

APPENDIX B

**NATIONAL WEATHER SERVICE DISCUSSIONS AND
FORECASTS**

**EXCEPTIONAL EVENTS DEMONSTRATION FOR 2023 AND 2024
PM_{2.5} EXCEEDANCES AT EL PASO COUNTY**

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 - JANUARY 10, 2023

El Paso NWS Office	
01-10-23 10:28 UTC	of 25 to 35 mph may occur over a large portion of the forecast area along with patchy blowing dust.
the north. It has been another warm day even with the cloud cover due to modest southwest winds with highs around 70 degrees in El Paso. Mountain areas are expected to see increasing winds tonight as the system approaches from the west and southwesterly flow aloft strengthens. Lows tonight will be some 5-15 degrees above normal due to the high clouds and southwest winds.	
01-10-23 23:40 UTC	

Figure B-1: NWS Area Forecast Discussion on January 10, 2023 from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.2: GROUP 3 - FEBRUARY 5, 2023

El Paso NWS Office	
Light northwest 20-ft winds will lead to Poor to Fair smoke ventilation. Better vent rates Saturday	02-06-23 5:20 UTC
chance for light precipitation and cooler temperatures. Poor to fair ventilation through this weekend increasing early next week.	
02-06-23 17:34 UTC	

Figure B-2: NWS Area Forecast Discussion on February 6, 2023, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.3: GROUP 4 - FEBURARY 26, 2023

El Paso NWS Office	
remainder of Saturday. For Sunday, a strong storm system will move across the region with strong to potentially damaging winds and blowing dust across the forecast area. L	02-26-23 05:31 UTC

Figure B-3: NWS Area Forecast Discussion on February 26, 2023, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.4: GROUP 6 - NOVEMBER 23, 2023

El Paso NWS Office	
up. If winds do become stronger, patchy blowing dust could be seen downwind of typical dust source regions.	
11-23-23 06:29 UTC	

Figure B-4: NWS Area Forecast Discussion on November 23, 2023, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.5: GROUP 8 - JANUARY 7, 2024

El Paso NWS Office	
and especially for western NM Sunday afternoon. Sustained wind speeds of 25-35 mph with gusts up to 50 mph are likely during the afternoon hours, primarily for the NM boot	01-07-24 05:21 UTC

Figure B-5: NWS Area Forecast Discussion on January 7, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.6: GROUP 9 - JANUARY 11, 2024

El Paso NWS Office	
At this writing we are in the middle of a pretty powerful storm system passing through the region. Wind and dust was expected to be the biggest and most widespread impactful weather, and it has been with widespread low visibility and p	01-11-24 22:02 UTC

Figure B-6: NWS Area Forecast Discussion on January 11, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.7: GROUP 10 - FEBRUARY 28, 2024

El Paso NWS Office	
Very windy conditions with areas of blowing dust will continue through the early evening. Winds calm down heading into Wednesday as precipitation chances increase Wednesday evening through Thursday morning. Quiet weather returns fo	02-28-24 05:42 UTC

Figure B-7: NWS Area Forecast Discussion on February 28, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.8: GROUP 11 - MARCH 24, 2024

El Paso NWS Office	
front has already passed through the area. Normally, a cold front would help settle the dust, but dust satellite products show several active plumes. The strongest winds likely occurred with the earlier front passage, but with continued daytime mixing, we still have a few more hours for us to hit 50-60 MPH gusts, especially east of mountains. Following the	03-24-24 20:30 UTC

Figure B-8: NWS Area Forecast Discussion on March 24, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.9: GROUP 12 – MARCH 31, 2024

El Paso NWS Office
southwest New Mexico mid-afternoon. Blowing dust possible along International Border, with prevailing visibility 3 to 5 miles between noon and 6PM this afternoon. Skies will remain BKN.
3-31-24 11:36 UTC

Figure B-9: NWS Area Forecast Discussion on March 31, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.10: GROUP 13 – APRIL 15, 2024

El Paso NWS Office
A passing Pacific storm system to our north will deliver a dry, windy, and dusty day to the Borderland. Winds will increase to 30 to 40 mph this afternoon with gusts around 50 mph. Blowing dust is expected to become widespread, with local areas of dense dust and difficult travel. Wildfire concerns will be high today, with dry
in the single-digits. The lack of precipitation means that soils and sands are dry, with dust source regions primed to provide lofted dust. Soundings across the area indicate deep mixing due to
04-15-24 09:45 UTC
Blowing Dust Advisory until 5 PM MDT this afternoon for TXZ418>424.
04-15-24 20:00 UTC

Figure B-10: NWS Area Forecast Discussion on April 15, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.11: GROUP 14 – APRIL 25, 2024

El Paso NWS Office 04-25-24 08:14 UTC
Blowing dust and extreme fire danger are also considerations for this afternoon. Expect a response from dust sources in northern Chihuahua roughly around 11 AM today. Dust modeling shows the main plumes affecting El Paso and Hudspeth Counties, with more patchy

Figure B-11: NWS Area Forecast Discussion on April 25, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.12: GROUP 15 - JUNE 19, 2024

El Paso NWS Office 06-19-24 10:34 UTC
Sacramento Mtns today as this is a very sensitive area due to wildfires. Any good rain producing thunderstorms that falls over eastward. Thunderstorms will be capable of very gusty and erratic outflow winds and hail. This will make it quite dangerous near the fireline of ongoing wildfires if thunderstorms pops in the vicinity. Low chances of thunderstorms popping west of the Rio

Figure B-12: NWS Area Forecast Discussion on June 19, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.13: GROUP 16 - JULY 24 THROUGH JULY 26, 2024

El Paso NWS Office
pressure across western CONUS is transporting smoke from the Canadian Rockies and PacNW where numerous large wildfires continue to burn. An Air Quality Alert remains in eff
07-24-24 19:34 UTC
pressure across western CONUS is transporting smoke from the Canadian Rockies and PacNW where numerous large wildfires continue to burn. An Air Quality Alert remains in eff
07-25-24 5:01 UTC

Figure B-13: NWS Area Forecast Discussion on July 24 and 25, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.14: GROUP 20 - OCTOBER 29, 2024

El Paso NWS Office
Windy and dusty conditions expected today as a strong upper level system moves across the region. Cooler temperatures settle in across the area on Wednesday with warming temperatures on Thursday
10-29-24 9:26 UTC

Figure B-14: NWS Area Forecast Discussion on October 29, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area