

Storm Data and Unusual Weather Phenomena - September 2024

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA, Western, Central and Southeast				
(OK-Z012) GARFIELD, (OK-Z014) ROGER MILLS, (OK-Z016) CUSTER, (OK-Z017) BLAINE, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z023) CADDO, (OK-Z033) HARMON, (OK-Z034) GREER, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE, (OK-Z039) STEPHENS, (OK-Z044) COTTON				
	09/01/24 00:00 CST	0		Drought
	09/10/24 05:59 CST	0		
A very dry month of September, with monthly rainfall deficits of 2-3+ inches across central and southern portions of the forecast area, led to the expansion of severe (or worse) drought conditions.				
KINGFISHER COUNTY --- 5.9 ESE OMEGA [35.84, -98.10]				
	09/05/24 13:30 CST	0		Tornado (EF0, L: 0.10 mi , W: 10 yd)
	09/05/24 13:30 CST	0		Source: Storm Chaser
A storm chaser recorded a landspout in western Kingfisher County that developed below a Horizontal Convective Roll (HCR) approximately 2 miles south of Alpha OK. The time is estimated.				
A landspout developed west of Kingfisher on the afternoon of the 5th.				
(OK-Z012) GARFIELD, (OK-Z013) NOBLE, (OK-Z014) ROGER MILLS, (OK-Z016) CUSTER, (OK-Z017) BLAINE, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z023) CADDO, (OK-Z033) HARMON, (OK-Z034) GREER, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE, (OK-Z039) STEPHENS, (OK-Z044) COTTON, (OK-Z045) JEFFERSON, (OK-Z046) CARTER, (OK-Z050) LOVE, (OK-Z051) MARSHALL, (OK-Z052) BRYAN				
	09/10/24 06:00 CST	0		Drought
	09/30/24 23:59 CST	0		
A very dry month of September, with monthly rainfall deficits of 2-3+ inches across central and southern portions of the forecast area, led to the expansion of severe (or worse) drought conditions.				
KAY COUNTY --- 0.5 S BLACKWELL [36.79, -97.28]				
	09/19/24 15:58 CST	15K		Thunderstorm Wind (EG 52 kt)
	09/19/24 15:58 CST	0		Source: Emergency Manager
Relayed image showing a large tree limb blown down, landing on a parked vehicle. Location is approximate and time is radar estimated.				
Despite a dominant upper ridge across the Plains on the 19th, a trailing cold front associated with a strong upper system near the United States/Canada border helped foster scattered thunderstorms during the evening hours. Sufficient wind shear and instability promoted organized (supercell) thunderstorm modes with activity across northern and northeastern Oklahoma, where thunderstorm wind damage was observed.				
(OK-Z005) WOODS, (OK-Z006) ALFALFA, (OK-Z007) GRANT, (OK-Z008) KAY, (OK-Z011) MAJOR, (OK-Z012) GARFIELD, (OK-Z013) NOBLE, (OK-Z018) KINGFISHER, (OK-Z019) LOGAN, (OK-Z020) PAYNE, (OK-Z023) CADDO, (OK-Z024) CANADIAN, (OK-Z025) OKLAHOMA, (OK-Z026) LINCOLN, (OK-Z027) GRADY, (OK-Z028) MCCLAIN, (OK-Z030) POTTAWATOMIE, (OK-Z031) SEMINOLE, (OK-Z032) HUGHES, (OK-Z034) GREER, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z039) STEPHENS, (OK-Z040) GARVIN, (OK-Z041) MURRAY, (OK-Z042) PONTOTOC, (OK-Z043) COAL, (OK-Z044) COTTON, (OK-Z045) JEFFERSON, (OK-Z046) CARTER, (OK-Z047) JOHNSTON, (OK-Z048) ATOKA, (OK-Z050) LOVE, (OK-Z051) MARSHALL, (OK-Z052) BRYAN				
	09/20/24 11:00 CST	0		Heat
	09/20/24 17:30 CST	0		
Hot temperatures and high humidity combined to create dangerous heat indices (in excess of 105-degrees) across the western two-thirds of Oklahoma during the afternoon and evening of the 20th.				
(OK-Z038) COMANCHE				
	09/20/24 15:42 CST	0.16M		Wildfire
	09/27/24 12:00 CST	0		
The combination of warm, dry and breezy conditions created favorable conditions for fire starts and spread across southwestern Oklahoma on the 20th.				
WOODS COUNTY --- 13.6 NNE CAMP HOUSTON [36.99, -99.01]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	09/21/24 13:40 CST		0	Thunderstorm Wind (MG 52 kt)
	09/21/24 13:40 CST		0	Source: Mesonet

May Ranch (MAYR) Mesonet observation.

Scattered evening (on the 20th) convection across the southern High Plains congealed into a loosely organized convective system during the early morning of the 21st. This system produced a severe-caliber wind gust near the Oklahoma/Kansas border.

CLEVELAND COUNTY --- 0.7 ENE (OUN)NORMAN WESTHEIMER ARPT [35.26, -97.46]			
	09/22/24 11:43 CST	5K	Thunderstorm Wind (EG 52 kt)
	09/22/24 11:43 CST	0	Source: Other Federal Agency

Relayed image showing a high-tension (wooden) utility pole leaning due to thunderstorm winds. Time is radar estimated.

CLEVELAND COUNTY --- 1.4 W (OUN)NORMAN WESTHEIMER ARPT [35.25, -97.49], 1.4 W (OUN)NORMAN WESTHEIMER ARPT [35.25, -97.49], 1.4 W (OUN)NORMAN WESTHEIMER ARPT [35.25, -97.49], 1.4 W (OUN)NORMAN WESTHEIMER ARPT [35.25, -97.49]			
	09/22/24 12:30 CST	15K	Flash Flood (due to Heavy Rain)
	09/22/24 15:30 CST	0	Source: Public

A vehicle stalled in floodwaters at the intersection of 36th Avenue Northwest and Rock Creek Road. Event time is approximate.

CLEVELAND COUNTY --- 1.2 SSW NORMAN [35.20, -97.45], 1.2 SSW NORMAN [35.20, -97.45], 1.2 SSW NORMAN [35.20, -97.45], 1.2 SSW NORMAN [35.20, -97.45]			
	09/22/24 13:00 CST	0	Flash Flood (due to Heavy Rain)
	09/22/24 16:00 CST	0	Source: Public

Social media video showing roadway flooding at the intersection of Lindsey and Elm Streets. Event time is approximate.

A closed upper-level low moved across southeastern Colorado/southwestern Kansas on the 22nd. With increasing mid-level ascent, widespread showers and thunderstorms developed across the WFO Norman Forecast Area. Owing to meager instability, emerging convection was generally non-severe, though two stronger storms (producing wind damage) occurred in central Oklahoma and western-north Texas during the day. Localized flooding was also observed in the community of Norman, Oklahoma.

KINGFISHER COUNTY --- 5.1 S CASHION [35.73, -97.69]			
	09/24/24 16:52 CST	0	Hail (0.75 in)
	09/24/24 16:52 CST	0	Source: Public

MPing report.

OKLAHOMA COUNTY --- 5.5 W EDMOND [35.66, -97.58]			
	09/24/24 17:01 CST	0	Hail (0.75 in)
	09/24/24 17:01 CST	0	Source: Public

MPing report.

OKLAHOMA COUNTY --- 3.4 NW THE VILLAGE [35.61, -97.59]			
	09/24/24 17:02 CST	0	Hail (1.00 in)
	09/24/24 17:02 CST	0	Source: Public

MPing report.

OKLAHOMA COUNTY --- 3.2 WSW EDMOND [35.63, -97.53]			
	09/24/24 17:05 CST	0	Hail (1.10 in)
	09/24/24 17:05 CST	0	Source: Trained Spotter

OKLAHOMA COUNTY --- 3.3 N THE VILLAGE [35.62, -97.55]			
	09/24/24 17:05 CST	0	Hail (1.75 in)
	09/24/24 17:05 CST	0	Source: Public

Just northeast of Quail Springs Mall.

OKLAHOMA COUNTY --- 3.8 NNW THE VILLAGE [35.62, -97.57]			
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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details	
	09/24/24 17:05 CST		10K	Hail (2.00 in)	
	09/24/24 17:05 CST		0	Source: Public	
Vehicle windows broken due to hailfall.					
OKLAHOMA COUNTY --- 5.5 W EDMOND [35.66, -97.58]					
	09/24/24 17:05 CST		0	Hail (1.00 in)	
	09/24/24 17:05 CST		0	Source: Public	
MPing report.					
OKLAHOMA COUNTY --- 1.7 N THE VILLAGE [35.59, -97.55]					
	09/24/24 17:08 CST		0	Hail (2.33 in)	
	09/24/24 17:08 CST		0	Source: Trained Spotter	
Measured near the intersection of Northwest 122nd Street and Pennsylvania Avenue.					
OKLAHOMA COUNTY --- 5.9 W EDMOND [35.65, -97.58]					
	09/24/24 17:08 CST		0	Hail (1.50 in)	
	09/24/24 17:08 CST		0	Source: Public	
Social media image. Time is radar estimated.					
OKLAHOMA COUNTY --- 3.1 WNW EDMOND [35.67, -97.53]					
	09/24/24 17:09 CST		0	Hail (1.50 in)	
	09/24/24 17:09 CST		0	Source: Public	
MPing report.					
OKLAHOMA COUNTY --- 3.7 N THE VILLAGE [35.62, -97.55]					
	09/24/24 17:09 CST		10K	Hail (2.75 in)	
	09/24/24 17:09 CST		0	Source: Trained Spotter	
Vehicle windows broken due to hailfall.					
OKLAHOMA COUNTY --- 2.3 NNE THE VILLAGE [35.60, -97.54]					
	09/24/24 17:10 CST		0	Hail (1.75 in)	
	09/24/24 17:10 CST		0	Source: Public	
OKLAHOMA COUNTY --- 2.7 NNE THE VILLAGE [35.61, -97.53]					
	09/24/24 17:10 CST			0	Hail (2.00 in)
	09/24/24 17:10 CST	0		Source: Public	
Social media image. Time is radar estimated.					
OKLAHOMA COUNTY --- 2.9 NNW THE VILLAGE [35.61, -97.57]					
	09/24/24 17:10 CST		0	Hail (1.75 in)	
	09/24/24 17:10 CST		0	Source: NWS Employee	
Social media image. Time is radar estimated.					
OKLAHOMA COUNTY --- 4.0 WSW EDMOND [35.64, -97.55]					
	09/24/24 17:10 CST		0	Hail (2.50 in)	
	09/24/24 17:10 CST		0	Source: Other Federal Agency	
Social media image with ruler measurement. Time is radar estimated.					
OKLAHOMA COUNTY --- 4.4 N THE VILLAGE [35.63, -97.56]					
	09/24/24 17:10 CST		0	Hail (1.75 in)	
	09/24/24 17:10 CST		0	Source: Public	
MPing report.					

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA COUNTY --- 2.8 NE THE VILLAGE [35.60, -97.52]				
	09/24/24 17:12 CST		0	Hail (1.25 in)
	09/24/24 17:12 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 4.1 N THE VILLAGE [35.63, -97.55]				
	09/24/24 17:12 CST		0	Hail (1.75 in)
	09/24/24 17:12 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 1.8 NE NICHOLS HILLS [35.57, -97.51]				
	09/24/24 17:13 CST		0	Hail (1.75 in)
	09/24/24 17:15 CST		0	Source: Emergency Manager
Hail size increased from quarter to golf ball between 1713 and 1715 LST.				
OKLAHOMA COUNTY --- 2.4 W EDMOND [35.65, -97.52]				
	09/24/24 17:13 CST		0	Hail (1.50 in)
	09/24/24 17:13 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 3.0 WSW EDMOND [35.64, -97.53]				
	09/24/24 17:13 CST		0	Hail (1.75 in)
	09/24/24 17:13 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 1.0 SSE EDMOND [35.64, -97.47]				
	09/24/24 17:15 CST		0	Hail (1.50 in)
	09/24/24 17:15 CST		0	Source: Emergency Manager
Relayed image. Time is radar estimated.				
OKLAHOMA COUNTY --- 1.5 E NICHOLS HILLS [35.55, -97.51]				
	09/24/24 17:15 CST		0	Hail (1.50 in)
	09/24/24 17:15 CST		0	Source: Other Federal Agency
Social media report.				
OKLAHOMA COUNTY --- 1.6 WSW EDMOND [35.64, -97.50]				
	09/24/24 17:15 CST		0	Hail (1.25 in)
	09/24/24 17:15 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 2.7 NE THE VILLAGE [35.60, -97.51]				
	09/24/24 17:17 CST		0	Hail (1.50 in)
	09/24/24 17:17 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 2.7 SW EDMOND [35.63, -97.52]				
	09/24/24 17:18 CST		0	Hail (1.50 in)
	09/24/24 17:18 CST		0	Source: Public
MPing report. Based on radar evidence, hailfall likely occurred prior (1710-1715 LST) to report time.				
OKLAHOMA COUNTY --- 2.8 E NICHOLS HILLS [35.55, -97.49]				

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	09/24/24 17:22 CST		0	Hail (1.00 in)
	09/24/24 17:22 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 0.9 NE NICHOLS HILLS [35.56, -97.53]				
	09/24/24 17:25 CST		0	Hail (1.25 in)
	09/24/24 17:25 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 1.7 WNW FOREST PARK [35.52, -97.48]				
	09/24/24 17:26 CST		0	Hail (1.75 in)
	09/24/24 17:38 CST		0	Source: Emergency Manager
Severe hailfall occurred between 1726 and 1738 LST, with hailstone diameters as large as 1.75 inches (golf ball size).				
OKLAHOMA COUNTY --- 2.4 NW FOREST PARK [35.54, -97.48]				
	09/24/24 17:30 CST		0	Hail (1.75 in)
	09/24/24 17:30 CST		0	Source: Public
Time is radar estimated.				
OKLAHOMA COUNTY --- 2.6 N OKLAHOMA CITY [35.51, -97.50]				
	09/24/24 17:34 CST		0	Hail (1.50 in)
	09/24/24 17:34 CST		0	Source: Emergency Manager
Relayed image.				
OKLAHOMA COUNTY --- 0.3 SW DEL CITY [35.45, -97.44]				
	09/24/24 17:38 CST		0	Hail (1.00 in)
	09/24/24 17:38 CST		0	Source: Public
MPing report.				
OKLAHOMA COUNTY --- 0.8 W OKLAHOMA CITY [35.47, -97.52]				
	09/24/24 17:40 CST		0	Hail (1.00 in)
	09/24/24 17:40 CST		0	Source: Other Federal Agency
Social media image with ruler measurement.				
OKLAHOMA COUNTY --- DEL CITY [35.45, -97.44]				
	09/24/24 17:40 CST		0	Hail (2.00 in)
	09/24/24 17:40 CST		0	Source: Public
Social media image. Time is radar estimated.				
OKLAHOMA COUNTY --- 2.3 ESE VALLEY BROOK [35.39, -97.44]				
	09/24/24 17:45 CST		0	Hail (2.10 in)
	09/24/24 17:45 CST		0	Source: Public
Measured near the intersection of Sunnyslane Road and Interstate 240.				
OKLAHOMA COUNTY --- 2.4 SW (TIK)TINKER AFB [35.39, -97.42]				
	09/24/24 17:45 CST		0	Hail (2.25 in)
	09/24/24 17:45 CST		0	Source: Trained Spotter
Multiple social media images showing hailstones with ruler-measured diameters of around 2.25 inches.				
CLEVELAND COUNTY --- 3.1 NE MOORE [35.38, -97.46]				
	09/24/24 17:50 CST		0	Hail (1.57 in)
	09/24/24 17:50 CST		0	Source: Public

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Social media image with digital caliper measurement. Time is radar estimated.				
CLEVELAND COUNTY --- 1.9 SE MOORE [35.32, -97.46]				
	09/24/24 17:59 CST		0	Hail (0.75 in)
	09/24/24 17:59 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 4.0 ESE MOORE [35.32, -97.42]				
	09/24/24 17:59 CST		0	Hail (1.50 in)
	09/24/24 17:59 CST		0	Source: Amateur Radio
CLEVELAND COUNTY --- 2.9 SE MOORE [35.32, -97.45]				
	09/24/24 18:02 CST		0	Hail (1.00 in)
	09/24/24 18:02 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 4.1 WSW STANLEY DRAPER LAKE DAM [35.31, -97.42]				
	09/24/24 18:02 CST		0	Hail (1.00 in)
	09/24/24 18:02 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 2.3 NNE NORMAN [35.25, -97.42]				
	09/24/24 18:04 CST		0	Hail (0.75 in)
	09/24/24 18:04 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 2.5 ENE (OUN)NORMAN WESTHEIMER ARPT [35.27, -97.43]				
	09/24/24 18:12 CST		0	Hail (1.00 in)
	09/24/24 18:12 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 2.1 NNE NORMAN [35.25, -97.42]				
	09/24/24 18:14 CST		0	Hail (1.25 in)
	09/24/24 18:14 CST		0	Source: Other Federal Agency
Social media image with ruler measurement. Time is radar estimated.				
CLEVELAND COUNTY --- 4.5 SSW STANLEY DRAPER LAKE DAM [35.27, -97.37]				
	09/24/24 18:16 CST		0	Hail (1.25 in)
	09/24/24 18:16 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 4.7 ENE NORMAN [35.24, -97.36]				
	09/24/24 18:19 CST		0	Hail (1.25 in)
	09/24/24 18:19 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 3.5 ESE NORMAN [35.21, -97.38]				
	09/24/24 18:20 CST		0	Hail (1.00 in)
	09/24/24 18:20 CST		0	Source: Public
MPing report.				
CLEVELAND COUNTY --- 5.4 NE NOBLE [35.20, -97.34]				

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	09/24/24 18:20 CST		0	Hail (1.75 in)
	09/24/24 18:20 CST		0	Source: Public
CLEVELAND COUNTY --- 5.6 W LAKE THUNDERBIRD DAM [35.21, -97.32]	09/24/24 18:20 CST		0	Hail (2.00 in)
	09/24/24 18:20 CST		0	Source: Storm Chaser
Social media image with ruler measurement.				
CLEVELAND COUNTY --- 1.6 SW LAKE THUNDERBIRD DAM [35.20, -97.24]	09/24/24 18:25 CST		0	Hail (1.50 in)
	09/24/24 18:25 CST		0	Source: Public
CLEVELAND COUNTY --- 4.9 NNE NOBLE [35.20, -97.35]	09/24/24 18:25 CST		0	Hail (1.75 in)
	09/24/24 18:25 CST		0	Source: NWS Employee
CLEVELAND COUNTY --- 4.9 NE NOBLE [35.19, -97.33]	09/24/24 18:29 CST		0	Hail (1.50 in)
	09/24/24 18:29 CST		0	Source: Public
MPing report.				
LINCOLN COUNTY --- 7.0 NNE PRAGUE [35.58, -96.63]	09/24/24 19:51 CST		0	Hail (0.75 in)
	09/24/24 19:51 CST		0	Source: Public
MPing report.				
PONTOTOC COUNTY --- 6.0 SW ALLEN [34.82, -96.48]	09/24/24 21:55 CST		0	Thunderstorm Wind (EG 52 kt)
	09/24/24 21:55 CST		0	Source: Public
Social media image showing tree branches blown down. Time is radar estimated.				
MURRAY COUNTY --- 6.7 E DOUGHERTY [34.41, -96.93]	09/24/24 22:50 CST		0	Hail (0.88 in)
	09/24/24 22:50 CST		0	Source: Trained Spotter
Report relayed through Spotter Network. Time is radar estimated.				
A high-amplitude upper wave moved into portions of the Upper Mississippi Valley during the day on the 24th. A surface low/warm front intersection, propagating to the southeast across Oklahoma, was the focal point for convective development during the early evening. With strong wind shear and modest instability in place, supercell storm modes emerged with initial activity. One of these thunderstorms impacted the northern/central/southeastern portions of the Oklahoma City Metropolitan area, producing reports of large to very large hail (and associated hail damage). Additional strong to severe storms continued to emerge along the southward advancing front into the late evening, yielding sporadic reports of hail and strong winds.				
(OK-Z020) PAYNE	09/25/24 03:00 CST		50K	Dense Fog
	09/25/24 07:00 CST		0	
Areas of dense fog developed during the predawn hours of the 25th across central and east-central Oklahoma. Low visibility was reported to have played a role in a multi-vehicle accident in Payne County.				

TEXAS, Western North

(TX-Z083) HARDEMAN, (TX-Z084) FOARD, (TX-Z085) WILBARGER, (TX-Z086) WICHITA, (TX-Z089) ARCHER, (TX-Z090) CLAY

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	09/01/24 00:00 CST		0	Drought
	09/30/24 23:59 CST		0	

A very dry month of September, with monthly rainfall deficits of 2-3+ inches across central and southern portions of the forecast area, led to the expansion of severe (or worse) drought conditions.

(TX-Z086) WICHITA, (TX-Z089) ARCHER	09/06/24 10:27 CST		0	Wildfire
	09/06/24 18:33 CST		0	

The combination of warm, dry and breezy conditions created favorable conditions for fire starts and spread across western-north Texas on the 6th.

BAYLOR COUNTY --- 2.2 SW SEYMOUR MUNI ARPT [33.63, -99.29]	09/15/24 18:07 CST		0	Thunderstorm Wind (MG 51 kt)
	09/15/24 18:07 CST		0	Source: Mesonet

Seymour (SEYM) Mesonet observation.

Scattered diurnal convection developed across western-north Texas during the evening of the 15th. Amidst weak wind shear and sufficient instability, multi-cellular convection was dominant. A mesonet site observed a severe-caliber wind gust near the community of Seymour, Texas.

WICHITA COUNTY --- 0.8 S (SPS)SHEPPARD AFB [33.98, -98.49]	09/22/24 19:11 CST		0	Thunderstorm Wind (MG 55 kt)
	09/22/24 19:11 CST		0	Source: ASOS

Wichita Falls, Sheppard Air Force Base (KSPS) observation.

A closed upper-level low moved across southeastern Colorado/southwestern Kansas on the 22nd. With increasing mid-level ascent, widespread showers and thunderstorms developed across the WFO Norman Forecast Area. Owing to meager instability, emerging convection was generally non-severe, though two stronger storms (producing wind damage) occurred in central Oklahoma and western-north Texas during the day.