Oklahoma Water Resources Bulletin & Summary of Current Conditions

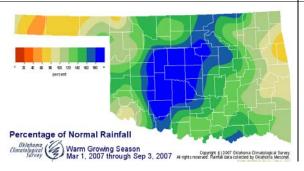


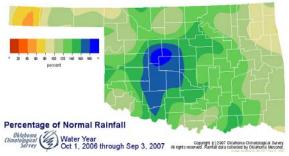
September 5, 2007

PRECIPITATION

Preliminary Statewide Precipitation

Warm Growing Season March 1— September 3, 2007						Water Year October 1, 2006—September 3, 2007			
Climate Division (#)	Total Rainfall (inches)	Departure From Normal (inches)	Percent Of Normal	RANK SINCE 1921	Total Rainfall (inches)	Departure From Normal (Inches)	PERCENT OF NORMAL	RANK SINCE 1921	
Panhandle	12.83"	-2.17"	86%	34th driest	18.13"	-1.28"	93%	42nd driest	
North Central	30.00"	+9.35"	145%	2nd wettest	35.60"	+6.77"	123%	6th wettest	
Northeast	31.23"	+6.65"	127%	10th wettest	41.91"	+4.24"	111%	18th wettest	
West Central	28.86"	+9.94"	153%	1st wettest	36.66"	+10.30"	139%	1st wettest	
Central	40.95"	+18.36"	181%	1st wettest	50.82"	+16.53"	148%	1st wettest	
East Central	27.87"	+2.36"	109%	21st wettest	46.76"	+5.13"	112%	14th wettest	
Southwest	30.70"	+11.43"	159%	1st wettest	40.68"	+12.93"	147%	1st wettest	
South Central	32.78"	+9.72"	142%	4th wettest	47.91"	+10.86"	129%	6th wettest	
Southeast	30.32"	+3.54"	113%	23rd wettest	53.65"	+6.83"	115%	16th wettest	
Statewide	29.90"	+8.07"	137%	2nd wettest	41.47"	+8.21"	125%	4th wettest	

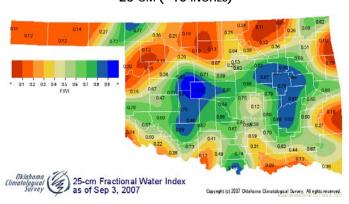




SOIL MOISTURE

Fractional Water Index¹ September 3, 2007

25 CM (~10 INCHES)



¹ The Fractional Water Index ranges from very dry soil having a value of 0 to soil at field capacity illustrated by a value of 1. Specifically, 1.0 to 0.8 equals Enhanced Growth, 0.8 to 0.5 equals Limited Growth, 0.5 to 0.3 equals Plants Wilting, 0.3 to 0.1 equals Plants Dying, and less than 0.1 equals Barren Soil.

DROUGHT INDICES

Palmer Drought Severity Index¹

Standardized Precipitation Index² Through August 2007

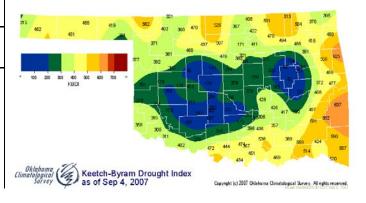
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CLIMATE DIVISION (#)	CURRENT STATUS 9/1/2007	9/1	LUE 8/4	CHANGE IN VALUE	3-Монтн	6-Монтн	9-Month	12-Month
Northwest (1)	MOIST SPELL	1.39	3.38	-1.99	NEAR NORMAL	NEAR NORMAL	VERY WET	MODERATELY WET
North Central (2)	VERY MOIST SPELL	3.39	4.21	-0.82	MODERATELY WET	EXTREMELY WET	EXTREMELY WET	MODERATELY WET
Northeast (3)	MOIST SPELL	1.11	1.81	-0.70	VERY WET	VERY WET	VERY WET	MODERATELY WET
West Central (4)	EXTREME MOIST SPELL	4.92	4.54	0.38	EXTREMELY WET	EXCEPTIONALLY WET	EXCEPTIONALLY WET	EXTREMELY WET
Central (5)	EXTREME MOIST SPELL	5.54	4.62	0.92	EXTREMELY WET	EXCEPTIONALLY WET	EXTREMELY WET	EXTREMELY WET
East Central (6)	MOIST SPELL	1.99	1.46	0.53	EXTREMELY WET	VERY WET	VERY WET	VERY WET
Southwest (7)	EXTREME MOIST SPELL	5.73	4.96	0.77	VERY WET	EXTREMELY WET	VERY WET	VERY WET
South Central (8)	VERY MOIST SPELL	3.80	4.03	-0.23	MODERATELY WET	VERY WET	VERY WET	VERY WET
Southeast (9)	MOIST SPELL	1.36	2.19	-0.83	MODERATELY WET	NEAR NORMAL	MODERATELY WET	VERY WET

- No climate divisions are currently experiencing drought conditions, according to the PDSI.
- Five climate divisions have undergone PDSI moisture decreases since August 4.

Keetch-Byram Drought Fire Index³

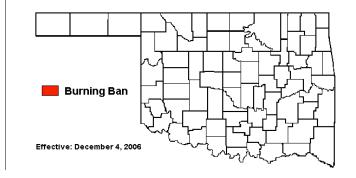
MESONET STATION	COUNTY	CLIMATE DIVISION	CURRENT VALUE 9/4/2007
Wister	LeFlore	Southeast	649
Westville	Adair	East Central	639
Mt Herman	McCurtain	Southeast	599

- Stations currently above 600 (September 4) = 2
- Stations above 600 on August 6 = 0



Statewide Wildfire Preparedness

There is no ban on outdoor burning for any counties in Oklahoma. However, citizens are encouraged to use caution. Dry, grassy fuels will ignite easily when the humidity is low and the temperature and winds are high.



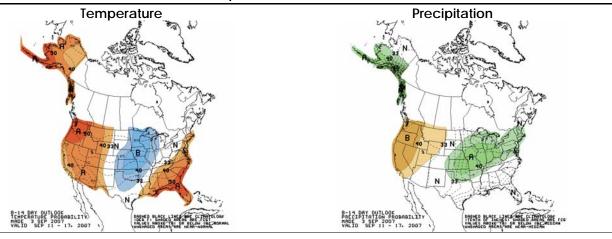
¹ The Palmer Drought Severity Index, the first comprehensive drought index developed in the United States, is calculated based on precipitation, temperature, and soil moisture. Though widely used by government agencies and states to trigger drought relief programs, the PDSI may underestimate or overestimate the severity of ongoing dry periods.

² The Standardized Precipitation Index, more sensitive than the PDSI, provides a comparison of precipitation over a specified period with precipitation totals from that same period for all years included in the historical record. The 3-month SPI provides a seasonal estimation of precipitation while the 6-month SPI can be very effective in showing precipitation over distinct seasons.

³ The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires. KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.

WEATHER/DROUGHT FORECAST

8- to 14-Day Outlook September 11-17, 2007



U.S. Drought Monitor

September 4, 2007

ast Week 87.0 13.0 0.0		None	D0-D4	D1-D4	D2-D4	D3-D4	D4
0.0 0.0	Current	87.5	12.5	0.0	0.0	0.0	0.0
virizazion majo 100.0 0.0 0.0 0.0 0.0 0.0 Sistart of elendari Year 31.3 68.7 39.8 24.5 18.2 0.0 Sistart of Valerie Year 2.7 97.3 92.7 46.2 16.6 0.0	Last Week (08/28/2007 map)	87.0	13.0	0.0	0.0	0.0	0.0
slendar Year (2022007 map) 31.3 68.7 39.8 24.5 18.2 0.0 Start of Valer Year 0022000 map) 2.7 97.3 92.7 46.2 16.6 0.0	3 Months Ago (06/12/2007 map)	100.0	0.0	0.0	0.0	0.0	0.0
Nater Year 2.7 97.3 92.7 46.2 16.6 0.0	Start of Calendar Year (01/02/2007 map)	31.3	68.7	39.8	24.5	18.2	0.0
ne Veer Ann	Start of Water Year (10/03/2006 map)	2.7	97.3	92.7	46.2	16.6	0.0
	One Year Ago (09/05/2006 map)	1.1	98.9	96.2	48.9	22.6	0.0
	Intensity D0 Ab	_	Dry		D3 Droug	ht - Extre	me
D0 Abnormally Dry D3 Drought - Extreme		ought - M	odorata		D4 Dmur	ht - Excep	tional

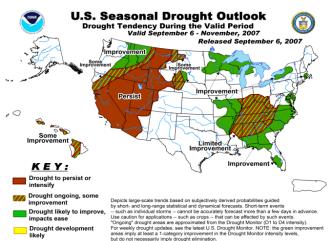
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summar, for forecast statements

for forecast statements

http://drought.unl.edu/dm

Author: Thomas Heddinghaus CPC/NOAA

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Drought Summary & Outlook:

September 4—Mainly dry weather in the Ohio Valley allowed drought to creep northward in southern portions of Illinois, Indiana, and Ohio, A lingering cold front helped to focus widespread shower activity across the southeastern drought region, resulting in improvement over many areas. Temperatures also turned more seasonable following the previous week's record heat, although weekly average temperatures remained at least 4 degrees F above normal in Tennessee and Kentucky, where rainfall was spotty and improvement was minimal. Amounts of 1 to 2 inches, with locally over 3 inches, spread from Mississippi into Alabama and Georgia, resulting in shrinkage of D3 and D4 drought. Weekly average streamflows, responding to recent downpours, neared median levels at many locations in northern and western Alabama. In Mississippi, topsoil moisture ratings improved from 76 percent short or worse to 59 percent short in the past week.

According to the latest Drought Outlook, forecasts from 5 days to 3 months call for near- or above-normal precipitation in much of the middle Mississippi Valley, areas near the Gulf and Atlantic Coasts, and the Great Lakes region. Limited improvement is also likely across the lower Ohio Valley and interior South. To the south and east, in a large area stretching from interior Montana southward and westward through the central and southern Rockies, Great Basin, most of California, and the desert Southwest, most forecasts on all time scales call for enhanced chances for below-normal precipitation as the monsoon season winds down.

CROP REPORT

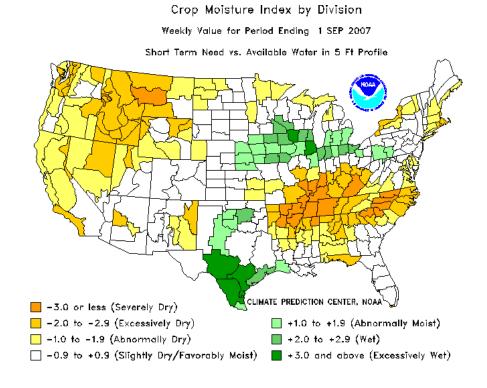
September 4—Weather conditions were very nice last week with very little precipitation and average temperatures in the mid- to high- 70's. Both topsoil and subsoil moisture levels dropped slightly this past week but were still much better than this time last year. Reduced soil moisture levels in some areas had farmers concerned as they continued making preparations for fall plantings. There were 6.1 days suitable for fieldwork.

Producers in areas affected by Hurricane Erin spent part of last week repairing flood damaged fields. As of Sunday, 55 percent of wheat seedbed preparation was complete, 7 points behind the five-year average. Wheat had been planted in a few isolated areas. Rye and oat seedbed preparation was 49 and 44 percent complete, respectively, both behind normal. Producers in many areas were hoping for additional moisture before planting small grains.

Producers in some areas were turning off irrigation systems to crops that have reached maturity. Eighty-one percent of soybeans were blooming and 62 percent were setting pods, both well behind normal. Soybean harvest has begun on a limited scale. Nearly the entire corn crop was in the doughing stage and 59 percent of the state's acreage had reached maturity. Producers made good progress harvesting corn this past week with 28 percent of the crop harvested by week's end, a jump of 16 points from the previous week. Grain sorghum was 91 percent headed and 35 percent of the crop had reached maturity. Ninety-six percent of cotton was setting bolls, slightly behind normal. Nearly half of peanuts were mature, with the majority of the crop condition rated as good to fair.

Clear skies and mild temperatures allowed producers to cut and bale hay the entire week in most areas. Growers had 59 percent of other hay second cuttings completed by the end of the week, 10 points behind the five-year average. Eighty percent of the fourth cutting of alfalfa was complete and producers had completed 22 percent of the fifth cutting. Alfalfa and other hay conditions remained mostly in the good to fair range. Watermelon harvest increased 2 points from the previous week to reach 93 percent, but was running 4 points behind normal. Producers had the majority of the state's peach acreage harvested by the end of the week.

Livestock conditions were still rated mostly in the excellent to good range. Livestock marketings remained average last week. Pasture and range conditions were rated mostly in the good to fair range.

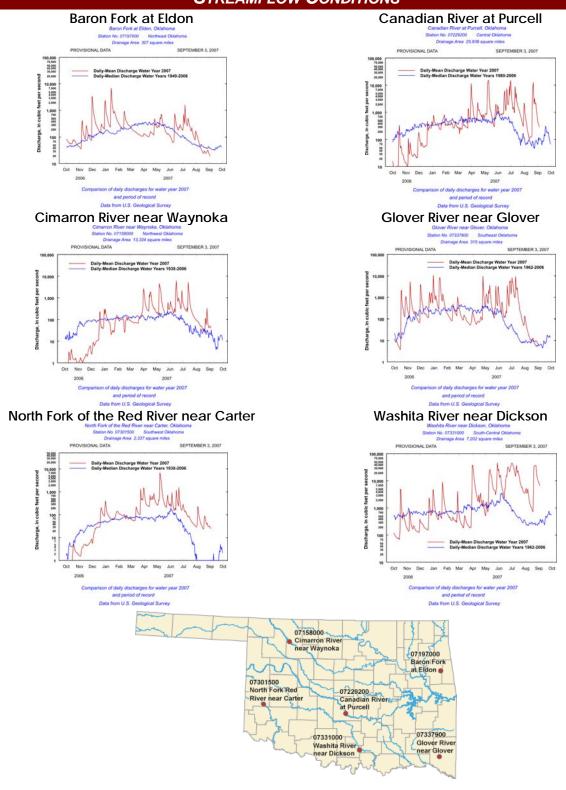


RESERVOIR STORAGE

- 1.7 percent decrease in total storage (98.1%) from that recorded on August 7 (99.8%)
- 28 reservoirs have experienced lake level decreases
- 5 reservoirs are currently operating at less than full capacity (compared to 2 four weeks ago)
- 1 reservoir—Lugert-Altus—is below 80 percent of total conservation storage

	in Selected Oklah September		
Climate Division Lake or Reservoir	Conservation Storage	Present Storage	Percent of Conservation Storage
North Central	(acre-feet)	(acre-feet)	
Fort Supply	13,900	13,900	100.0
Great Salt Plains	31,420	31,420	100.0
Kaw*	375,160	375,160	100.0
Regional Totals/Averages	420,480	420,480	100.0
Northeast	,		
Birch	19,225	18,870	98.2
Copan	34,634	34,634	100.0
Fort Gibson	365,200	365,200	100.0
Grand	1,672,000	1,541,399	92.2
Hudson	200,300	200,300	100.0
Hulah	22,565	22,565	100.0
Keystone	510,059	510,059	100.0
Oologah	552,219	552,219	100.0
Skiatook	322,700	322,700	100.0
Regional Totals/Averages	3,698,902	3,567,946	96.5
West Central			
Canton	111,310	111,310	100.0
Foss	165,480	163,476	98.8
Regional Totals/Averages	276,790	274,786	99.3
Central	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Arcadia	27,520	27,520	100.0
Heyburn	7,105	7,105	100.0
Thunderbird	119,600	119,600	100.0
Regional Totals/Averages	154,225	154,225	100.0
East Central			
Eufaula*	2,314,583	2,314,583	100.0
Tenkiller	654,100	654,100	100.0
Regional Totals/Averages	2,968,683	2,968,683	100.0
Southwest			
Fort Cobb	80,010	80,010	100.0
Lugert-Altus	132,830	82,251	61.9
Tom Steed	88,970	88,970	100.0
Regional Totals/Averages	301,810	251,231	83.2
South Central			
Arbuckle	72,400	72,400	100.0
McGee Creek	113,930	113,930	100.0
Texoma*	2,548,034	2,548,034	100.0
Waurika*	190,200	190,200	100.0
Regional Totals/Averages	2,924,564	2,924,564	100.0
Southeast			
Broken Bow*	958,180	883,539	92.2
Hugo*	158,617	179,657	113.3
Pine Creek*	61,570	63,862	103.7
Sardis	274,330	274,330	100.0
Wister	60,162	60,162	100.0
Regional Totals/Averages	1,512,859	1,461,550	96.6
State Totals	12,258,313	12,023,465	98.1

STREAMFLOW CONDITIONS



Water Bulletin information/data courtesy of National Weather Service, Climate Prediction Center, Oklahoma Climatological Survey, State Department of Agriculture, Food, and Forestry, Agricultural Statistics Service, U.S. Army Corps of Engineers, U.S. Department of Agriculture/Forest Service, U.S. Geological Survey, Western Drought Coordination Council, and National Drought Mitigation Center. For more information, visit www.owrb.state.ok.us and http://www.mesonet.ou.edu/public.