

APPENDIX B

NWS DISCUSSIONS AND FORECASTS

**EXCEPTIONAL EVENTS DEMONSTRATION FOR 2023 PM_{2.5}
EXCEEDANCES AT HARRISON COUNTY, TRAVIS COUNTY, AND
KLEBERG COUNTY**

February 7, 2025

**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
P.O. BOX 13087
AUSTIN, TEXAS 78711-3087**

APPENDIX B: NWS DISCUSSIONS AND FORECASTS

GROUP 1 - JANUARY 1, 2023

about 15 min away according to satellite. Some of the lower vsby around SAT was likely caused by abundant firework smoke as evident by the obs that were just carrying Haze because of the larger dewpoint spreads. Look for the IFR to last through mid morning. Even

Figure B-1: NWS forecast discussion from Austin/San Antonio, TX Forecast Office on January 1, 2023

GROUP 5 - FEBRUARY 27, 2023

A powerful storm system is ejecting into the Plains this evening with widespread severe weather ongoing across parts of the Texas Panhandle into western Oklahoma along a cold front. A rapidly deepening surface cyclone across southwest Kansas is being aided by intense wind fields above the surface. This has led to a full on dust storm across parts of West Texas where visibilities are zero and winds have gusted to near 80 mph. A recent gust to 76 mph

A powerful storm system is ejecting into the Plains this evening with widespread severe weather ongoing across parts of the Texas Panhandle into western Oklahoma along a cold front. A rapidly

Only brief change was an hour or two of spotty and light blowing dust that resulted in causing minor restrictions to visibilities.

Westerly winds will prevail in the wake of a departing front. The downsloping component will offset any cold advection, and abundant

Figure B-2: NWS forecast discussion from Dallas/Ft. Worth, TX forecast office on February 26 and February 27, 2023

Intense winds, suffocating blowing dust and severe thunderstorms (26 February 2023)

Lubbock, TX
Weather Forecast Office

[Weather.gov](#) > [Lubbock, TX](#) > Intense winds, suffocating blowing dust and severe thunderstorms (26 February 2023)

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Intense winds, suffocating blowing dust and severe thunderstorms
26 February 2023



Thick blowing dust blowing approaching Lake Alan Henry Sunday evening (26 February 2023). The image is courtesy Lake Alan Henry Weather via Twitter.

Figure B-3: Picture from NWS discussion on blowing dust in West Texas on February 26, 2023¹

¹ <https://www.weather.gov/lub/events-2023-2023026-wind>

Tornadoes, Blowing Dust, Wind, and Hail - February 26th, 2023

[Weather.gov](#) > [Amarillo, TX](#) > Tornadoes, Blowing Dust, Wind, and Hail - February 26th, 2023

Amarillo, TX
Weather Forecast Office

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Overview

A vigorous upper level storm system passed through the Southern Great Plains on February 26th, 2023. This brought widespread strong winds, blowing dust leading to visibility restrictions, large hail, and a couple tornadoes. The severe thunderstorms were out ahead of the main Pacific front and mainly impacted the eastern combined Panhandles. The stronger of the two tornadoes produced EF-1 damage on an outbuilding in Wheeler County. Widespread blowing dust due to strong winds out of the west led to visibility restrictions that caused vehicle accidents near Adrian and Dalhart, Texas. The largest reported hail stone was golf ball size hail 5 miles east of McLean, Texas and the strongest measured wind gust was 87 mph at Stratford, Texas.



Trampoline on house in north Amarillo. Photo courtesy of Matt Thomason.



Tornado damage near Kelton. Photo courtesy of Shawna Powell Hennig.



Reduced Visibility in Dalhart from Dust. Courtesy of @DalhartWx

Figure B-4: NWS discussion describing blowing dust in West Texas on February 26, 2023²

GROUP 6 - MARCH 2, 2023

all severe modes, including isolated tornadoes. However, with the expectation for a more linear complex across our area, damaging winds along with large hail are expected to remain as the primary severe weather hazards across our region. The greater risk for

We have expanded and upgraded the High Wind Warning to include another row of counties along the southern Edwards Plateau and Rio Grande Plains. Those counties are Edwards, Real, Uvalde, Zavala and Dimmit Counties. It will be in effect from 3 pm to midnight tonight.

2) Very windy conditions will develop this afternoon and evening across the Rio Grande Plains, southern Edwards Plateau and parts of the Hill Country with wind gusts between 40-60 mph likely. Relative

Figure B-5: NWS forecast discussion from the Austin/San Antonio, TX office on March 2, 2023

² <https://www.weather.gov/ama/TornadoesDustWindHailFebruary26th2023>

GROUP 11 - JULY 25, JULY 26, JULY 27, AND JULY 28, 2023

VFR conditions are expected to prevail through the TAF period with some morning or early afternoon haze possible due to Saharan dust. Southeasterly winds increase by late morning and become breezy behind the seabreeze into late afternoon.

Figure B-6: NWS forecast discussion from the Corpus Christi office on July 26, 2023

water values have fallen to 1.2-1.4 inches. Haze from Saharan dust may reduce visibility to around 6 miles at times, however. Breezy SE winds return mid-morning on Thursday, then back slightly due to the sea-breeze effect by mid-afternoon.

Figure B-7: NWS forecast discussion from the Corpus Christi, TX office on July 27, 2023