



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--------------------------------	---------------------------------	---------------------------------	------------------------------	--------------------

### TEXAS, South Panhandle

**TXZ021>026**

**Parmer - Castro - Swisher - Briscoe - Hall - Childress**

<b>01</b>	<b>0000CST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>60M</b>	<b>Drought</b>
<b>30</b>	<b>2359CST</b>					

The long-term drought that began in late 2005 over much of the Southern Plains of the U.S. persisted over the extreme southern Texas Panhandle through the month of June, where severe (D2) drought conditions were observed. Although weather and soil conditions remained extremely dry, drought conditions were temporarily downgraded to moderate (D1) over the remainder of the west Texas South Plains region. This downgrade was due to scattered rainfall that fell during numerous episodes of spring and early summer convection over the region; yet rainfall totals through the month were generally around fifty percent of climatological averages. Local farmers and agricultural officials began to report losses by mid June, when dryland cotton crops across the South Plains initially failed to emerge. At least 300,000 acres of cotton were destroyed due to the lack of water during the second half of the month.

Many cotton crops also were destroyed by drought related haboobs and other convectively triggered dust storms. At least 10,000 acres of drought-stressed crops were destroyed by the haboob on June 22nd. Local media sources, farmers, and agricultural agents fear that economic losses will be significant later in the growing season if the drought continues or intensifies.

In addition, many area ranchers were forced to begin selling cattle pre-maturely due to drought-related hardships. The lack of rain during the growing season resulted in poor hay crops. This caused the price of hay to skyrocket past \$130 per ton; up from only \$80 per ton one year ago. Ranchers have had difficulty affording hay to feed the cattle, thus many head of cattle have been sold at very early ages resulting in lower selling prices.

#### **Crosby County**

**1 SE Ralls**

<b>11</b>	<b>1545CST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (MG52)</b>
-----------	----------------	----------	----------	----------	----------	---------------------------------

An isolated severe thunderstorm produced 60 MPH wind gusts as measured by the West Texas Mesonet site near Ralls. No damage was reported.

#### **Briscoe County**

**5 N Quitaque to  
Quitaque**

<b>12</b>	<b>1540CST 1545CST</b>	<b>0</b>	<b>0</b>	<b>0.50K</b>	<b>0</b>	<b>Thunderstorm Wind (MG53)</b>
-----------	----------------------------	----------	----------	--------------	----------	---------------------------------

Severe winds, accompanied by small hail, damaged tents at Caprock Canyon State Park. In addition, an automated weather station operated by a local television station recorded a severe thunderstorm wind gust of 61 MPH in Quitaque. No injuries were reported.

#### **Crosby County**

**6 N Crosbyton**

<b>12</b>	<b>1824CST 1826CST</b>	<b>0</b>	<b>0</b>	<b>15K</b>	<b>0</b>	<b>Thunderstorm Wind (EG52)</b>
-----------	----------------------------	----------	----------	------------	----------	---------------------------------

The Crosby County Sheriff's Office reported that damaging thunderstorm winds blew down several power poles and utility wires along Farm to Market Road 651 north of Crosbyton. A chimney was additionally blown down, damaging a nearby residence.

#### **Crosby County**

**Lorenzo**

<b>12</b>	<b>2015CST</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.00)</b>
-----------	----------------	----------	----------	----------	----------	-------------------

Hail that ranged in size from peas to quarters was reported in Lorenzo.

June 12 Severe Thunderstorm Event Summary: Strong to severe thunderstorms affected portions of the west Texas South Plains late on the 12th. A few storms produced damaging wind gusts, and one severe storm resulted in large hail. Reports of damage were limited to light structural damage and downed utility poles.



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed    Injured		Estimated Damage Property    Crops		Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	---	--	--	--	--------------------

### TEXAS, South Panhandle

#### Swisher County

<b>2 ENE Tulia to 15 NE Tulia</b>	<b>16</b>	<b>1405CST 1415CST</b>			<b>0</b>	<b>0</b>	<b>150K</b>	<b>0</b>	<b>Thunderstorm Wind (MG55)</b>
---------------------------------------	-----------	----------------------------	--	--	----------	----------	-------------	----------	---------------------------------

A severe thunderstorm resulted in a swath of damaging winds from just northeast of Tulia to Vigo Park. The West Texas Mesonet Site near Tulia initially measured a 63 MPH wind gust at 14:05 CST. As the storm and associated severe winds propagated east-northeast, at least twelve utility poles were snapped two miles west of Vigo Park. Two "substantial" barns were destroyed one quarter of a mile west of Vigo Park.

#### Swisher County

<b>15 NE Tulia to 16 NE Tulia</b>	<b>16</b>	<b>1415CST 1506CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.75)</b>
---------------------------------------	-----------	----------------------------	--	--	----------	----------	----------	----------	-------------------

Large hail that ranged in size from quarters to golfballs fell in and near Vigo Park for fifty minutes. The hail accumulated to a depth of three inches on the ground. No damage was reported.

#### Briscoe County

<b>18 NNW Silverton</b>	<b>16</b>	<b>1523CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.00)</b>
-------------------------	-----------	----------------	--	--	----------	----------	----------	----------	-------------------

Quarter size hail was reported along Texas Highway 207 north of MacKenzie Reservoir

#### Motley County

<b>6 NW Matador</b>	<b>16</b>	<b>1735CST 1740CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.00)</b>
---------------------	-----------	----------------------------	--	--	----------	----------	----------	----------	-------------------

A motorist reported quarter size hail over Texas Highway 70 northwest of Matador.

#### Childress County

<b>6 N Childress</b>	<b>16</b>	<b>1820CST 1835CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.00)</b>
----------------------	-----------	----------------------------	--	--	----------	----------	----------	----------	-------------------

The Childress County Sheriff's Office reported quarter size hail along U.S. Highway 62/83 north of Childress

#### Cottle County

<b>10 N Paducah to 15 N Paducah</b>	<b>16</b>	<b>1840CST 1855CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.25)</b>
---	-----------	----------------------------	--	--	----------	----------	----------	----------	-------------------

Several motorists reported large hail up to the size of half dollars along U.S. Highway 62/83 in northern Cottle County.

#### Childress County

<b>(Cds)Childress Arprt</b>	<b>16</b>	<b>1845CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (MG61)</b>
-----------------------------	-----------	----------------	--	--	----------	----------	----------	----------	---------------------------------

An Automated Surface Observing System located at the Childress Airport measured severe thunderstorm wind gusts up to 70 MPH

#### Childress County

<b>6 N Childress</b>	<b>16</b>	<b>1900CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.00)</b>
----------------------	-----------	----------------	--	--	----------	----------	----------	----------	-------------------

Law enforcement officials reported that a second severe thunderstorm produced quarter size hail north of Childress along U.S. Highway 62/83.

#### Kent County

<b>16 SW Clairemont</b>	<b>16</b>	<b>1915CST 1920CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (EG61)</b>
-------------------------	-----------	----------------------------	--	--	----------	----------	----------	----------	---------------------------------

A trained storm spotter estimated severe thunderstorm wind gusts in excess of 70 MPH in association with a microburst over extreme southwestern Kent County.

#### Childress County

<b>22 NNE Childress</b>	<b>16</b>	<b>1930CST</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>200K</b>	<b>Hail(1.00)</b>
-------------------------	-----------	----------------	--	--	----------	----------	----------	-------------	-------------------

A farmer reported that a cotton field was destroyed by large hail in rural northeastern Childress County. The hail, measuring at least one inch in diameter, was accompanied by severe thunderstorm winds.

#### Childress County

<b>22 NNE Childress</b>	<b>16</b>	<b>1930CST</b>			<b>0</b>	<b>0</b>	<b>20K</b>	<b>100K</b>	<b>Thunderstorm Wind (EG52)</b>
-------------------------	-----------	----------------	--	--	----------	----------	------------	-------------	---------------------------------

A barn was destroyed in rural northeastern Childress County. In addition, the damaging winds combined with large hail to destroy a



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### TEXAS, South Panhandle

cotton crop.

#### **Kent County**

##### **Clairemont**

<b>16</b>	<b>1935CST</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(1.50)</b>
-----------	----------------	--	--	--	----------	----------	----------	----------	-------------------

The public reported ping-pong ball size hail in Clairemont.

#### **King County**

##### **10 ESE Guthrie**

<b>16</b>	<b>2030CST</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(0.75)</b>
-----------	----------------	--	--	--	----------	----------	----------	----------	-------------------

A motorist reported three-quarter inch diameter hail along U.S. Highway 82 east of Guthrie

June 16 Severe Weather Event Summary: Isolated to scattered severe storms erupted along a dryline over the eastern portions of the west Texas South Plains and the extreme southeastern Texas Panhandle during the late afternoon and evening hours of the 16th. A few of the storms maintained supercellular characteristics, and produced large hail up to the size of golfballs and damaging thunderstorm wind gusts. Several barns were destroyed along with cotton crops over the extreme southeastern Texas Panhandle.

#### **King County**

##### **Guthrie**

<b>17</b>	<b>1745CST</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Thunderstorm Wind (EG52)</b>
-----------	----------------	--	--	--	----------	----------	----------	----------	---------------------------------

The public reported severe thunderstorm wind gusts to at least 60 MPH. No reports of significant damage were received.

#### **Kent County**

##### **12 SSE Clairemont**

<b>17</b>	<b>1825CST</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Hail(0.75)</b>
-----------	----------------	--	--	--	----------	----------	----------	----------	-------------------

Motorists returning to their rural residence between Texas Highway 70 and Farm to Market Road 208 in southern Kent County encountered three-quarter inch diameter hail covering the ground in drifts. Event time is estimated by radar given that the severe storm that produced the hail had already departed the area when the hail drifts were discovered

June 17 Severe Weather Summary: Isolated to scattered convection developed near a frontal boundary and surface trough triple point over the Rolling Plains of west Texas during the late afternoon and early evening of the 16th. A few storms became severe with hail and 60 MPH wind gusts.

#### **TXZ023-035**

##### **Swisher - Lubbock**

<b>21</b>	<b>1950CST</b>				<b>0</b>	<b>0</b>	<b>320K</b>	<b>0</b>	<b>High Wind (MG63)</b>
	<b>2316CST</b>								

June 21 High Wind Event Summary: A complex of non-severe thunderstorms propagated over the west Texas South Plains region during the evening of the 21st. A series of wake-lows developed along the back edge of the convection. At least two of these features resulted in severe wind gusts that caused damage across portions of Swisher and Lubbock Counties

Winds that were measured by the West Texas Mesonet at speeds up to 72 MPH severely damaged a mobile home near Vigo Park (Swisher County) around 20:00 CST. More than two and a half hours later, winds measured by the West Texas Mesonet, the Automated Surface Observing System at Lubbock International Airport, and at the National Weather Service Forecast Office, reached speeds up to 68 MPH. These winds destroyed a barn, blew the roof off of a mobile home, and downed road signs from Shallowater to Lubbock (Lubbock County). The most significant damage occurred near Idalou, where severe winds caused extensive damage to the Lubbock Children's Home facility. Roofs were blown off of several structures, and large trees were uprooted. No injuries were reported.

#### **Crosby County**

##### **13 NE Crosbyton to Ralls**

<b>22</b>	<b>1418CST</b>				<b>0</b>	<b>0</b>	<b>20K</b>	<b>0</b>	<b>Thunderstorm Wind (MG53)</b>
	<b>1445CST</b>								

A complex of convection produced widespread strong to severe winds over the central and southern South Plains region of west



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

### TEXAS, South Panhandle

Texas during the afternoon hours of the 22nd. The public initially reported thunderstorm wind gusts that were estimated to exceed 60 MPH in rural portions of northeastern Crosby County at 14:18 CST. By 14:23 CST, local law enforcement officials had reported that numerous utility poles and wires had been blown down along Farm to Market Road 651, and that electricity outages were widespread in the vicinity of Ralls and Crosbyton. Severe thunderstorm winds were observed to continue eastward over northern Crosby County during the next twenty minutes. At 14:45 CST the West Texas Mesonet site near Ralls recorded a gust up to 61 MPH. No additional damage was reported.

#### **Lubbock County**

**1 SW Idalou to  
6 WNW New Deal**

22	1440CST 1500CST				0	0	50K	0	Thunderstorm Wind (EG61)
----	--------------------	--	--	--	---	---	-----	---	--------------------------

Severe thunderstorm winds caused damage at the Lubbock Children's Home near Idalou. This occurred less than twenty-four hours after the facility suffered extensive damage from high winds during the late evening hours of the 21st. Several additional large trees were uprooted, and an outbuilding was destroyed. The administrators at the Lubbock Children's Home reported that all of the resident children and staff were sent to underground storm shelters before the storm struck. No injuries were reported. A severe wind gust up to 60 MPH was recorded by a West Texas Mesonet site in northern Lubbock County as the storms continued to propagate west-southwestward.

#### **TXZ034>035-039>041**

#### **Hockley - Lubbock - Yoakum - Terry - Lynn**

22	1450CST 1645CST				0	0	640K	1.5M	Dust Storm
----	--------------------	--	--	--	---	---	------	------	------------



*A haboob is shown advancing southward toward Brownfield, Texas, at 15:45 CST on the 22nd. The dust storm contributed to life-threatening travel conditions along a major U.S. highway. One motorist was killed and fifteen others were injured. At least twenty-seven vehicles were involved in twelve collisions. Wind-blown dust destroyed cotton crops and resulted in extensive agricultural losses. Photo courtesy: Dennis Dean - Brownfield, Texas.*

A severe dust storm affected much of the southwestern South Plains of west Texas during the afternoon and early evening of the 22nd. The dust storm was a classic haboob, characterized by a visually dramatic and densely whirling wall of dust. The haboob was associated with a strong outflow boundary that propagated southwestward from a complex of severe storms over the central portions of the South Plains. Winds associated with the outflow were generally sustained in the 30 MPH range, with a peak wind gust measured by the West Texas Mesonet of 54 MPH. Dust storm conditions were reported over the five county area of Lubbock, Hockley, Terry, Yoakum, and Lynn Counties, however, radar and satellite imagery suggests that the effects of the haboob were widespread over the western and southern portions of the greater South Plains region.

Visibilities in blowing dust were reduced to zero along U.S. Highway 62/82 southwest of Lubbock. At least twenty-seven multi-vehicle accidents were reported between Ropesville and Brownfield. An elderly man was killed when his vehicle impacted the rear of a jack-knifed tractor-trailer. Fifteen other motorists were injured in the series of chain collisions (fatality and injuries were



# National Weather Service

## Storm Data and Unusual Weather Phenomena



June 2006

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
----------	------	----------------------------	---------------------------	--------------------------	--------------------------------	---------	---------------------------------	-------	--------------------

### TEXAS, South Panhandle

deemed as "indirect" per National Weather Service Directive 10-1605). The fatality accident occurred at 15:50 CST approximately five miles northeast of Brownfield.

In addition, the haboob destroyed an estimated 10,000 acres of cotton across the southwestern South Plains, as wind-driven dust reportedly "burned" the young cotton plants, stripping leaves off of the already drought-stressed plants.

#### **Lubbock County**

**2 NE Slaton**

**22 1500CST 0 0 0 0 Thunderstorm Wind (MG52)**

The West Texas Mesonet site near Slaton additionally measured a severe thunderstorm wind gust as a complex of storms affected portions of Lubbock County. No damage was reported in the Slaton vicinity.

#### **Garza County**

**Post to  
9 ENE Justiceburg**

**22 1525CST  
1622CST 0 0 30K 0 Thunderstorm Wind (MG63)**

Damaging winds spread southward over Garza County as a large complex of severe thunderstorms impacted the area during the late afternoon hours on the 22nd. Storm spotters initially estimated wind gusts up to 70 MPH in Post at 15:23 CST. By 15:25 CST, local authorities reported that many large trees and utility lines had been blown down in the city. The Texas Tech West Texas Mesonet observations indicated peak gusts to 73 MPH in the vicinity. The severe winds began to affect the Lake Alan Henry area by 16:10 CST, when a gust of 69 MPH was recorded by the West Texas Mesonet near the lake. Severe thunderstorm winds intermittently gusted to near 70 MPH at the lake until 16:22 CST. A local newspaper additionally reported that some minor structural damage also occurred in Post. No injuries were reported.

#### **Garza County**

**5 SSW Graham Chapel**

**22 1615CST 0 0 0 0 Thunderstorm Wind (MG59)**

As the convective complex propagated southward over Garza County, additional severe gusts were recorded by the West Texas Mesonet site near Graham. No damage was reported.

#### **Lynn County**

**1 N Odonnell**

**22 1615CST 0 0 0 0 Thunderstorm Wind (MG53)**

The West Texas Mesonet site near O' Donnell recorded a severe thunderstorm wind gust of 61 MPH. The winds were accompanied by blowing dust that restricted visibilities to near zero.

#### **Lamb County**

**6 S Olton**

**22 2210CST 0 0 0 0 Thunderstorm Wind (MG52)**

A severe thunderstorm wind gust of 60 MPH was measured by the West Texas Mesonet site near Olton.

#### **Hale County**

**5 ENE Abernathy**

**22 2240CST 0 0 0 0 Thunderstorm Wind (MG52)**

A severe thunderstorm wind gust of 60 MPH was measured by the West Texas Mesonet site near Abernathy.

June 22 Severe Thunderstorm Event Summary: A large complex of severe thunderstorms erupted over the central South Plains of west Texas during the afternoon and evening hours of the 22nd. The storms produced severe winds that damaged structures and downed power lines. The most significant damage occurred in northeastern Lubbock County, where thunderstorm winds caused damage to the Children's Home of Lubbock. The facility was damaged for the second time in less than twenty-four hours by severe winds. Fortunately, administrators at the facility took pro-active measures upon hearing severe weather warnings, and moved all of the resident children and staff into storm shelters. No injuries were reported. Electrical outages also were widespread across the central South Plains, with reports of downed utility lines and poles common.

Outflow from the convective complex generated a haboob that caused high-end weather impacts over the southwestern half of the South Plains. Blowing dust reduced visibilities to near zero across a widespread area covering four counties, and contributed to at least twelve auto-accidents along a portion of U.S. Highway 62/82 between Lubbock and Brownfield. One motorist was killed, and fifteen others were injured. The haboob also was responsible for massive agricultural losses, as wind-driven dust "burned" young cotton crops. Total event damages were estimated to exceed \$2.2 million.