## Storm Data and Unusual Weather Phenomena - February 2024

	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
ΓΕΧΑS, South Panhandle				
HALE COUNTY 8.4 SE SETH V	WARD [34.14, -101.57] 02/02/24 16:21 CST		0	Thunderstorm Wind (MC 50 kt)
	02/02/24 16:21 CST 02/02/24 16:21 CST		0	Thunderstorm Wind (MG 50 kt) Source: Mesonet
A Texas Tech University West Tex	as mesonet site near Aiken measured a wind	gust to 58 mph.		
HALL COUNTY 1.6 E TAMPICO	O [34 48 -100 70]			
	02/02/24 17:27 CST		0	Hail (1.00 in)
	02/02/24 17:27 CST		0	Source: Trained Spotter
A trained spotter reported hail up	to quarter size along Texas State Highway 86	between Turkey a	nd Estelline.	
COTTLE COUNTY 2.0 SE HAC	CKBERRY [33.91, -100.13]			
	02/02/24 17:56 CST		0	Thunderstorm Wind (MG 56 kt)
	02/02/24 17:57 CST		0	Source: Mesonet
A Texas Tech University West Tex mph was measured at 1756 CST.	as mesonet site near Hackberry measured se	evere wind gusts fr	om 1756 CST thro	ough 1757 CST. A peak wind gust of 64
CHILDRESS COUNTY 8.0 S CI	HILDRESS [34.30, -100.20], CHILDRESS [34.	.42, -100.20]		
ocal broadcast media relayed a narge as half dollars.	02/02/24 18:16 CST 02/02/24 18:22 CST report of a swath of hail extending from the C	hildress/Cottle Cou		
Local broadcast media relayed a narge as half dollars.  A negatively tilted short wave troe Rolling Plains and far southeaste dryline. Although temperatures wastebility for severe thundersto	02/02/24 18:16 CST 02/02/24 18:22 CST  report of a swath of hail extending from the Co  ough moving across the southwestern US sern Texas Panhandle. Thunderstorms devel were relatively cool, strong boundary layer rm development. Thunderstorms produced	et the stage for a oped initially in the moisture and stee several severe wi	0 Inty line into Childr cool season seve ne eastern South F p mid level lapse	Source: Broadcast Media ress. Hail ranged from quarters to as we weather event in the Plains along an advancing rates led to ample
Local broadcast media relayed a relayed a relayed a relayed as half dollars.  A negatively tilted short wave troestory to the second and far southeast dryline. Although temperatures winstability for severe thunderstory and Rolling Plains and a swath or	02/02/24 18:16 CST 02/02/24 18:22 CST  report of a swath of hail extending from the Coough moving across the southwestern US sern Texas Panhandle. Thunderstorms developed were relatively cool, strong boundary layer	et the stage for a oped initially in the moisture and stee several severe wi	0 Inty line into Childr cool season seve ne eastern South F p mid level lapse	Source: Broadcast Media ress. Hail ranged from quarters to as we weather event in the Plains along an advancing rates led to ample
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Local broadcast media relayed a relayed a relayed a relayed as half dollars.  A negatively tilted short wave troestory to the second and far southeast dryline. Although temperatures winstability for severe thunderstory and Rolling Plains and a swath or	02/02/24 18:16 CST 02/02/24 18:22 CST  report of a swath of hail extending from the Clough moving across the southwestern US sern Texas Panhandle. Thunderstorms develowere relatively cool, strong boundary layer rm development. Thunderstorms produced of severe hail in and around Childress (Child	et the stage for a oped initially in the moisture and stee several severe wi	0 unty line into Childr cool season seve ne eastern South F p mid level lapse nd gusts across t	Source: Broadcast Media ress. Hail ranged from quarters to as re weather event in the Plains along an advancing rates led to ample the eastern South Plains
Local broadcast media relayed a relayed a relayed as large as half dollars.  A negatively tilted short wave troughing Plains and far southeast dryline. Although temperatures winstability for severe thundersto and Rolling Plains and a swath of the company of the seventh. Impressive large so within the atmosphere was limited became enhanced by the virga serial says and the seventh.	02/02/24 18:16 CST 02/02/24 18:22 CST  report of a swath of hail extending from the Clough moving across the southwestern US sern Texas Panhandle. Thunderstorms development across the southwestern US sern Texas Panhandle. Thunderstorms produced of severe hail in and around Childress (Child 02/07/24 17:28 CST	et the stage for a loped initially in the moisture and stee several severe widress County).  t strong winds and on associated with the virga showers. Dimmitt (Castro County)	onty line into Childroool season sevene eastern South Fip mid level lapse nd gusts across to 0 0 0 d light rain showe ha 140 knot jet st Strong winds alrecounty).	Source: Broadcast Media ress. Hail ranged from quarters to as re weather event in the Plains along an advancing rates led to ample the eastern South Plains  High Wind (MAX 56 kt)  ers on the afternoon of treak. However, moisture eady at the surface
Local broadcast media relayed a relayed a relayed as half dollars.  A negatively tilted short wave troughing Plains and far southeast dryline. Although temperatures winstability for severe thunderstonand Rolling Plains and a swath of the company of the seventh. Impressive large so within the atmosphere was limited became enhanced by the virga second and company of the seventh.	02/02/24 18:16 CST 02/02/24 18:22 CST  report of a swath of hail extending from the Cough moving across the southwestern US seen Texas Panhandle. Thunderstorms develowere relatively cool, strong boundary layer rm development. Thunderstorms produced of severe hail in and around Childress (Child 02/07/24 17:28 CST 02/07/24 17:45 CST  acking across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions acking across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern US brought cale ascent spread over the West Texas regions across the southwestern user across the southwestern user across the southwestern user acro	et the stage for a loped initially in the moisture and stee several severe widress County).  t strong winds and on associated with the virga showers. Dimmitt (Castro County)	onty line into Childroool season sevene eastern South Figure 1 pmid level lapse and gusts across to 0 0 0 dlight rain showe he a 140 knot jet st Strong winds alrecounty).	Source: Broadcast Media ress. Hail ranged from quarters to as re weather event in the Plains along an advancing rates led to ample the eastern South Plains  High Wind (MAX 56 kt)  ers on the afternoon of treak. However, moisture eady at the surface
Local broadcast media relayed a relayed a relayed as half dollars.  A negatively tilted short wave tro Rolling Plains and far southeaste dryline. Although temperatures or instability for severe thunderstor and Rolling Plains and a swath of (TX-Z022) CASTRO  A powerful short wave trough tra the seventh. Impressive large so within the atmosphere was limite became enhanced by the virga s (TX-Z021) PARMER, (TX-Z033) Co	02/02/24 18:16 CST 02/02/24 18:22 CST  report of a swath of hail extending from the Cough moving across the southwestern US seern Texas Panhandle. Thunderstorms develowere relatively cool, strong boundary layer rm development. Thunderstorms produced of severe hail in and around Childress (Child 02/07/24 17:28 CST 02/07/24 17:45 CST  acking across the southwestern US brough cale ascent spread over the West Texas region ed to the mid and upper levels which broug showers producing a severe wind gust near OCHRAN, (TX-Z036) CROSBY, (TX-Z038) KII 02/11/24 03:00 CST	et the stage for a oped initially in the moisture and stee several severe with dress County).  t strong winds and on associated with the virga showers. Dimmitt (Castro CNG, (TX-Z040) TEI	onty line into Childron cool season seven seastern South Figure 1 pmid level lapse and gusts across to 0 0 0 d light rain showers a 140 knot jet st Strong winds alrecounty).  RRY, (TX-Z041) LY 0 0 0	Source: Broadcast Media ress. Hail ranged from quarters to as re weather event in the Plains along an advancing rates led to ample the eastern South Plains  High Wind (MAX 56 kt)  ers on the afternoon of treak. However, moisture eady at the surface  (NN) Winter Weather

for the South Plains, southern Texas Panhandle, and northern and central Rolling Plains, before finally diminishing from west to east in

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primary storm system emerged over the region. A good portion of the South Plains did see sunshine and mild temperatures during the afternoon, but that quickly changed that night as colder air moved in behind a backdoor cold front. Immediately in advance of the colder air, a broken line of non-severe thunderstorms formed over the southern Rolling Plains but quickly shifted off to the east. Behind the cold front temperatures dipped into the lower 30s and upper 20s during the early morning hours of the 11th just as precipitation expanded in coverage and intensity. The rain changed to snow from northwest to southeast across the South Plains and Rolling Plains as the colder air moved in. The exception was across the far southern Rolling Plains, around Stonewall and Kent Counties, where temperatures remained mild enough to keep the precipitation a cold rain. The snow, heavy at times, continued through much of the day

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the evening as the upper level system shifted off into Oklahoma and North Texas. The heaviest snow was concentrated across the northern South Plains and south-central Texas Panhandle where totals in excess of six inches were common.

Snowfall reports from NWS cooperative weather observers are listed below:

12.0 inches at Plainview (Hale County),

11.0 inches at Olton (Lamb County),

10.0 inches at Vigo Park (Swisher County),

10.0 inches at Turkey (Hall County),

9.4 inches at Abernathy (Hale County),

8.7 inches at Floydada (Floyd County),

8.5 inches at Hart (Castro County),

7.5 inches at Flomot 2E (Motley County),

7.0 inches at Dimmitt (Castro County),

6.0 inches at Littlefield 5SE (Lamb County),

6.0 inches at Silverton (Briscoe County),

6.0 inches at Roaring Springs (Motley County),

5.7 inches at Shallowater (Lubbock County),

5.7 inches at Reese 4E (Lubbock County),

5.5 inches at Ropesville 6NNW (Hockley County),

5.0 inches at Tulia (Swisher County),

5.0 inches at Muleshoe Wildlife Refuge (Bailey County),

5.0 inches at Matador (Motley County),

5.0 inches at Northfield (Motley County),

5.0 inches at Paducah 10S (Cottle County),

5.0 inches at Floydada 9SE (Floyd County),

4.5 inches at Muleshoe (Bailey County),

4.0 inches at Childress (Childress County),

4.0 inches at Tell 3S (Childress County),

4.0 inches at Woodrow 3W (Lubbock County),

3.6 inches at Lubbock Preston Smith International Airport (Lubbock County),

3.3 inches at Morton (Cochran County),

3.2 inches at Levelland (Hockley County),

3.1 inches at Dumont (King County),

3.0 inches at Paducah 7E (Cottle County),

3.0 inches at Friona (Parmer County),

2.5 inches at Kirkland 1W (Childress County),

2.5 inches at Dodson 5S (Childress County),

2.3 inches at Childress 7NW (Childress County),

2.0 inches at Slaton (Lubbock County),

2.0 inches at Crosbyton (Crosby County),

2.0 inches at Memphis (Hall County),

1.8 inches at Southland (Garza County),

1.5 inches at Brownfield (Terry County), and

1.0 inch at Tahoka (Lynn County).

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z023) SWISHER, (TX-Z024) BRISCOE, (TX-Z025) HALL, (TX-Z027) BAILEY, (TX-Z028) LAMB, (TX-Z029)

HALE, (TX-Z030) FLOYD, (TX-Z033) COCHRAN, (TX-Z034) HOCKLEY, (TX-Z035) LUBBOCK, (TX-Z039) YOAKUM

02/27/24 11:06 CST

High Wind (MAX 56 kt)

02/27/24 18:26 CST 0

A large storm system digging into the four corners region spread strong wind energy across a large portion of the nation including a large portion of West Texas. Warm temperatures allowed for deep boundary layer mixing which permitted strong winds aloft to mix down to the surface. The strong winds also lifted dust over the South Plains, dropping the visibility as low as two miles in Lubbock (Lubbock County) on the afternoon of the 27th.

High wind gusts from the Texas Tech University West Texas mesonet network are below:

64 mph at Turkey (Hall County),

61 mph at Muleshoe (Bailey County),

58 mph at Silverton (Briscoe County),

58 mph at Lesley (Hall County),

58 mph at Sundown (Cochran County), and

58 mph at Hart (Castro County).

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The following high wind reports are from Automated Surface Observing Stations (ASOS):

62 mph at Lubbock International Airport (Lubbock County).

Sustained high winds of 40 mph or greater were observed by the Texas Tech University West Texas mesonet sites below:

45 mph at Levelland (Hockley County),

44 mph at Earth (Lamb County),

44 mph at Happy (Swisher County),

44 mph at Amherst (Lamb County),

43 mph at Abernathy (Hale County),

42 mph at Tulia (Swisher County),

42 mph at South Plains (Floyd County),

42 mph at Friona (Parmer County),

42 mph at Denver City (Yoakum County),

41 mph at Olton (Lamb County), and

41 mph at Floydada (Floyd County).

(TX-Z021) PARMER, (TX-Z022) CASTRO, (TX-Z027) BAILEY, (TX-Z028) LAMB

02/29/24 04:00 CST 0 Winter Weather 02/29/24 11:00 CST 0

A quick-moving, but potent disturbance moving across southern New Mexico and Far West Texas brought strong lift and enough moisture to generate widespread precipitation. Initially, the lower atmosphere was quite dry, but as it moistened from cloud level downward, the precipitation did make it all the way to the surface. Temperatures were cool enough in the extreme southwestern Texas Panhandle to see accumulating snowfall.

Snowfall reports from NWS cooperative weather observers are listed below:

3.0 inches at Friona (Parmer County),

2.8 inches at Farwell (Parmer County),

2.5 inches at Muleshoe (Bailey County),

1.8 inches at Olton (Lamb County),

1.5 inches at Dimmitt (Castro County),

1.0 inch at Earth (Lamb County), and

1.0 inch at Hart (Castro County).

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