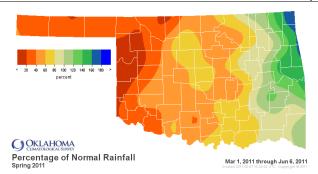
Oklahoma Water Resources Bulletin & Summary of Current Conditions

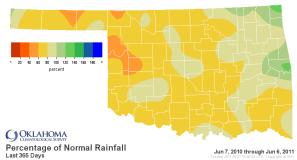


June 9, 2011

PRECIPITATION

Statewide Precipitation									
Spring Growing Season March 1 – June 6, 2011					Last 365 Days June 7, 2010 – June 6, 2011				
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	1.78"	-5.65"	24%	1st driest	13.94"	-7.16"	66%	8th driest	
North Central	4.59"	-6.55"	41%	4th driest	22.75"	-8.90"	72%	15th driest	
Northeast	13.64"	-0.43"	97%	36th wettest	38.60"	-3.37"	92%	42nd wettest	
West Central	3.04"	-7.63"	28%	2nd driest	18.35"	-10.74"	63%	5th driest	
Central	7.68"	-5.64"	58%	8th driest	28.90"	-9.09"	76%	16th driest	
East Central	17.28"	+2.00"	113%	20th wettest	42.20"	-3.89"	92%	40th driest	
Southwest	4.54"	-6.20"	42%	3rd driest	23.64"	-7.16"	77%	15th driest	
South Central	8.19"	-5.65"	59%	5th driest	30.54"	-10.42"	75%	13th driest	
Southeast	16.98"	+0.71"	104%	33rd wettest	39.91"	-11.03"	78%	12th driest	
Statewide	8.55"	-3.98"	68%	12th driest	28.78"	-7.91"	78%	18th driest	

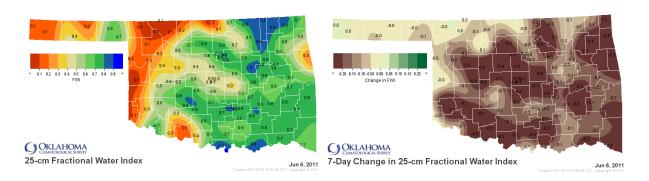




SOIL MOISTURE

Fractional Water Index¹ June 6, 2011

25 CM (~10 INCHES)



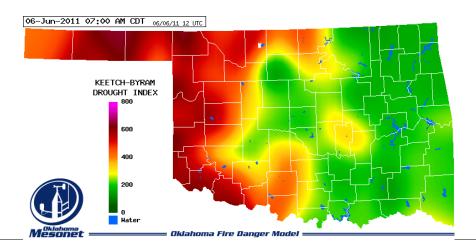
¹ The Fractional Water Index ranges from very dry soil having a value of 0 to soil at field capacity illustrated by a value of 1. [1.0-0.8 = Enhanced Growth; 0.8-0.5 = Limited Growth; 0.5-0.3 = Plants Wilting; 0.3-0.1 = Plants Dying; <0.1 = Barren Soil.]

DROUGHT INDICES

Palmer Drought Severity Index ¹					Standardized Precipitation Index ² Through May 2011				
CLIMATE CURRENT STATUS DIVISION 6/4/2011				CHANGE IN VALUE	3-Монтн	6-Монтн	9-Month	12-Month	
Northwest	SEVERE DROUGHT	-3.05	-1.86	-1.19	VERY DRY	EXCEPTIONALLY DRY	EXTREMELY DRY	VERY DRY	
North Central	MILD DROUGHT	-1.66	-1.37	-0.29	MODERATELY DRY	VERY DRY	VERY DRY	MODERATELY DRY	
Northeast	MOIST SPELL	1.48	0.57	0.91	MODERATELY WET	NEAR NORMAL	NEAR NORMAL	NEAR NORMAL	
West Central	MODERATE DROUGHT	-2.76	-2.09	-0.67	EXTREMELY DRY	EXTREMELY DRY	VERY DRY	VERY DRY	
Central	MILD DROUGHT	-1.88	-2.23	0.35	MODERATELY DRY	MODERATELY DRY	MODERATELY DRY	NEAR NORMAL	
East Central	UNUSUAL MOIST SPELL	2.29	1.91	0.38	NEAR NORMAL	NEAR NORMAL	NEAR NORMAL	NEAR NORMAL	
Southwest	SEVERE DROUGHT	-3.35	-3.00	-0.35	EXTREMELY DRY	EXTREMELY DRY	VERY DRY	NEAR NORMAL	
South Central	MODERATE DROUGHT	-2.34	-2.07	-0.27	EXTREMELY DRY	VERY DRY	MODERATELY DRY	MODERATELY DRY	
Southeast	MOIST SPELL	1.28	1.79	-0.51	NEAR NORMAL	NEAR NORMAL	MODERATELY DRY	MODERATELY DRY	

- Six climate divisions are currently experiencing drought conditions, according to the PDSI. The Southwest and Northwest climate divisions are in severe drought.
- Six climate divisions have undergone PDSI moisture decreases since May 7.
- Six climate divisions are experiencing near long-term dry conditions, according to the SPI.

Keetch-Byram Drought Fire Index ³								
MESONET STATION	COUNTY	CLIMATE DIVISION	CURRENT VALUE 6/6/2011	Chatiana aumandh at an ah ana COO (luna C)				
Altus	Jackson	Southwest	706	 Stations currently at or above 600 (June 6) = 6 Stations above 600 on May 9 = 4 				
Erick	Beckham	West Central	631	Stations above 600 on May 9 = 4				
Hooker	Texas	Panhandle	629					



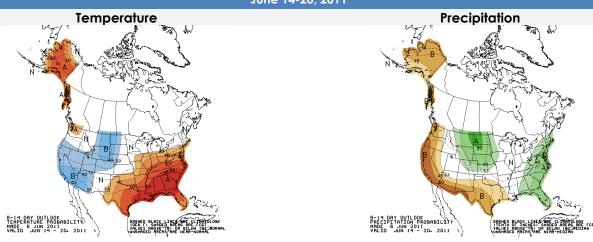
¹ The Palmer Drought Severity Index, the first comprehensive drought index developed in the United States, is calculated based on precipitation, temperature, and soil moisture. Though widely used by government agencies and states to trigger drought relief programs, the PDSI may underestimate or overestimate 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 June 14-20, 2011

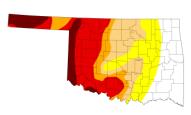


Regional Drought Summary & Outlook

U.S. Drought Monitor Oklahoma

June 7, 2011 Valid 7 a.m. EST

59.26 42.32 33 11 77.89 Last Week 55.37 41.36 3 Months Ago 99.98 81.75 28.58 13.82 86.18 47.90 1.50 0.00 0.00 66.28 0.00 33.72 4.21 0.00 0.00 6.32 0.00 0.00 93.68 0.00



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

D4 Drought - Exceptions

Released Thursday, June 9, 2011
Matthew Rosencrans, NOAA/NWS/NCEP/CPC

http://drought.unl.edu/dm

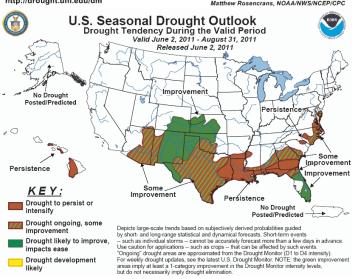
Intensity:

for forecast statements

D0 Abnom

D1 Drought - Mode

D2 Drought - Severe



June 7 – The latest U.S. Drought Monitor reports that minor amounts of rain made a dent in the drought across extreme northwestern Texas and northeastern New Mexico (with one station reporting 3.2 inches and surrounding stations reporting about an inch of precipitation. The rest of Texas and Oklahoma were dry, prompting some expansion of each drought category in those two states. The hot temperatures (above 100 degrees many days, meaning anomalies of more than 10 degrees above normal) and windy conditions continue to extract moisture from the soil. The atmospheric flow pattern is expected to bring significant precipitation to the northern Great Plains, Great Lakes, and from the Mid-Atlantic states to the Northeast. Multiple storm systems are forecast to move across these regions, with the most precipitation forecast for the Middle Mississippi River Valley.

According to the latest Drought Outlook (June 2), a classic and persistent La Niña precipitation pattern has dominated the country since Autumn 2010, resulting in broad areas of drought, especially through Texas and the southern High Plains. La Niña should loosen its grip through the meteorological summer of 2011, leaving much uncertainty about how conditions will evolve by the end of August. The forecasts of improvement for the parched areas of Texas and southern High Plains were driven by the approach of a neutral to climatologically wet season which should provide some moistening. There is nothing to indicate significant drought relief during the forecast period. In fact, prior to any seasonal increase in rainfall across the southern High Plains, conditions may well get worse before they get better.

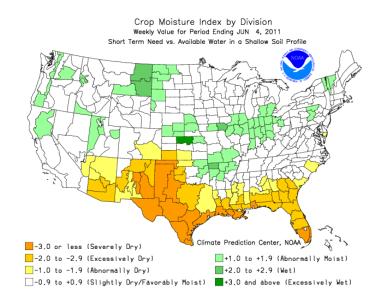
CROP REPORT

June 6, 2011 – Oklahoma experienced mild, dry weather for the majority of last week with statewide temperatures averaging 80 degrees. Very little rainfall was recorded across the state during the week. Notably, the Boise City Mesonet received a quarter-inch of rainfall last week, ending a 250-day dry spell for the area. In addition to the warm temperatures, the latter portion of the week was windy, with wind gusts up to 31 miles per hour. Portions of the state are still experiencing drought conditions and are still in need of rainfall. Topsoil moisture conditions decreased slightly to rate mostly in the short to very short range, with subsoil moisture conditions also rating mostly in the short to very short range. The mild weather allowed for a busy week of field activities, with 6.6 days suitable for field work.

Well ahead of normal, harvest activities accelerated last week. Wheat harvested increased significantly, jumping 32 points to reach 45 percent complete by Sunday. Rye harvested reached 22 percent complete by week's end. Oats headed reached 93 percent complete and 66 percent of the crop was in the soft dough stage by Sunday. Canola in the mature stage reached 98 percent complete by week's end, up seven points from the previous week, and 50 percent of the crop had been harvested, a 32 point increase from the previous week.

Row crop planting continued to progress steadily. Corn emerged reached 91 percent complete by Sunday. Sorghum seedbed preparation increased to 93 percent complete while 63 percent was planted and 26 percent of the crop had emerged by week's end. Soybean seedbed preparation was 84 percent complete while 54 percent of the crop was planted and 33 percent had emerged by Sunday. Peanut planting was 84 percent complete by week's end and 56 percent of the crop had emerged. Cotton planted was 55 percent complete and 14 percent of the crop had emerged by Sunday. The watermelon crop was completely planted by week's end and 65 percent of the plants were running vines.

Dry conditions last week allowed farmers to continue cutting and baling hay. Conditions continued to be rated mostly in the fair to very poor range. First cuttings of alfalfa reached 88 percent complete while second cuttings reached 18 percent complete, both behind the five-year average. First cuttings of other hay reached 40 percent complete by Sunday. Pasture and range conditions were mostly in the good to fair range. Pasture grasses are showing signs of stress due to the dry conditions. Livestock conditions were rated mostly in the good to fair range.



RESERVOIR STORAGE

- 15 reservoirs are currently operating at less than full capacity (compared to 10 four weeks ago).
- 21 reservoirs have experienced lake level decreases.

Storage in Selected Oklahoma Lakes & Reservoirs June 7, 2011								
Lake or Reservoir	Normal Pool Elevation (feet)	Previous Elevation 5/9/2011 (feet)	Current Elevation 6/7/2011 (feet)	Change in Elevation (feet)	Current Flood Control Storage (acre-feet)			
North Central	(leel)	(leel)	(leel)	(leel)	(ucre-leer)			
Fort Supply	2004.00	2004.29	2003.99	(0.30)	(17)			
Great Salt Plains	1125.00	1125.24	1124.81	(0.43)	(1,414)			
Kaw*	1013.00	1016.61	1011.02	(5.59)	(35,884)			
Northeast				(2121)	(22,22-)			
Birch	750.50	750.24	749.88	(0.36)	(706)			
Copan	710.00	710.11	710.87	0.76	3,964			
Fort Gibson	554.00	557.28	559.90	2.62	125,081			
Grand*	744.00	744.63	744.06	(0.57)	2,760			
Hudson	619.00	622.40	619.86	(2.54)	39,038			
Hulah	733.00	733.28	733.23	(0.05)	752			
Keystone*	723.00	723.25	724.31	1.06	23,496			
Oologah*	638.00	639.37	641.00	1.63	98,292			
Skiatook	714.00	708.77	708.46	(0.31)	(54,727)			
West Central				. ,	(, , ,			
Canton	1615.40	1615.47	1612.96	(2.51)	(18,460)			
Foss	1642.00	1640.36	1639.78	(0.58)	(14,548)			
Central				, ,	,			
Arcadia	1006.00	1006.08	1006.00	(80.0)	0			
Heyburn	761.50	761.73	761.59	(0.14)	126			
Thunderbird	1039.00	1035.86	1037.48	1.62	(9,016)			
East Central					,			
Eufaula*	585.00	587.73	587.21	(0.52)	219,241			
Tenkiller	632.00	656.46	635.24	(21.22)	42,540			
Southwest								
Fort Cobb	1342.00	1341.56	1341.78	0.22	(818)			
Lugert-Altus	1559.00	1545.19	1543.65	(1.54)	(75,148)			
Tom Steed	1411.00	1407.49	1407.64	0.15	(19,837)			
South Central								
Arbuckle	872.00	870.66	870.81	0.15	(2,753)			
McGee Creek**	175.90	176.47	176.11	(0.36)	2,648			
Texoma*	619.00	614.45	615.98	1.53	(227,464)			
Waurika*	951.40	950.00	950.26	0.26	(11,231)			
Southeast								
Broken Bow*	602.50	611.17	602.93	(8.24)	6,287			
Hugo*	407.50	410.53	407.84	(2.69)	5,056			
Pine Creek*	433.00	445.97	433.07	(12.90)	202			
Sardis	599.00	601.46	598.98	(2.48)	(268)			
Wister	478.00	499.72	480.15	(19.57)	14,405			

^{*} indicates seasonal pool operation

negative numbers in red, parentheses

^{**} elevation in meters

STREAMFLOW CONDITIONS





and period of record

Cimarron River near Waynoka



and period of record

North Fork of the Red River near Carter

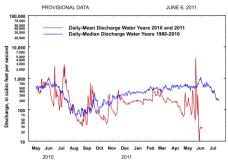


and period of record

Data from U.S. Geological Survey



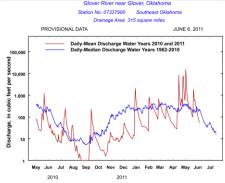
Canadian River at Purcell



arison of daily discharges for water years 2010 and 2011 and period of record

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Glover River near Glover



arison of daily discharges for water years 2010 and 2011

and period of record

Washita River near Dickson

PROVISIONAL DATA JUNE 6, 2011



and period of record

Data from U.S. Geological Survey

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.ok.gov and www.mesonet.org.