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

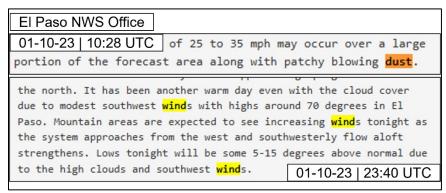


Figure B-1: NWS Area Forecast Discussion on January 10, 2023 from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.2: GROUP 3 - FEBRUARY 5, 2023

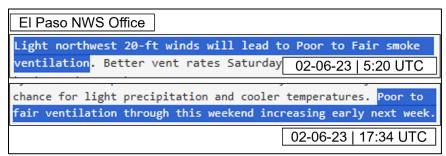


Figure B-2: NWS Area Forecast Discussion on February 6, 2023, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.3: GROUP 4 - FEBURARY 26, 2023

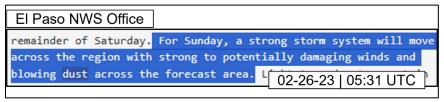


Figure B-3: NWS Area Forecast Discussion on February 26, 2023, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.4: GROUP 6 - NOVEMBER 23, 2023

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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
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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

FI 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

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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 nemain RVM.

3-31-24 | 11:36 UTC
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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

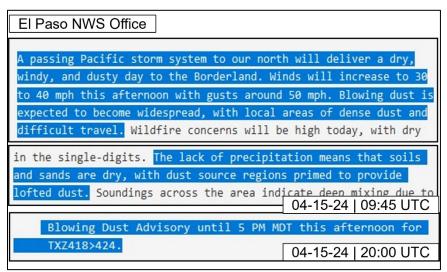


Figure B-10: NWS Area Forecast Discussion on April 15, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.11: GROUP 14 - APRIL 25, 2024

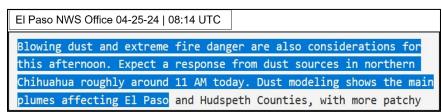


Figure B-11: NWS Area Forecast Discussion on April 25, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.12: GROUP 15 - JUNE 19, 2024

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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
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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

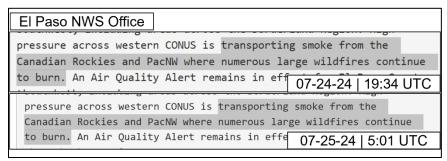


Figure B-13: NWS Area Forecast Discussion on July 24 and 25, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area

B.14: GROUP 20 - OCTOBER 29, 2024

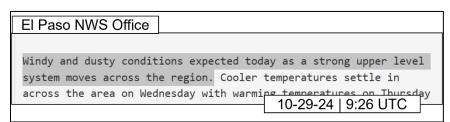


Figure B-14: NWS Area Forecast Discussion on October 29, 2024, from the El Paso NWS Weather Forecast Office, covering the El Paso Chamizal Monitoring Area