Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
EW MEXICO, Southeast				
EA COUNTY HOBBS [32.70, -103.13]				
EA COUNTY HOBBS [32.70, -103.13]	05/11/11 01:00 MST		0	Hail (1.25 in)
	05/11/11 01:15 MST		0	Source: COOP Observer
Pacific cold front moved across west Texas an onvergence along this front and a dryline comb rom the southeast New Mexico plains through p upported large hail.	ined with an approaching mi	d level shortway	e trough to produ	ce severe thunderstorms
NM-Z028) EDDY COUNTY PLAINS				
	05/24/11 12:55 MST		0	High Wind (MAX 51 kt)
	05/24/11 12:55 MST		0	
he passage of a potent upper level trough resul	ted in isolated strong wind g	usts across por	tions of the southe	east New Mexico plains.
EA COUNTY 3.2 ENE LOVINGTON [32.95, -10	=			
	05/31/11 16:58 MST		0	Hail (1.00 in)
	05/31/11 17:03 MST		0	Source: Amateur Radio
ne hail covered the ground.				
EA COUNTY 8.8 NNW KNOWLES [32.95, -103	3.13]			
•	05/31/11 17:19 MST		0	Hail (1.00 in)
	05/31/11 17:24 MST		0	Source: Trained Spotter
EA COUNTY 4.5 NW KNOWLES [32.88, -103.1	05/31/11 17:25 MST		0	Hail (2.75 in)
	05/31/11 17:30 MST		0	Source: Trained Spotter
	00/01/11 17:30 MOT		Ü	Course. Trained opotion
EA COUNTY 5.8 NW KNOWLES [32.88, -103.1	[6]			
	05/31/11 17:36 MST		0	Hail (2.75 in)
	05/31/11 17:46 MST		0	Source: Trained Spotter
ne hail covered the ground.				
- A COLUNTY				
EA COUNTY 0.9 SE KNOWLES [32.82, -103.0	7] 05/31/11 17:59 MST		0	Hail (2.00 in)
	05/31/11 18:04 MST		0	Source: Trained Spotter
warm front draped across the region and orog nunderstorms across southeast New Mexico an astability and sufficient deep layer shear resulte EXAS, West	d the Davis Mountains of we		-	=
EAAO, WEST				
TX-Z074) DAVIS / APACHE MOUNTAINS AREA	05/07/44 10 00 007		•	MELIC
	05/07/11 16:30 CST		0	Wildfire
	05/22/11 00:00 CST		0	
low level thermal ridge resulted in very warm a alues near 5 percent. Winds were from 20 to 25		-	-	
X-Z074) DAVIS / APACHE MOUNTAINS AREA				

05/08/11 12:30 CST

05/16/11 00:00 CST

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Wildfire

60K

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
An upper level low brought hot and dry c conditions and a Red Flag Warning being		vinds of 15 to 25 N	IPH. This resulted	l in critical fire weather
(TX-Z052) HOWARD, (TX-Z074) DAVIS / A	PACHE MOUNTAINS AREA			
	05/09/11 11:00 CST		0.24M	Wildfire
	05/22/11 00:00 CST		0	
Gusty southwest winds above 20 MPH we near triple digit temperatures to produce	· ·		ined with low relat	ive humidity values and
(TX-Z258) GUADALUPE MOUNTAINS OF	CULBERSON COUNTY			
	05/09/11 13:00 MST		0	High Wind (MAX 52 kt)
	05/09/11 16:00 MST		0	
Increasing mid level winds associated wi Mountains.	th an approaching upper level tro	ugh resulted in str	ong westerly wind	ds in the Guadalupe
(TX-Z258) GUADALUPE MOUNTAINS OF	CULBERSON COUNTY			
	05/10/11 13:51 MST		0	High Wind (MAX 52 kt)
	05/11/11 09:51 MST		0	
Increased mid level winds at the base of	a passing upper level trough resul	Ited in strong wind	ds through the Gu	adalupe Mountains.
GAINES COUNTY SEAGRAVES [32.93,	-102.55]			
	05/11/11 03:30 CST		0	Hail (1.00 in)
	05/11/11 03:35 CST		0	Source: Emergency Manager
supported large hail. (TX-Z258) GUADALUPE MOUNTAINS OF	CULBERSON COUNTY			
,	05/14/11 05:51 MST		0	High Wind (MAX 37 kt)
	05/14/11 07:51 MST		0	
The passage of a cold front resulted in hi	gh northeast winds through the lo	ower elevations of	the Guadalupe Mo	ountains.
(TX-Z258) GUADALUPE MOUNTAINS OF	CULBERSON COUNTY			
	05/17/11 14:49 MST		0	High Wind (MAX 63 kt)
	05/17/11 18:51 MST		0	
An approaching upper level trough result wind speeds in the mountains.	ted in strong mid level winds mixin	ng down into the C	Guadalupe Mounta	nins, which supported high
(TX-Z063) GLASSCOCK				
	05/18/11 00:00 CST		0	Wildfire
	05/19/11 00:00 CST		0	
Dry, west winds of 20 MPH or greater well A Red Flag Warning was in effect for the	· · · · · · · · · · · · · · · · · · ·	in minimum relati	ve humidity value	s from 10 to 15 percent.
(TX-Z258) GUADALUPE MOUNTAINS OF	CULBERSON COUNTY			
-	05/18/11 07:00 MST		0	High Wind (MAX 55 kt)
	05/19/11 06:51 MST		0	·
	alter also a le tra			•
The approach and passing of an upper le	vel trough resulted in strong west	terly winds in the (Guadalupe Mounta	ains.

MARTIN COUNTY 5.8 NNW LENORAH	[32.38, -101.90]			

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	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/19/11 23:15 CST		0	Hail (0.88 in)
	05/19/11 23:20 CST		0	Source: Public
SCURRY COUNTY IRA [32.58, -101.00]				
	05/20/11 01:30 CST		0	Hail (0.88 in)
	05/20/11 01:35 CST		0	Source: Public
PECOS COUNTY 7.7 SE BAKERSFIELD [30.8	-			
	05/20/11 01:45 CST		0	Hail (1.00 in)
	05/20/11 02:00 CST		0	Source: Public
MIDLAND COUNTY MIDLAND [32.00, -102.08]				
	05/20/11 12:26 CST		0	Hail (1.00 in)
ncreasing divergence aloft combined with a no	05/20/11 12:31 CST cturnal low level jet and sur	face convergence	0 along a retreating	Source: NWS Employee g dryline to produce
scattered thunderstorms across the Permian Ba mid level lapse rates supported severe hail size		during the overn	ight hours. Deep	layer shear and steep
TX-Z258) GUADALUPE MOUNTAINS OF CULBE	RSON COUNTY			
	05/20/11 03:51 MST		0	High Wind (MAX 50 kt)
	05/20/11 15:51 MST		0	
	05/22/11 16:30 CST		Λ	Hail (1 00 in)
This report was relayed by the local radio station	05/22/11 16:30 CST 05/22/11 16:35 CST Minor damage to tree limbs	was also renorted	0	Hail (1.00 in) Source: Public
This report was relayed by the local radio station.	05/22/11 16:35 CST	was also reported.	0	
	05/22/11 16:35 CST Minor damage to tree limbs , -100.85]	was also reported.	0	Source: Public
	05/22/11 16:35 CST Minor damage to tree limbs	was also reported.	0	
MITCHELL COUNTY COLORADO CITY [32.40	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST		0 0 0	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who		0 0 0	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who		0 0 0	Source: Public Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS he size of the tree limbs was unknown. Hail (1.00 in)
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who		0 0 0 ing blown over. Th	Source: Public Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS he size of the tree limbs was unknown.
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST		0 0 0 ing blown over. Th	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS ne size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g	05/22/11 16:35 CST Minor damage to tree limbs 7,-100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST		0 0 0 ing blown over. Th	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS ne size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter Hail (1.00 in)
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g UPTON COUNTY 0.6 E MIDKIFF [31.63, -101.8	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST		0 0 0 ing blown over. Th	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS ne size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g UPTON COUNTY 0.6 E MIDKIFF [31.63, -101.8	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST .90] 05/22/11 17:10 CST 05/22/11 17:15 CST		0 0 0 ing blown over. Th	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter Hail (1.00 in) Source: Public
Several tree limbs were snapped by strong wind g UPTON COUNTY 0.6 E MIDKIFF [31.63, -101.8	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST 1.90] 05/22/11 17:10 CST 05/22/11 17:15 CST		0 0 0 ing blown over. Th 0 0	Source: Public Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS ne size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter Hail (1.00 in) Source: Public
Several tree limbs were snapped by strong wind g UPTON COUNTY 0.6 E MIDKIFF [31.63, -101.8	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST .90] 05/22/11 17:10 CST 05/22/11 17:15 CST		0 0 0 ing blown over. Th	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter Hail (1.00 in) Source: Public
MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g UPTON COUNTY 0.6 E MIDKIFF [31.63, -101.8 PECOS COUNTY 1.4 WSW IRAAN [30.91, -101 PECOS COUNTY 1.4 WSW IRAAN [30.91, -101 A surface low was located over the Trans Pecos Bend area through the Permian Basin. Thunder instability, low convective inhibition and sufficient	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST .90] 05/22/11 17:10 CST 05/22/11 17:15 CST .90] 05/22/11 19:00 CST 05/22/11 19:07 CST s region during the afternoo storms developed along thi	eel cattle trailer be	0 0 0 ing blown over. Th 0 0 0 0 0 ay, with a dryline equickly became se	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS The size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter Hail (1.00 in) Source: Public Hail (1.75 in) Source: Public Extending from the Big Evere. Moderate
Several tree limbs were snapped by strong wind g UPTON COUNTY 0.6 E MIDKIFF [31.63, -101.8 PECOS COUNTY 1.4 WSW IRAAN [30.91, -101 PECOS COUNTY 1.4 WSW IRAAN [30.91, -101 A surface low was located over the Trans Pecos Bend area through the Permian Basin. Thunder instability, low convective inhibition and sufficientours.	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST 1.90] 05/22/11 17:10 CST 05/22/11 17:15 CST 1.90] 05/22/11 19:00 CST 05/22/11 19:07 CST 3.90] cregion during the afternoostorms developed along thient deep layer shear support	eel cattle trailer be	0 0 0 ing blown over. Th 0 0 0 0 0 ay, with a dryline equickly became se	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS The size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter Hail (1.00 in) Source: Public Hail (1.75 in) Source: Public Extending from the Big Evere. Moderate
This report was relayed by the local radio station. MITCHELL COUNTY COLORADO CITY [32.40 Several tree limbs were snapped by strong wind g UPTON COUNTY 0.6 E MIDKIFF [31.63, -101.8 PECOS COUNTY 1.4 WSW IRAAN [30.91, -101] PECOS COUNTY 1.4 WSW IRAAN [30.91, -101] A surface low was located over the Trans Pecos Bend area through the Permian Basin. Thunder instability, low convective inhibition and sufficient hours.	05/22/11 16:35 CST Minor damage to tree limbs , -100.85] 05/22/11 16:50 CST 05/22/11 17:00 CST usts, in addition to an 18 who 4] 05/22/11 17:02 CST 05/22/11 17:07 CST 1.90] 05/22/11 17:10 CST 05/22/11 17:15 CST 1.90] 05/22/11 19:00 CST 05/22/11 19:07 CST 3.90] cregion during the afternoostorms developed along thient deep layer shear support	eel cattle trailer be	0 0 0 ing blown over. Th 0 0 0 0 0 ay, with a dryline equickly became se	Thunderstorm Wind (EG 56 kt) Source: CoCoRaHS The size of the tree limbs was unknown. Hail (1.00 in) Source: Trained Spotter Hail (1.00 in) Source: Public Hail (1.75 in) Source: Public Extending from the Big Evere. Moderate

 $\label{thm:condition} \textbf{The passing of a potent upper level trough resulted in strong westerly winds across the Guadalupe Mountains.}$

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
(TX-Z050) ANDREWS, (TX-Z062) MIDLAND				
	05/24/11 13:00 CST		0.22M	Wildfire
	05/25/11 01:00 CST		0	
Relative humidity values were near 5 percent Flag Warning were in effect for the Permian E	·	to 10 degrees at	oove normal. A Wi	ind Advisory and a Red
(TX-Z060) WINKLER				
	05/25/11 13:00 CST		0	Wildfire
	05/27/11 00:00 CST	1	0	
Low relative humidity values and gusty wind	s of 20 MPH or greater were pre	esent across the a	area. A red flag wa	arning was issued.
TX-Z258) GUADALUPE MOUNTAINS OF CUL	BERSON COUNTY			
	05/27/11 09:51 MST		0	High Wind (MAX 37 kt)
	05/27/11 15:51 MST		0	- 7
Strong mid level winds at the base of a passi	ng upper trough resulted in hig	h westerly winds	in the Guadalupe	Mountains.
(TX-Z258) GUADALUPE MOUNTAINS OF CUL	REPSON COUNTY			
TA LEGG COMPACT E MICONTAINS OF CUL	05/30/11 09:51 MST		0	High Wind (MAX 52 kt)
	05/30/11 15:51 MST		0	riigh vviild (WD X 32 Kt)
	er trough moving over the centi	ral Rocky Mounta	iins resuited in mg	gn westerry winds in the
Guadalupe Mountains.	0.58, -104.45] 05/31/11 18:30 CST	ral Rocky Mounta	0	Hail (2.75 in)
Strong mid level winds at the base of an upp Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST	ral Rocky Mounta		
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST	ral Rocky Mounta	0	Hail (2.75 in)
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail.	ral Rocky Mounta	0	Hail (2.75 in) Source: Park/Forest Service
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST	ral Rocky Mounta	0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in)
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail.	ral Rocky Mounta	0	Hail (2.75 in) Source: Park/Forest Service
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the park ranger of t	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST	ral Rocky Mounta	0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the park ranger of t	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST	ral Rocky Mounta	0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in)
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the park ranger of t	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST	ral Rocky Mounta	0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the JEFF DAVIS COUNTY 0.7 N VALENTINE [3	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 05/31/11 18:36 CST 05/31/11 18:36 CST	ral Rocky Mounta	0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in)
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the JEFF DAVIS COUNTY 0.7 N VALENTINE [3	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 05/31/11 18:36 CST 05/31/11 18:36 CST	ral Rocky Mounta	0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in)
Guadalupe Mountains. IEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the park ranger of th	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 05/31/11 18:41 CST	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 04.28] 05/31/11 18:41 CST 05/31/11 18:58 CST 05/31/11 18:58 CST 05/31/11 19:03 CST	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 05/31/11 18:41 CST 05/31/11 18:58 CST 05/31/11 18:58 CST 05/31/11 19:03 CST	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public Hail (2.00 in) Source: Trained Spotter
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 05/31/11 18:41 CST 05/31/11 18:58 CST 05/31/11 19:03 CST 05/31/11 19:03 CST	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public Hail (2.00 in) Source: Trained Spotter Hail (2.75 in)
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 05/31/11 18:41 CST 05/31/11 18:58 CST 05/31/11 18:58 CST 05/31/11 19:03 CST	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public Hail (2.00 in) Source: Trained Spotter
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the JEFF DAVIS COUNTY 0.7 N VALENTINE [3 PRESIDIO COUNTY 7.6 S RYAN [30.31, -10 GAINES COUNTY 3.1 SW HIGGINBOTHAM PRESIDIO COUNTY 1.5 NNW RUIDOSA HO	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 05/31/11 18:41 CST 1[32.87, -103.02] 05/31/11 18:58 CST 05/31/11 19:03 CST 05/31/11 19:03 CST 05/31/11 19:50 CST 05/31/11 19:50 CST	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public Hail (2.00 in) Source: Trained Spotter Hail (2.75 in)
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3 The park ranger's windshield was broken by the	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 04.28] 05/31/11 18:41 CST 05/31/11 18:58 CST 05/31/11 19:03 CST 07 SPGS ARP [30.02, -104.66] 05/31/11 19:50 CST 05/31/11 20:10 CST n radar data.	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public Hail (2.00 in) Source: Trained Spotter Hail (2.75 in)
Guadalupe Mountains. JEFF DAVIS COUNTY 3.0 E VALENTINE [3] The park ranger's windshield was broken by the park ranger's windshield was broken by the JEFF DAVIS COUNTY 0.7 N VALENTINE [3] PRESIDIO COUNTY 7.6 S RYAN [30.31, -10] GAINES COUNTY 3.1 SW HIGGINBOTHAM PRESIDIO COUNTY 1.5 NNW RUIDOSA HOUTH 1.	0.58, -104.45] 05/31/11 18:30 CST 05/31/11 18:35 CST e hail. 0.59, -104.50] 05/31/11 18:36 CST 05/31/11 18:41 CST 04.28] 05/31/11 18:41 CST 05/31/11 18:58 CST 05/31/11 19:03 CST 07 SPGS ARP [30.02, -104.66] 05/31/11 19:50 CST 05/31/11 20:10 CST n radar data.	ral Rocky Mounta	0 0 0 0	Hail (2.75 in) Source: Park/Forest Service Hail (1.25 in) Source: Public Hail (1.50 in) Source: Public Hail (2.00 in) Source: Trained Spotter Hail (2.75 in)

A warm front draped across the region and orographic lift combined with a passing mid to upper level shortwave trough to produce thunderstorms across southeast New Mexico and the Davis Mountains of west Texas. Very steep mid level lapse rates, moderate instability and sufficient deep layer shear resulted in very large hail reports.

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