

## Storm Data and Unusual Weather Phenomena - October 2023

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details          |
|--|--------------------|-------------------|---------------------|---------------------------------|
| <b>TEXAS, South Panhandle</b>  |                    |                   |                     |                                 |
| <b>LUBBOCK COUNTY --- 3.0 SSW DOUD [33.53, -101.96], 3.8 NNE BURRIS [33.58, -101.76], 5.0 ENE BURRIS [33.57, -101.71], 1.2 NNW POSEY [33.50, -101.71], 1.0 S LUBBOCK AIRPARK [33.47, -101.82], 4.5 E WOLFFORTH [33.49, -101.94]</b>  |                    |                   |                     |                                 |
|  | 10/02/23 02:00 CST |                   | 0                   | Flash Flood (due to Heavy Rain) |
|  | 10/02/23 10:00 CST |                   | 0                   | Source: NWS Storm Survey        |
| <p>Several rounds of heavy precipitation occurred from late on the first through the morning hours on the second. A number of roadways in the city of Lubbock became flooded. The heavy rain also caused the North Fork Double Mountain fork Brazos River to rise above flood stage on the southeast side of Lubbock. Farm to Market Road 835 west of Buffalo Springs Lake became inundated with flood waters and resulted in the closure of the road for a brief period on the second.</p>  |                    |                   |                     |                                 |
| <b>COCHRAN COUNTY --- 14.6 S WHITEFACE [33.39, -102.61]</b>  |                    |                   |                     |                                 |
|  | 10/02/23 19:03 CST |                   | 0                   | Thunderstorm Wind (MG 59 kt)    |
|  | 10/02/23 19:08 CST |                   | 0                   | Source: Mesonet                 |
| <p>A Texas Tech University West Texas mesonet site near Sundown measured severe wind gusts from 1903 CST through 1908 CST. A peak wind gust of 68 mph was measured at 1908 CST.</p>  |                    |                   |                     |                                 |
| <p>Plentiful moisture with lift from a large storm system approaching through the Intermountain West, resulted in numerous showers and thunderstorms late on the second through early on the third. The initial thunderstorm development occurred over eastern New Mexico on the afternoon of the second, but spread into the western South Plains during the evening. The most intense thunderstorms produced pockets of hail and strong winds, including a peak wind gust of 68 mph measured at the Texas Tech University West Texas Mesonet located eight miles southwest of Sundown. However, even more impactful was the torrential rain that accompanied the thunderstorms and affected much of the central and southern South Plains. Rain totals of two to four inches were common across the central and southern South Plains, including in and around Lubbock, from this overnight event. This heaviest rain targeted the southern portions of Lubbock and points south and west from there, including through much of Lynn, Terry, and Yoakum Counties. Runoff from the excessive rain on Lubbock caused the North Fork Double Mountain Fork Brazos River to swell rising above flood stage. The water continued downstream from Lubbock, rising out of the banks and over Farm to Market Road 835, immediately upstream of Buffalo Springs Lake on the third. The water flowing over Farm to Market Road 835 peaked around two feet deep and prompted a road closure for several hours.</p> |                    |                   |                     |                                 |
| <b>LAMB COUNTY --- 2.0 N SPADE [33.95, -102.15]</b>  |                    |                   |                     |                                 |
|  | 10/04/23 13:07 CST |                   | 0                   | Hail (1.00 in)                  |
|  | 10/04/23 13:07 CST |                   | 0                   | Source: Public                  |
| <p>A report was received of quarter size hail north of Spade along Farm to Market Road 168.</p>  |                    |                   |                     |                                 |
| <b>MOTLEY COUNTY --- 1.1 NNW ROARING SPGS BUZZ AR [33.94, -100.84]</b>   |                    |                   |                     |                                 |
|  | 10/04/23 13:20 CST |                   | 0                   | Thunderstorm Wind (MG 61 kt)    |
|  | 10/04/23 13:21 CST |                   | 0                   | Source: Mesonet                 |
| <p>A Texas Tech University West Texas mesonet site near Roaring Springs measured severe wind gusts from 1320 CST through 1321 CST. A peak wind gust of 70 mph was measured at 1320 CST.</p>  |                    |                   |                     |                                 |
| <b>COTTLE COUNTY --- 3.0 N PADUCAH [34.06, -100.30]</b>  |                    |                   |                     |                                 |
|  | 10/04/23 14:00 CST |                   | 0                   | Thunderstorm Wind (EG 52 kt)    |
|  | 10/04/23 14:00 CST |                   | 0                   | Source: Storm Chaser            |
| <p>A storm chaser estimated 60 mph wind gusts north of Paducah.</p>  |                    |                   |                     |                                 |
| <b>COTTLE COUNTY --- 3.1 SSW PADUCAH [33.98, -100.33], PADUCAH [34.02, -100.30]</b>  |                    |                   |                     |                                 |
|  | 10/04/23 14:04 CST |                   | 0                   | Hail (1.50 in)                  |
|  | 10/04/23 14:05 CST |                   | 0                   | Source: Storm Chaser            |
| <p>A swath of hail was reported by storm chasers from Paducah to approximately three miles southwest of Paducah . Hail ranged in size from quarters to ping pong balls.</p>  |                    |                   |                     |                                 |
| <b>FLOYD COUNTY --- FLOYDADA [33.98, -101.33]</b>  |                    |                   |                     |                                 |
|  | 10/04/23 14:08 CST |                   | 0                   | Hail (1.00 in)                  |
|  | 10/04/23 14:08 CST |                   | 0                   | Source: Public                  |

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| A report was received of hail up to quarter size in the town of Floydada.  |                    |                   |                     |                              |
| <b>FLOYD COUNTY --- 2.0 NNE FLOYDADA [34.01, -101.32]</b>  |                    |                   |                     |                              |
|  | 10/04/23 14:09 CST |                   | 0                   | Thunderstorm Wind (MG 50 kt) |
|  | 10/04/23 14:09 CST |                   | 0                   | Source: Mesonet              |
| A Texas Tech University West Texas mesonet site near Floydada measured a wind gust of 58 mph.  |                    |                   |                     |                              |
| <b>COTTLE COUNTY --- 2.0 SSE HACKBERRY [33.90, -100.14]</b>  |                    |                   |                     |                              |
|  | 10/04/23 14:13 CST |                   | 0                   | Thunderstorm Wind (MG 51 kt) |
|  | 10/04/23 14:13 CST |                   | 0                   | Source: Mesonet              |
| A Texas Tech University West Texas mesonet site near Hackberry measured a wind gust of 59 mph.   |                    |                   |                     |                              |
| <b>COTTLE COUNTY --- 7.0 E PADUCAH [34.02, -100.18]</b>  |                    |                   |                     |                              |
|  | 10/04/23 14:16 CST |                   | 0                   | Hail (1.00 in)               |
|  | 10/04/23 14:16 CST |                   | 0                   | Source: COOP Observer        |
| A National Weather Service cooperative weather observer reported quarter size hail.  |                    |                   |                     |                              |
| <b>COTTLE COUNTY --- 1.0 S PADUCAH [34.01, -100.30]</b>  |                    |                   |                     |                              |
|  | 10/04/23 15:29 CST |                   | 0                   | Thunderstorm Wind (EG 61 kt) |
|  | 10/04/23 15:29 CST |                   | 0                   | Source: Storm Chaser         |
| A storm chaser estimated wind gusts of 70 mph on the south side of Paducah.  |                    |                   |                     |                              |
| <b>(TX-Z033) COCHRAN</b>   |                    |                   |                     |                              |
|  | 10/04/23 15:35 CST |                   | 0                   | Strong Wind (MAX 48 kt)      |
|  | 10/04/23 15:35 CST |                   | 0                   |                              |
| <b>COCHRAN COUNTY --- WHITEFACE [33.60, -102.62]</b>   |                    |                   |                     |                              |
|  | 10/04/23 15:40 CST |                   | 0                   | Hail (1.75 in)               |
|  | 10/04/23 15:40 CST |                   | 0                   | Source: Emergency Manager    |
| An emergency management official reported hail up to golf ball size in Whiteface.  |                    |                   |                     |                              |
| <b>HOCKLEY COUNTY --- 1.0 N LEVELLAND [33.59, -102.37]</b>   |                    |                   |                     |                              |
|  | 10/04/23 16:04 CST |                   | 0                   | Hail (1.00 in)               |
|  | 10/04/23 16:04 CST |                   | 0                   | Source: Emergency Manager    |
| An emergency management official from Levelland reported quarter size hail on the north side of Levelland.   |                    |                   |                     |                              |
| <b>HOCKLEY COUNTY --- 3.0 E SMYER [33.58, -102.12]</b>   |                    |                   |                     |                              |
|  | 10/04/23 16:26 CST |                   | 0                   | Hail (2.00 in)               |
|  | 10/04/23 16:26 CST |                   | 0                   | Source: Public               |
| A report from the public was received of hail up to two inches in diameter approximately three miles east of Smyer. No damage was reported.  |                    |                   |                     |                              |
| <b>LUBBOCK COUNTY --- 3.0 W REESE VLG [33.60, -102.07], 3.0 ENE LUBBOCK [33.60, -101.80]</b>   |                    |                   |                     |                              |
|  | 10/04/23 16:29 CST |                   | 0                   | Hail (3.00 in)               |
|  | 10/04/23 16:55 CST |                   | 0                   | Source: Public               |
| Numerous reports were received of a large swath of hail from a supercell thunderstorm that moved east over central Lubbock County. The swath of hail began just east of the Lubbock/Hockley County line along Texas Highway 114 and tracked eastward to east Loop 289 on the northeast side of Lubbock. Hail ranged in size from quarters to as large as three inches in diameter.   |                    |                   |                     |                              |
| <b>Widespread severe storms affected portions of the South Plains and Rolling Plains on the afternoon of the fourth supported by unseasonably warm temperatures and strong instability. The instability fueled numerous thunderstorms, some which were severe and produced torrential rainfall near and ahead of a cold front. The most intense storms generated very large hail, as big as three inches in diameter near Reese Center (Lubbock County). A supercell thunderstorm tracked from Cochran County through Crosby County dumping a swath of very large hail across northern Lubbock County.</b> |                    |                   |                     |                              |

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| <hr/>   |                    |                   |                     |                              |
| LUBBOCK COUNTY --- 4.0 WNW LUBBOCK AIRPARK [33.50, -101.88] | 10/24/23 23:20 CST |                   | 0                   | Thunderstorm Wind (MG 59 kt) |
|   | 10/24/23 23:20 CST |                   | 0                   | Source: Mesonet              |

A Texas Tech University West Texas mesonet site on the south side of Lubbock measured a wind gust of 68 mph.

Scattered showers and thunderstorms developed well out ahead of an upper level storm system in northern Mexico on the afternoon of the 24th. Late in the evening on the 24th through early in the morning on the 25th, these storms congealed into a broken line as they moved across the South Plains. A portion of the line became severe as it moved over the southern portion of the city of Lubbock (Lubbock County) producing a severe wind gust of 68 mph.

|                   |                    |  |   |                |
|-------------------|--------------------|--|---|----------------|
| <hr/>             |                    |  |   |                |
| (TX-Z023) SWISHER | 10/29/23 04:00 CST |  | 0 | Winter Weather |
|                   | 10/29/23 09:00 CST |  | 0 |                |

Early on the 29th, a moist and shallow arctic air mass moved into the West Texas region. Areas of freezing drizzle developed in the post frontal air mass with a dry middle and upper atmosphere. Icing from freezing drizzle resulted in multiple traffic accidents along Interstate 27 on overpasses in Swisher County.