

Storm Data and Unusual Weather Phenomena - July 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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TEXAS, South Panhandle

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z026) CHILDRESS, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029) HALE, (TX-Z030) FLOYD, (TX-Z031) MOTLEY, (TX-Z032) COTTLE, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z036) CROSBY, (TX-Z037) DICKENS, (TX-Z038) KING, (TX-Z039) YOAKUM, (TX-Z040) TERRY, (TX-Z041) LYNN, (TX-Z042) GARZA, (TX-Z043) KENT, (TX-Z044) STONEWALL

07/01/14 00:00 CST	0	Drought
07/31/14 23:59 CST	0	

Overall drought conditions continued to improve over the area with many areas continuing the wet period from May and June. However, the second half of the month saw drier conditions. The most significant improvement was observed over the extreme southwestern Texas Panhandle where drought levels improved to moderate (D1) conditions. The South Plains generally saw severe (D2) drought conditions while the Rolling Plains observed extreme (D3) conditions. A portion of Cottle and King Counties continued to experience exceptional (D4) drought conditions.

The wet weather observed in May and June continued through the first week in July but dry conditions then dominated the rest of the month. A significant rainfall event occurred on the second and third of July across the extreme southwestern Texas Panhandle where between four and six inches were observed or estimated from radar. A cooperative weather observer in Hart (Castro County) observed 5.35 inches. This is where the greatest improvement to the drought was realized. Elsewhere, scattered rainfall throughout the month kept monthly precipitation values near or above normal with the exception of the southern South Plains. The normal and above normal moisture kept temperatures below seasonal averages for the month. Lubbock and Childress saw their mean temperatures 1.3 degrees and 2.8 degrees below average, respectively. Keetch-Byram Drought Index Values remained about the same as June with the exception of the southern South Plains. Widespread values between 200 and 400 were observed over much of the area with values between 400 and 500 over the South Plains. The southern South Plains saw values between 500 and 700 with isolated values less than 200 over the extreme southern Texas Panhandle.

Green fuels and near normal moisture have kept fire concerns low through mid summer as is usually the case. The hot and dry weather that returned in July has caused area farmers to begin irrigating crops again. The lack of moisture had put the development of much of the cotton crop behind schedule. Area reservoirs dropped through July with the lack of widespread rainfall. White River Lake was the only reservoir to rise.

Economic losses due to drought through July since the drought began were estimated near \$3 billion.

(TX-Z023) SWISHER

07/01/14 05:45 CST	0	High Wind (MAX 51 kt)
07/01/14 05:45 CST	0	

A wake low followed a cold front moving through the Texas Panhandle into the South Plains and Rolling Plains this morning, producing a wind gust to 59 mph near Tulia.

PARMER COUNTY --- BOVINA [34.52, -102.90], 0.7 S BOVINA [34.51, -102.90], 1.3 SE BOVINA [34.51, -102.88], 1.2 E BOVINA [34.52, -102.88]

07/02/14 07:30 CST	0	Flood (due to Heavy Rain)
07/02/14 10:00 CST	0	Source: Law Enforcement

Law enforcement officials reported standing water over Highways 60 and 86 in the vicinity of Bovina causing multiple vehicles to hydroplane off the road . One car was stranded in high water as rainfall amounts of 4 to 6 inches fell across much of town, with locally higher amounts.

YOAKUM COUNTY --- 0.8 SW PLAINS YOAKUM CO ARP [33.19, -102.84], 1.0 SSE DENVER CITY [32.96, -102.85], 1.6 ESE DENVER CITY ARPT [32.96, -102.80], 1.3 E PLAINS YOAKUM CO ARP [33.20, -102.81]

07/02/14 20:45 CST	0	Flood (due to Heavy Rain)
07/02/14 22:30 CST	0	Source: Law Enforcement

Local law enforcement officials and trained spotters reported submerged roadways between Plains and Denver City , including Highway 214. A storm spotter measured 4.30 inches of rainfall in just a few hours near Plains.

An early morning upper level disturbance combined with moist upslope flow, aided by a nearby frontal boundary, to produce showers and thunderstorms. Portions of Parmer County in and around Bovina received between 4 to 6 inches of rainfall, with locally higher amounts estimated by radar. High water plagued area roadways causing multiple reports of traffic related issues. Showers and thunderstorms regenerated during the late afternoon and early evening hours, mainly across portions of Yoakum County, in association with a mesoscale convective vortex in eastern New Mexico. Consistent moderate to heavy rainfall from Plains to Denver City caused street flooding and road closures.

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HOCKLEY COUNTY --- 6.0 SSW ANTON [33.74, -102.21]	07/03/14 15:00 CST		0	Thunderstorm Wind (MG 56 kt)
	07/03/14 15:10 CST		0	Source: Mesonet

A Texas Tech University West Texas Mesonet station southwest of Anton measured severe winds for a 10 minute period, peaking at 64 mph.

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HOCKLEY COUNTY --- 0.7 SSW ANTON [33.81, -102.18], 2.0 SSE ANTON [33.79, -102.15], 0.3 SW SMYER [33.58, -102.17], 0.7 NE LEVELLAND [33.59, -102.36]	07/03/14 16:30 CST		0	Flood (due to Heavy Rain)
	07/03/14 18:30 CST		0	Source: Fire Department/Rescue

Fire department officials observed flooding near and around Anton , including Farm to Market Road 1294 to 168 as 3 to 5 inches of rain fell over the area. Areas east of Levelland to Opdyke West also reported minor flooding on area roadways , including Highway 114.

A moist and unstable environment led to the development of an isolated storm in northeastern Hockley County. This storm persisted for several hours through the mid to late afternoon and early evening, causing a brief stint of severe winds southwest of Anton as well as flooding issues from Anton to east of Levelland.