Storm Data and Unusual Weather Phenomena - July 2018

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details

NEW MEXICO, Southeast

LEA COUNTY --- 5.0 NW HOBBS [32.75, -103.19]

	07/02/18 16:32 MST	0	Thunderstorm Wind (MG 51 kt)
	07/02/18 16:32 MST	0	Source: Mesonet

A thunderstorm moved across Lea County and produced a 59 mph wind gust five miles northwest of Hobbs.

An upper level high pressure system extended from the east coast to the Southern Plains. A weak surface trough was in place across central New Mexico. Intense heating at the surface along with moist upslope flow were present across southeast New Mexico and West Texas. These conditions resulted in storms that produced severe wind gusts.

EDDY COUNTY --- 5.0 N ARTESIA [32.90, -104.40]

	07/30/18 16:10 MST	0	Hail (1.00 in)
	07/30/18 16:15 MST	0	Source: Public

A deep upper trough was draped over the central U.S. plains. Thunderstorms developed along the associated cold front and pushed south. Outflow boundaries produced by these storms provided the low level focus for the development of storms over southeast New Mexico and the Permian Basin. These storms produced large hail and strong winds despite little mid-level support.

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1.00" hail that fell near Artesia. Photographed by Lance Goodrich

TEXAS, West

GAINES COUNTY --- 2.6 WSW SEAGRAVES [32.92, -102.59]

07/01/18 16:20 CST	0.50M	Thunderstorm Wind (EG 61 kt)
07/01/18 16:21 CST	0	Source: Emergency Manager

A thunderstorm moved across Gaines County and produced wind damage about three miles southwest of Seagraves. Several power lines were blown down due to thunderstorm winds at County Road 226 and US 385. The cost of damage is a very rough estimate.

There was a large upper trough over the Rocky Mountains and a weak cold front across the Permian Basin. Very good instability was present along with dry air below the cloud base which contributed to gusty winds. These conditions resulted in a thunderstorm with severe wind gusts in the northern Permian Basin.

GAINES COUNTY --- 1.0 SW SEAGRAVES [32.92, -102.56]

07/02/18 18:45 CST	0	Thunderstorm Wind (MG 62 kt)
07/02/18 18:45 CST	0	Source: Mesonet

A thunderstorm moved across Gaines County and produced a 71 mph wind gust one mile southwest of Seagraves.

An upper level high pressure system extended from the east coast to the Southern Plains. A weak surface trough was in place across central New Mexico. Intense heating at the surface along with moist upslope flow were present across southeast New Mexico and West Texas. These conditions resulted in storms that produced severe wind gusts.

CULBERSON COUNTY --- VAN HORN [31.05, -104.82]

07/07/18 15:55 CST	30K	Thunderstorm Wind (EG 78 kt)
07/07/18 15:56 CST	0	Source: Law Enforcement

A thunderstorm moved across Culberson County and produced wind damage in Van Horn. A large tin roof was blown off of a building and onto a highway. There was other wind damage around town such as fences and power lines blown down. The damage was likely caused by a microburst. The cost of damage is a very rough estimate.

A broad upper ridge was over the Four Corners region. There was good surface heating and moisture in place. Remaining boundaries from thunderstorms from the previous day were across the area. These conditions resulted in a thunderstorm that produced wind damage in West Texas.

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A thunderstorm produced wind damage in Van Horn. A large tin roof was blown off of a building and onto a highway. Other damage occurred around town such as blown down power lines and fences. The damage was likely caused by a microburst. Photo is courtesy of Cody of law enforcement.

MIDLAND COUNTY --- GREENWOOD [32.00, -101.92]

07/31/18 00:10 CST	0	Hail (1.75 in)
07/31/18 00:15 CST	0	Source: Trained Spotter

A deep upper trough was draped over the central U.S. plains. Thunderstorms developed along the associated cold front and pushed south. Outflow boundaries produced by these storms provided the low level focus for the development of storms over southeast New Mexico and the Permian Basin. These storms produced large hail and strong winds despite little mid-level support.

CULBERSON COUNTY --- PINE SPGS [31.88, -104.80]

07/31/18 15:41 CST	0	Thunderstorm Wind (MG 55 kt)
07/31/18 15:42 CST	0	Source: ASOS

A thunderstorm moved across Culberson County and produced a 63 mph wind gust at the Pine Springs ASOS site.

An upper level trough was to the east of the region and a ridge began building into the southwestern U.S. A cold front from the night before provided the lift needed for a few storms to develop over southeast New Mexico and far west Texas.