

Storm Data and Unusual Weather Phenomena - March 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
OKLAHOMA, Western, Central and Southeast				
(OK-Z004) HARPER, (OK-Z005) WOODS, (OK-Z006) ALFALFA, (OK-Z007) GRANT, (OK-Z008) KAY, (OK-Z009) ELLIS, (OK-Z010) WOODWARD, (OK-Z011) MAJOR, (OK-Z012) GARFIELD, (OK-Z013) NOBLE, (OK-Z014) ROGER MILLS, (OK-Z015) DEWEY, (OK-Z016) CUSTER, (OK-Z017) BLAINE, (OK-Z018) KINGFISHER, (OK-Z019) LOGAN, (OK-Z020) PAYNE, (OK-Z021) BECKHAM, (OK-Z022) WASHITA, (OK-Z023) CADDO, (OK-Z024) CANADIAN, (OK-Z025) OKLAHOMA, (OK-Z026) LINCOLN, (OK-Z027) GRADY, (OK-Z028) MCCLAIN, (OK-Z029) CLEVELAND, (OK-Z030) POTTAWATOMIE, (OK-Z031) SEMINOLE, (OK-Z032) HUGHES, (OK-Z033) HARMON, (OK-Z034) GREER, (OK-Z035) KIOWA, (OK-Z036) JACKSON, (OK-Z037) TILLMAN, (OK-Z038) COMANCHE, (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				
	03/01/13 00:00 CST		0	Drought
	03/31/13 23:59 CST		0	
Precipitation totals for March were below normal across most of central and western Oklahoma, resulting in a continuation of the long-term drought.				
(OK-Z038) COMANCHE				
	03/04/13 21:35 CST		0	High Wind (MAX 55 kt)
	03/04/13 23:35 CST		0	
An unseasonably strong cold front surged across Oklahoma during the afternoon and evening of the 4th and early morning of the 5th. A tight pressure gradient and strong cold air advection resulted in multiple strong to severe wind gusts across portions of Oklahoma. No significant wind damage was reported, though a few severe wind gusts did occur over parts of Comanche county in southwest Oklahoma.				
STEPHENS COUNTY --- 0.9 SW SUNRAY [34.41, -97.97]				
	03/09/13 13:35 CST		0	Hail (1.00 in)
	03/09/13 13:35 CST		0	Source: Trained Spotter
No damage was reported.				
CLEVELAND COUNTY --- 3.7 ENE NORMAN [35.24, -97.38]				
	03/09/13 13:50 CST		1.50K	Thunderstorm Wind (EG 52 kt)
	03/09/13 13:50 CST		0	Source: Trained Spotter
Large tree limbs of 10 to 12 inches in diameter were downed at the intersection if 48th Avenue Northeast and East Robinson Street in Norman. Damages estimated.				
CLEVELAND COUNTY --- 3.7 ENE NORMAN [35.24, -97.38]				
	03/09/13 13:56 CST		0	Thunderstorm Wind (EG 55 kt)
	03/09/13 13:56 CST		0	Source: Trained Spotter
No damages were reported.				
JEFFERSON COUNTY --- 3.5 N TERRAL [33.95, -97.94]				
	03/09/13 14:14 CST		0	Hail (2.50 in)
	03/09/13 14:14 CST		0	Source: Trained Spotter
No damage was reported.				
LOVE COUNTY --- THACKERVILLE [33.79, -97.14]				
	03/09/13 15:24 CST		0	Hail (1.00 in)
	03/09/13 15:24 CST		0	Source: Law Enforcement
No damage was reported.				
LOVE COUNTY --- 0.7 S MARIETTA [33.93, -97.12]				
	03/09/13 16:24 CST		0	Hail (1.00 in)
	03/09/13 16:24 CST		0	Source: Law Enforcement
No damage was reported.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
STEPHENS COUNTY --- 0.9 SW SUNRAY [34.41, -97.97]				
	03/09/13 20:38 CST		0	Hail (1.00 in)
	03/09/13 20:38 CST		0	Source: Trained Spotter
No damage was reported.				
A potent upper level storm system moved across the Central Plains during the afternoon and evening hours of March 9th. A strong cold front surged across Oklahoma during the afternoon hours, generating a broken line of thunderstorms. As these storms encountered better low level moisture, a few of them became severe, producing very large hail and damaging wind gusts.				
CANADIAN COUNTY --- CONCHO [35.61, -97.99]				
	03/29/13 08:31 CST		0	Hail (1.00 in)
	03/29/13 08:31 CST		0	Source: Public
GRADY COUNTY --- 2.4 SSE CHICKASHA ARPT [35.05, -97.95]				
	03/29/13 08:37 CST		0	Hail (1.00 in)
	03/29/13 08:37 CST		0	Source: Public
CANADIAN COUNTY --- 6.3 ENE UNION CITY [35.43, -97.84]				
	03/29/13 08:50 CST		0	Hail (1.00 in)
	03/29/13 08:50 CST		0	Source: Trained Spotter
GARVIN COUNTY --- WYNNEWOOD [34.64, -97.16]				
	03/29/13 10:41 CST		0	Hail (1.00 in)
	03/29/13 10:41 CST		0	Source: Public
JOHNSTON COUNTY --- 0.6 E BROMIDE [34.42, -96.49]				
	03/29/13 11:38 CST		0	Hail (1.75 in)
	03/29/13 11:38 CST		0	Source: Public
CANADIAN COUNTY --- 0.7 N CONCHO [35.62, -97.99]				
	03/29/13 17:00 CST		0	Hail (1.00 in)
	03/29/13 17:00 CST		0	Source: Trained Spotter
CANADIAN COUNTY --- 4.5 W RICHLAND [35.58, -97.88]				
	03/29/13 17:17 CST		0	Hail (1.75 in)
	03/29/13 17:17 CST		0	Source: Public
The hail lasted for 10 minutes.				
CANADIAN COUNTY --- 3.2 NNE CONCHO [35.65, -97.96]				
	03/29/13 17:28 CST		0	Hail (1.25 in)
	03/29/13 17:28 CST		0	Source: Trained Spotter
CANADIAN COUNTY --- 4.1 NNE CONCHO [35.66, -97.95]				
	03/29/13 17:37 CST		0	Hail (1.50 in)
	03/29/13 17:37 CST		0	Source: Trained Spotter
TILLMAN COUNTY --- 0.6 E FREDERICK [34.39, -99.01]				
	03/29/13 17:37 CST		0	Thunderstorm Wind (EG 56 kt)
	03/29/13 17:37 CST		0	Source: ASOS
Frederick ASOS measured a wind gust to 56 knots. No damage was reported.				
CANADIAN COUNTY --- 1.1 W RICHLAND [35.58, -97.82]				
	03/29/13 17:40 CST		0	Hail (1.00 in)
	03/29/13 17:40 CST		0	Source: Public

The hail lasted for 20 minutes and covered the ground.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CANADIAN COUNTY --- 2.2 SE RICHLAND [35.56, -97.77]				
	03/29/13 17:40 CST		0	Hail (1.25 in)
	03/29/13 17:40 CST		0	Source: Public
The hail lasted 20 minutes.				
CANADIAN COUNTY --- 2.9 WNW RICHLAND [35.59, -97.85]				
	03/29/13 17:40 CST		0	Hail (1.75 in)
	03/29/13 17:40 CST		0	Source: Public
The hail lasted for 20 minutes.				
CANADIAN COUNTY --- 4.0 E CONCHO [35.60, -97.92]				
	03/29/13 17:42 CST		0	Hail (2.50 in)
	03/29/13 17:42 CST		0	Source: Trained Spotter
CANADIAN COUNTY --- 2.3 E RICHLAND [35.58, -97.76]				
	03/29/13 17:45 CST		0	Hail (1.00 in)
	03/29/13 17:45 CST		0	Source: Public
The hail lasted for 30 minutes.				
CANADIAN COUNTY --- 5.7 E CONCHO [35.62, -97.89]				
	03/29/13 17:47 CST		0	Hail (2.25 in)
	03/29/13 17:47 CST		0	Source: Trained Spotter
CANADIAN COUNTY --- 2.2 SW RICHLAND [35.56, -97.83]				
	03/29/13 17:50 CST		0	Hail (1.00 in)
	03/29/13 17:50 CST		0	Source: Public
The hail lasted for 15 minutes.				
CANADIAN COUNTY --- 4.7 SSE PIEDMONT [35.58, -97.71]				
	03/29/13 18:00 CST		0	Hail (1.00 in)
	03/29/13 18:00 CST		0	Source: Trained Spotter
LOGAN COUNTY --- LOVELL [36.06, -97.64], 0.9 SE LOVELL [36.05, -97.63]				
	03/29/13 18:34 CST		0	Hail (2.50 in)
	03/29/13 18:34 CST		0	Source: Emergency Manager
Hail ranged from golf ball to tennis ball size and covered the ground.				
LOGAN COUNTY --- 2.1 S CIMARRON CITY [35.86, -97.60]				
	03/29/13 18:45 CST		0	Hail (1.75 in)
	03/29/13 18:45 CST		0	Source: Trained Spotter
PAYNE COUNTY --- 0.9 SW (SWO)STILLWATER AIRPORT [36.15, -97.10]				
	03/29/13 19:20 CST		0	Hail (1.00 in)
	03/29/13 19:20 CST		0	Source: Emergency Manager
LOGAN COUNTY --- 3.4 ENE SEWARD [35.81, -97.43]				
	03/29/13 19:43 CST		0	Hail (1.00 in)
	03/29/13 19:43 CST		0	Source: Trained Spotter
Hail fell near the intersection of Seward and Sooner Rd.				

Several days of southerly return flow and mild temperatures lead to a moderately unstable airmass over most of Oklahoma. A stalled frontal boundary combined with mid level west-northwesterly flow of 35-45 knots proved favorable for isolated severe thunderstorm development during the late afternoon and evening hours of the 29th. Significant hail was reported in a few locations, along with damaging winds and torrential rainfall.

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COMANCHE COUNTY --- 3.2 ESE WICHITA MTNS NWR HQ [34.71, -98.66]				
	03/30/13 17:15 CST		0	Hail (1.00 in)
	03/30/13 17:15 CST		0	Source: Park/Forest Service
The hail was reported at Camp Doris in the Wichita Mountains Wildlife Refuge.				
COMANCHE COUNTY --- 0.6 E CACHE [34.63, -98.62]				
	03/30/13 17:20 CST		0	Hail (1.50 in)
	03/30/13 17:20 CST		0	Source: Trained Spotter
COMANCHE COUNTY --- 1.5 NNW MT SCOTT [34.76, -98.54]				
	03/30/13 17:25 CST		0	Hail (1.00 in)
	03/30/13 17:25 CST		0	Source: Trained Spotter
COMANCHE COUNTY --- 6.6 SE CACHE [34.57, -98.54]				
	03/30/13 17:30 CST		0	Hail (1.25 in)
	03/30/13 17:30 CST		0	Source: Public
Hail fell near the intersection of Deyo Mission Rd. and SW Woodlawn Dr.				
COMANCHE COUNTY --- 0.6 E CACHE [34.63, -98.62]				
	03/30/13 17:33 CST		0	Hail (1.75 in)
	03/30/13 17:33 CST		0	Source: Trained Spotter
COMANCHE COUNTY --- 1.7 E CACHE [34.63, -98.60]				
	03/30/13 17:42 CST		0	Hail (2.30 in)
	03/30/13 17:42 CST		0	Source: Trained Spotter
COMANCHE COUNTY --- 7.0 SE CACHE [34.56, -98.54]				
	03/30/13 18:01 CST		0	Hail (1.25 in)
	03/30/13 18:01 CST		0	Source: Trained Spotter
COMANCHE COUNTY --- 7.5 SE CACHE [34.56, -98.53]				
	03/30/13 18:04 CST		0	Hail (1.00 in)
	03/30/13 18:04 CST		0	Source: Trained Spotter
SEMINOLE COUNTY --- 0.9 NE SCHOOLTON [35.40, -96.45]				
	03/30/13 18:12 CST		0	Hail (1.25 in)
	03/30/13 18:12 CST		0	Source: Trained Spotter
COMANCHE COUNTY --- 2.8 S LAKE ELLSWORTH DAM [34.75, -98.37]				
	03/30/13 18:27 CST		0	Hail (1.75 in)
	03/30/13 18:27 CST		0	Source: Trained Spotter
SEMINOLE COUNTY --- 1.8 NE SEMINOLE [35.25, -96.66]				
	03/30/13 18:30 CST		0	Hail (1.75 in)
	03/30/13 18:30 CST		0	Source: Trained Spotter
The hail was measured at a private residence on Brandon Dr.				
COTTON COUNTY --- 1.3 ENE WALTERS ARPT [34.38, -98.39]				
	03/30/13 19:02 CST		0	Hail (1.00 in)
	03/30/13 19:02 CST		0	Source: Trained Spotter
SEMINOLE COUNTY --- 0.9 SW WEWOKA [35.14, -96.50]				
	03/30/13 19:25 CST		0	Hail (1.00 in)
	03/30/13 19:25 CST		0	Source: Fire Department/Rescue

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GRADY COUNTY --- 5.0 NW CHICKASHA ARPT [35.14, -98.02]				
	03/30/13 19:33 CST		0	Hail (1.00 in)
	03/30/13 19:33 CST		0	Source: Trained Spotter
HUGHES COUNTY --- HOLDENVILLE [35.08, -96.40]				
	03/30/13 19:54 CST		0	Hail (1.00 in)
	03/30/13 19:54 CST		0	Source: Emergency Manager
GRADY COUNTY --- 2.9 WNW TABLER [35.05, -97.87]				
	03/30/13 20:00 CST		0	Hail (1.00 in)
	03/30/13 20:00 CST		0	Source: Trained Spotter
HUGHES COUNTY --- 4.7 NNE GERTY [34.90, -96.25]				
	03/30/13 20:43 CST		0	Hail (1.25 in)
	03/30/13 20:43 CST		0	Source: Trained Spotter
The hail lasted for about 10 minutes.				
ATOKA COUNTY --- 2.8 NNW CHOCKIE [34.62, -96.01]				
	03/30/13 22:30 CST		0.20M	Hail (2.50 in)
	03/30/13 22:30 CST		0	Source: Trained Spotter
The hail damaged cars, and covered the ground for hours. Damages estimated.				
WASHITA COUNTY --- 2.9 WNW CANUTE [35.43, -99.33]				
	03/31/13 01:46 CST		0	Hail (1.00 in)
	03/31/13 01:46 CST		0	Source: Trained Spotter
Hail accumulated and drifted.				
CADDO COUNTY --- BINGER [35.31, -98.34]				
	03/31/13 02:20 CST		1K	Thunderstorm Wind (EG 52 kt)
	03/31/13 02:20 CST		0	Source: Fire Department/Rescue
Branches were downed by the wind, with nickel size hail also reported.				
WASHITA COUNTY --- 0.9 NE CORDELL [35.30, -98.98]				
	03/31/13 02:30 CST		0	Hail (1.00 in)
	03/31/13 02:30 CST		0	Source: Trained Spotter
OKLAHOMA COUNTY --- 1.5 NNW WHEATLAND [35.42, -97.66]				
	03/31/13 02:32 CST		0	Hail (1.50 in)
	03/31/13 02:32 CST		0	Source: Public
CLEVELAND COUNTY --- 2.4 WSW (OUN)NORMAN WESTHEIMER ARPT [35.24, -97.51]				
	03/31/13 02:52 CST		0	Hail (1.25 in)
	03/31/13 02:52 CST		0	Source: Public
CLEVELAND COUNTY --- NORMAN [35.22, -97.44]				
	03/31/13 02:54 CST		0	Hail (1.25 in)
	03/31/13 02:54 CST		0	Source: Trained Spotter
CLEVELAND COUNTY --- 0.7 S (OUN)NORMAN WESTHEIMER ARPT [35.24, -97.47]				
	03/31/13 02:55 CST		0	Thunderstorm Wind (MG 51 kt)
	03/31/13 02:55 CST		0	Source: AWOS

The ASOS at Max Westheimer Airport in Norman measured a 59 mph wind gust.

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CLEVELAND COUNTY --- NORMAN [35.22, -97.44]				
	03/31/13 02:55 CST		0	Hail (1.00 in)
	03/31/13 02:55 CST		0	Source: Public
The hail was reported at Northwest 36th and Main St.				
CLEVELAND COUNTY --- 1.8 WSW NORMAN [35.21, -97.47]				
	03/31/13 03:00 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/13 03:00 CST		0	Source: Public
Public reported a gust to 60 mph.				
CLEVELAND COUNTY --- 1.8 WSW NORMAN [35.21, -97.47]				
	03/31/13 03:00 CST		2M	Hail (2.00 in)
	03/31/13 03:00 CST		0	Source: Public
The hail was reported at Southwest 24th St. and Brooks St. Hail of this size was reported at several locations across southwest Norman, and resulted in extensive damage. Numerous vehicles were damaged and some 85 homes lost windows from blowing hail. Damages estimated based on media reports and number and type of damaged structures.				
CLEVELAND COUNTY --- 2.1 S NOBLE [35.11, -97.39]				
	03/31/13 03:00 CST		0	Hail (1.75 in)
	03/31/13 03:00 CST		0	Source: Trained Spotter
CLEVELAND COUNTY --- 2.4 SSW NORMAN [35.19, -97.46]				
	03/31/13 03:00 CST		0	Hail (1.75 in)
	03/31/13 03:00 CST		0	Source: Public
CLEVELAND COUNTY --- 3.0 SSE NORMAN [35.18, -97.42]				
	03/31/13 03:00 CST		0	Hail (1.00 in)
	03/31/13 03:00 CST		0	Source: NWS Employee
The hail was measured at the NWS Forecast Office.				
CLEVELAND COUNTY --- NORMAN [35.22, -97.44]				
	03/31/13 03:00 CST		0	Hail (1.25 in)
	03/31/13 03:00 CST		0	Source: Trained Spotter
The hail was reported at the intersection of Flood and Cruce St.				
CLEVELAND COUNTY --- 0.9 SW NORMAN [35.21, -97.45]				
	03/31/13 03:05 CST		0	Hail (1.25 in)
	03/31/13 03:05 CST		0	Source: Trained Spotter
CLEVELAND COUNTY --- 0.6 E NOBLE [35.14, -97.38]				
	03/31/13 03:24 CST		0	Hail (1.50 in)
	03/31/13 03:24 CST		0	Source: Trained Spotter
MCCLAIN COUNTY --- 2.8 W WAYNE [34.92, -97.37]				
	03/31/13 03:45 CST		0	Hail (1.00 in)
	03/31/13 03:45 CST		0	Source: Broadcast Media
ATOKA COUNTY --- 4.6 E STRINGTOWN [34.47, -95.97]				
	03/31/13 04:10 CST		0	Thunderstorm Wind (EG 52 kt)
	03/31/13 04:10 CST		0	Source: Public
The public reported gusts to 60 mph.				
CARTER COUNTY --- 6.2 S DICKSON [34.10, -96.99]				

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	03/31/13 04:10 CST		0.50K	Thunderstorm Wind (EG 56 kt)
	03/31/13 04:10 CST		0	Source: Public

Tree limbs up to 4" in diameter snapped off.

PONTOTOC COUNTY --- 1.4 N VANOSS [34.78, -96.87]

03/31/13 04:10 CST	0	Hail (1.75 in)
03/31/13 04:10 CST	0	Source: Emergency Manager

MURRAY COUNTY --- SULPHUR [34.51, -96.97]

03/31/13 04:30 CST	10K	Thunderstorm Wind (EG 56 kt)
03/31/13 04:30 CST	0	Source: Law Enforcement

Windows blown out and power lines down.

PONTOTOC COUNTY --- 1.8 WNW ROFF [34.64, -96.87]

03/31/13 04:30 CST	0	Hail (1.00 in)
03/31/13 04:30 CST	0	Source: COOP Observer

CARTER COUNTY --- ARDMORE [34.17, -97.14]

03/31/13 04:57 CST	0	Hail (1.00 in)
03/31/13 04:57 CST	0	Source: Trained Spotter

MARSHALL COUNTY --- 7.9 NW OAKLAND [34.17, -96.90]

03/31/13 05:00 CST	0	Hail (1.00 in)
03/31/13 05:00 CST	0	Source: Public

JOHNSTON COUNTY --- 1.4 N FILLMORE [34.29, -96.50]

03/31/13 05:12 CST	0	Hail (1.00 in)
03/31/13 05:12 CST	0	Source: COOP Observer

A warm and seasonably moist airmass was in place ahead of a weak cold front stretching from western to northern Oklahoma during the afternoon. During the late afternoon, several supercells developed and moved east-southeast from near Lawton to east of Oklahoma City. These storms dissipated by late evening following the loss of daytime heating.

A second round of thunderstorms rapidly developed during the early morning hours of the 31st along the cold front as it moved into central Oklahoma. Numerous hail and wind reports were received from the Oklahoma City area south and east toward Ardmore and Ada. Extensive hail damage occurred in central Oklahoma, with estimated damages totaling \$2 million around the Norman, OK area.

TEXAS, Western North

(TX-Z083) HARDEMAN, (TX-Z084) FOARD, (TX-Z085) WILBARGER, (TX-Z086) WICHITA, (TX-Z087) KNOX, (TX-Z088) BAYLOR, (TX-Z089) ARCHER, (TX-Z090) CLAY

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

Precipitation totals for March were below normal across western north Texas, resulting in a slight worsening of the long-term drought.

ARCHER COUNTY --- 0.6 W WINDTHORST [33.58, -98.45]

03/09/13 13:35 CST	0	Hail (1.25 in)
03/09/13 13:35 CST	0	Source: Public

No damage information was available.

A strong cold front moved across western north Texas during the afternoon hours of the 9th, generating a broken line of storms. While most of the storms remained below severe levels, one storm that moved over Archer county produced large hail.

WICHITA COUNTY --- 3.1 NW BURKBURNETT [34.12, -98.60]

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	03/29/13 18:15 CST		0	Hail (1.00 in)
	03/29/13 18:15 CST		0	Source: Public

Hail lasted 45 minutes and produced hail drifts up to one to two feet in some locations.

WICHITA COUNTY --- 0.7 S BURKBURNETT [34.08, -98.56]

03/29/13 18:58 CST	0	Hail (1.00 in)
03/29/13 18:58 CST	0	Source: Trained Spotter

WICHITA COUNTY --- 0.7 N CASHION [34.04, -98.50]

03/29/13 19:20 CST	0	Hail (1.75 in)
03/29/13 19:20 CST	0	Source: Amateur Radio

Hail ranged in sized from the size of quarters to golf balls and lasted up to 45 minutes.

CLAY COUNTY --- 3.3 SSW CHARLIE [34.06, -98.35]

03/29/13 19:26 CST	0	Hail (1.00 in)
03/29/13 19:26 CST	0	Source: Amateur Radio

Hail covered the ground at this location.

CLAY COUNTY --- BYERS [34.07, -98.19]

03/29/13 20:47 CST	0	Hail (1.00 in)
03/29/13 20:47 CST	0	Source: Broadcast Media

Several days of southerly return flow and mild temperatures led to a moderately unstable airmass over southern Oklahoma and northern Texas. A stalled frontal boundary combined with mid level west-northwesterly flow of 35-45 knots proved favorable for isolated severe thunderstorm development during the late afternoon and evening hours of the 29th. Significant hail was reported in a few locations, along with damaging winds and torrential rainfall.