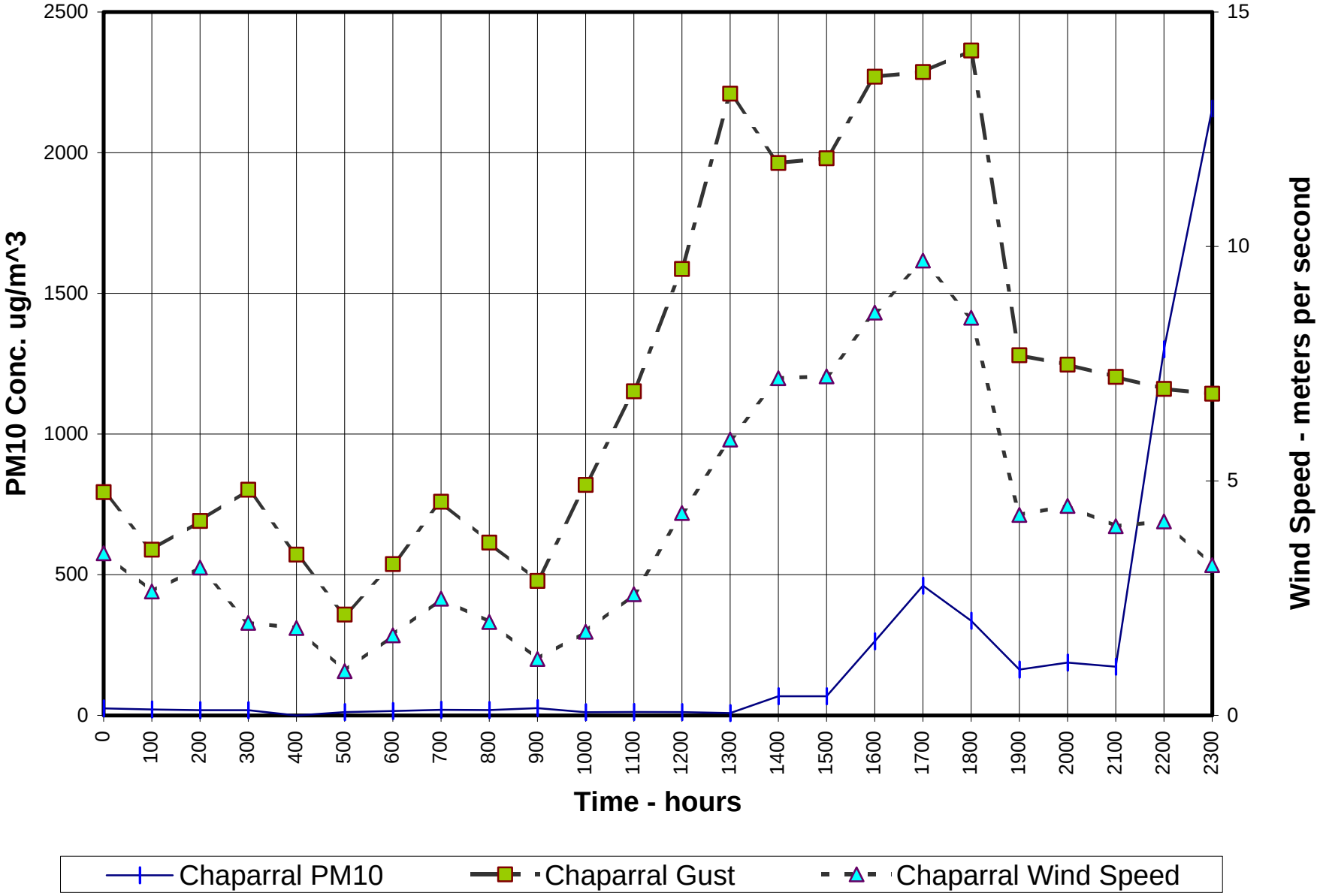
APPENDIX 4

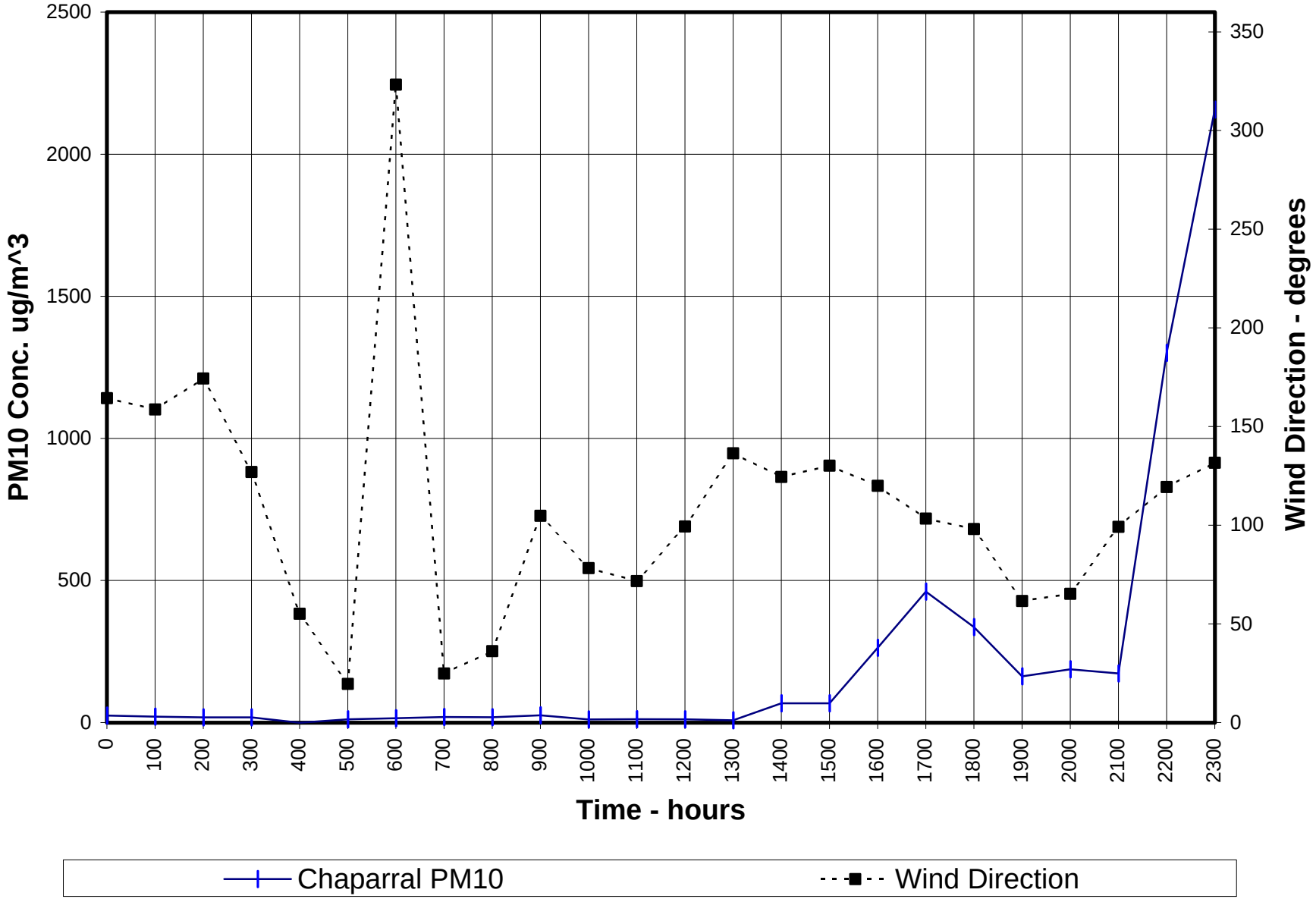
Documentation for Exceedance 21-Mar-02, Chaparral

A) Hourly PM_{10} and Wind Speed at Chaparral, 21-Mar-02
B) Hourly PM_{10} and Wind Direction at Chaparral, 21-Mar-02
C) Hourly PM_{10} and Wind Speed at Sunland Park City Yards, 21-Mar-02
D) Hourly Monitoring Data at El Paso UTEP site (C12), 21-Mar-02
E) Hourly Monitoring Data at El Paso Ascarate Park Southeast site (C37), 21-Mar-02

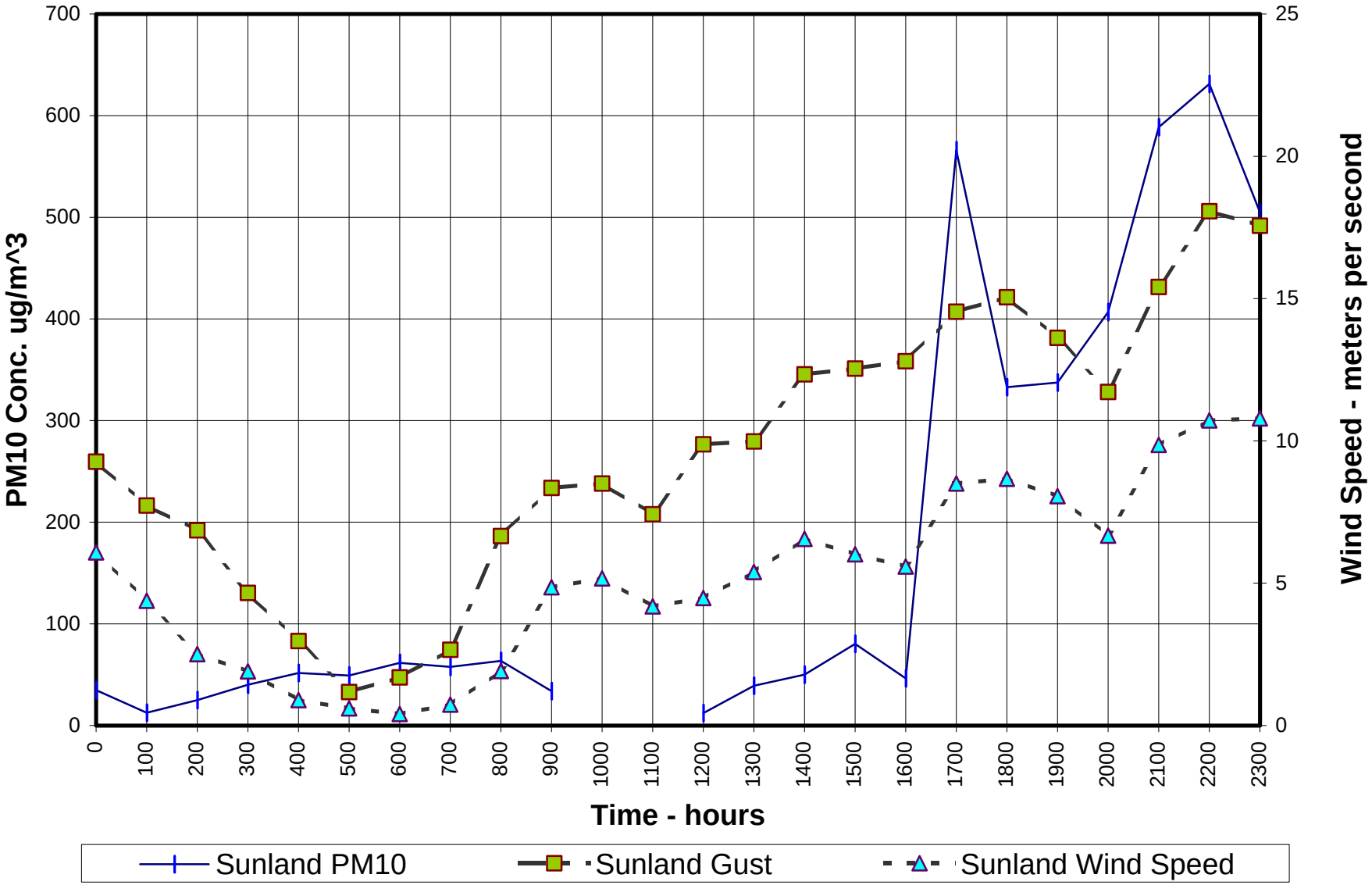
March 21, 2002 - Chaparral



March 21, 2002 - Chaparral



March 21, 2002 - Sunland Park



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El Paso UTEP C12/C125/C151 Data by Site by Date (all parameters)

Use this form to retrieve hourly data collected at El Paso UTEP C12/C125/C151. Although this is our most current data, it is not considered official until it has been certified by our technical staff. This information is updated hourly.

This web page provides the most current hourly averaged data available. Our convention for time-tagging data is the beginning of each hour. For example, values shown for the noon hour are based on measurements taken from noon to 1:00 p.m. The noon average will not be calculated until after 1:00 p.m. The noon average will then be available on our external server after 1:30 p.m. This results in an apparent one-hour time lag in the data. We also present our data in Local Standard Time for each measuring site. For most of Texas this is Central Standard Time (sites in El Paso will be in Mountain Standard Time). During Daylight Saving Time, this introduces another apparent one-hour time lag in the data.

Use the controls below to select a different date or time format and to control cell highlighting based on measured ozone levels. Click on the Generate Report button once you have made your selections.

Month:	Day:	Year:	Time Format:	
March	21	2002	12 Hour (AM/PM)	Generate Report

Highlights: ☐ Healthy ☑ Moderate ☑ Unhealthy for Sensitives ☑ Unhealthy ☑ Very Unhealthy

The table below contains hourly averages for all the pollutants and meteorological conditions measured at El Paso UTEP C12/C125/C151 for **Thursday, March 21, 2002**. All times shown are in Mountain Standard Time.

Parameter Measured	Morning												Afternoon												Parameter Measured
	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	
Carbon Monoxide	0.3	0.3	0.5	0.4	0.4	0.3	1.1	**1.4**	0.8	0.5	0.6	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	Carbon Monoxide
Sulfur Dioxide	0.2	0.1	0.4	0.6	0.3	0.0	1.0	**2.8**	2.4	0.8	0.5	0.7	0.0	0.0	0.1	0.1	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	Sulfur Dioxide
Nitric Oxide	0.3	2.4	11.3	16.2	11.1	6.8	55.0	**86.3**	38.7	12.4	12.3	6.8	2.9	2.9	3.8	2.9	2.6	2.2	0.7	0.2	0.2	0.3	0.6	0.3	Nitric Oxide
Nitrogen Dioxide	22.2	26.6	36.2	37.9	34.4	26.0	**41.6**	38.9	30.0	22.8	24.4	14.9	9.1	8.3	8.6	8.9	10.7	13.0	12.8	10.4	10.0	11.4	10.9	11.0	Nitrogen Dioxide
Oxides of Nitrogen	22.6	29.0	47.5	54.1	45.5	32.8	96.0	**124.2**	68.4	35.2	36.8	21.6	11.9	11.1	12.3	11.7	13.2	15.1	13.5	10.7	10.2	11.8	11.5	11.3	Oxides of Nitrogen
Ozone	17	14	1	1	6	16	2	4	18	28	31	38	**47**	46	45	46	46	37	37	37	34	31	29	25	Ozone
Wind Speed	6.5	5.4	5.3	6.1	5.5	5.8	5.1	5.3	6.3	7.4	6.8	8.1	9.8	9.8	12.8	12.9	13.7	16.5	14.0	15.3	16.5	16.1	**18.1**	17.9	Wind Speed
Resultant Wind Speed	6.3	5.2	5.2	6.0	5.4	5.6	5.0	5.1	6.1	7.1	6.1	7.2	9.2	9.0	12.1	12.2	13.1	16.0	13.6	14.8	16.0	15.6	**17.6**	17.5	Resultant Wind Speed
Resultant Wind Direction	88	104	116	105	94	104	**125**	109	107	108	110	85	109	116	116	119	116	101	102	110	115	101	98	110	Resultant Wind Direction
Maximum Wind Gust	12.2	10.2	9.1	9.3	9.1	10.6	9.3	9.9	11.4	11.7	12.7	15.4	18.7	22.5	24.3	25.8	26.2	31.9	28.3	27.6	28.4	28.9	**32.0**	30.6	Maximum Wind Gust
Std. Dev. Wind Direction	14	15	11	11	13	15	15	15	17	16	25	**27**	20	23	19	19	17	14	15	14	13	15	14	12	Std. Dev. Wind Direction
Outdoor Temperature	54.1	53.1	51.3	50.4	50.1	50.3	49.4	50.0	54.2	57.4	60.8	64.6	68.7	72.0	75.2	**75.5**	75.1	69.3	63.9	59.3	56.0	52.9	49.6	46.4	Outdoor Temperature
Dew Point Temperature	22.4	22.5	23.1	23.3	23.8	23.1	23.3	21.7	22.5	23.9	24.2	21.0	16.7	16.7	8.8	10.2	12.7	24.8	**27.3**	26.6	26.2	25.0	25.0	26.2	Dew Point Temperature
Relative Humidity	29.2	30.3	33.2	34.6	35.8	34.5	35.9	32.9	29.1	27.4	24.7	18.9	13.6	12.1	7.6	8.0	9.2	18.9	25.2	28.8	31.9	33.9	38.4	**45.6**	Relative Humidity
Solar Radiation	0.002	0.001	0.001	0.001	0.002	0.001	0.101	0.418	0.738	0.975	1.134	1.202	**1.243**	1.160	0.998	0.746	0.424	0.091	0.005	0.001	0.001	0.001	0.001	0.001	Solar Radiation
Ultraviolet Radiation	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.011	0.023	0.034	0.041	0.047	**0.048**	0.044	0.036	0.026	0.014	0.004	0.000	0.000	0.000	0.000	0.000	0.000	Ultraviolet Radiation

PM-10 (Standard Conditions)	18.68	12.75	23.30	19.70	16.34	16.04	34.59	51.45	45.78	27.52	31.57	26.02	15.78	30.32	95.31	60.09	90.94	**515.75**	308.66	450.76	453.72	344.59	362.41	205.03	**PM-10 (Standard Conditions)**
PM-2.5 (Local Conditions)	4.07	2.75	4.35	4.93	4.74	3.96	9.76	12.36	9.39	6.56	6.41	2.09	0.69	1.93	2.33	4.96	9.29	45.18	33.98	**49.71**	49.08	35.70	27.05	19.14	**PM-2.5 (Local Conditions)**
Parameter Measured	**Mid**	**1:00**	**2:00**	**3:00**	**4:00**	**5:00**	**6:00**	**7:00**	**8:00**	**9:00**	**10:00**	**11:00**	**Noon**	**1:00**	**2:00**	**3:00**	**4:00**	**5:00**	**6:00**	**7:00**	**8:00**	**9:00**	**10:00**	**11:00**	**Parameter Measured**
	Morning												**Afternoon**												

Maximum values for each parameter are **bold** within the table.

PLEASE NOTE: This data has not been verified by the TNRCC and may change. This is the most current data, but it is not official until it has been certified by our technical staff. Data is collected from TNRCC ambient monitoring sites and may include data collected by other outside agencies. This data is updated hourly. All times shown are in Local Standard Time.

Key to Highlight Colors:

Ozone values in the table above are color-coded to match the ozone warning levels described on the Ozone Warning Status web page. For the Dallas-Fort Worth, San Antonio, and Austin areas, ozone levels have been mapped to colors based on a projected eight-hour average calculated from the measured one-hour levels. For all other areas, ozone levels have been mapped to colors based on the one-hour Air Quality Index (AQI) standard for ozone.

	Measured values range from 0 to 79 ppb. Ozone levels in this range are considered healthy.
	Measured values range from 80 to 124 ppb. Ozone levels in this range are considered moderate.
	Measured values range from 125 to 164 ppb. Ozone levels in this range are considered unhealthy for sensitive groups.
	Measured values range from 165 to 204 ppb. Ozone levels in this range are considered unhealthy.
	Measured values range 205 ppb and higher. Ozone levels in this range are considered very unhealthy.

Texas Natural Resource Conservation Commission

Ascarate Park Southeast C37/C159/C172 Data by Site by Date (all parameters)

Use this form to retrieve hourly data collected at Ascarate Park Southeast C37/C159/C172. Although this is our most current data, it is not considered official until it has been certified by our technical staff. This information is updated hourly.

This web page provides the most current hourly averaged data available. Our convention for time-tagging data is the beginning of each hour. For example, values shown for the noon hour are based on measurements taken from noon to 1:00 p.m. The noon average will not be calculated until after 1:00 p.m. The noon average will then be available on our external server after 1:30 p.m. This results in an apparent one-hour time lag in the data. We also present our data in Local Standard Time for each measuring site. For most of Texas this is Central Standard Time (sites in El Paso will be in Mountain Standard Time). During Daylight Saving Time, this introduces another apparent one-hour time lag in the data.

Use the controls below to select a different date or time format and to control cell highlighting based on measured ozone levels. Click on the Generate Report button once you have made your selections.

Month:	Day:	Year:	Time Format:	
March	21	2002	12 Hour (AM/PM)	Generate Report

Highlights: ☐ Healthy ☑ Moderate ☑ Unhealthy for Sensitives ☑ Unhealthy ☑ Very Unhealthy

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Ascarate Park Southeast C37/C159/C172 for **Thursday, March 21, 2002**. All times shown are in Mountain Standard Time.

Parameter Measured	Morning												Afternoon												Parameter Measured
	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	
Carbon Monoxide	0.5	0.4	0.5	0.5	0.9	0.7	**1.6**	0.9	0.6	0.5	0.4	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	Carbon Monoxide
Nitric Oxide	16.3	6.7	17.0	21.8	42.3	30.5	**149.3**	55.8	26.3	9.3	5.3	1.3	0.0	0.2	0.2	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Nitric Oxide
Nitrogen Dioxide	30.2	32.0	32.8	31.9	31.3	32.1	**38.0**	36.5	34.6	26.7	21.1	8.7	5.7	5.0	5.8	6.4	8.4	5.0	6.5	5.1	4.4	4.4	4.5	4.8	Nitrogen Dioxide
Oxides of Nitrogen	45.1	37.3	48.0	51.7	70.9	60.4	**180.8**	89.1	58.8	34.4	24.9	8.6	4.3	3.8	4.7	5.2	7.6	3.1	4.5	3.0	2.2	2.2	2.3	2.4	Oxides of Nitrogen
Ozone	0	0	0	0	0	0	0	5	14	27	33	45	**48**	47	44	45	44	46	44	42	39	37	31	29	Ozone
Wind Speed	1.4	3.1	2.5	1.9	1.1	1.6	1.6	2.1	2.1	4.2	3.3	6.3	6.0	10.1	13.2	13.1	15.4	**17.2**	16.4	16.9	14.8	11.0	11.4	11.9	Wind Speed

Parameter Measured	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Parameter Measured
	Morning												Afternoon												
Resultant Wind Speed	1.0	2.8	2.4	1.9	0.8	1.5	1.1	2.0	0.7	3.1	1.8	5.5	4.2	8.9	12.6	12.4	14.3	**16.7**	15.9	16.4	14.4	10.5	11.1	11.6	Resultant Wind Speed
Resultant Wind Direction	300	55	102	91	**358**	44	113	294	289	111	41	72	105	112	121	115	103	88	85	86	90	82	85	80	Resultant Wind Direction
Maximum Wind Gust	3.1	6.0	4.6	3.3	2.0	2.9	4.6	3.8	6.9	9.1	8.7	15.0	14.2	20.3	25.8	27.1	29.7	31.0	30.5	**32.6**	29.3	22.8	23.4	23.4	Maximum Wind Gust
Std. Dev. Wind Direction	44	24	19	17	41	19	47	23	**67**	41	56	29	45	28	17	18	22	13	13	14	13	17	13	13	Std. Dev. Wind Direction
Outdoor Temperature	51.7	51.2	49.4	47.4	46.6	46.8	46.2	48.1	53.0	58.3	61.2	66.0	69.7	73.4	75.8	**76.3**	75.2	68.7	63.1	58.6	55.1	51.6	47.5	44.7	Outdoor Temperature
Dew Point Temperature	28.5	26.0	24.2	24.8	**28.9**	25.8	25.7	25.1	23.4	23.8	24.3	21.3	18.9	15.6	10.2	13.4	17.2	27.1	28.7	27.8	26.9	26.5	27.3	27.5	Dew Point Temperature
Relative Humidity	41.3	37.8	37.4	41.4	50.7	44.1	45.0	40.8	31.7	26.5	24.4	18.3	14.4	11.1	7.9	9.0	11.4	21.2	27.4	30.9	33.9	37.8	45.6	**51.0**	Relative Humidity
Visibility	12.72	14.62	16.93	17.67	16.42	14.78	12.66	14.53	15.88	16.80	16.27	18.20	**19.74**	18.22	14.88	16.43	9.80	5.30	5.59	2.52	3.46	3.96	5.17	5.97	Visibility
Solar Radiation	0.000	0.000	0.000	0.000	0.000	0.000	0.049	0.315	0.661	0.951	1.161	1.288	**1.292**	1.228	1.062	0.799	0.428	0.098	0.000	0.000	0.000	0.000	0.000	0.000	Solar Radiation
Barometric Pressure	899.7	899.6	899.5	899.4	899.8	900.4	901.0	901.7	902.2	902.0	901.7	901.0	899.9	898.6	897.8	897.3	897.1	897.6	898.7	899.6	900.8	902.1	902.7	**903.1**	Barometric Pressure
PM-10 (Standard Conditions)	43.37	15.08	18.13	18.22	24.35	25.30	46.39	37.27	29.92	23.14	24.39	14.94	14.92	7.57	60.47	49.76	225.97	334.61	272.33	**710.90**	496.19	388.95	252.99	152.56	PM-10 (Standard Conditions)

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