

Storm Data and Unusual Weather Phenomena - August 2012

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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NEW MEXICO, Southeast

EDDY COUNTY --- ARTESIA [32.83, -104.40]

	08/12/12 21:15 MST		0.50K	Thunderstorm Wind (MG 53 kt)
	08/12/12 21:16 MST		0	Source: RAWS

A thunderstorm moved over Eddy County and produced a 61 mph wind gust at Artesia as measured by the Artesia RAWS. This wind gust is thought to be the result of a dry microburst since a lot of blowing dust with little to no rain was reported. There was some tree limb damage across the town. The cost of damage is a very rough estimate.

An upper level ridge was centered over New Mexico with an upper level trough over the northern plains, and a cold front associated with this trough was moving into Southeast New Mexico and the northern Permian Basin. Fairly dry air was at the surface with moist conditions at the middle levels of the atmosphere. This moisture contrast along with intense surface heating contributed to thunderstorms with strong to severe wind gusts.

EDDY COUNTY --- 2.0 NE CARLSBAD [32.44, -104.21]

	08/26/12 14:09 MST		0	Thunderstorm Wind (EG 61 kt)
	08/26/12 14:10 MST		0	Source: Emergency Manager

A thunderstorm developed over Eddy County and produced a 70 mph wind gust two miles northeast of Carlsbad.

A region of lift was over the area as a result of an upper level trough located over the southern plains. Moisture in all levels of the atmosphere was good, and there was decent surface heating to create instability needed for thunderstorms.

TEXAS, West

PRESIDIO COUNTY --- MARFA [30.32, -104.02]

	08/18/12 17:06 CST		0	Hail (1.00 in)
	08/18/12 17:11 CST		0	Source: Law Enforcement

Mid-level lift, moisture, and instability were over the area. Outflow boundaries from storms the previous day were still over the area and helped to create a source of low-level lift. These factors, along with low-level moisture and instability, helped to create an environment conducive for severe thunderstorms across the Davis Mountains.

MIDLAND COUNTY --- MIDLAND [32.00, -102.08]

	08/25/12 18:00 CST		0	Hail (1.00 in)
	08/25/12 18:05 CST		0	Source: Public

An upper level trough was present over the central plains with an axis of lift that extended all the way back to the Permian Basin. There was low-level lift from a surface trough across Southeast New Mexico and West Texas as well as from outflow boundaries from previous thunderstorms. Low-level instability and moisture were also present to aid in thunderstorm development across the Permian Basin.