

## Storm Data and Unusual Weather Phenomena - November 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
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### OKLAHOMA, Panhandle

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#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

11/01/13 00:00 CST	0	Drought
11/30/13 23:59 CST	0	

The month of November was near normal for precipitation across most of the Oklahoma Panhandle, though this precipitation was largely from a snow event early in the month. This led to steady drought conditions across the Oklahoma Panhandle. Portions of Texas County in the central Oklahoma Panhandle remain in Extreme (D3) Drought rating, the rest of the central Panhandle and eastern Panhandle remain at Severe (D2) Drought rating, and the far western Panhandle remains below D2 Drought rating. Guymon recorded 0.68 inches of precipitation for the month (0.15 inches above normal).

Harvest of summer crops and planting for winter wheat was mostly finished by the beginning of November across the Oklahoma Panhandle. Reports of decent summer crop yields were received from across the Panhandle from both irrigated and dryland fields. Winter wheat was struggling, with some dryland wheat dead or not planted in the driest areas. Snowfall events during the month helped upper soil zones from drying out completely, though these zones remained drier than normal. Deeper soil zones ranged from less than 30 to greater than 100 percent of normal across the Oklahoma Panhandle. The Palmer Drought Severity Index remained at a rating of Near Normal for the Oklahoma Panhandle as the month's precipitation eased some long term impacts. No countywide burn bans were in effect.

Reservoirs and stream flows across the majority of the Oklahoma Panhandle were at near normal levels.

Economic losses due to the drought through November were predominately the result of supplemental watering, reduction of cattle herd sizes, and supplemental feed for cattle on drought-thinned rangeland and pastures.

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#### (OK-Z002) TEXAS, (OK-Z003) BEAVER

11/10/13 03:40 CST	0	Dense Fog
11/10/13 10:53 CST	0	

Clear skies and light winds across the Oklahoma Panhandle allowed strong radiational cooling during the early morning hours of the 10th. The strong cooling coupled with low level moisture in place across the panhandle to cause the development of dense fog. The dense fog caused traffic issues during the morning commute across the panhandle. By 11 am, low level mixing increased and dissipated the dense fog. The following towns dropped to a quarter mile or less visibility across the Oklahoma Panhandle: Guymon (Texas County) and Beaver (Beaver County).

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#### (OK-Z002) TEXAS, (OK-Z003) BEAVER

11/10/13 23:00 CST	0	Dense Fog
11/11/13 10:00 CST	0	

Clear skies and light winds across the Oklahoma Panhandle allowed strong radiational cooling during the late night hours of the 10th. The strong cooling coupled with low level moisture in place across the panhandle to cause the development of dense fog. The dense fog caused traffic issues during the morning commute across the panhandle. By 10 am on the 11th, low level mixing increased and dissipated the dense fog. The following towns dropped to a quarter mile or less visibility across the Oklahoma Panhandle: Guymon (Texas County) and Beaver (Beaver County).

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#### (OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER

11/21/13 23:00 CST	0	Winter Weather
11/23/13 04:00 CST	0	

A very strong cold front dove through the Oklahoma Panhandle during the day of the 21st. The cold airmass behind the front was fairly shallow with the lowest five to six thousand feet reaching temperatures below freezing. Above this cold near surface layer was a five to six thousand foot deep above freezing warm layer. This warm noise and a relative lack of moisture in the snow growth region of the atmosphere kept the precipitation type during the late night hours of the 21st mainly freezing drizzle. As the hours progressed into the early morning hours of the 22nd, the Dodge City, Kansas upper air sounding showed the snow growth region was saturating. This allowed for the precipitation type to transition to a freezing drizzle, sleet, and snow grain mixture. Precipitation transitioned to more of a sleet/snow mixture across the Oklahoma Panhandle through the 22nd and into the morning hours of the 23rd due to the warm layer aloft cooling to near freezing as seen from the Dodge City, Kansas upper air sounding.

Each county of the Oklahoma Panhandle was impacted by this wintry mixture of precipitation. Freezing drizzle was reported in Guymon (Texas County) by school officials. They stated that between Hooker (Texas County) and the Beaver County line was where freezing drizzle transitioned to snow. By 8:00 AM CST on the 22nd, the Beaver County Emergency Manager reported that there was less than an inch of snow on the ground, and that roadways remained in good condition. Once scattered wintry precipitation ended, Cimarron County

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had received an estimated one inch of snow as snow bands moved from Dallam County into the western Oklahoma Panhandle.

**(OK-Z001) CIMARRON, (OK-Z002) TEXAS, (OK-Z003) BEAVER**

11/24/13 08:00 CST	0	Winter Weather
11/24/13 14:00 CST	0	

A slow moving upper level low brought one to two inches of snow to the Oklahoma Panhandle on the 24th of November. As the upper low moved over New Mexico, the associated jet streak provided large scale lift sufficient to produce a snow band across the Eastern Plains of New Mexico which would move northeastward across the Texas Panhandle before reaching the Oklahoma Panhandle during the morning hours of the 24th. The 6 AM CST upper air sounding from Amarillo, TX (Potter County) on the 24th showed drier air was slowly working its way into the Texas Panhandle. The influence of the drier air infiltrating the Southern Plains caused the snow band to weaken before completely diminishing by 2 PM CST. By this point Boise City (Cimarron County) had managed to accumulate 2.0 inches of snow, Guymon (Texas County) accumulated 1.5 inches of snow, and Beaver (Beaver County) managed to accumulate 1.0 inch of snow. No reports of vehicle accidents were reported in association to this snow.

### TEXAS, North Panhandle

**(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z016) DEAF SMITH**

11/01/13 00:00 CST	0	Drought
11/30/13 23:59 CST	0	

The month of November was a relatively dry month for most of the Texas Panhandle, with the exceptions being a snow event early in the month for the northwest Texas Panhandle and a snow event for the southern Texas Panhandle at end of the month. This led to a near steady state of drought conditions across the Texas Panhandle, with slight improvement in the northwest. Portions of the northwest Texas Panhandle remain in Extreme (D3) Drought rating while the remainder of the western half of the Texas Panhandle remains at Moderate (D1) to Severe (D2) Drought rating. The eastern half of the Texas Panhandle remains below Severe (D2) Drought rating. Amarillo recorded 0.51 inches of precipitation for the month (0.29 inches below normal), Dalhart recorded 0.85 inches of precipitation (0.27 inches above normal), and Borger recorded 0.84 inches of precipitation (0.01 inch above normal).

Harvest of summer crops and planting for winter wheat continued during November across the Texas Panhandle. The Texas A&M Agrilife Program received reports of decent summer crop yields from across the Panhandle from both irrigated and dryland fields. Winter wheat was struggling, with reports from the northwest Texas Panhandle indicating some dryland wheat was already dead. Snowfall events during the month helped upper soil zones from drying out completely, though these zones remained drier than normal. Deeper soil zones ranged from less than 30 to around 50 percent of normal in the western Texas Panhandle. The Palmer Drought Severity Index improved to a rating of Moderate Drought for the Texas Panhandle as the month's precipitation eased some long term impacts. Countywide burn bans continue to be supported in Moore, Roberts, Hemphill, Randall, and Armstrong Counties.

Reservoirs and stream flows across the majority of the Panhandle were at near or below normal levels, causing Moderate to Severe Hydrologic Drought especially in the southern Texas Panhandle. The reservoirs of Palo Duro and Greenbelt Lake are both below 15 percent capacity, and Lake Meredith is at zero percent capacity. Water watches for several public water systems persisted through November while voluntary to mandatory mild water restrictions have been enacted.

Economic losses due to the drought through November were predominately the result of supplemental watering, reduction of cattle herd sizes, and supplemental feed for cattle on drought-thinned rangeland and pastures.

**(TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z018) ARMSTRONG**

11/06/13 05:00 CST	0	Cold/Wind Chill
11/06/13 08:00 CST	0	

A cold front moved through the Texas Panhandle during the early morning hours of the 6th. The cooler post frontal airmass allowed temperatures to reach freezing prior to sunrise on the 6th. These subfreezing temperatures threatened sensitive vegetation during the growing season. Overnight low temperatures ranged from 29 degrees at McLean (Gray County) to 31 degrees at Panhandle (Carson County). After sunrise on the 6th, temperatures quickly warmed above freezing by 8:00 AM CST.

**(TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH**

11/06/13 23:15 CST	0	Cold/Wind Chill
11/07/13 08:00 CST	0	

A cold front moved through the Texas Panhandle during the early afternoon hours of the 6th. The cooler post frontal airmass allowed temperatures to reach freezing during the early evening hours of the 6th and persist into the morning hours of the 7th. These

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subfreezing temperatures threatened sensitive vegetation during the growing season. Overnight low temperatures ranged from 27 degrees at Panhandle (Carson County) to 30 degrees at Samnorwood (Collingsworth County). After sunrise on the 7th, temperatures quickly warmed above freezing by 9:00 AM CST.

(TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH

11/10/13 03:40 CST	0	Dense Fog
11/10/13 10:53 CST	0	

Clear skies and light winds across the Texas Panhandle allowed strong radiational cooling during the early morning hours of the 10th. The strong cooling coupled with low level moisture in place across the panhandle to cause the development of dense fog. The dense fog caused traffic issues during the morning commute across the panhandle. By 11 am, low level mixing increased and dissipated the dense fog. The following towns dropped to a quarter mile or less visibility across the Texas Panhandle: Borger (Hutchinson County); Miami (Roberts County); Canadian (Hemphill County); Panhandle (Carson County); Pampa (Gray County); Shamrock (Wheeler County); Claude (Armstrong County); Clarendon (Donley County); Wellington (Collingsworth); Stratford (Sherman County); Spearman (Hansford County); Perryton (Ochiltree County); Lipscomb (Lipscomb County); Dumas (Moore County); and Amarillo (Randall and Potter County).

(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY, (TX-Z015) WHEELER, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH

11/10/13 23:00 CST	0	Dense Fog
11/11/13 10:00 CST	0	

Clear skies and light winds across the Texas Panhandle allowed strong radiational cooling during the late night hours of the 10th. The strong cooling coupled with low level moisture in place across the panhandle to cause the development of dense fog. The dense fog caused traffic issues during the morning commute across the panhandle. By 10 am on the 11th, low level mixing increased and dissipated the dense fog. The following towns dropped to a quarter mile or less visibility across the Texas Panhandle: Borger (Hutchinson County); Miami (Roberts County); Canadian (Hemphill County); Panhandle (Carson County); Pampa (Gray County); Shamrock (Wheeler County); Claude (Armstrong County); Clarendon (Donley County); Wellington (Collingsworth); Stratford (Sherman County); Spearman (Hansford County); Perryton (Ochiltree County); Lipscomb (Lipscomb County); Dumas (Moore County); Dalhart (Dallam and Hartley county); and Amarillo (Randall and Potter County).

(TX-Z002) SHERMAN, (TX-Z004) OCHILTREE, (TX-Z006) HARTLEY, (TX-Z007) MOORE

11/16/13 11:55 CST	0	High Wind (MAX 38 kt)
11/16/13 14:40 CST	0	

The Texas Panhandle experienced a windy day with some locations reaching high wind criteria during the early afternoon hours of the 16th. The surface pressure gradient across the Texas Panhandle increased through the morning hours of the 16th in response to a closed surface low over northeastern Iowa. This strengthening pressure gradient increased sustained surface winds across the Panhandles into the 35 mph to 40 mph range. Sherman, Ochiltree, Hartley, and Moore counties saw sustained surface wind of 40 mph for 2 to 3 hours due to a slightly stronger pressure gradient across those counties. Strong 60 mph to 70 mph winds aloft also managed to mix to the surface which caused localized high wind gusts. The Dumas AWOS reported a 58 mph wind gust at 1:55 PM CST, and the Dalhart ASOS reported a 62 mph gust at 1:28 PM CST. By 3 PM CST, the surface pressure gradient across the Texas Panhandle weakened as a closed surface low moved into southeastern Colorado.

(TX-Z002) SHERMAN

11/16/13 14:00 CST	0	Dust Storm
11/16/13 14:30 CST	0	

The Texas Panhandle experienced a windy day with some locations reaching high wind criteria during the early afternoon hours of the 16th. The surface pressure gradient across the Texas Panhandle increased through the morning hours of the 16th in response to a closed surface low over northeastern Iowa. This strengthening pressure gradient increased sustained surface winds across the Panhandles into the 35 mph to 40 mph range. Sherman, Ochiltree, Hartley, and Moore counties saw sustained surface wind of 40 mph for 2 to 3 hours due to a slightly stronger pressure gradient across those counties. These high winds picked up dust and dirt which caused near zero visibility on U.S Highway 287 south of the town of Stratford (Sherman County). The low visibility led to a multiple-car pile-up involving 5 cars and two tractor trailers around 2:00 PM CST. Seven of the 14 people involved were taken to the hospital with only one being listed in serious condition. By 3 PM CST, the surface pressure gradient across the Texas Panhandle weakened as a closed surface low moved into southeastern Colorado which brought an end to the lower visibilities.

(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH

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	11/21/13 23:00 CST		0.33M	Winter Weather
	11/23/13 06:00 CST		0	

A very strong cold front dove through the Texas Panhandle during the day of the 21st. The cold airmass behind the front was fairly shallow with the lowest five to six thousand feet reaching temperatures below freezing. Above this cold near surface layer was a five to six thousand foot deep above freezing warm layer. This warm noise and a relative lack of moisture in the snow growth region of the atmosphere kept the precipitation type during the late night hours of the 21st mainly freezing drizzle. As the hours progressed into the early morning hours of the 22nd, the Dodge City, Kansas upper air sounding showed the snow growth region was saturating. This allowed for the precipitation type to transition to a freezing drizzle, sleet, and snow grain mixture. Precipitation remained a freezing drizzle, sleet, and snow grains mixture through the morning hours of the 23rd due to the snow growth region not becoming sufficiently saturated as observed on the Amarillo, Texas upper air sounding.

Several counties across the Texas Panhandle were impacted by this wintry mixture of precipitation. Sleet was first reported in Dalhart (Hartley and Dallam County) shortly before midnight on the 22nd while around a half hour later a member of the local broadcast media reported freezing drizzle on the southwest side of the city of Amarillo (Potter and Randall County). It wasn't until 3:35 AM CST on the 22nd that the Amarillo ASOS reported freezing drizzle. The freezing drizzle reported at the Amarillo (Randall and Potter County) moved to the northeast and created a few slick spots on roadways near Pantex (Carson County) Shortly before 5:00 AM CST, a NWS employee reported spotty slick road conditions, mainly on bridges and overpasses, on the east side of town due to both freezing drizzle and snow grains. Around this same time, a trained spotter reported one to two inches of snow on the highways around the town of Texline (Dallam County), and crews were working to plow the highways. The snow band that created the inch of snow in Dallam County moved over the city for Stratford (Sherman County) before dissipating. The NWS COOP observer in Borger (Hutchinson County) also reported light sleet between 4:00 AM CST and 7:00 AM CST as a cell from Dumas (Moore County). Once the morning commute commenced around 7:00 AM CST on the 22nd, the Canyon (Randall County) Fire and Rescue reported black ice on Interstate 27 south of Loop 335 (Randall County) caused 3 to 4 vehicle accidents. A weather related accident was also reported in Armstrong County on US Highway 287 near the town of Goodnight. No reports of serious injuries were reported in association to these accidents. By 8:30 AM CST, the Collingsworth County Judge reported sleet had begun in the town of Wellington. By 10:00 AM CST, the Texas Department of Transportation based in Clarendon (Donley County) reported sleet covering the ground in town, and that slick roads were the cause of three semi-tractor trailers jack-knifing on US. Highway 287 between Goodnight (Armstrong County) and Clarendon (Donley County). They also reported US Highway 70 was becoming icy.

The combination of scattered precipitation and road crews working to keep roadways clear led to a lull in reports of accidents until the early morning hours of the 23rd. A NWS employee reported freezing rain on the eastern side of Amarillo (Potter and Randall County), and that there was an accident near the Big Texan Steak House (Potter County) around 1:30 AM CST. The freezing rain also led to icy conditions on streets in the town of Hereford (Deaf Smith County), on US Highway 60, and State Highway 385 within the county. Freezing rain also led to three vehicle accidents which involving 11 vehicles, causing 20 individuals to be transported to local hospitals, and resulted in three fatalities. A series of vehicle collisions began when two tractor trailers collided in the eastbound lane of Interstate 40. Motorist behind the tractor trailers lost control of their vehicles due to ice while trying to avoid the initial accident. Two passenger vehicles and seven tractor trailers collided with the initial tractor trailers. One fatality occurred when the driver of one of the wrecked tractor trailer exited the vehicle before being struck by another vehicle that had lost control and one passenger on each of the passenger vehicles were killed. The eastbound lanes of Interstate 40 near Vega (Oldham County) remained closed until the wrecked vehicles could be removed.

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(TX-Z001) DALLAM, (TX-Z002) SHERMAN, (TX-Z003) HANSFORD, (TX-Z004) OCHILTREE, (TX-Z005) LIPSCOMB, (TX-Z006) HARTLEY, (TX-Z007) MOORE, (TX-Z008) HUTCHINSON, (TX-Z009) ROBERTS, (TX-Z010) HEMPHILL, (TX-Z011) OLDHAM, (TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z014) GRAY

11/23/13 11:00 CST	0	Winter Weather
11/24/13 14:00 CST	0	

A slow moving upper level low brought several inches of snow to the Texas and Oklahoma Panhandle from the 23rd to the 24th of November. As the upper low moved over New Mexico, the associated jet streak provided large scale lift sufficient to produce scattered snow bands across the southern Texas Panhandle during the early evening hours of the 23rd. Moisture deficiency in the snow growth region of the atmosphere had been a hindrance for efficient snow production earlier in the week, but the 6 PM CST upper air sounding from Amarillo showed saturated conditions in the snow growth region. These scattered snow bands were able to quickly generate one to two inches of snow across the southern Texas Panhandle due the higher moisture availability. This snow band would move to the northwest before diminishing over the northeastern Texas Panhandle. After a brief lull, another snow band developed across the Eastern Plains of New Mexico and moved northeastward into the southwestern Texas Panhandle. The 6 AM CST upper air sounding from Amarillo on the 24th showed that drier air was beginning to work its way into the Texas Panhandle. However, the extreme northern portion of the snow bands reached the Oklahoma Panhandle. As this band reached the Oklahoma Panhandle, the influence of the drier air infiltrating the Southern Plains became more evident. The main snow band diminished and all further snow showers that developed through midday on the 24th became isolated in coverage. Ultimately by 2 PM, snow shower activity came to an end as more dry air filtered into the Panhandles and the large scale lift from the upper level low shifted to the east.

The snow that was produced across the Texas Panhandle from the 23rd to the 24th of November did not only result in a daily record snowfall for Amarillo (Potter County) for the 23rd, but also caused several vehicle accidents. One such accident occurred around 9:44

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PM CST on the 23rd north of Dumas (Moore County). The driver of a 2002 Ford Ranger traveling in the southbound lane of U.S. Highway 287 lost control of the vehicle and drove over a curb. This caused the vehicle to roll several times before coming to a stop. Police in the seen stated that the driver had been traveling too fast on the snow covered roadway. The driver of the pickup was pronounced deceased at the scene of the wreck. Another wreck involving a pickup and a van in Potter County resulted in one fatality and three injuries at 8:20 PM CST. The driver of the 1990 Toyota pickup was traveling southbound on U.S. Highway 87, and was traveling too fast for the hazardous road conditions. The truck swerved into the northbound lanes before leaving the roadway. At the same location, a 2009 Ford van, which had previously wreck in the northbound lanes of U.S. Highway 87), was parked. The pickup struck the parked van which caused the pickup to flip onto the driver side. The passenger was not wearing a restrain and was pronounced deceased at the scene. The driver of the pickup and the two occupants of the parked van were taken to the local hospital for injuries. By November 25th, the Amarillo District of the Texas Department of Public Safety reported it responded to nearly 150 vehicle accidents from Friday to Sunday, and did not have a preliminary number of injuries related to those accidents.

The following is a list of snow reports from across the Texas Panhandle: Texline 3.0 inches (Dallam County); Stratford 2.3 inches (Sherman County); Spearman 2.5 inches (Hansford County); 1 mile northeast of Gruver 3.0 inches (Hansford County); Perryton 2.5 inches (Ochiltree County); Lipscomb 2.0 inches (Lipscomb County); Dalhart 3.5 inches (Hartley County); Dumas 4.0 inches (Moore County); Borger 4.5 inches (Hutchinson County); 20 miles southeast of Spearman 3.6 inches (Roberts County); Miami 3.0 inches (Roberts County); Canadian 2.0 inches (Hemphill County); Vega 4.0 inches (Oldham County); 2 miles south of Wildorado 4.5 inches (Oldham County); Boys Ranch 4.0 inches (Oldham County); 7 miles east-northeast of Amarillo 4.3 inches (Potter County); Amarillo 2.5 inches (Potter County); 1 mile west-southwest of Bushland 4.0 inches (Potter County); 5 miles north of Amarillo 4.0 inches (Potter County); 6 miles west of Amarillo 4.0 inches (Potter County); White Deer 5.0 inches (Carson County); and 6 miles southwest of Pampa 3.0 inches (Gray County).

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(TX-Z015) WHEELER, (TX-Z016) DEAF SMITH, (TX-Z017) RANDALL, (TX-Z018) ARMSTRONG, (TX-Z019) DONLEY, (TX-Z020) COLLINGSWORTH

11/23/13 11:00 CST	0	Winter Storm
11/24/13 14:00 CST	0	

A slow moving upper level low brought several inches of snow to the Texas Panhandle from the 23rd to the 24th of November. As the upper low moved over New Mexico, the associated jet streak provided large scale lift sufficient to produce scattered snow bands across the southern Texas Panhandle during the early evening hours of the 23rd. Moisture deficiency in the snow growth region of the atmosphere had been a hindrance for efficient snow production earlier in the week, but the 6 PM CST upper air sounding from Amarillo showed saturated conditions in the snow growth region. These scattered snow bands were able to quickly generate one to two inches of snow across the southern Texas Panhandle due the higher moisture availability. This snow band would move to the northwest before diminishing over the northeastern Texas Panhandle. After a brief lull, another snow band developed across the Eastern Plains of New Mexico and moved northeastward into the southwestern Texas Panhandle. By midnight of the 24th, a band of increased radar echo returns, an indicator of more intense snow production, became evident on area radars moving northward from Lubbock, Texas (Lubbock County). This band would eventually move into the south central and southeastern portion of the Texas Panhandle. The increased snow production and residency time of this stronger band of snow across the southern tier of counties of the Amarillo County Warning Area would result in isolated totals of greater than 6 inches from Deaf Smith County to Collingsworth County by the end of the event.

The 6 AM CST upper air sounding from Amarillo on the 24th showed that drier air was beginning to work its way into the Texas Panhandle. As the main snow band reached the Oklahoma Panhandle, the influence of the drier air infiltrating the Southern Plains became more evident. The main snow band diminished and all further snow showers that developed through midday on the 24th became isolated in coverage. Ultimately by 2 PM, snow shower activity came to an end as more dry air filtered into the Panhandles and the large scale lift from the upper level low shifted to the east.

The following is a list of snow reports from across the southern Texas Panhandle: Shamrock 6.0 inches (Wheeler County); Wheeler 4.5 inches (Wheeler County); Dawn 3.0 inches (Deaf Smith County); Hereford 6.0 inches (Deaf Smith County); 3 miles north-northeast of Wayside 5.5 inches (Armstrong: County); Clarendon 7.0 inches (Donley County); Howardwick 6.5 inches (Donley County); Hedley 10.0 inches (Donley County); Wellington 8.0 inches (Collingsworth County); 1 mile south of Wellington 10.0 inches (Collingsworth County); 1 mile north-northwest of Canyon 4.5 inches (Randall County); 5 miles southwest of Amarillo 1.0 inches (Randall County); 5 miles west-southwest of Amarillo 3.7 inches (Randall County); 3 miles southwest of Amarillo 3.0 inches (Randall County); Lake Tanglewood 3.0 inches (Randall County); 7 miles west-southwest of Amarillo 3.0 inches (Randall County); Canyon 3.0 inches (Randall County); and 8 miles south of Canyon 6.0 inches (Randall County).

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(TX-Z012) POTTER, (TX-Z013) CARSON, (TX-Z017) RANDALL

11/25/13 17:40 CST	0	Winter Weather
11/25/13 19:00 CST	0	

Localized wintry precipitation moved across portions of the southern Texas Panhandle during the evening hours of the 25th. Low level moisture curved around a southeastward traveling surface low as an upper level low dove southward across the Panhandle. As the forcing mechanisms aligned light drizzle initiated, and froze on contact with elevated surfaces such as windshields and overpasses due to surface temperatures in the mid-20s. Freezing drizzle lasted for a brief period as the surface low quickly moved southeast of the Panhandle by 7 Pm CST, but was sufficient to impact local roadways. A trained spotter in Amarillo reported that freezing drizzle was making roads slick on Soncy Road, Loop 335, and Hillside Road (Randall County) which caused several vehicles to skid. The same spotter

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reported that his windshield had accumulated a tenth of an inch of ice. An NWS employee reported a vehicle accident at the intersection of Interstate 40 and Lakeside Drive (Potter County) which caused traffic to back up for two miles. A member of the public also reported slick conditions on US Highway 60 near Pantex (Carson County). No further reports of slick conditions or vehicle accidents were reported in association to this freezing drizzle.