

APPENDIX B

NWS DISCUSSIONS AND FORECASTS

EXCEPTIONAL EVENTS DEMONSTRATION FOR 2022, 2023,
AND 2024 PM_{2.5} EXCEEDANCES AT HARRISON, TRAVIS, AND
KLEBERG COUNTIES

AUGUST 5, 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
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APPENDIX B: NWS DISCUSSIONS AND FORECASTS

B.1: Group 1 – June 14, 2022

Austin/San Antonio NWS Office	
to 15-20 mph, gusting to 25+ at times. If you've noticed the hazy skies, it's due to the Saharan Dust Layer working its way all the way across the Atlantic into the southern C	06-13-22 17:15 UTC
15Z-17Z as the stratus mixed out. Only other restriction to note is haze associated with the Saharan Dust over the region. The dust will continue over South Central Texas through to	06-14-22 23:38 UTC
06-16-22 07:19 UTC	ide. One more thing to mention for today is the hazy skies due to Saharan dust lingering across the area.

Figure B-1: NWS Area Forecast Discussion on June 13, June 14, and June 16, 2022, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

B.2: Group 4 – December 31 and January 1, 2024

Austin/San Antonio NWS Office	
restrictions in the hours before the FROPA. In addition, can't rule out some smoke impact from midnight fireworks especially if fog is a concern. Behind the front tomorrow, breezy n	12-31-23 16:43 UTC
corridor. Air quality readings across the region have indicated a rapid increase in smoke particulates from fireworks activity ringing in the New Year. These smoke particulates an	01-01-24 06:37 UTC

Figure B-2: NWS Area Forecast Discussion on December 31, 2023, and January 1, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

B.3: Group 8 – April 17 through April 18, 2024

Austin/San Antonio NWS Office	
drizzle will be possible around daybreak along the escarpment. The stratus should mix out around midday, and with high clouds temporarily clearing off to the east a warmer, hazy, and partly cloudy to mostly clear afternoon is expected	04-18-24 11:33 UTC

Figure B-3: NWS Area Forecast Discussion on April 18, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

B.4: Group 10 – May 7 through May 10, 2024

Corpus Christi NWS Office
today and will continue through Thursday night. Smoke guidance from the HRRR shows increased near-surface smoke concentration advecting from Central America up to South Texas. Weakening winds
05-08-24 19:49 UTC
in ALI and VCT as residual smoke from Central America has caused continuous hazy conditions across South Texas. The presence of
05-08-24 23:32 UTC
some patchy fog possible. In addition to patchy fog, residual smoke from Central America will continue to cause hazy conditions across South Texas ahead of our next front. The cold front is
05-09-24 07:39 UTC
The persistent hazy conditions from lingering near-surface smoke over fires in Central America will continue until the aforementioned front pushes southward through South Texas during the day on Friday.
05-09-24 20:19 UTC

Figure B-4: NWS Area Forecast Discussion on May 8 and May 9, 2024, from the Corpus Christi NWS Weather Forecast Office, covering the National Seashore monitoring area

Austin/San Antonio NWS Office
visibilities are 1 mile or greater in mist and haze. We have also inserted haze into the forecast through the day, south of the front and east of the dryline, given the background residual smoke in the air originating from seasonal burnings in Mexico and Central America. Minor updates were made on timing
05-09-24 13:50 UTC

Figure B-5: NWS Area Forecast Discussion on May 9, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

B.5: Group 11 – May 16, 2024

Brownsville NWS Office 05-15-24 @ 19:52 UTC
Otherwise, hazy conditions will persist through this evening, thanks southerly winds and burning in Mexico and Central America. Haze

Figure B-6: NWS Area Forecast Discussion on May 15, 2024, from the Brownsville NWS Weather Forecast Office, south adjacent to the National Seashore monitoring area

B.6: Group 12 – May 19 through May 28, 2024

Austin/San Antonio NWS Office	
10-30% range. Otherwise, continued above normal temperatures with periods of hazy conditions.	05-19-24 07:10 UTC
Otherwise, continued well above normal temperatures with periods of hazy conditions east of the dryline. Heat-ré	05-21-24 08:26 UTC
overnight and linger through Wednesday morning. There could at times be some reduced visibility due to a mix of BR and smoke from fires in Mexico, mainly noticeable during the morning	05-21-24 17:29 UTC

Figure B-7: NWS Area Forecast Discussion on May 19 and May 21, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

Corpus Christi NWS Office	
north of the region. Smoke will linger at times through the week as fires continue to burn to our south.	05-19-24 20:09 UTC
morning streamer shower or sprinkle on Monday. In addition, the haze will likely stick around through the early part of the week, and tomorrow could be combined with some fog, especially in the northern coastal bend.	05-19-24 20:09 UTC
stay to the north of the area Wednesday and Thursday. Hazy conditions will continue through the week as the fires continue to burn well to our south.	05-20-24 08:42 UTC
Hazy conditions will likely continue through the period due to fires well south of the region.	05-21-24 02:45 UTC

Figure B-8: NWS Area Forecast Discussion on May 19 through May 21, 2024, from the Corpus Christi NWS Weather Forecast Office, covering the National Seashore monitoring area

Austin/San Antonio NWS Office	
scatter out midday. In addition, hazy conditions, associated with seasonal smoke from agricultural burning to the south, persists across our region and will continue east of the dryline through the short-term.	05-22-24 11:29 UTC
MVFR cigs may linger for a couple more hours at KSAT/KSSF, otherwise VFR conditions are expected through the afternoon and evening with some minor visibility reductions due to haze	05-24-24 19:01 UTC

Figure B-9: NWS Area Forecast Discussion on May 22 and May 24, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

Corpus Christi NWS Office	
knots through the afternoon. Mist during the early morning hours and haze from smoke over Central America will continue to result in 4-6SM visibilities throughout the TAF p	05-22-24 23:42 UTC
reach LRD, but could briefly reach COT early Friday morning. Winds will likely be too elevated to allow fog to develop, but hazy conditions are expected in the morning due to agricultural fires well south of the region. Otherwise, VFR co	05-23-24 23:48 UTC
gusty once again today, especially for the eastern sites. MVFR conditions will be possible once again tomorrow night, mainly or reduced visibilities due to haze.	05-24-24 11:02 UTC
MVFR visibilities remain in place over ALI, COT, and VCT due to the continued presence of haze. A low chan	05-25-24 17:41 UTC

Figure B-10: NWS Area Forecast Discussion on May 22 through May 25, 2024, from the Corpus Christi NWS Weather Forecast Office, covering the National Seashore monitoring area

Austin/San Antonio NWS Office	
make it past a Fredericksburg to Eagle Pass line...so most of the area will remain in the hazy, hot, smokey a	05-26-24 23:49 UTC

Figure B-11: NWS Area Forecast Discussion on May 26, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

Corpus Christi NWS Office	
VFR through the remainder of the period. Some brief periods of IFR remains possible at site ALI tomorrow morning as fog could mix with the haze/smoke from Mexico. Winds decr	05-26-24 08:09 UTC
Air quality will remain poor as HRRR near-surface smoke model guidance continues to illustrate smoke ushering in from Central America agricultural fires early this week	05-27-24 03:58 UTC
week. The onshore winds will also continue to draw a thick plume of smoke/haze northward into the region as fires continue to burn in Mexico. In fact according to the Nation	05-28-24 08:51 UTC

Figure B-12: NWS Area Forecast Discussion on May 26 through May 28, 2024, from the Corpus Christi NWS Weather Forecast Office, covering the National Seashore monitoring area

B.7: Group 13 – June 3 through June 6, 2024

Corpus Christi NWS Office	
Forecast: For tonight, We will be going into a rather, wash, rinse, repeat kind of pattern with the murky start of haze, humidity, and low clouds which break around mid to late m	06-03-24 20:50 UTC
with occasional occurrences over COT/LRD. Could see a mix of patchy fog and haze drop vsby at ALI/VCT during the early morning hours. Gusty southeasterly winds around 25	06-04-24 23:48 UTC
Bend. Strong winds have been reported with this activity with wind gusts up to 50 knots reported at Matagorda	06-05-24 17:59 UTC
VFR ceilings are currently in place across all terminals, with MVFR visibilities occurring over LRD due to the continued presence of haze. While the earlier showers	06-05-24 23:35 UTC
As the high pressure builds to the south through Friday we will remain dry and initially a bit hazy. However, as the high pushes far enough south tonight into Friday, that should push those hazy conditions farther south and out of the ar	06-06-24 11:45 UTC

Figure B-13: NWS Area Forecast Discussion on June 3 through June 6, 2024, from the Corpus Christi NWS Weather Forecast Office, covering the National Seashore monitoring area

B.8: Group 14 – July 30 Through August 1, 2024

Corpus Christi NWS Office	
Additionally, Saharan Dust is forecast to move into the area late Tuesday into early Wednesday morning, likely resulting in hazy skies across the region.	07-30-24 5:32 UTC
- Haze from Saharan Dust expected this afternoon through Thursday.	07-31-24 5:23 UTC

Figure B-14: NWS Area Forecast Discussion on July 30 and July 31, 2024, from the Corpus Christi NWS Weather Forecast Office, covering the National Seashore monitoring area

Austin/San Antonio NWS Office	
advisory levels for some locations this afternoon and again Wednesday afternoon. Hazy skies are expected to return as another round of Saharan dust makes its way into the region on Wednesday. This shouldn't affect temperatures for the r	07-31-24 05:22 UTC

Figure B-15: NWS Area Forecast Discussion on July 31, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area