

OKLAHOMA MONTHLY CLIMATE SUMMARY

SEPTEMBER 2007



The flooding rains of the previous few months diminished considerably during September, which ranked as the 55th driest on record at just under an inch below normal. Heavy rains and flooding still occurred, but were mainly isolated to a strip of Oklahoma from west central through east central Oklahoma. The month was on the warm side as well and finished as the 35th warmest on record. Despite finishing with above normal temperatures, September still had a decent cold snap from the 10th-12th following a strong cold front. Low temperatures dropped into the 40s and 50s across the state, with the lowest temperature of the month, 39 degrees, being recorded at the Beaver Mesonet site on the 11th. Severe weather was relatively scarce compared to the tumultuous few months prior to this one. As mentioned, flooding was the main concern, although hail to the size of golf balls injured one person south of Shattuck during a severe storm on the 26th.

Precipitation

The statewide average precipitation total of just under three inches does not depict the state's conditions entirely. Most of south central Oklahoma had a deficit of at least four inches, which ranked that area as the 19th driest on record. The Panhandle was similarly ranked as the 24th driest with a deficit of just over an inch. In contrast, the west central region had surpluses of 2-4 inches locally, and ranked as the 31st wettest September on record for that area. East central Oklahoma led the state with an average of more than five inches, which ranked as the 34th wettest on record.

Temperature

Temperatures were above average across the entire state, with a statewide average temperature that finished nearly two degrees above normal. The Panhandle was well over two degrees above normal, the 22nd warmest September on record for that section of the state. Triple-digit temperatures were rare during the month, occurring four different locations in far northwestern Oklahoma on the sixth.

September 2007 Statewide Extremes

Description	Extreme	Station	Date
High Temperature	101°F	Hooker	Sept. 6
Low Temperature	39°F	Beaver	Sept. 11
High Precipitation	8.15 in.	Westville	
Low Precipitation	0.28 in.	Hooker	

September Daily Highlights

September 1-3: The month's first three days were dominated by surface high pressure, which meant sunny skies and warm temperatures. Highs during these three days were mostly in the upper 80s and low 90s. The dry air allowed temperatures to fall into the 50s and 60s during the nighttime hours. A few showers popped up in southern Oklahoma on the third, but precipitation amounts remained light.

September 4-10: An upper-level low moving across northeastern Texas fired off showers and thunderstorms across much of the state from the fourth through the sixth. Fueled by abundant tropical moisture, the storms were mainly rain producers on the fourth and fifth. The storms that struck on the sixth were a bit more powerful. Small hail and wind gusts greater than 60 mph were common in southwestern Oklahoma that evening. A cold front moved in from the north on the seventh and stalled across central Oklahoma. That front lingered and the showers and storms remained for the next several days. Flooding was a problem with these storms, mostly in the north and east. A storm on the tenth struck the Oklahoma City metropolitan area and dropped more than six inches of rainfall at Will Rogers Airport in about six hours. The front passed through the remainder of the state late on the tenth.

September 11-16: Cooler weather moved in after the front's passage. The 11th was 10-20 degrees cooler than average with highs in the 70s and 80s to go along with winds from the north at 20 mph. The month's coldest temperature of 39 degrees was recorded that morning by the Beaver Mesonet site. The next few days were seasonable with lows in the 50s and 60s and highs in the 80s. Very little rain occurred through this period, although a few showers on the 15th left about a half of an inch of rainfall in the rain gauges in northeastern Oklahoma.

September 17-19: An approaching storm system from the west triggered storms in the Panhandle on the 17th. Those storms moved into western Oklahoma that afternoon but rainfall amounts remained on the light side. Highs were in the 80s and 90s and winds gusted to over 25 mph. More of the same on the 18th as the storm system remained out west. The system finally moved across the state on the 19th, triggering strong storms in the northwest. More than an inch fell in some locales across the area. Some small hail accompanied these storms, which never reached severe limits.

September 20-22: Another warm and dry period, these three days were marked by clear skies and highs in the 80s and 90s. A cold front approached from the north on the 22nd.

September 23-26: A return of tropical moisture meant a return of showers and thunderstorms. Most of the rain during this period occurred in east central Oklahoma. Nearly five inches fell at the Eufaula Mesonet site over the four days. Not much severe weather to speak of, other than hail to the size of golf balls near Shattuck on the 26th which destroyed windshields and even injured one person. High temperatures were in the 80s and 90s on both the 23rd and 24th, but dropped to more seasonable levels in the 70s and 80s following a cold front passage on the 25th. Low temperatures were in the 40s and 50s on the 25th and 26th.

September 27-30: The month's final four days were mostly dry and warm, although a few showers did pop up from time to time – mainly on the 28th and 30th. Outflow boundaries from storms in Kansas triggered storms across the west on the 28th. Some of the storms reached severe levels each day, with winds and small hail being the biggest threat. A cold front entered the state on the 30th, ending the month with a few showers and winds from the north at 20-25 mph, gusting as high as 40 mph. High temperatures that day were in the 80s and 90s, 10 degrees warmer than normal for that day.

September 2007 Statewide Statistics			
Temperature			
	Average	Depart.	Rank (1895-2007)
Month (Sept)	74.2°F	1.8°F	35th Warmest
Year-to-Date (Jan-Sept)	63.1°F	0.0°F	49th Warmest
Precipitation			
	Total	Depart.	Rank (1895-2007)
Month (Sept)	2.93 in.	-0.88 in.	55th Driest
Year-to-Date (Jan-Sept)	35.49 in.	7.02 in.	7th Wettest
Depart. = Departure from 30-year normal			

September 2007 Severe Weather

Significant Tornadoes (EF2 or greater)

No significant tornadoes were reported in the state.

Hail (2 inches in diameter or greater)

No significant hail were reported in the state.

Wind Gusts (70 mph or greater)

No significant wind gusts were reported in the state.

Flooding

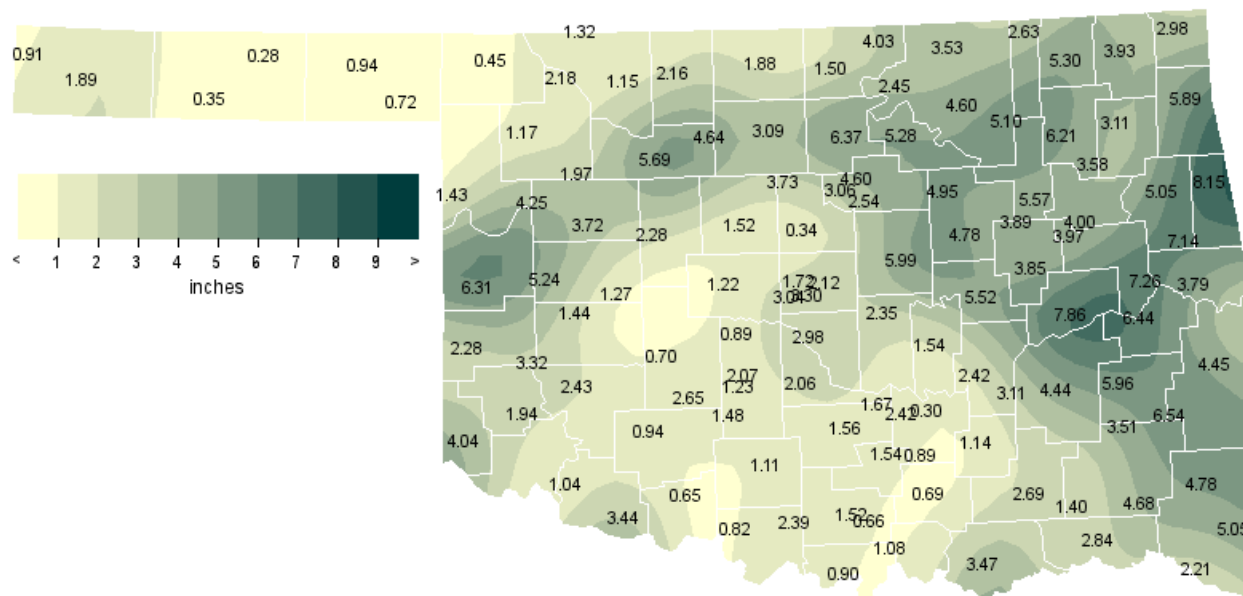
Location	County	Day
2 E Broken Arrow	Wagoner	8
3 S Collinsville	Tulsa	8
Ames	Major	8
Oilton	Creek	8
Putnam	Dewey	8
Sallisaw	Sequoyah	8
Talala	Rogers	8
Tulsa	Tulsa	8

Location	County	Day
3 E Corinne	Pushmataha	9
5 SW Hollis	Harmon	9
9 SW Heavener	Le Flore	9
Big Cedar	Le Flore	9
Hartshorne	Pittsburg	9
Muskogee	Muskogee	9
8 W Moore	Cleveland	10

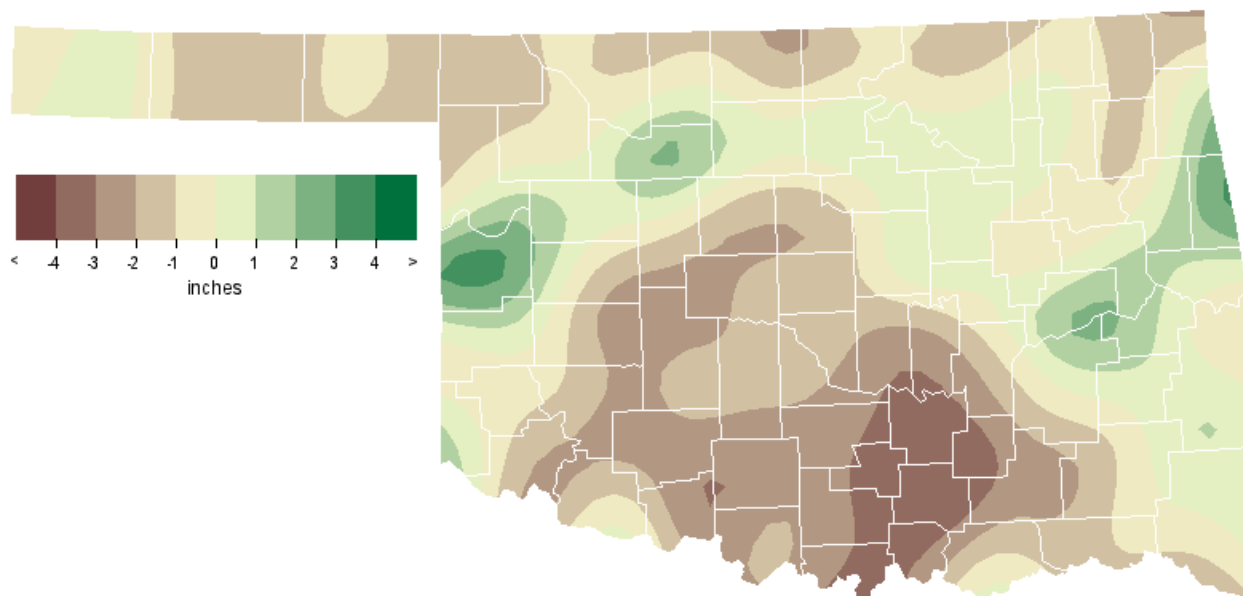
Record Event Reports

Description	Day	Location	Record	Previous Record	Year
Daily Maximum Rainfall	10	Oklahoma City	6.28	2.4	1925

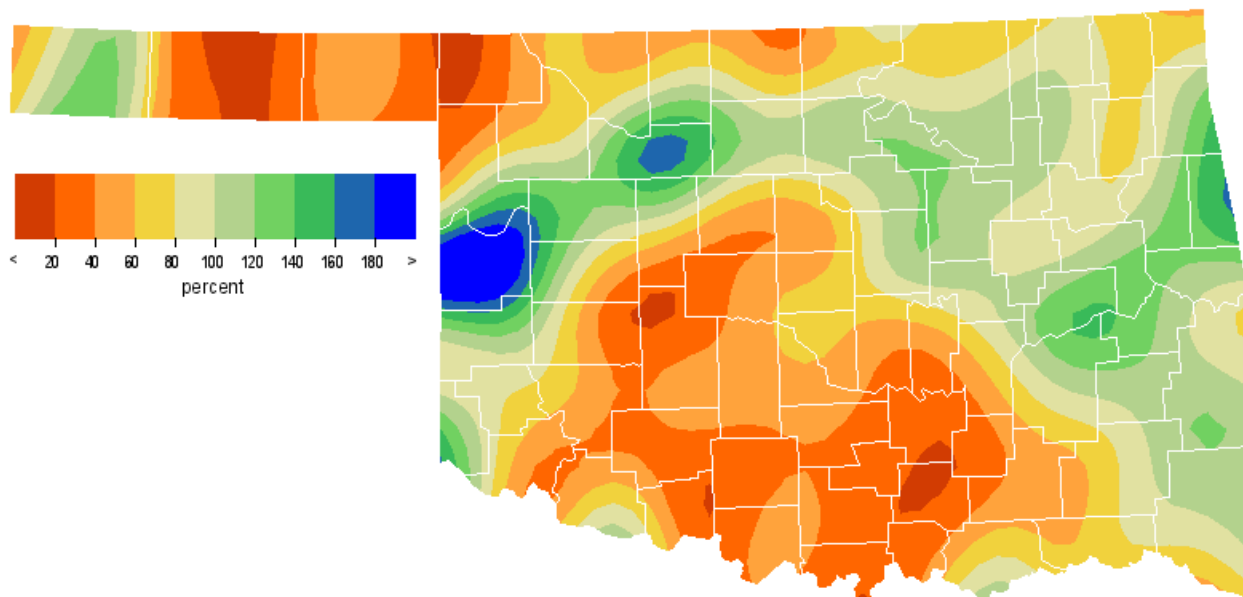
September 2007 Observed Precipitation



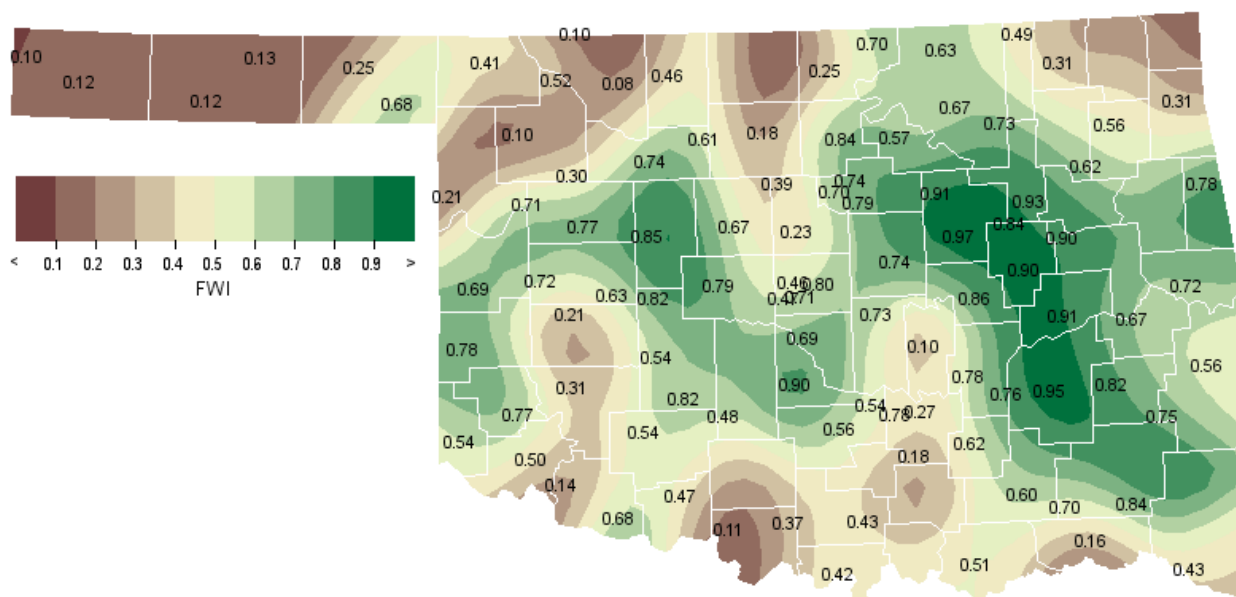
September 2007 Departure from Normal Precipitation



September 2007 Percent of Normal Precipitation



September 2007 Average Soil Moisture at 25cm



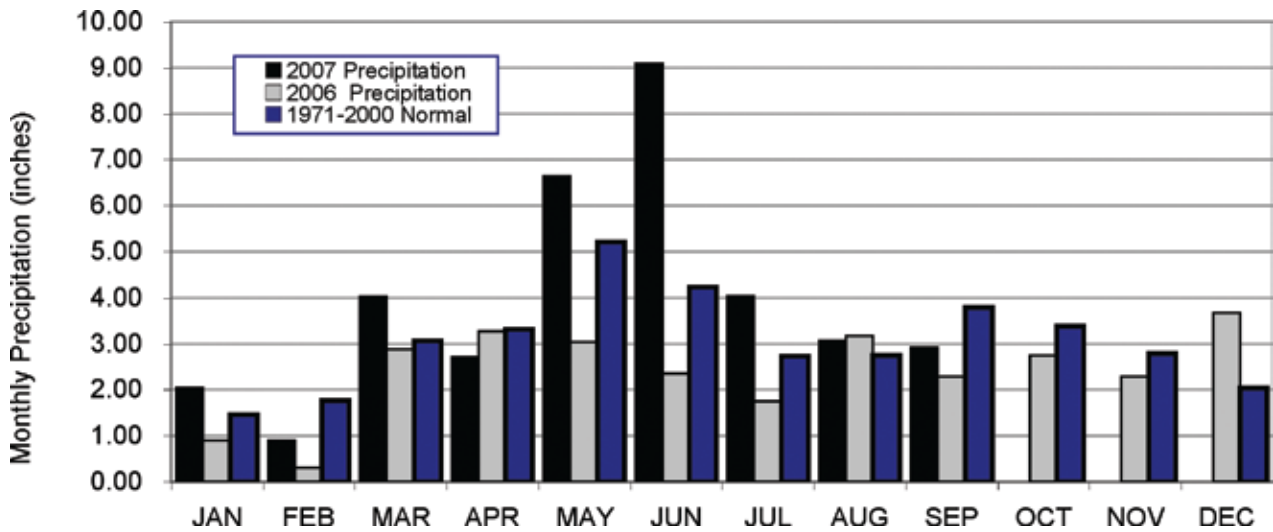
Mesonet Monthly Summary for September 2007

NAME	MEAN		HIGH		LOW		TOT		HIGH	DAY	NAME	MEAN		HIGH		LOW		TOT		HIGH	DAY
	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD	PPT				24-HR	TEMP	TEMP	DAY	TEMP	DAY	HDD	CDD		
PANHANDLE																					
Arnett	72.5	96	6	47	12	3	229	1.43	.80	7	Goodwell	72.0	101	6	43	11	24	234	.35	.22	24
Beaver	73.3	101	6	39	11	17	267	.94	.67	19	Hooker	72.8	101	6	40	11	23	258	.28	.11	29
Boise City	69.3	97	6	42	11	38	167	1.89	1.22	23	Kenton	69.6	97	16	41	26	38	177	.91	.41	17
Buffalo	73.8	100	6	43	26	13	277	.45	.19	17	Slapout	72.5	98	6	47	12	10	234	.72	.40	8
NORTH CENTRAL																					
Alva	73.7	97	6	46	11	5	265	1.15	.63	8	May Ranch	72.9	96	6	47	11	6	243	1.32	.52	19
Blackwell	73.9	93	21	50	11	5	273	1.50	.81	8	Medford	74.3	95	6	48	11	3	282	1.88	1.11	8
Breckinridge	73.8	94	6	51	12	3	267	3.09	1.75	8	Newkirk	73.0	90	3	50	11	7	248	4.03	2.26	8
Cherokee	74.4	97	6	50	11	0	281	2.16	1.81	8	Red Rock	73.8	92	6	52	11	****	****	6.37	2.79	8
Fairview	74.7	96	6	51	11	0	292	5.69	2.85	7	Seiling	73.3	94	6	48	12	3	252	1.97	.92	7
Freedom	73.4	97	6	46	11	7	257	2.18	1.10	19	Woodward	73.2	95	6	46	11	8	253	1.17	.51	17
Lahoma	74.0	94	6	52	11	1	270	4.64	3.90	8											
NORTHEAST																					
Bixby	73.9	91	3	53	12	2	268	5.57	1.61	7	Nowata	72.5	92	3	51	12	7	232	5.30	3.32	8
Burbank	73.0	91	3	52	11	6	248	2.45	1.47	8	Pawnee	73.7	92	3	52	11	5	267	5.28	2.27	8
Claremore	74.1	94	3	53	12	2	276	6.21	1.87	8	Porter	73.8	90	2	53	15	3	268	4.00	1.63	25
Copan	72.8	93	3	51	15	10	244	2.63	1.73	8	Pryor	73.0	92	3	52	12	3	243	3.11	1.10	8
Foraker	72.7	92	3	51	11	6	238	3.53	2.30	8	Skiatook	73.6	93	3	55	12	3	262	5.10	2.20	8
Inola	72.4	90	3	52	15	3	224	3.58	1.48	8	Vinita	72.3	93	3	51	15	****	****	3.93	2.82	8
Jay	72.9	93	3	50	12	6	244	5.89	1.46	25	Wynona	73.4	94	3	52	15	5	256	4.60	1.43	8
Miami	72.6	91	3	50	15	****	****	2.98	1.94	8											
WEST CENTRAL																					
Bessie	74.4	94	6	51	12	1	282	1.44	.45	7	Putnam	73.2	93	6	50	12	2	248	3.72	2.34	7
Butler	74.0	94	6	48	12	1	270	5.24	4.05	8	Retrop	74.9	94	6	51	12	0	297	3.32	1.23	9
Camargo	73.1	96	6	47	12	2	245	4.25	2.61	7	Watonga	73.6	92	21	50	11	4	261	2.28	1.24	8
Cheyenne	72.7	94	6	48	11	3	235	6.31	4.64	8	Weatherford	74.8	94	6	51	11	1	294	1.27	1.02	8
Erick	73.6	95	6	46	12	2	259	2.28	.89	9											
CENTRAL																					
Acme	75.4	92	21	46	12	3	315	1.48	1.12	28	Norman	74.8	90	6	52	12	0	295	2.98	1.08	10
Bowlegs	74.6	91	6	50	12	0	288	1.54	.51	25	Oilton	72.4	91	3	49	12	9	232	4.95	1.91	8
Bristow	73.2	92	3	51	12	5	251	4.78	1.36	10	Oklahoma City	74.6	90	6	51	12	0	287	3.30	1.75	10
Chandler	73.8	90	3	52	15	3	268	5.99	2.14	10	Oklahoma City	74.9	91	6	53	15	1	296	1.72	.98	10
Chickasha	75.4	94	21	49	12	1	312	2.07	.89	9	Oklahoma City	75.6	91	6	54	12	0	319	3.04	2.56	10
El Reno	72.8	91	6	43	12	13	247	1.22	.82	25	Okemah	74.1	91	6	52	12	1	275	5.52	2.87	25
Guthrie	74.9	93	21	51	12	4	302	.34	.11	8	Perkins	74.6	91	3	52	12	3	291	2.54	1.27	8
Kingfisher	74.8	93	6	49	12	1	295	1.52	.51	25	Shawnee	74.1	90	6	51	15	1	274	2.35	.53	26
Marena	73.6	92	6	51	12	6	265	3.06	1.68	7	Spencer	74.3	90	6	51	15	1	280	2.12	.98	25
Mingo	74.5	92	6	52	15	0	285	.89	.28	19	Stillwater	74.2	92	3	52	12	2	277	4.60	2.02	8
Marshall	74.8	94	6	51	12	2	296	3.73	1.84	8	Washington	75.3	91	21	53	12	0	310	2.06	1.38	9
Ninnekah	75.7	93	6	49	12	0	321	1.23	.60	28											
EAST CENTRAL																					
Calvin	74.4	92	8	50	12	0	282	2.42	1.30	9	Sallisaw	74.7	93	2	53	12	0	292	3.79	.78	30
Cookson	72.5	92	3	50	15	5	231	7.14	2.09	8	Stigler	73.7	91	3	52	12	0	262	6.44	3.14	26
Eufaula	74.4	90	3	55	12	0	283	7.86	3.78	25	Stuart	74.7	91	3	53	12	0	292	3.11	1.32	9
Haskell	73.8	91	3	52	15	2	266	3.97	1.60	25	Tahlequah	73.8	94	3	51	12	0	265	5.05	1.78	7
Hectorville	74.0	90	3	53	15	3	275	3.89	.93	8	Webbers Falls	75.1	93	3	54	12	0	302	7.26	1.78	5
McAlester	75.1	90	8	53	12	0	304	4.44	1.09	23	Westville	72.7	94	3	53	12	2	233	8.15	2.26	5
Okmulgee	73.8	91	3	52	12	2	267	3.85	1.35	4											
SOUTHWEST																					
Altus	76.2	93	22	53	12	0	336	*****	*****	***	Hollis	75.5	96	6	52	12	0	315	4.04	3.07	9
Apache	74.7	92	6	52	12	1	290	2.65	1.75	25	Mangum	75.1	95	6	47	12	1	305	1.94	1.19	6
Fort Cobb	74.0	92	6	49	12	1	272	.70	.29	25	Medicine Park	75.4	91	6	55	12	0	313	.94	.19	26
Grandfield	77.4	95	7	55	12	0	372	3.44	3.18	9	Tipton	77.5	95	6	53	12	0	374	1.04	.61	9
Hinton	73.6	92	6	50	12	4	262	*****	*****	***	Walters	77.0	94	22	52	12	0	361	.65	.24	9
Hobart	75.4	95	6	50	12	0	311	2.43	1.24	26											
SOUTH CENTRAL																					
Ada	75.3	92	6	49	12	2	310	.30	.09	26	Madill	77.3	93	8	52	12	0	369	1.08	.66	25
Ardmore	76.4	93	8	55	12	0	343	.66	.27	25	Newport	77.8	96	8	54	12	0	383	1.52	.76	25
Burneyville	76.7	96	8	53	12	0	350	.90	.36	3	Pauls Valley	75.9	92	6	53	12	0	326	1.56	.66	4
Byars	75.1	90	6	52	15	0	302	1.67	1.29	9	Ringling	77.2	96	8	52	12	0	365	2.39	1.39	19
Centrahoma	75.5	91	6	50	12	1	315	1.14	.47	4	Sulphur	75.4	91	6	50	12	1	312	1.54	.49	9
Durant	76.4	92	8	57	12	0	342	3.47	1.45	4	Tishomingo	75.8	95	8	52	12	0	324	.69	.52	8
Fittstown	75.0	93	8	50	12	1	302	.89	.27	4	Vanoss	74.7	91	6	50	12	1	292	2.42	1.14	9
Ketchum Ranch	*****	***	***	***	***	****	****	1.11	.39	4	Waurika	77.7	96	21	53	12	0	382	.82	.33	25
Lane	75.2	92	8	53	12	0	307	2.69	1.40	25											
SOUTHEAST																					
Antlers	74.4	93	8	51	12	0	282	1.40	.48	10	Idabel	75.8	94	2	54	29	0	323	2.21	.97	9
Broken Bow	74.0	93	2	51	29	0	271	5.05	1.68	9	Mt Herman	73.9	93	2	55	12	0	267	4.78	1.65	9
Clayton	75.5	96	2	53	12	0	314	3.51	1.32	9	Talihina	74.6	94	2	53	12	0	287	6.54	3.66	9
Cloudy	74.1	93	2	54	29	0	274	4.68	1.54	9	Wilburton	74.5	91	19	53	12	0	284	5.96	2.56	9
Hugo	75.5	92	2	57	12	0	314	2.84	.84	26	Wister	73.6	95	2	49	29	0	257	4.45	2.52	9

September 2007 Mesonet Precipitation Comparison

Climate Division	Precipitation (inches)	Departure from Normal (inches)	Rank since 1895	Wettest on Record (Year)	Driest on Record (Year)	Aug-06
Panhandle	0.87	-1.01	24th Driest	4.57 (1985)	0.05 (1956)	1.33
North Central	2.86	-0.27	48th Wettest	7.08 (1945)	0.04 (2000)	0.93
Northeast	4.28	-0.50	50th Wettest	12.42 (1986)	0.13 (1948)	2.17
West Central	3.35	0.32	31st Wettest	8.64 (1986)	0.02 (2000)	1.46
Central	2.74	-1.37	52nd Driest	10.68 (1945)	0.19 (1956)	2.39
East Central	5.18	0.22	34th Wettest	10.40 (1970)	0.23 (1948)	3.99
Southwest	1.98	-1.41	45th Driest	8.68 (1936)	0.00 (1898)	2.81
South Central	1.46	-2.88	19th Driest	9.98 (1936)	0.00 (1909)	2.49
Southeast	4.14	-0.43	44th Wettest	11.75 (1974)	0.29 (1948)	3.24
Statewide	2.93	-0.88	55th Driest	7.86 (1945)	0.27 (1956)	2.29

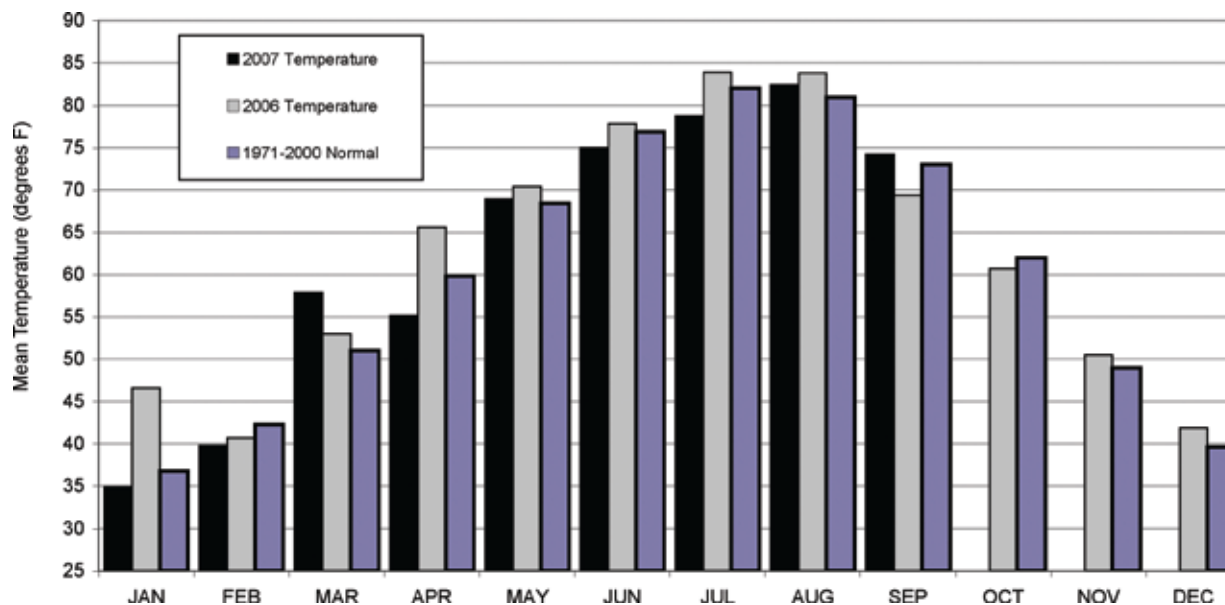
2006 and 2007 Statewide Precipitation Monthly Totals vs. Normal



September 2007 Mesonet Temperature Comparison

Climate Division	Average Temp (F)	Departure from Normal (F)	Rank since 1895	Hottest on Record (Year)	Coldest on Record (Year)	Aug-06 (F)
Panhandle	72.0	2.6	22nd Warmest	76.2 (1931)	62.4 (1974)	65.2
North Central	73.7	1.6	37th Warmest	80.8 (1931)	64.0 (1974)	69.0
Northeast	73.2	1.5	40th Warmest	79.1 (1931)	63.4 (1974)	69.0
West Central	73.8	1.9	32nd Warmest	80.4 (1931)	64.4 (1974)	69.2
Central	74.4	1.6	37th Warmest	81.3 (1931)	65.0 (1974)	69.9
East Central	74.1	1.4	46th Warmest	80.5 (1939)	65.1 (1974)	70.0
Southwest	75.6	1.9	31st Warmest	81.2 (1931)	66.4 (1974)	70.0
South Central	76.1	2.0	33rd Warmest	81.3 (1998)	66.3 (1974)	72.0
Southeast	74.6	1.5	49th Warmest	81.2 (1939)	65.9 (1974)	70.8
Statewide	74.2	1.8	35th Warmest	79.8 (1931)	64.7 (1974)	69.4

2006 and 2007 Statewide Temperature Monthly Averages vs. Normal



Mesonet Extremes for September 2007

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	101	6th	Hooker	39	11th	Beaver	1.89	Boise City	1.22	23rd	Boise City
North Central	97	6th	Alva	46	11th	Freedom	6.37	Red Rock	3.90	8th	Lahoma
Northeast	94	3rd	Wynona	50	12th	Jay	6.21	Claremore	3.32	8th	Nowata
West Central	96	6th	Camargo	46	12th	Erick	6.31	Cheyenne	4.64	8th	Cheyenne
Central	94	21st	Chickasha	43	12th	El Reno	5.99	Chandler	2.87	25th	Okemah
East Central	94	3rd	Westville	50	15th	Cookson	8.15	Westville	3.78	25th	Eufaula
Southwest	96	6th	Hollis	47	12th	Mangum	4.04	Hollis	3.18	9th	Grandfield
South Central	96	21st	Waurika	49	12th	Ada	3.47	Durant	1.45	4th	Durant
Southeast	96	2nd	Clayton	49	29th	Wister	6.54	Talihina	3.66	9th	Talihina
Statewide	101	6th	Hooker	39	11th	Beaver	8.15	Westville	4.64	8th	Cheyenne

October Climatological Outlook

NORMAN - October typically brings Oklahoma some of its most pleasant weather. Days are usually pleasantly warm and nights typically are refreshingly cool. On the occasions that the weather does turn nasty, however, the result too often is flood, as October seems to be a favored time for extreme precipitation events. The year's tenth month is Oklahoma's 6th warmest and 4th wettest, according to the most recently compiled statewide normals. From 1971 through 2000, the period from which current normals of temperature and precipitation were calculated, Oklahoma's October average temperature was 62.0 degrees Fahrenheit and the average reporting station received a monthly precipitation of 3.38 inches.

Precipitation

Mean: 3.38 inches
Wettest October: 1941, 11.32 inches
Driest October: 1917 and 1952, 0.14 inches
Wettest location: Smithville, 6.22 inches
Driest location: Kenton, 0.99 inches
Most recorded: 25.80 inches, Madill, 1981

October is given to wide extremes of precipitation. The larger monthly figures are usually impacted by one or two very large events. Remnants of tropical storms or hurricanes, usually from the Gulf of Mexico, but occasionally originating in the Pacific Ocean, occasionally bring widespread heavy rains to the state during October. At other times, mid-latitude storm systems have stalled over the state and, taking advantage of moisture borne from the Gulf by the prevailing southerly winds, produced prodigious amounts of rain. In many other years, October is virtually without rain. Monthly precipitation totals include a statewide-averaged high of 11.32 inches in 1941, the largest total ever recorded for Oklahoma (any month), and a low of 0.14 inch, attained in 1952. The remnants of Hurricane Norma provided enough rain over a three-day period in October 1981 to give Madill the greatest monthly precipitation total (25.80 inches) ever recorded at a recognized reporting station in Oklahoma (all months). A thoroughly extra-tropical thunderstorm system inundated Enid with 15.68 inches of rain in about 12 hours (12 inches in just 3 hours) on October 11, 1973. That total, reported the following morning, is the state's greatest 24-hour precipitation in any month, as measured at an official reporting station.

Temperature

Mean: 62.0 degrees
Warmest October: 1963, 70.7 degrees
Coolest October: 1974, 65.4 degrees
Warmest location: Waurika, 66.3 degrees
Coolest location: Turpin, 56.6 degrees
Warmest recorded: 110 degrees, Waukomis, October 2, 1898
Coldest recorded: 6 degrees, Kenton, October 30, 1993

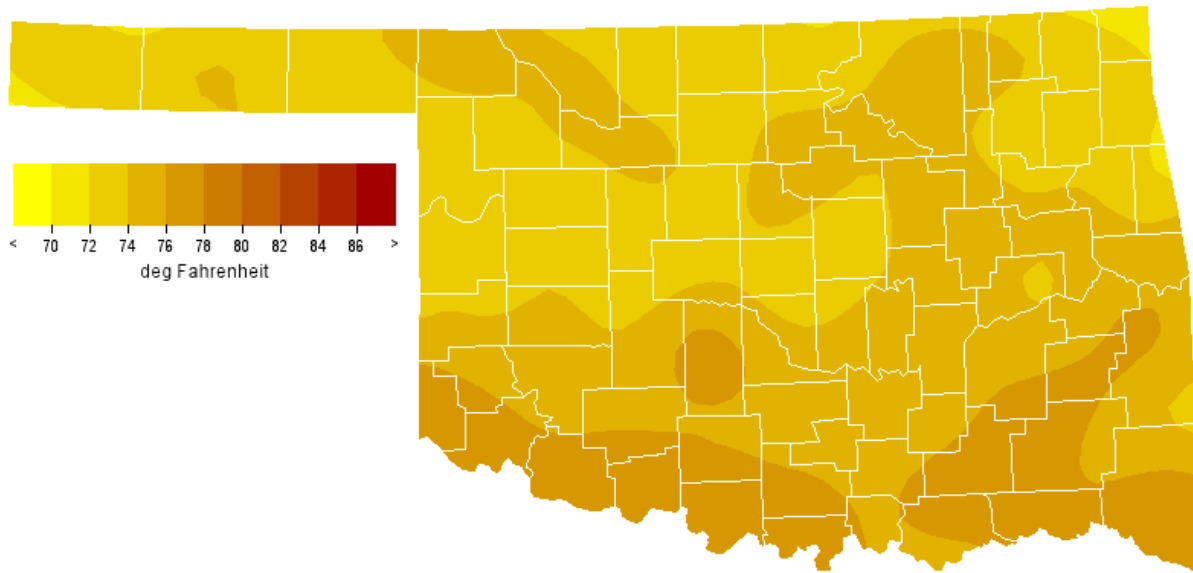
The normal precipitation pattern across Oklahoma in October returns to its familiar configuration with eastern stations receiving substantially more rainfall than those in the west. Normal monthly precipitation across the state during October ranges from 6.22 inches at Smithville to 0.99 inches at Kenton. Snowfall is not common during October, but Regnier, Kenton, and Boise City each average receiving about one inch of snow during the month. Those averages were inflated by a freak snowstorm on October 25 and 26, 1997 that dropped 15 inches of snow on Kenton. As many as 15,000 head of cattle across the panhandle died during that snowstorm.

Severe thunderstorms, apart from the floods, historically have been little more than footnotes in October for most of the state's history. However, recent occurrences have altered that notion somewhat. Reasonably comprehensive and well-documented tornado records in the state date from 1950. During those 54 years, 123 October tornadoes have been identified in Oklahoma, an average of 2.3 per year. There were no October tornadoes reported during 23 of those years. However, 25 tornadoes were reported in the state on October 4, 1998 and 19 more were reported on October 9, 2001. Those two days account for over one-third of the tornadoes reported (and confirmed) within the state in October during that 54-year period. The state's monthly total of 27 tornadoes during October 1998 represents the most tornadoes ever reported within any state during an October.

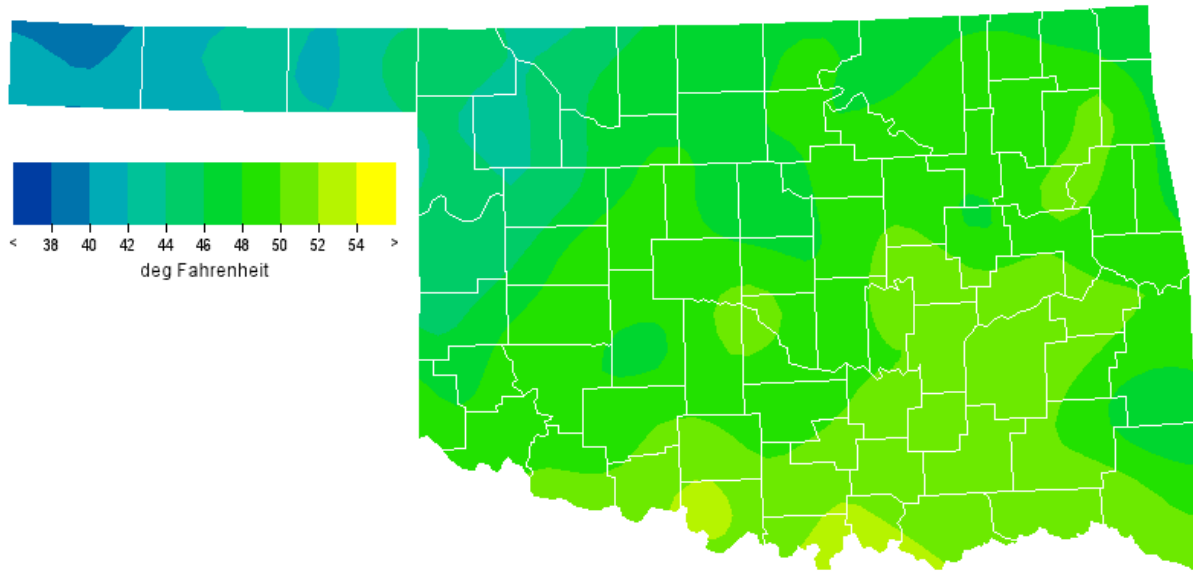
Tornadoes

Average October Tornadoes: 2
Most: 27 (1998)

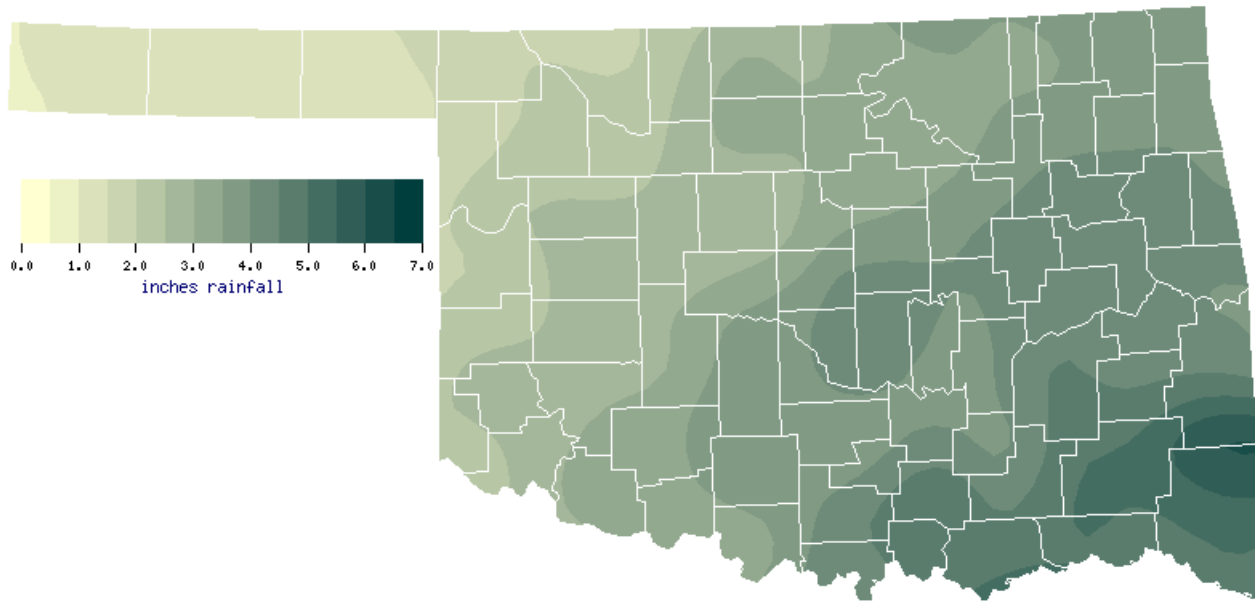
October Normal Daily Maximum Temperature (1971-2000)



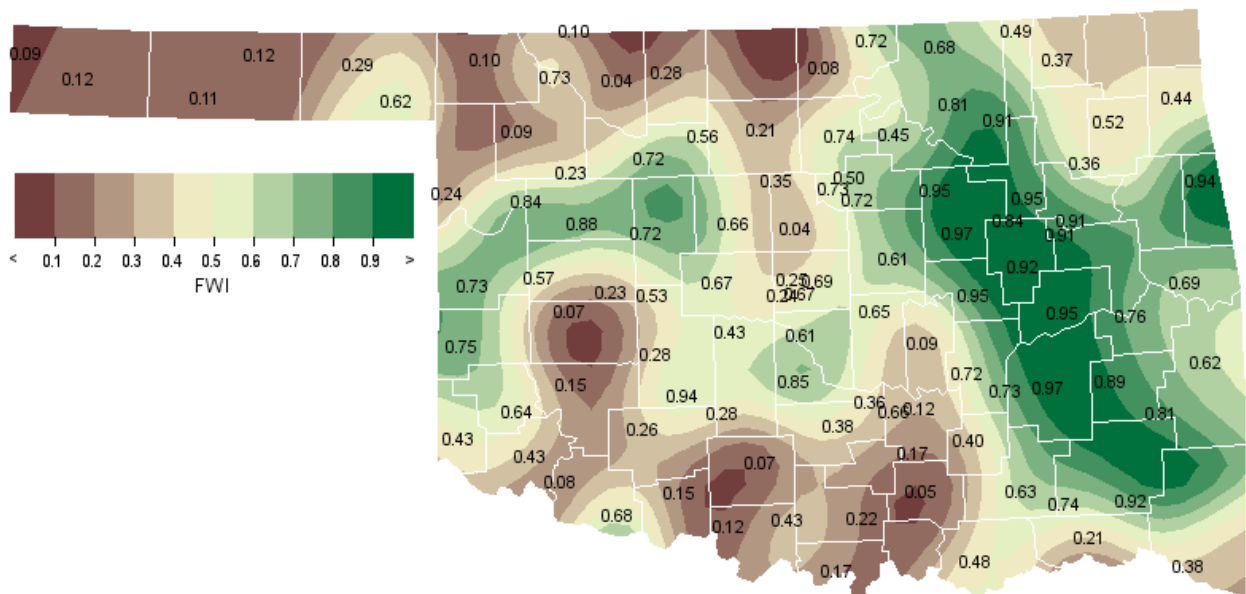
October Normal Daily Minimum Temperature (1971-2000)



October Normal Precipitation (1971-2000)



October 1, 2007 Soil Moisture Conditions at 25cm



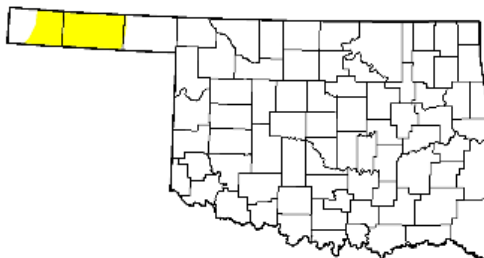
U.S. Drought Monitor

Oklahoma

September 25, 2007
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	95.6	4.4	0.0	0.0	0.0	0.0
Last Week (09/18/2007 map)	95.6	4.4	0.0	0.0	0.0	0.0
3 Months Ago (07/03/2007 map)	96.9	3.1	0.0	0.0	0.0	0.0
Start of Calendar Year (01/02/2007 map)	31.3	68.7	39.8	24.5	18.2	0.0
Start of Water Year (10/03/2006 map)	2.7	97.3	92.7	46.2	16.6	0.0
One Year Ago (09/26/2006 map)	2.7	97.3	92.7	46.2	16.6	0.0



Intensity:

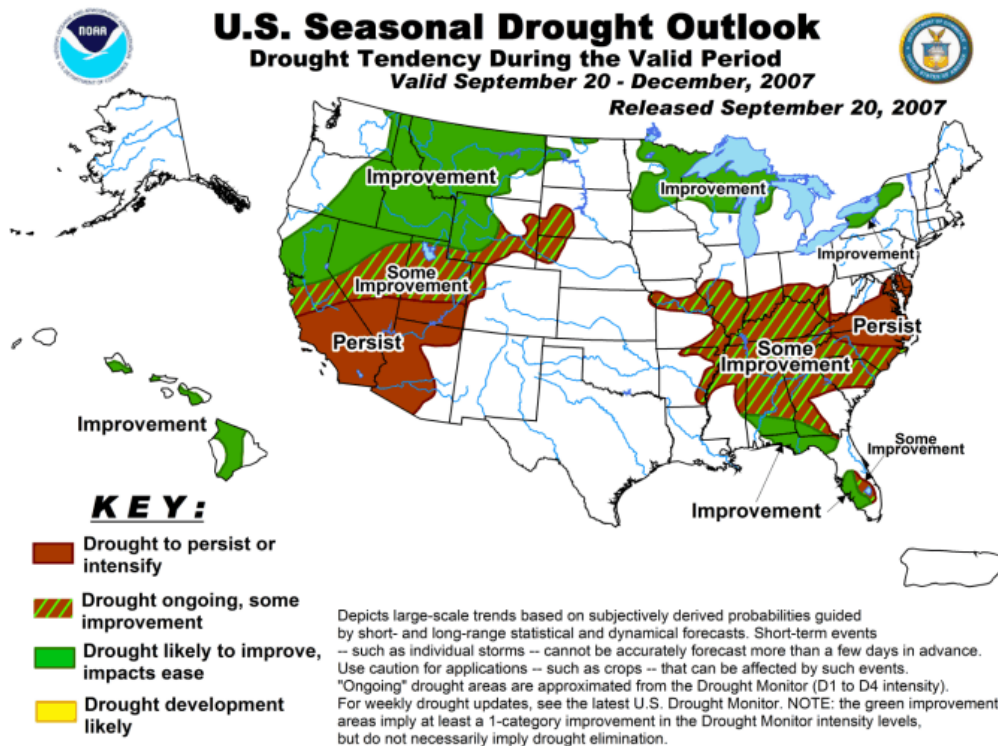
- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

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

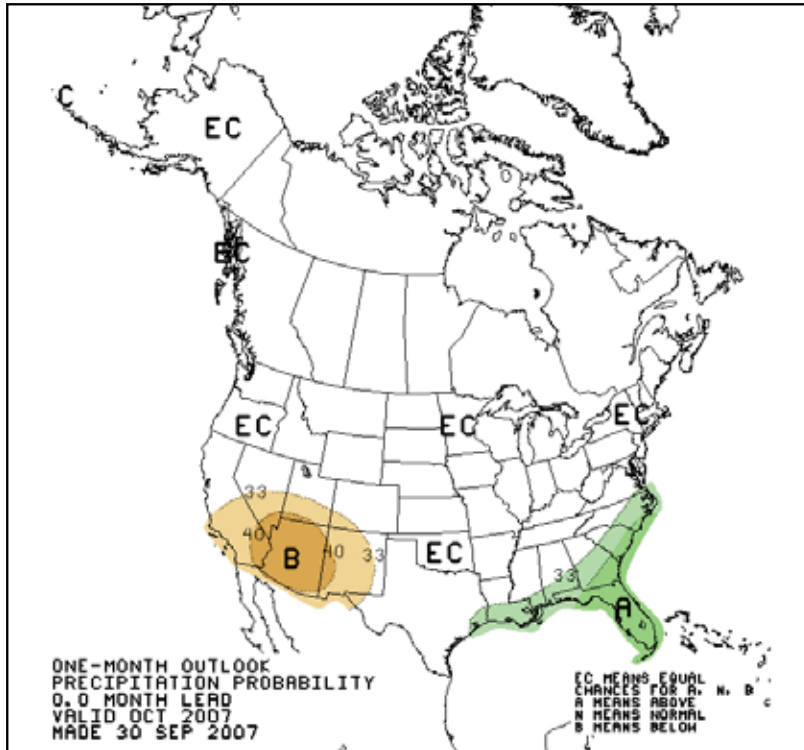
<http://drought.unl.edu/dm>



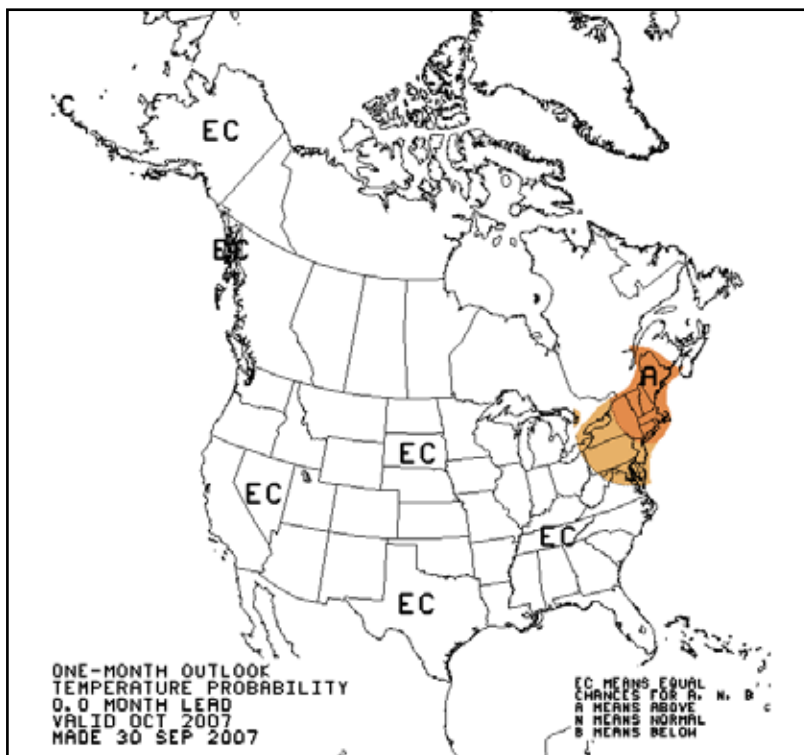
Released Thursday, September 27, 2007
Author: David Miskus, JAWF/CPC/NOAA



October 2007 U.S. Precipitation Forecast



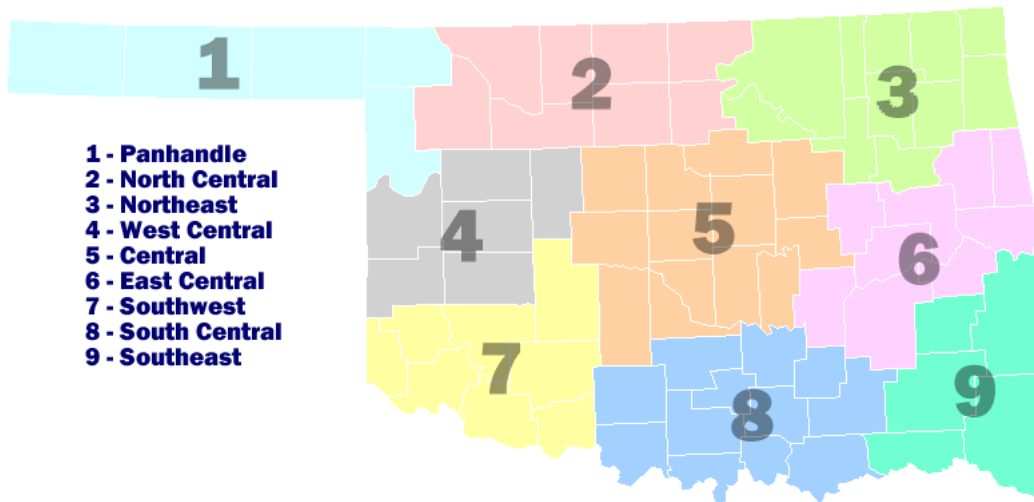
October 2007 U.S. Temperature Forecast



October Climate Normals

Climate Division	Max. Temperature (°F)	Min. Temperature (°F)	Avg. Temperature (°F)	Precipitation (inches)
1	73.70	42.90	58.30	1.49
2	73.50	46.50	60.00	2.66
3	73.80	48.70	61.30	3.62
4	73.70	47.20	60.50	2.47
5	74.40	49.30	61.80	3.64
6	74.50	50.00	62.30	4.19
7	75.80	48.90	62.30	2.99
8	76.10	50.80	63.50	4.17
9	76.10	49.50	62.80	4.98
Statewide	74.60	48.30	61.50	3.48

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.ocs.ou.edu> or

<http://www.ocs.ou.edu/>

E-mail (ocs@ou.edu) or telephone (405/325-2541)



Oklahoma Climatological Survey is the State
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