

## Storm Data and Unusual Weather Phenomena - March 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### ARKANSAS, Northwest

(AR-Z001) BENTON, (AR-Z002) CARROLL, (AR-Z010) WASHINGTON, (AR-Z011) MADISON, (AR-Z019) CRAWFORD, (AR-Z020) FRANKLIN, (AR-Z029) SEBASTIAN

03/01/13 00:00 CST	0	Drought
03/12/13 05:00 CST	0	

Widespread and much needed rainfall fell across much of northwestern and west central Arkansas during March 2013. This rainfall, combined with appreciable amounts from previous months, helped to alleviate the long-term drought across the region. By the middle of the month, severe drought (D2) conditions had improved to moderate drought (D1) conditions over all of northwest and west central Arkansas. Monetary damage estimates as a result of the drought were not available.

#### BENTON COUNTY --- MAYSVILLE [36.40, -94.58]

03/30/13 20:55 CST	0	Hail (0.75 in)
03/30/13 20:55 CST	0	Source: Emergency Manager

#### CARROLL COUNTY --- 6.0 WSW EUREKA SPGS [36.37, -93.83]

03/30/13 21:05 CST	0	Hail (1.00 in)
03/30/13 21:05 CST	0	Source: NWS Employee

#### BENTON COUNTY --- 3.4 NNW BELLA VISTA [36.48, -94.25]

03/30/13 21:34 CST	0	Hail (0.88 in)
03/30/13 21:34 CST	0	Source: Public

#### MADISON COUNTY --- 0.8 NNW MARBLE [36.14, -93.59]

03/30/13 21:41 CST	0	Hail (1.25 in)
03/30/13 21:41 CST	0	Source: Public

#### MADISON COUNTY --- KINGSTON [36.05, -93.52]

03/30/13 21:57 CST	0	Hail (1.00 in)
03/30/13 21:57 CST	0	Source: Public

Thunderstorms developed across southeastern Kansas and eastern Oklahoma during the evening hours of the 30th. The storms moved east-southeast into portions of northwestern Arkansas during the overnight hours. The stronger storms produced large hail.

### OKLAHOMA, Eastern

(OK-Z049) PUSHMATAHA, (OK-Z053) CHOCTAW, (OK-Z054) OSAGE, (OK-Z055) WASHINGTON, (OK-Z056) NOWATA, (OK-Z057) CRAIG, (OK-Z058) OTTAWA, (OK-Z059) PAWNEE, (OK-Z060) TULSA, (OK-Z061) ROGERS, (OK-Z062) MAYES, (OK-Z063) DELAWARE, (OK-Z064) CREEK, (OK-Z065) OKFUSKEE, (OK-Z066) OKMULGEE, (OK-Z067) WAGONER, (OK-Z068) CHEROKEE, (OK-Z069) ADAIR, (OK-Z070) MUSKOGEE, (OK-Z071) MCINTOSH, (OK-Z072) SEQUOYAH, (OK-Z073) PITTSBURG, (OK-Z074) HASKELL, (OK-Z075) LATIMER, (OK-Z076) LE FLORE

03/01/13 00:00 CST	0	Drought
03/31/13 23:59 CST	0	

Widespread and much needed rainfall fell across portions of eastern Oklahoma during March 2013. The exception was much of northeastern Oklahoma, where most locations received below half of the normal average precipitation for the month. Given the appreciable precipitation amounts that some of the area received in previous months, the additional rainfall that occurred this month helped to alleviate the long-term drought across some of the region. By the middle of the month, severe drought (D2) conditions had improved to moderate drought (D1) conditions over much of far eastern Oklahoma. Despite the improvement across some of the region, extreme drought (D3) conditions persisted across Creek, Osage, Pawnee, Washington, and Nowata Counties while severe drought (D2) conditions remained across Choctaw, Pushmataha, Pittsburg, McIntosh, Okfuskee, Okmulgee, Muskogee, Wagoner, Tulsa, Mayes, Rogers, and Craig Counties. Monetary damage estimates as a result of the drought were not available.

#### PUSHMATAHA COUNTY --- HONOBIA [34.53, -94.95]

03/18/13 06:35 CST	0	Hail (0.75 in)
03/18/13 06:35 CST	0	Source: Emergency Manager

A complex of showers and thunderstorms affected areas of eastern Oklahoma during the early morning of the 18th. A few of the

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<b>stronger storms produced small hail over parts of the affected area.</b>				
<b>TULSA COUNTY --- 2.8 SSW BROKEN ARROW ARPK [36.01, -95.89]</b>				
	03/29/13 20:46 CST	0		Hail (1.00 in)
	03/29/13 20:46 CST	0		Source: Public
<b>TULSA COUNTY --- 2.7 NNE BIXBY [35.99, -95.87]</b>				
	03/29/13 20:50 CST	0		Hail (1.00 in)
	03/29/13 20:50 CST	0		Source: Public
<b>TULSA COUNTY --- 4.0 NNE LEONARD [35.97, -95.77]</b>				
	03/29/13 21:18 CST	0		Hail (1.00 in)
	03/29/13 21:18 CST	0		Source: Trained Spotter
<b>WAGONER COUNTY --- 2.8 NNW KADASHAN [35.96, -95.76]</b>				
	03/29/13 22:12 CST	0		Hail (1.25 in)
	03/29/13 22:12 CST	0		Source: Trained Spotter
<b>Thunderstorms developed over parts of eastern Oklahoma during the evening of the 29th, to the north of a frontal boundary that had become nearly stationary across the area. The stronger storms produced large hail.</b>				
<b>TULSA COUNTY --- OWASSO [36.27, -95.85]</b>				
	03/30/13 18:20 CST	0		Hail (0.75 in)
	03/30/13 18:20 CST	0		Source: Public
<b>TULSA COUNTY --- 1.0 NE OWASSO [36.28, -95.84]</b>				
	03/30/13 18:25 CST	0		Hail (1.00 in)
	03/30/13 18:25 CST	0		Source: Public
<b>TULSA COUNTY --- OWASSO [36.27, -95.85]</b>				
	03/30/13 18:30 CST	0		Hail (1.00 in)
	03/30/13 18:30 CST	0		Source: Public
<b>OKFUSKEE COUNTY --- 4.0 SW BEARDEN [35.31, -96.43]</b>				
	03/30/13 18:45 CST	0		Hail (1.00 in)
	03/30/13 18:45 CST	0		Source: Public
<b>WAGONER COUNTY --- 8.0 NNE ONETA [36.13, -95.67]</b>				
	03/30/13 18:46 CST	0		Hail (1.00 in)
	03/30/13 18:46 CST	0		Source: Public
<b>ROGERS COUNTY --- 3.0 SE CATOOSA [36.15, -95.71]</b>				
	03/30/13 18:53 CST	0		Hail (0.88 in)
	03/30/13 18:53 CST	0		Source: Storm Chaser
<b>WAGONER COUNTY --- 8.6 NNE BROKEN ARROW [36.16, -95.71]</b>				
	03/30/13 18:53 CST	0		Hail (0.88 in)
	03/30/13 18:53 CST	0		Source: Emergency Manager
<b>OKMULGEE COUNTY --- HENRYETTA [35.45, -95.98]</b>				
	03/30/13 19:00 CST	0		Hail (0.88 in)
	03/30/13 19:00 CST	0		Source: Public
<b>ROGERS COUNTY --- 2.5 E TALALA [36.53, -95.64]</b>				
	03/30/13 19:40 CST	0		Hail (0.88 in)
	03/30/13 19:47 CST	0		Source: Trained Spotter
<b>ROGERS COUNTY --- 3.5 SW CATALE [36.54, -95.43]</b>				

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	03/30/13 19:45 CST		15K	Hail (1.75 in)
	03/30/13 19:45 CST		0	Source: NWS Employee
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<b>WAGONER COUNTY --- 1.5 SSW LA BARGE [35.96, -95.39]</b>				
	03/30/13 19:58 CST		0	Hail (1.00 in)
	03/30/13 19:58 CST		0	Source: Emergency Manager
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<b>CRAIG COUNTY --- 4.0 NW VINITA [36.69, -95.20]</b>				
	03/30/13 20:05 CST		0	Hail (1.00 in)
	03/30/13 20:05 CST		0	Source: Public
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<b>WAGONER COUNTY --- 2.0 E TULLAHASSEE [35.83, -95.39]</b>				
	03/30/13 20:20 CST		0	Hail (1.00 in)
	03/30/13 20:20 CST		0	Source: Amateur Radio
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<b>MUSKOGEE COUNTY --- 3.0 WNW FT GIBSON [35.82, -95.30]</b>				
	03/30/13 20:30 CST		25K	Hail (3.00 in)
	03/30/13 20:30 CST		0	Source: NWS Storm Survey
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<b>OTTAWA COUNTY --- 2.0 NE AFTON [36.72, -94.94]</b>				
	03/30/13 20:30 CST		0	Hail (1.00 in)
	03/30/13 20:30 CST		0	Source: Public
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<b>MUSKOGEE COUNTY --- 1.8 ESE WYBARK [35.81, -95.30], 2.2 WNW FT GIBSON [35.81, -95.29]</b>				
	03/30/13 20:35 CST		25K	Tornado (EF0, L: 1.00 mi , W: 200 yd)
	03/30/13 20:36 CST		0	Source: NWS Storm Survey
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This is the first segment of a two segment tornado. The tornado damaged a center-pivot irrigation system, snapped large tree limbs, damaged a permanent home, and damaged barns. Based on this damage, maximum estimated wind in this segment of the tornado was 80 to 85 mph. This tornado moved into Wagoner County and dissipated.				
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<b>MUSKOGEE COUNTY --- 1.1 SE HYDE PARK [35.77, -95.29]</b>				
	03/30/13 20:36 CST		20K	Hail (2.50 in)
	03/30/13 20:36 CST		0	Source: Trained Spotter
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<b>WAGONER COUNTY --- 2.5 E WYBARK [35.81, -95.29], 2.5 E WYBARK [35.81, -95.29]</b>				
	03/30/13 20:36 CST		5K	Tornado (EF0, L: 0.10 mi , W: 120 yd)
	03/30/13 20:37 CST		0	Source: NWS Storm Survey
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This is the second segment of a two segment tornado. The tornado moved into Wagoner County and blew down large tree limbs and a couple power poles before dissipating. Maximum estimated wind in this segment of the tornado based on this damage was 70 to 75 mph.				
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<b>MAYES COUNTY --- PRYOR [36.30, -95.32]</b>				
	03/30/13 20:39 CST		0	Hail (0.88 in)
	03/30/13 20:39 CST		0	Source: Amateur Radio
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<b>MUSKOGEE COUNTY --- FT GIBSON [35.80, -95.25]</b>				
	03/30/13 20:45 CST		0	Hail (1.00 in)
	03/30/13 20:45 CST		0	Source: Public
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<b>MAYES COUNTY --- 3.0 SE PRYOR [36.27, -95.28]</b>				
	03/30/13 20:46 CST		0	Hail (0.75 in)
	03/30/13 20:46 CST		0	Source: Public
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<b>OTTAWA COUNTY --- WYANDOTTE [36.80, -94.73]</b>				
	03/30/13 21:00 CST		0	Hail (0.88 in)
	03/30/13 21:00 CST		0	Source: Emergency Manager

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<b>PITTSBURG COUNTY --- 9.0 N ASHLAND [34.90, -96.07]</b>				
	03/30/13 21:09 CST		0	Hail (1.00 in)
	03/30/13 21:09 CST		0	Source: Public
<b>MAYES COUNTY --- 2.0 SE LOCUST GROVE [36.18, -95.14]</b>				
	03/30/13 21:11 CST		0	Hail (1.00 in)
	03/30/13 21:11 CST		0	Source: Emergency Manager
<b>PITTSBURG COUNTY --- ASHLAND [34.77, -96.07]</b>				
	03/30/13 21:45 CST		20K	Hail (1.75 in)
	03/30/13 21:45 CST		0	Source: Public
<b>SEQUOYAH COUNTY --- SALLISAW [35.47, -94.80]</b>				
	03/30/13 22:14 CST		0	Hail (1.00 in)
	03/30/13 22:14 CST		0	Source: Public
<b>SEQUOYAH COUNTY --- 1.3 SE SALLISAW [35.46, -94.78]</b>				
	03/30/13 22:18 CST		15K	Hail (1.75 in)
	03/30/13 22:18 CST		0	Source: Public
<b>SEQUOYAH COUNTY --- 2.0 N BOX [35.61, -94.98]</b>				
	03/30/13 22:19 CST		0	Hail (1.00 in)
	03/30/13 22:19 CST		0	Source: Public
<b>SEQUOYAH COUNTY --- 0.6 WSW SALLISAW ARPT [35.43, -94.81], 0.4 SSW SALLISAW ARPT [35.42, -94.80]</b>				
	03/30/13 22:20 CST		0.10M	Tornado (EF1, L: 0.50 mi , W: 175 yd)
	03/30/13 22:21 CST		0	Source: NWS Storm Survey
<p>A tornado developed atop a ridge south-southwest of Sallisaw. The tornado destroyed several wood-framed barns and snapped large tree limbs on top of the ridge then moved southeast damaging a permanent home and snapping power poles as it crossed Highway 59. Based on this damage, maximum estimated wind in the tornado was 100 to 110 mph.</p>				
<b>SEQUOYAH COUNTY --- SALLISAW [35.47, -94.80]</b>				
	03/30/13 22:30 CST		0	Hail (0.88 in)
	03/30/13 22:30 CST		0	Source: Amateur Radio
<b>SEQUOYAH COUNTY --- 2.2 SE MC KEY [35.46, -94.85]</b>				
	03/30/13 22:46 CST		0	Hail (1.00 in)
	03/30/13 22:46 CST		0	Source: Broadcast Media
<b>SEQUOYAH COUNTY --- 1.0 WSW SALLISAW [35.46, -94.82]</b>				
	03/30/13 22:53 CST		0	Hail (1.00 in)
	03/30/13 22:53 CST		0	Source: Public
<b>LE FLORE COUNTY --- SPIRO [35.23, -94.63]</b>				
	03/30/13 23:22 CST		0	Hail (1.00 in)
	03/30/13 23:22 CST		0	Source: Law Enforcement
<b>LE FLORE COUNTY --- CAMERON [35.13, -94.55]</b>				
	03/30/13 23:41 CST		0	Hail (0.88 in)
	03/30/13 23:41 CST		0	Source: Emergency Manager
<b>LE FLORE COUNTY --- CAMERON [35.13, -94.55]</b>				
	03/30/13 23:42 CST		0	Thunderstorm Wind (EG 57 kt)
	03/30/13 23:42 CST		0	Source: Post Office

Strong thunderstorm wind blew down large tree limbs.

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CHOCTAW COUNTY --- GRANT [33.93, -95.52]	03/31/13 06:34 CST		0	Thunderstorm Wind (EG 74 kt)
	03/31/13 06:34 CST		0	Source: Law Enforcement

Strong thunderstorm wind blew down trees.

Thunderstorms developed across southeastern Kansas and eastern Oklahoma during the evening hours of the 30th. The combination of instability and wind shear across the area resulted in supercell storm structures as these storms evolved. The storms moved east-southeast across much of eastern Oklahoma during the evening producing large hail up to three inches in diameter, damaging wind gusts, and two tornadoes.