



# National Weather Service

## Storm Data and Unusual Weather Phenomena



March 2004

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

### NEW MEXICO, Southeast

#### Eddy County

|               |    |                    |  |  |   |   |   |   |            |
|---------------|----|--------------------|--|--|---|---|---|---|------------|
| 2 NW Carlsbad | 03 | 2209MST<br>2210MST |  |  | 0 | 0 | 0 | 0 | Hail(0.75) |
|---------------|----|--------------------|--|--|---|---|---|---|------------|

Elevated strong to severe thunderstorms developed over the southeast New Mexico plains during the late evening of the 3rd and early on the 4th. This activity spread east into Texas where a widespread and significant round of severe weather unfolded through the 4th.

### TEXAS, West

#### Andrews County

|              |    |                    |  |  |   |   |   |   |            |
|--------------|----|--------------------|--|--|---|---|---|---|------------|
| Frankel City | 03 | 2155CST<br>2200CST |  |  | 0 | 0 | 0 | 0 | Hail(0.88) |
|--------------|----|--------------------|--|--|---|---|---|---|------------|

A rather prolonged severe weather episode began late in the evening of the 3rd. The first severe thunderstorm to develop resulted in nickel size hail near the rural community of Frankel City in Andrews County.

#### Midland County

|               |    |                    |  |  |   |   |   |   |            |
|---------------|----|--------------------|--|--|---|---|---|---|------------|
| 3 S Greenwood | 04 | 0220CST<br>0230CST |  |  | 0 | 0 | 0 | 0 | Hail(1.00) |
|---------------|----|--------------------|--|--|---|---|---|---|------------|

Nickel to quarter size hail was observed by a local television meteorologist at his residence near Greenwood

#### Glasscock County

|                 |    |                    |  |  |   |   |   |   |            |
|-----------------|----|--------------------|--|--|---|---|---|---|------------|
| 5 W St Lawrence | 04 | 0450CST<br>0500CST |  |  | 0 | 0 | 0 | 0 | Hail(0.88) |
|-----------------|----|--------------------|--|--|---|---|---|---|------------|

Reported at the intersection of Farm to Market Road 2401 and Texas State Route 137 south of Bigby Corner

#### Dawson County

|                               |    |                    |  |  |   |   |   |   |            |
|-------------------------------|----|--------------------|--|--|---|---|---|---|------------|
| 7 S Lamesa to<br>9 ESE Lamesa | 04 | 0500CST<br>0512CST |  |  | 0 | 0 | 0 | 0 | Hail(1.75) |
|-------------------------------|----|--------------------|--|--|---|---|---|---|------------|

Penny to Golfball size hail was reported from U.S. Highway 87 south of Lamesa to rural locations east of that highway. No damage was reported.

#### Howard County

|        |    |                    |  |  |   |   |   |   |            |
|--------|----|--------------------|--|--|---|---|---|---|------------|
| Forsan | 04 | 0527CST<br>0540CST |  |  | 0 | 0 | 0 | 0 | Hail(1.00) |
|--------|----|--------------------|--|--|---|---|---|---|------------|

The first of three individual hail storms to affect Howard County on the morning of the 4th resulted in quarter size hail at Forsan.

#### Scurry County

|               |    |                    |  |  |   |   |   |   |            |
|---------------|----|--------------------|--|--|---|---|---|---|------------|
| 10 WSW Snyder | 04 | 0622CST<br>0635CST |  |  | 0 | 0 | 0 | 0 | Hail(0.88) |
|---------------|----|--------------------|--|--|---|---|---|---|------------|

A rural resident reported penny to nickel size hail.

#### Glasscock County

|      |    |                    |  |  |   |   |   |   |            |
|------|----|--------------------|--|--|---|---|---|---|------------|
| Lees | 04 | 0650CST<br>0655CST |  |  | 0 | 0 | 0 | 0 | Hail(0.88) |
|------|----|--------------------|--|--|---|---|---|---|------------|

#### Howard County

|                      |    |                    |  |  |   |   |   |   |            |
|----------------------|----|--------------------|--|--|---|---|---|---|------------|
| Forsan to<br>Coahoma | 04 | 0701CST<br>0715CST |  |  | 0 | 0 | 0 | 0 | Hail(0.88) |
|----------------------|----|--------------------|--|--|---|---|---|---|------------|

#### Midland County

|           |    |                    |  |  |   |   |   |   |            |
|-----------|----|--------------------|--|--|---|---|---|---|------------|
| Greenwood | 04 | 0710CST<br>0715CST |  |  | 0 | 0 | 0 | 0 | Hail(0.75) |
|-----------|----|--------------------|--|--|---|---|---|---|------------|

#### Martin County

|              |    |                    |  |  |   |   |   |   |            |
|--------------|----|--------------------|--|--|---|---|---|---|------------|
| 3 SE Lenorah | 04 | 0730CST<br>0735CST |  |  | 0 | 0 | 0 | 0 | Hail(0.75) |
|--------------|----|--------------------|--|--|---|---|---|---|------------|

#### Scurry County

|              |    |         |  |  |   |   |   |   |            |
|--------------|----|---------|--|--|---|---|---|---|------------|
| 2 E Fluvanna | 04 | 0748CST |  |  | 0 | 0 | 0 | 0 | Hail(0.75) |
|--------------|----|---------|--|--|---|---|---|---|------------|



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|----------|------|----------------------------|---------------------------|--------------------------|----------------------|---------|---------------------|-------|--------------------|
|          |      |                            |                           |                          | Killed               | Injured | Property            | Crops |                    |

### TEXAS, West

|   |    |                    |     |    |   |   |     |   |                          |
|---|----|--------------------|-----|----|---|---|-----|---|--------------------------|
| <b>Martin County</b>  |    |                    |     |    |   |   |     |   |                          |
| Stanton   | 04 | 0823CST            |     |    | 0 | 0 | 0   | 0 | Hail(0.75)               |
| <b>Pecos County</b>   |    |                    |     |    |   |   |     |   |                          |
| Bakersfield   | 04 | 0825CST            |     |    | 0 | 0 | 0   | 0 | Hail(0.75)               |
| <b>Upton County</b>   |    |                    |     |    |   |   |     |   |                          |
| Rankin  | 04 | 0846CST            |     |    | 0 | 0 | 0   | 0 | Hail(1.00)               |
| <b>Howard County</b>  |    |                    |     |    |   |   |     |   |                          |
| 6 N Knott   | 04 | 0848CST            |     |    | 0 | 0 | 0   | 0 | Hail(0.75)               |
| <p>Between midnight CST and sunrise, a series of supercell storms tracked across the southeast Permian Basin. These storms developed along a warm front that slowly moved north through the morning hours, and eventually reached the Interstate 20 corridor. Meanwhile, strong to severe convection continued to produce large hail north of the boundary over the northeast Basin</p> |    |                    |     |    |   |   |     |   |                          |
| <b>Reagan County</b>  |    |                    |     |    |   |   |     |   |                          |
| 10 NNW Texon  | 04 | 0855CST            |     |    | 0 | 0 | 0   | 0 | Hail(1.75)               |
| Golfball hail was reported at the Benedum Gas Plant on the Reagan/Upton County line   |    |                    |     |    |   |   |     |   |                          |
| <b>Upton County</b>   |    |                    |     |    |   |   |     |   |                          |
| 14 NE Rankin  | 04 | 0855CST            |     |    | 0 | 0 | 0   | 0 | Hail(1.75)               |
| Golfball hail was reported at the Benedum Gas Plant on the Reagan/Upton County line   |    |                    |     |    |   |   |     |   |                          |
| <b>Pecos County</b>   |    |                    |     |    |   |   |     |   |                          |
| Sheffield   | 04 | 0905CST            |     |    | 0 | 0 | 5K  | 0 | Thunderstorm Wind (EG57) |
| A tin roof was blown off of a storage barn by severe thunderstorm winds.  |    |                    |     |    |   |   |     |   |                          |
| <b>Terrell County</b>   |    |                    |     |    |   |   |     |   |                          |
| 31 NE Dryden  | 04 | 0915CST<br>0925CST |     |    | 0 | 0 | 75K | 0 | Thunderstorm Wind (EG61) |
| Employees at the Terrell County Gas Plant reported winds up to 70 MPH. The winds knocked over a large storage vessel that weighed several tons. In addition, a service unit was also damaged  |    |                    |     |    |   |   |     |   |                          |
| <b>Borden County</b>  |    |                    |     |    |   |   |     |   |                          |
| 14 E Gail   | 04 | 0920CST            |     |    | 0 | 0 | 0   | 0 | Hail(1.75)               |
| <b>Reagan County</b>  |    |                    |     |    |   |   |     |   |                          |
| 13 NE Stiles to<br>14 NE Stiles   | 04 | 0925CST<br>0926CST | 0.5 | 75 | 0 | 0 | 20K | 0 | Tornado (F0)             |
| Results from a National Weather Service storm survey indicated that a brief tornado resulted in five downed power poles in open range land across northeast Reagan County. A witness reported seeing a funnel in the immediate vicinity, and a rural resident that lives near the damaged poles heard a "loud roar".  |    |                    |     |    |   |   |     |   |                          |
| <b>Glasscock County</b>   |    |                    |     |    |   |   |     |   |                          |
| 7 W Garden City   | 04 | 0929CST            |     |    | 0 | 0 | 0   | 0 | Hail(1.00)               |
| Reported on State Route 158.  |    |                    |     |    |   |   |     |   |                          |
| <b>Glasscock County</b>   |    |                    |     |    |   |   |     |   |                          |
| 8 E Garden City   | 04 | 0935CST<br>0950CST |     |    | 0 | 0 | 0   | 0 | Hail(1.00)               |
| Quarter size hail covered the ground along State Route 158.   |    |                    |     |    |   |   |     |   |                          |
| <b>Glasscock County</b>   |    |                    |     |    |   |   |     |   |                          |
| Lees  | 04 | 0950CST            |     |    | 0 | 0 | 0   | 0 | Hail(1.00)               |
| <b>Howard County</b>  |    |                    |     |    |   |   |     |   |                          |
| Forsan  | 04 | 0955CST<br>1000CST |     |    | 0 | 0 | 0   | 0 | Hail(0.88)               |
| Nickel hail was reported by the Texas Department of Public Safety along Highway 87 at Forsar.   |    |                    |     |    |   |   |     |   |                          |



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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

### TEXAS, West

The convection evolved into a squall line by mid morning. The initially short line of storms was characterized by a well-defined bookend vortex on its north end that tracked across Glasscock County. This portion of the line produced quarter to golfball size hail. Severe thunderstorm winds affected eastern Pecos and northern Terrell Counties as the southern extent of the line progressed east.

Several line echo wave patterns were identified using local warning weather radar along the squall line as it expanded north with time. A tornado was confirmed to have been associated with one such signature in northeast Reagan County.

#### Midland County

|                        |    |         |  |  |   |   |   |   |           |
|------------------------|----|---------|--|--|---|---|---|---|-----------|
| 2 S (Maf) Midland Intl | 04 | 1025CST |  |  | 0 | 1 | 0 | 0 | Lightning |
|------------------------|----|---------|--|--|---|---|---|---|-----------|

A man was injured when lightning struck the metal equipment he was working on. He was treated at an area hospital and was released later in the day.

#### Mitchell County

|   |    |                    |     |    |   |   |      |   |              |
|---|----|--------------------|-----|----|---|---|------|---|--------------|
| 9 S Colorado City to<br>8.5 SSE Colorado City | 04 | 1028CST<br>1029CST | 0.5 | 75 | 0 | 0 | 125K | 0 | Tornado (F0) |
|---|----|--------------------|-----|----|---|---|------|---|--------------|

A tornado severely damaged two trailer homes and a few recreational vehicles in the Lake Champion vicinity along Highway 208 south of Colorado City. The roof was partially removed from one trailer house, and another was rolled onto its top. No injuries were reported.

#### Mitchell County

|                                |    |                    |   |    |   |   |      |   |              |
|--------------------------------|----|--------------------|---|----|---|---|------|---|--------------|
| .2 S Loraine to<br>1 E Loraine | 04 | 1038CST<br>1040CST | 1 | 75 | 0 | 1 | 275K | 0 | Tornado (F0) |
|--------------------------------|----|--------------------|---|----|---|---|------|---|--------------|

A weak tornado struck the city of Loraine resulting in one injury and damage to several light-weight structures and vehicles. Damage surveyed by a National Weather Service meteorologist began on the south side of the city near Looby Street. From there the tornado traveled northeast producing a one mile long damage path that cut across the southeast corner of the city to near Interstate 20. Along the path, a roof was partially removed from one home and several vehicles and trailers were damaged or destroyed. About \$100,000 worth of musical equipment was destroyed when a cargo trailer was rolled by the tornado. The tornado began to dissipate as it crossed Interstate 20 on the east side of the city. Before doing so, it blew two semi-trucks off of the highway, injuring one driver. Several eye witnesses described seeing the tornado's condensation funnel and debris whirling beneath it.

#### Mitchell County

|               |    |                    |  |  |   |   |   |   |            |
|---------------|----|--------------------|--|--|---|---|---|---|------------|
| Colorado City | 04 | 1040CST<br>1043CST |  |  | 0 | 0 | 0 | 0 | Hail(0.88) |
|---------------|----|--------------------|--|--|---|---|---|---|------------|

Pea to nickel size hail covered the ground in Colorado City.

#### Scurry County

|                              |    |                    |  |  |   |   |   |   |            |
|------------------------------|----|--------------------|--|--|---|---|---|---|------------|
| 13 S Snyder to<br>2 S Snyder | 04 | 1040CST<br>1043CST |  |  | 0 | 0 | 0 | 0 | Hail(0.88) |
|------------------------------|----|--------------------|--|--|---|---|---|---|------------|

A line of severe thunderstorms extended from near Dunn to Snyder and resulted in pea to nickel size hail.

#### Mitchell County

|         |    |         |  |  |   |   |     |   |                          |
|---------|----|---------|--|--|---|---|-----|---|--------------------------|
| Loraine | 04 | 1042CST |  |  | 0 | 0 | 10K | 0 | Thunderstorm Wind (EG61) |
|---------|----|---------|--|--|---|---|-----|---|--------------------------|

A large tin barn was damaged by severe thunderstorm winds on the north side of the city. The winds entered the structure through a garage door, and blew out the opposite wall.

The areal coverage of the severe squall line expanded north and south as it progressed east into west central Texas. Numerous small scale circulations developed along the leading edge of the line in association with line echo wave patterns and bowing segments. Two weak tornadoes resulted over Mitchell County. In addition, damaging thunderstorm winds and hail remained a threat until the convective complex exited the Permian Basin and continued east across central Texas.

#### Howard County

|         |    |                    |  |  |   |   |   |   |             |
|---------|----|--------------------|--|--|---|---|---|---|-------------|
| Vincent | 04 | 1120CST<br>1230CST |  |  | 0 | 0 | 0 | 0 | Flash Flood |
|---------|----|--------------------|--|--|---|---|---|---|-------------|

Running water flooded roadways near Vincent.





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|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|
|----------|------|----------------------------|---------------------------|--------------------------|--------------------------------|---------------------------------|---------------------------------|------------------------------|--------------------|

### TEXAS, West

resulted in hail up to the size of quarters.

#### Andrews County

|                      |           |                |  |  |          |          |          |          |                   |
|----------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|
| <b>10 NE Andrews</b> | <b>20</b> | <b>1715CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(0.75)</b> |
|----------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|

Reported on Farm to Market Road 1788.

#### Mitchell County

|                           |           |                            |  |  |          |          |          |          |                   |
|---------------------------|-----------|----------------------------|--|--|----------|----------|----------|----------|-------------------|
| <b>7 SW Colorado City</b> | <b>20</b> | <b>1827CST<br/>1841CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(1.25)</b> |
|---------------------------|-----------|----------------------------|--|--|----------|----------|----------|----------|-------------------|

Nickel to half dollar size hail was reported to last for almost fifteen minutes at Lake Colorado City State Parl.

#### Howard County

|                   |           |                |  |  |          |          |          |          |                   |
|-------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|
| <b>Big Spring</b> | <b>20</b> | <b>1951CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(1.75)</b> |
|-------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|

Golfball size hail was reported in Big Spring. No damage was reported.

#### Midland County

|                |           |                            |  |  |          |          |          |          |                   |
|----------------|-----------|----------------------------|--|--|----------|----------|----------|----------|-------------------|
| <b>Midland</b> | <b>20</b> | <b>2101CST<br/>2118CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(1.00)</b> |
|----------------|-----------|----------------------------|--|--|----------|----------|----------|----------|-------------------|

A severe thunderstorm moved southwest across Midland and produced large hail. Nickel size hail was first reported at the intersection of Loop 250 and Business 20. Other reports of penny to quarter size hail were received as the storm tracked across the city.

#### Ector County

|                |           |                |  |  |          |          |          |          |                   |
|----------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|
| <b>Notrees</b> | <b>20</b> | <b>2223CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(1.00)</b> |
|----------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|

#### Winkler County

|                   |           |                |  |  |          |          |          |          |                   |
|-------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|
| <b>6 N Kermit</b> | <b>20</b> | <b>2228CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(0.88)</b> |
|-------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|

Nickel size hail was accompanied by 50 MPH wind gusts north of Kermit near the intersection of Farm Road 874 and Highway 1E.

Severe thunderstorms developed along a cold front that swept south across the Texas Permian Basin and Trans Pecos during the late afternoon and evening of the 20th. Large hail up to the size of golfballs was reported

#### Scurry County

|             |           |                |  |  |          |          |          |          |                   |
|-------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|
| <b>Dunn</b> | <b>24</b> | <b>1732CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(0.88)</b> |
|-------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|

The first of two separate severe thunderstorms to affect the Dunn community during the late afternoon of the 24th produced nickel size hail.

#### Scurry County

|             |           |                |  |  |          |          |          |          |                   |
|-------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|
| <b>Dunn</b> | <b>24</b> | <b>1815CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(0.75)</b> |
|-------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|

The second hail storm of the day to affect the Dunn community produced penny size hail

#### Mitchell County

|                      |           |                            |  |  |          |          |            |          |                   |
|----------------------|-----------|----------------------------|--|--|----------|----------|------------|----------|-------------------|
| <b>Colorado City</b> | <b>24</b> | <b>1830CST<br/>1844CST</b> |  |  | <b>0</b> | <b>0</b> | <b>25K</b> | <b>0</b> | <b>Hail(1.50)</b> |
|----------------------|-----------|----------------------------|--|--|----------|----------|------------|----------|-------------------|

Reports indicate that hail ranging in size from quarters to ping pong balls fell in the town of Colorado City for fourteen minutes. Several cars were severely damaged.

Isolated severe thunderstorms developed over the eastern Permian Basin and the Lower Trans Pecos regions of West Texas during the late afternoon and evening hours of the 24th. This activity developed along a dryline. Large hail fell on the community of Colorado City for an extended period of time and damaged several vehicles

#### Pecos County

|                    |           |                |  |  |          |          |          |          |                   |
|--------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|
| <b>Ft Stockton</b> | <b>25</b> | <b>1550CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(0.75)</b> |
|--------------------|-----------|----------------|--|--|----------|----------|----------|----------|-------------------|

An isolated severe thunderstorm produced large hail in Fort Stockton.

#### Ector County

|                      |           |                            |  |  |          |          |          |          |                   |
|----------------------|-----------|----------------------------|--|--|----------|----------|----------|----------|-------------------|
| <b>4 W Goldsmith</b> | <b>26</b> | <b>1820CST<br/>1835CST</b> |  |  | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>Hail(0.88)</b> |
|----------------------|-----------|----------------------------|--|--|----------|----------|----------|----------|-------------------|

Dime to nickel size hail covered the ground



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|----------|------|----------------------------|---------------------------|--------------------------|----------------------|---------|---------------------|-------|--------------------|
|          |      |                            |                           |                          | Killed               | Injured | Property            | Crops |                    |

**TEXAS, West**

**Reagan County**

13 NNW Stiles

|    |                    |  |  |  |   |   |   |   |            |
|----|--------------------|--|--|--|---|---|---|---|------------|
| 27 | 0345CST<br>0400CST |  |  |  | 0 | 0 | 0 | 0 | Hail(1.00) |
|----|--------------------|--|--|--|---|---|---|---|------------|

Nickel to quarter size hail covered the ground.

An isolated left moving severe thunderstorm that developed along a dryline resulted in large hail in Ector County during the early evening. Additional thunderstorm activity developed during the overnight hours. One of these storms became severe and produced large hail in Reagan County.