

Storm Data and Unusual Weather Phenomena - September 2015

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

NEW MEXICO, Southeast

EDDY COUNTY --- CARLSBAD [32.42, -104.23]

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|--|--------------------|---|------------------------------|
| | 09/17/15 16:50 MST | 0 | Thunderstorm Wind (EG 52 kt) |
| | 09/17/15 16:50 MST | 0 | Source: Trained Spotter |

A thunderstorm moved across Eddy County and produced an estimated 60 mph wind gust in Carlsbad. No damage was reported.

There was a weakened subtropical ridge in place with good moisture, intense heating, and upslope winds present across southeast New Mexico. A lee surface trough was also present across the plains of southeast New Mexico. These conditions resulted in thunderstorms with gusty winds developing.

EDDY COUNTY --- 3.0 S CARLSBAD [32.38, -104.23]

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| | 09/18/15 16:50 MST | 0 | Thunderstorm Wind (MG 53 kt) |
| | 09/18/15 16:50 MST | 0 | Source: ASOS |

A thunderstorm moved across Eddy County and produced a 53 knot gust near Carlsbad. No damage was reported.

EDDY COUNTY --- 3.0 S CARLSBAD [32.38, -104.23]

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|--|--------------------|---|------------------------------|
| | 09/18/15 17:06 MST | 0 | Thunderstorm Wind (MG 56 kt) |
| | 09/18/15 17:06 MST | 0 | Source: ASOS |

A thunderstorm moved across Eddy County and produced a 56 knot wind gust near Carlsbad. No damage was reported.

A subtropical ridge was centered over northern Mexico with an upper level trough over the Intermountain West. There was good low level moisture, upslope winds, and instability present across southeast New Mexico and West Texas. There was a difference of about 30 to 40 degrees between the temperature and dewpoint temperature which allowed for thunderstorms with gusty winds to develop.

TEXAS, West

MARTIN COUNTY --- STANTON [32.13, -101.80]

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|--|--------------------|----|------------------------------|
| | 09/18/15 18:50 CST | 5K | Thunderstorm Wind (EG 61 kt) |
| | 09/18/15 18:51 CST | 0 | Source: Public |

A thunderstorm moved across Martin County and produced wind damage in Stanton . There were broken tree limbs and damaged car ports in Stanton. The cost of damage is a very rough estimate.

A subtropical ridge was centered over northern Mexico with an upper level trough over the Intermountain West. There was good low level moisture, upslope winds, and instability present across southeast New Mexico and West Texas. There was a difference of about 30 to 40 degrees between the temperature and dewpoint temperature which allowed for thunderstorms with gusty winds to develop.

MIDLAND COUNTY --- 3.0 WNW MIDLAND [32.02, -102.12], 2.9 WNW MIDLAND [32.02, -102.12], 3.0 WNW MIDLAND [32.02, -102.13], 3.0 WNW MIDLAND [32.02, -102.13]

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| | 09/19/15 18:55 CST | 0.50K | Flash Flood (due to Heavy Rain) |
| | 09/19/15 22:00 CST | 0 | Source: Social Media |

Heavy rain moved across Midland County and produced flash flooding in Midland. Over a foot of water was reported to be running over the road at the intersection of Wadley and Midkiff in the City of Midland . The cost of damage is a very rough estimate.

MIDLAND COUNTY --- 3.1 NNW MIDLAND [32.04, -102.10], 3.0 NNW MIDLAND [32.04, -102.09], 3.0 NNW MIDLAND [32.04, -102.10], 3.1 NNW MIDLAND [32.04, -102.10]

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|--|--------------------|-------|---------------------------------|
| | 09/19/15 19:15 CST | 0.50K | Flash Flood (due to Heavy Rain) |
| | 09/19/15 22:15 CST | 0 | Source: NWS Employee |

Heavy rain moved across Midland County and produced flash flooding in Midland. Eight to twelve inches of water was reported over the roadway at Loop 250 and A Street. The cost of damage is a very rough estimate.

MIDLAND COUNTY --- 3.4 WNW MIDLAND [32.02, -102.13], 3.0 WNW MIDLAND [32.01, -102.13], 2.0 NW MIDLAND [32.02, -102.10], 2.5 NW MIDLAND [32.03, -102.11]

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|----------|--------------------|-------------------|---------------------|---------------------------------|
| | 09/19/15 19:20 CST | | 8K | Flash Flood (due to Heavy Rain) |
| | 09/19/15 22:20 CST | | 0 | Source: Law Enforcement |

Heavy rain moved across Midland County and produced flash flooding in Midland. The Midland Police Department reported multiple high water rescues that were ongoing in the City of Midland. The cost of damage is a very rough estimate.

A cold front moved through the Permian Basin during the morning hours and had stalled over the Lower Trans Pecos by the evening. There were residual boundaries across the area from thunderstorms the previous night. This increased lift along with good moisture resulted in thunderstorms with flash flooding across the Permian Basin.

REEVES COUNTY --- PECOS [31.42, -103.48]

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|--------------------|----|------------------------------|
| 09/23/15 18:05 CST | 1K | Thunderstorm Wind (EG 65 kt) |
| 09/23/15 18:06 CST | 0 | Source: Public |

A thunderstorm moved across Reeves County and produced wind damage in Pecos and Barstow . A tree was knocked down in Pecos and there was tree damage reported in Barstow. The cost of damage is a rough estimate.

PECOS COUNTY --- FT STOCKTON [30.88, -102.87]

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|--------------------|---|----------------------|
| 09/23/15 20:00 CST | 0 | Heavy Rain |
| 09/23/15 20:30 CST | 0 | Source: Storm Chaser |

Heavy rain occurred in Pecos County and affected Fort Stockton and surrounding areas . There was minor street flooding that occurred as a result of this heavy rain.

An upper level ridge was over most of the country with an upper trough over New Mexico and Colorado. This upper trough along with an associated area of stronger upper level winds allowed for an increase in lift over West Texas. This lift along with an abundance of moisture contributed to storms across the area.

PRESIDIO COUNTY --- 5.0 N PRESIDIO [29.62, -104.37]

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|--------------------|---|------------------------------|
| 09/24/15 19:35 CST | 0 | Thunderstorm Wind (MG 51 kt) |
| 09/24/15 19:35 CST | 0 | Source: AWOS |

A thunderstorm moved across Presidio County and produced a 59 mph wind gust north of the City of Presidio as recorded by the local AWOS.

An upper level low pressure system was over West Texas which increased upper lift over the area. There was also good instability present which allowed for thunderstorms with strong wind gusts to develop.