

**APPENDIX B**

**NWS DISCUSSIONS**

EXCEPTIONAL EVENTS DEMONSTRATION FOR 2022 PM<sub>2.5</sub>  
EXCEEDANCES AT ATASCOSA, HIDALGO, NUECES, TARRANT,  
AND WEBB COUNTIES

AUGUST 5, 2025

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

## APPENDIX B: NWS DISCUSSIONS

### B.1: GROUP 1 – MAY 5, 2022

remaining in place. Light winds combined with the low level moisture may produce patchy fog and low CIGs with IFR/MVFR conditions overnight. Clouds are expected to decrease Friday morning with VFR conditions developing by mid to late morning. Strong gusty southerly winds across the Coastal Bend this afternoon will diminish by this evening with light and variable winds expected overnight. Across the Brush Country, light to moderate south winds will shift to the west and northwest this afternoon, then will continue to clock around to the northeast tonight and becoming light and variable.

CC: 05-05-22 | 18:10 UTC

Figure B-1: NWS Area Forecast Discussions on May 5, 2022, from the Corpus Christi NWS Weather Forecast Office, covering the World Trade Bridge Monitoring Area

## B.2: GROUP 2 – MAY 8 AND MAY 9, 2022

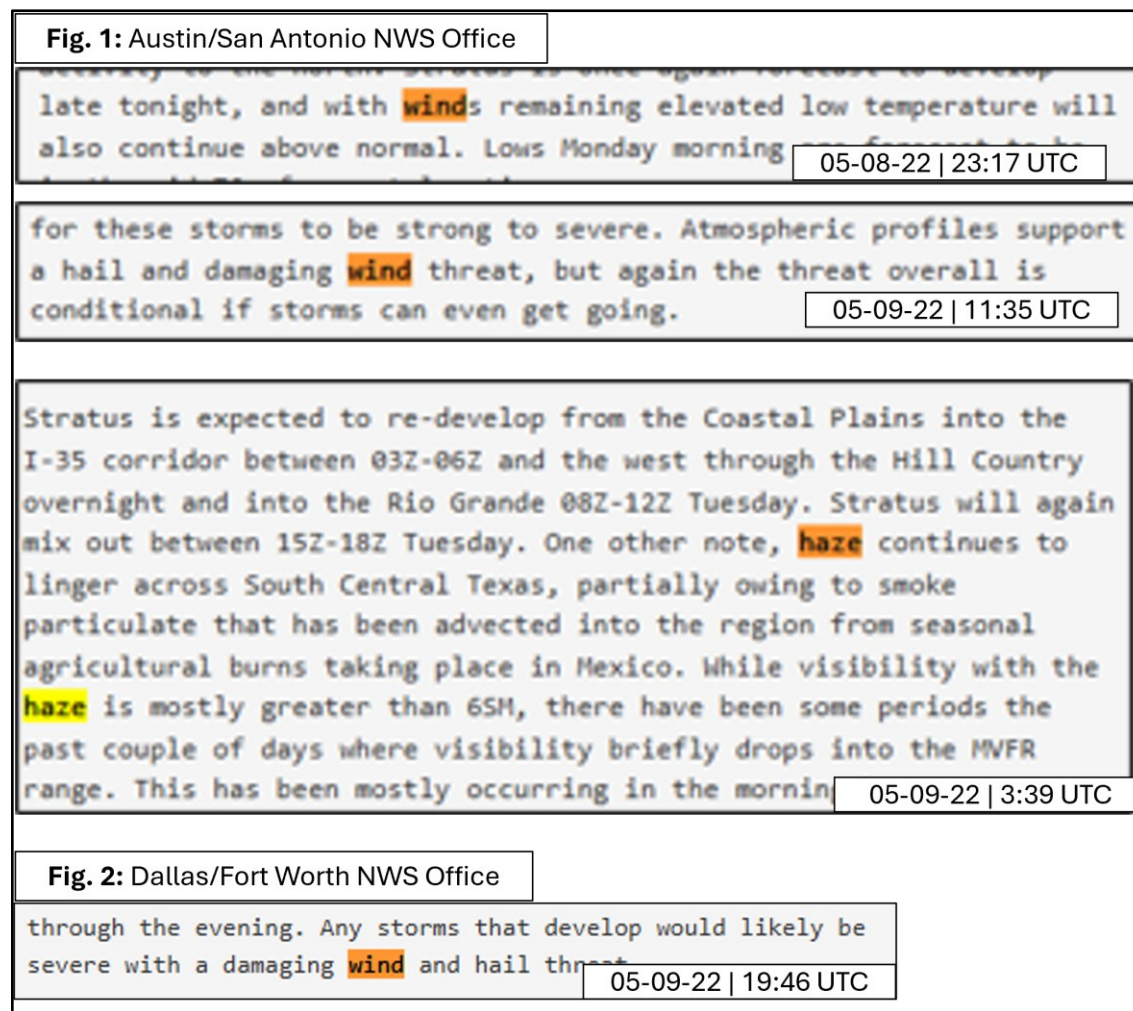


Figure B-2: NWS Area Forecast Discussions on May 8, and May 9, 2022, from the Austin/San Antonio, Corpus Christi, and Dallas/Fort Worth NWS Weather Forecast Office Covering the Von Army Highway 16, World Trade Bridge, and Haws Athletic Center Monitoring Area

### B.3: GROUP 3 - MAY 20 AND MAY 21, 2022

<b>Fig. 1: Corpus Christi NWS Office</b>	
Strong south wind this morning will become strong southeast wind this afternoon. This will result in rough b	05-20-22   17:20 UTC
Elevated convection has moved through the Coastal Bend and produced strong wind gusts. Expect activ	05-21-22   05:22 UTC
<b>Fig. 3: Dallas/Forth Worth NWS Office</b>	
cap can be overcome. Initially, these storms will pose a threat for large hail and damaging winds, but should transition to primarily a damaging wind threat as they move east into the overnight hours. Quiet and storm-free wea	05-20-22   19:07 UTC

Figure B-3: NWS Area Forecast Discussions on May 20 and May 21, 2022, from the Corpus Christi and Dallas/Fort Worth NWS Weather Forecast Office Covering the World Trade Bridge and Haws Athletic Center Monitoring Area

<b>Fig. 2: San Antonio NWS Office</b>	
and east of US highway 281. The main hazards would be large to very large hail and some locally strong wind gust	05-20-22   05:13 UTC
across the region. Large to very large hail would be the greatest hazard with these storms but some strong wind gusts may also be possible. The latest SPC convective outloo	05-21-22   00:22 UTC

Figure B-4: NWS Area Forecast Discussions on May 20 and May 21, 2022, from the San Antonio NWS Weather Forecast Office Covering the Von Ormy Highway 16 Monitoring Area

B.4: GROUP 4 - JUNE 12 THROUGH JUNE 17, 2022

<b>Fig. 1: Brownsville NWS Office</b>	
While skies will remain partly to mostly sunny, hazy conditions are expected due Saharan dust that has arrived and will stick around through the remainder of the period.	06-12-22   19:24 UTC
The Saharan Air Layer (SAL) will continue to impact Deep South Texas through Friday based on the latest NASA GEOS model, maintaining hazy conditions across the area through the rest of the week.	06-13-22   23:03 UTC
although isolated showers/thunderstorms may return to the forecast on Monday due to deeper moisture emanating from the Bay of Campeche. Haze will persist courtesy of Saharan dust.	06-14-22   11:15 UTC
around 80 degrees. Hazy conditions will prevail through at least the first half of the weekend as Saharan dust lingers across the region.	06-15-22   08:04 UTC
The latest NASA/GMAO Dust Aerosol Optical Thickness forecasts suggest plumes of Saharan dust will prevail over the region during much of the period. Will keep the mention of hazy conditions through the forecast due to lingering Saharan dust across the area. One thing to note, rain chances may continue to trend downward for early next week as the Saharan dust would dry out	06-16-22   11:30 UTC
forecast dry for now as most models keep pops below 15 percent. Also, will continue to mention haze through the short-term due to some lingering Saharan dust.	06-17-22   09:59 UTC

Figure B-5: NWS Area Forecast Discussions on June 12 through June 17, 2022, from the Brownsville NWS Weather Forecast Office, Covering the Edinburg East Freddy Gonzalez Drive Monitoring Area

<b>Fig. 4: Corpus Christi NWS Office</b>	
Our influx of Saharan dust looks to continue through the work week. NASA Dust Aerosol Optical Thickness forecasts maintain a constant stream of dust which will provide a hazy look to the sky during the day. With that said, we may be in store for	06-13-22   11:32 UTC
Lastly, maintained the mention of haze across the region as a plume of Saharan dust streams into the region. As a result, we have already seen some photogenic sunrises and sunsets so expect this trend to continue over the next several days.	06-16-22   17:36 UTC

Figure B-6: NWS Area Forecast Discussions on June 13 and June 16, 2022, from the Corpus Christi NWS Weather Forecast Office, Covering the Donna Park and World Trade Bridge Monitoring Area



Fig. 3: ARR	
identical setup. Saharan dust at higher levels may inhibit low cloud formation as it could slow radiational cooling, but think this will be offset by strong southeasterly sfc winds advecting low level moisture in rather quickly this evening. Winds should back	06-13-22
seems worth mentioning, however, with the first being related to Saharan dust plume currently situated over the area. As	06-14-22
25 mph along the Rio Grande. One more thing to mention for today is the hazy skies due to Saharan dust lingering across the	06-17-22

Figure B-7: NWS Area Forecast Discussions on June 13, June 14, and June 17, 2022, from the Austin/San Antonio NWS Weather Forecast Office, Covering the Von Ormy Highway 16 Monitoring Area

Fig. 6: Fort Worth NWS Office	
afternoon. Otherwise, skies will be mostly clear, although there may be a noticeable increase in Saharan dust beginning to approach from the southeast late in the day. This will	06-13-22   10:28 UTC
decent relief from the heat. The upper-level pattern is also conducive for the arrival of Saharan dust from the southeast which will result in increasingly hazy skies	06-14-22   09:00 UTC
Hazy skies continue to be the main weather story today as the plume of Saharan dust migrates northward. The dust is likely to stick around through the night and gradually become less concentrated tomorrow. The rest of today,	06-16-22   18:16 UTC
the next several hours. A modest cap between 850-700mb has continued to trap pollutants down low with some residual Saharan dust well aloft making for another hazy and	06-17-22   19:53 UTC

Figure B-8: NWS Area Forecast Discussions on June 13, June 14, June 16, and June 17, 2022, from the Fort Worth NWS Weather Forecast Office, Covering the Haws Athletic Center Monitoring Area

**B.5: GROUP 5 - JULY 16 THROUGH JULY 18, 2022**

<b>Fig. 5: CC &amp; LAR</b>	<b>07-16-22</b>
gusty winds. Saharan dust is likely to move into the region today providing hazy conditions. Not sure if it will be enough to limit	
yesterday for the Brush Country. NASA GMAO shows region of Saharan dust will remain over south Texas through this evening providing hazy conditions.	
	<b>07-17-22</b>
around 107 across the Brush Country. Heat indices today will top out in the 105-109 range. Otherwise for today, the tail end of a large plume of Saharan dust that influenced South Texas over the weekend will push into South-Central Texas by mid day.	
	<b>07-18-22</b>

**Figure B-9: NWS Area Forecast Discussions on July 16 through July 18, 2022, from the Corpus Christi NWS Weather Forecast Office, Covering the World Trade Bridge Monitoring Area**

<b>Fig. 3: ARR</b>
In addition to the warmth and dryness, another batch of Saharan dust is pushing into the region and although it shouldn't reduce
<b>07-17-22</b>

**Figure B-10: NWS Area Forecast Discussions on July 17, 2022, from the Austin/San Antonio NWS Weather Forecast Office, Covering the Von Ormy Highway 16 Monitoring Area**