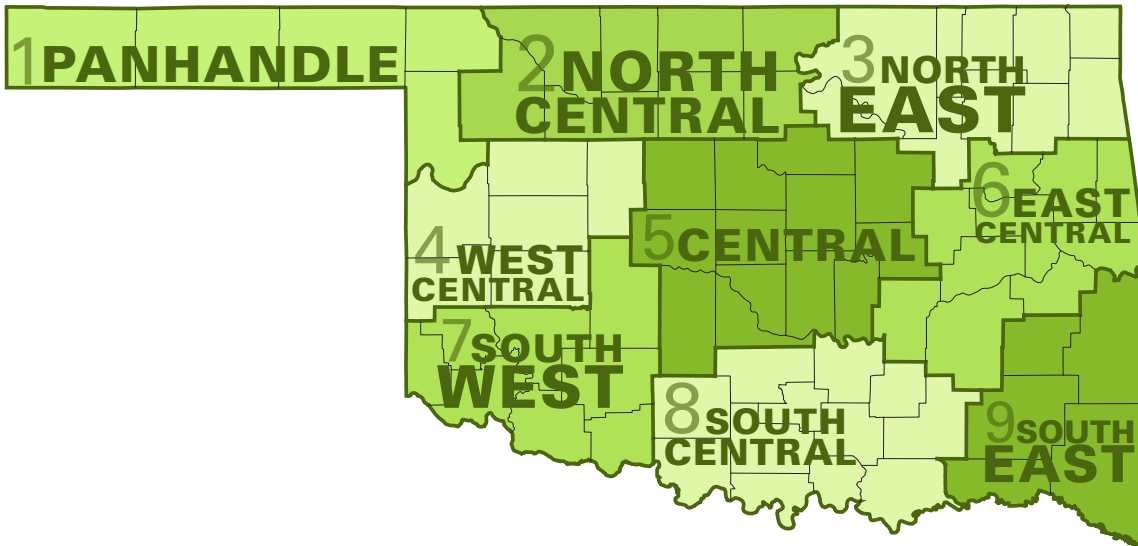


*EC indicates no forecasted anomalies due to lack of model skill.

SEPTEMBER CLIMATE NORMALS

Climate Division	Max. Temperature (°F)	Min. Temperature (°F)	Avg. Temperature (°F)	Precipitation (inches)
1	84.5	55.6	70.1	1.86
2	84.8	59.2	72.0	3.13
3	84.1	60.5	72.3	4.83
4	84.7	59.5	72.1	2.95
5	84.8	61.0	72.9	4.03
6	84.5	61.3	72.9	4.88
7	86.4	61.0	73.7	3.34
8	86.2	62.3	74.3	4.27
9	85.9	60.9	73.4	4.52
Statewide	85.1	60.3	72.7	3.9

Oklahoma Climate Divisions



INTERPRETATION INFORMATION

MEAN DAILY TEMPERATURE: Calculated from an average of the daily maximum and minimum temperatures. Daily averages are summed for each day, and then divided by the number of valid data points – typically the number of days in the month. Although this may differ from the “true” daily average, it is consistent with historical methods of observation and comparable to the normals and extremes for stations and regions of the state.

DEGREE DAYS: Degree Days are calculated each day of the month for which there is a temperature report and the mean temperature for the day is less than (Heating Degree Days) or greater than (Cooling Degree Days) 65 degrees. Daily values are summed to arrive at a monthly total. HDD/CDD are qualitative measures of how much heating/cooling was required to maintain a comfortable indoor temperature. Missing observations may result in an artificially high or low value.

SEVERE WEATHER REPORTS: Only the most significant events are listed. Tornadoes of F2 or greater strength (on the 0-5 Fujita scale), hail of two inches diameter or greater, and wind speeds of 70 miles per hour or above are listed. National Weather Service defines storms as severe when they produce a tornado, hail of three-quarters inch or greater, or wind speeds above 57 miles per hour (50 knots). For additional reports, contact the Oklahoma Climatological Survey, Storm Prediction Center, or your local National Weather Service forecast office.

SOIL MOISTURE: The soil moisture variable displayed is the Fractional Water Index (FWI), measured at a depth of 25 cm. This unitless value ranges from very dry soil having a value of 0, to saturated soils having a value of 1.

ADDITIONAL RESOURCES

SUNRISE / SUNSET TABLES

U.S. Naval Observatory: <http://aa.usno.navy.mil/data>

SEVERE STORM REPORTS

Storm Prediction Center: <http://spc.noaa.gov/climo/>

National Climatic Data Center (more than about 4-5 months old):

<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwEvent~Storms>

SEASONAL OUTLOOKS

Climate Prediction Center:

http://www.cpc.ncep.noaa.gov/products/OUTLOOKS_index.html

CLIMATE CALENDARS AND OTHER LOCAL WEATHER AND CLIMATE INFORMATION

Oklahoma Climatological Survey:

<http://climate.mesonet.org> or <http://climate.ok.gov/>



Oklahoma Climatological Survey is the State Climate Office for Oklahoma

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