APPENDIX B

NWS DISCUSSIONS AND FORECASTS

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

AUGUST 5, 2025

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

APPENDIX B: NWS DISCUSSIONS AND FORECASTS

B.1: Group 1 – June 14, 2022

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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 ( 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 | de. One more thing to mention for today is the hazy skies due to Saharan dust lingering across the area.
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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

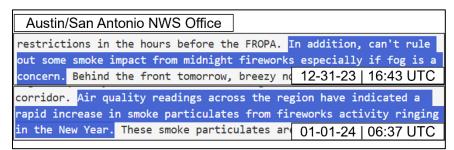


Figure B-2: NWS Area Forecast Discussion on December 31, 2023, and January 1, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

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

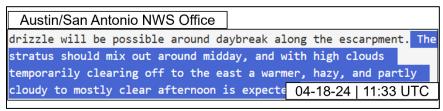


Figure B-3: NWS Area Forecast Discussion on April 18, 2024, from the Austin/San Antonio NWS Weather Forecast Office, covering the Austin Webberville Rd monitoring area

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

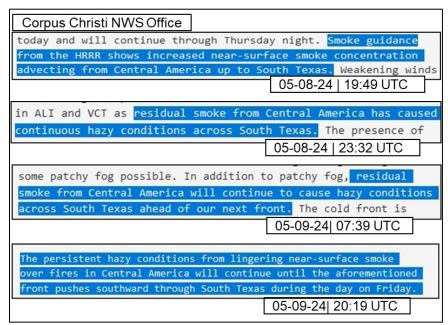


Figure B-4: NWS Area Forecast Discussion on May 8 and May 9, 2024, from the Corpus Christi NWS Weather Forecast Office, covering the National Seashore monitoring area

Austin/Con Antonio NIMC Office		
Austin/San Antonio NWS Office		
visibilities are 1 mile or greater in mist and haze. We have al	so	
inserted haze into the forecast through the day, south of the f	ront	
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 U	TC	

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

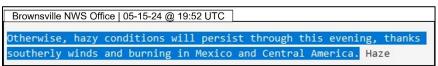


Figure B-6: NWS Area Forecast Discussion on May 15, 2024, from the Brownsville NWS Weather Forecast Office, south adjacent to the National Seashore monitoring area

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

Austin/San Antonio NWS Office		
10-30% range. Otherwise, continued above nor	mal 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-re	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		
Mexico, mainly noticeable during the morning l	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 time	mes through the week as	
fires continue to burn to our south.	05-19-24 20:09 UTC	
morning streamer shower or sprinkle on Mond	day. In addition, the	
haze will likely stick around through the ϵ	early part of the week,	
and tomorrow could be combined with some fo	og, 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 con	ditions, 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 h	aze 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

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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.

MVFR visibilities remain in place over ALI, COT, and VCT due to the continued presence of haze. A low cham 05-25-24 | 17:41 UTC
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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

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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
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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
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
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
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America agricultural fires early this week 05-27-24 03:58 UTC week. The onshore winds will also continue to draw a thick plume
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

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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
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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 forecas Tuesday into early Wednesday morning,		
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