

Storm Data and Unusual Weather Phenomena - March 2012

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

NEW MEXICO, Southeast

(NM-Z028) EDDY COUNTY PLAINS

| | | | | |
|--|--------------------|---|--|-----------------------|
| | 03/01/12 10:35 MST | 0 | | High Wind (MAX 37 kt) |
| | 03/01/12 15:15 MST | 0 | | |

Increasing winds aloft ahead of an approaching shortwave trough resulted in high winds affecting portions of the Guadalupe Mountains and southeast New Mexico Plains.

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY, (NM-Z029) NORTHERN LEA COUNTY

| | | | | |
|--|--------------------|---|--|-----------------------|
| | 03/08/12 06:00 MST | 0 | | High Wind (MAX 41 kt) |
| | 03/08/12 11:20 MST | 0 | | |

High winds occurred in portions of the Guadalupe Mountains and southeast New Mexico Plains behind a strong cold front.

(NM-Z028) EDDY COUNTY PLAINS

| | | | | |
|--|--------------------|---|--|-----------------------|
| | 03/19/12 00:00 MST | 0 | | High Wind (MAX 35 kt) |
| | 03/19/12 17:00 MST | 0 | | |

The approach of, and passage over the area, of an upper level cutoff low resulted in high winds in portions of the southeast New Mexico Plains.

TEXAS, West

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|--|-----------------------|
| | 03/01/12 11:51 MST | 0 | | High Wind (MAX 36 kt) |
| | 03/01/12 15:51 MST | 0 | | |

Increasing winds aloft ahead of an approaching shortwave trough resulted in high winds affecting portions of the Guadalupe Mountains.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|--|-----------------------|
| | 03/07/12 11:51 MST | 0 | | High Wind (MAX 57 kt) |
| | 03/07/12 20:00 MST | 0 | | |

Increasing mid level winds ahead of an approaching shortwave trough resulted in high winds in the Guadalupe Mountains.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|--|-----------------------|
| | 03/08/12 10:51 MST | 0 | | High Wind (MAX 41 kt) |
| | 03/08/12 20:51 MST | 0 | | |

High winds occurred in portions of the Guadalupe Mountains behind a strong cold front.

(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

| | | | | |
|--|--------------------|---|--|-----------------------|
| | 03/11/12 12:51 MST | 0 | | High Wind (MAX 54 kt) |
| | 03/11/12 17:00 MST | 0 | | |

Increasing mid level winds ahead of a shortwave trough, and a tightening surface gradient over the area, resulted in high winds in portions of the Guadalupe Mountains.

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

| | | | | |
|--|--------------------|---|--|----------------|
| | 03/16/12 15:15 CST | 0 | | Hail (0.75 in) |
| | 03/16/12 15:25 CST | 0 | | Source: Public |

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

| | | | | |
|--|--------------------|---|--|-------------------------|
| | 03/16/12 15:18 CST | 0 | | Hail (0.75 in) |
| | 03/16/12 15:28 CST | 0 | | Source: Trained Spotter |

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| PECOS COUNTY --- FT STOCKTON [30.88, -102.87] | | | | |
| | 03/16/12 15:27 CST | | 0 | Hail (0.75 in) |
| | 03/16/12 15:37 CST | | 0 | Source: Amateur Radio |
| PECOS COUNTY --- FT STOCKTON [30.88, -102.87] | | | | |
| | 03/16/12 16:50 CST | | 0 | Hail (0.88 in) |
| | 03/16/12 17:00 CST | | 0 | Source: Trained Spotter |
| <p>An upper level low was approaching from the west, and a dryline was positioned near the border of West Texas and Southeast New Mexico. A series of shortwaves moved over the area providing lift. This lift along with good shear and instability provided an opportunity for thunderstorms to develop across the Trans Pecos.</p> | | | | |
| (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY | | | | |
| | 03/18/12 09:51 MST | | 0 | High Wind (MAX 65 kt) |
| | 03/19/12 23:00 MST | | 0 | |
| <p>The approach of, and passage over the area, of an upper level cutoff low resulted in high winds in the Guadalupe Mountains.</p> | | | | |
| WINKLER COUNTY --- KERMIT [31.85, -103.08] | | | | |
| | 03/18/12 21:45 CST | | 0 | Hail (1.00 in) |
| | 03/18/12 21:55 CST | | 0 | Source: Law Enforcement |
| ECTOR COUNTY --- 5.2 ENE GARDENDALE [32.03, -102.34], 5.9 ENE GARDENDALE [32.04, -102.33] | | | | |
| | 03/18/12 23:28 CST | | 1M | Tornado (EF2, L: 1.00 mi , W: 40 yd) |
| | 03/18/12 23:30 CST | 3 | 0 | Source: Law Enforcement |
| <p>A line of severe thunderstorms moved into Ector County around 11:20 PM CDT March 18th and progressed eastward. At 12:28 AM CDT March 19th, a tornado touched down in the Gardendale community and remained on the ground for two minutes. This tornado produced damage along County Road 30 (Goldenrod Drive) primarily between Chinaberry Avenue and Alfalfa Avenue. As the tornado developed, it moved just south of an RV Park located near the intersection of County Road 30 and China Berry Ave. This resulted in a large camper being toppled by severe northwest winds flowing into the tornado. One minor injury was noted at this location. As the tornado intensified and progressed northeastward, strong inflow winds from the south resulted in a cinder block fence being blown over to the north. Finally, as the tornado crossed County Road 30 (Goldenrod Drive), it reached its peak intensity. This resulted in significant damage to a residential home, along with a 20' x 30' travel trailer and a barn being destroyed. Widespread damage was noted in this area, which also served as a collection point for a great amount of debris from other locations upwind back to the southwest. South of County Road 30, power poles with broken cross members were noted. This was indicative of EF1 tornado damage. However, the tornado intensified after crossing to the north side of County Road 30 (Goldenrod Drive). There was a home that shifted slightly off its foundation. Also, there was significant loss of roof decking and major shingle loss. Some small pieces of debris became projectiles, sticking into the walls of the home. Based on this information, winds for this event were estimated to be 90-110 mph. The Gardendale tornado at its most intense - north of County Road 30 - was rated as a low end EF-2 tornado.</p> | | | | |
| MARTIN COUNTY --- LENORAH [32.30, -101.87] | | | | |
| | 03/19/12 00:50 CST | | 0 | Hail (2.00 in) |
| | 03/19/12 01:00 CST | | 0 | Source: COOP Observer |
| DAWSON COUNTY --- ACKERLY [32.52, -101.72] | | | | |
| | 03/19/12 01:45 CST | | 0 | Hail (1.00 in) |
| | 03/19/12 01:55 CST | | 0 | Source: Post Office |
| MIDLAND COUNTY --- 2.4 NE GREENWOOD [32.03, -101.89] | | | | |
| | 03/19/12 03:20 CST | | 0 | Hail (1.75 in) |
| | 03/19/12 03:30 CST | | 0 | Source: Public |
| GLASSCOCK COUNTY --- 14.5 N GARDEN CITY [32.08, -101.50] | | | | |
| | 03/19/12 03:45 CST | | 0 | Hail (1.00 in) |
| | 03/19/12 03:55 CST | | 0 | Source: COOP Observer |
| HOWARD COUNTY --- BIG SPRING [32.25, -101.47] | | | | |
| | 03/19/12 03:53 CST | | 0 | Hail (1.00 in) |
| | 03/19/12 04:03 CST | | 0 | Source: COOP Observer |

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A big, upper level low was just west of the area near the four corners region of the United States. There was a surface trough across Southeast New Mexico and far West Texas with a retreating dryline across the Permian Basin and the lower Trans Pecos. A Pacific front moved through the area after sunset. The collision of the front with the dryline along with good shear and instability provided a ripe environment for severe thunderstorm development. A line of convection developed, and the storms went on to produce a tornado near Gardendale, TX and severe hail across the Permian Basin.

(TX-Z062) MIDLAND

| | | | | |
|--|--------------------|--|-------|-----------------------|
| | 03/20/12 14:45 CST | | 0.50K | High Wind (MAX 65 kt) |
| | 03/20/12 14:46 CST | | 0 | |

A cold upper low over New Mexico moved over the Texas panhandle and Permian Basin during the day. A shortwave trough moved across the outer edges of the upper low which resulted in scattered showers across the Permian Basin. Strong mid-level winds, along with high based showers and cold dense air aloft resulted in a dry microburst in downtown Midland.

PECOS COUNTY --- 10.0 W FT STOCKTON [30.88, -103.04]

| | | | | |
|--|--------------------|--|---|----------------|
| | 03/26/12 17:15 CST | | 0 | Hail (1.00 in) |
| | 03/26/12 17:25 CST | | 0 | Source: Public |

PECOS COUNTY --- 7.0 W FT STOCKTON [30.88, -102.99]

| | | | | |
|--|--------------------|--|---|----------------|
| | 03/26/12 17:55 CST | | 0 | Hail (1.00 in) |
| | 03/26/12 18:05 CST | | 0 | Source: Public |

An upper trough moved across the northern Rockies causing the upper ridge in place over Texas and New Mexico to weaken. Also, a dryline was over the area providing a source of lift for thunderstorms to develop. Storms developed across the Trans Pecos area, and some became severe producing large hail.