

Storm Data and Unusual Weather Phenomena - February 2009

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

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY

	02/08/09 05:10 MST	0		High Wind (MAX 58 kt)
	02/08/09 05:15 MST	0		

EDDY COUNTY --- 1.0 N CARLSBAD [32.43, -104.23]

	02/08/09 16:05 MST	0		Hail (0.88 in)
	02/08/09 16:10 MST	0		Source: Public

A negatively tilted upper level trough approached the region from the west resulting in large scale ascent over the Southeast New Mexico Plains. This, combined with surface convergence along a dryline, and breaks in the low level cloud cover allowed for destabilization of the atmosphere. Both mid to low level lapse rates were also favorable for strong ascent. As a Pacific cold front approached the region, convection began to organize resulting in severe storms with damaging winds and large hail.

(NM-Z027) GUADALUPE MOUNTAINS OF EDDY COUNTY

	02/10/09 10:00 MST	0		High Wind (MAX 50 kt)
	02/10/09 10:05 MST	0		

A strong upper trough moved across portions of Arizona into the region. Accompanying this trough was a 120 knot upper level jet with 40 knot winds near the low levels of the atmosphere. As a result, a deep surface low developed over southeastern Colorado and the Texas Panhandle resulting in a very tight pressure gradient and strong surface winds. The winds also resulted in restricted visibilities of less than 1/4 mile for some locations.

TEXAS, West

PECOS COUNTY --- FT STOCKTON ARPT FST [30.92, -102.92]

	02/08/09 18:56 CST	0		Thunderstorm Wind (MG 56 kt)
	02/08/09 19:01 CST	0		Source: ASOS

PECOS COUNTY --- FT STOCKTON ARPT FST [30.92, -102.92]

	02/08/09 19:06 CST	0		Thunderstorm Wind (MG 50 kt)
	02/08/09 19:09 CST	0		Source: ASOS

A negatively tilted upper level trough approached the region from the west resulting in large scale ascent over the Southwest Texas. This, combined with surface convergence along a dryline and breaks in the low level cloud cover, allowed for destabilization of the atmosphere. Both mid and low level lapse rates were also favorable for strong ascent. As a Pacific cold front approached the region, convection began to organize resulting in severe storms with damaging winds and large hail.

(TX-Z058) REEVES COUNTY AND UPPER TRANS PECOS

	02/10/09 14:00 CST	25K		Dust Storm
	02/10/09 15:00 CST	0		

(TX-Z058) REEVES COUNTY AND UPPER TRANS PECOS, (TX-Z060) WINKLER, (TX-Z061) ECTOR, (TX-Z070) REAGAN, (TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z075) PECOS, (TX-Z079) PRESIDIO VALLEY, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	02/10/09 14:45 CST	15K		High Wind (MAX 78 kt)
	02/11/09 03:55 CST	0		

(TX-Z058) REEVES COUNTY AND UPPER TRANS PECOS, (TX-Z060) WINKLER, (TX-Z061) ECTOR, (TX-Z070) REAGAN, (TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z075) PECOS, (TX-Z079) PRESIDIO VALLEY, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY

	02/10/09 16:50 MST	0		High Wind (MAX 78 kt)
	02/11/09 01:51 MST	0		

A strong upper trough moved across portions of Arizona into the region. Accompanying this trough was a 120 knot upper level jet with 40 knot winds near the low levels of the atmosphere. As a result, a deep surface low developed over southeastern Colorado and the Texas Panhandle resulting in a very tight pressure gradient and strong surface winds. The winds also resulted in restricted visibilities of less than 1/4 mile for some locations.

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(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	02/16/09 23:15 CST		0	High Wind (MAX 59 kt)
	02/17/09 16:35 CST		0	
(TX-Z074) DAVIS / APACHE MOUNTAINS AREA, (TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	02/17/09 12:50 MST		0	High Wind (MAX 59 kt)
	02/17/09 13:05 MST		0	
<p>A vigorous upper trough moved across the Rockies and into the Southern Plains. As this trough approached, strong mixing of the mid level winds to the surface and a tight surface pressure gradient resulted in high winds across the Guadalupe Mountains of New Mexico.</p>				
(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	02/21/09 06:51 MST		0	High Wind (MAX 40 kt)
	02/21/09 07:51 MST		0	
<p>A strong cold front moved through West Texas during the morning hours bringing with it gusty northeast surface winds across most of the area. The strongest winds, however, occurred through the Guadalupe Mountains of Texas where funneling enhanced the surface flow.</p>				
(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	02/24/09 13:50 MST		0	High Wind (MAX 56 kt)
	02/26/09 12:55 MST		0	
<p>Strong mid level winds within the base of a mid to upper level trough mixed down to the higher terrain of the Guadalupe Mountains of Texas. This, combined with a tight surface pressure gradient, resulted in high winds across the mountainous terrain.</p>				
(TX-Z258) GUADALUPE MOUNTAINS OF CULBERSON COUNTY				
	02/27/09 14:51 MST		0	High Wind (MAX 50 kt)
	02/28/09 03:56 MST		0	
<p>A strong cold front moved across the Guadalupe Mountains around midnight. Channeled winds increased through Guadalupe Pass, resulting in high winds behind the cold front. These winds eventually tapered off during the afternoon hours.</p>				