ARIZONA DEPARTMENT OF TRANSPORTATION

Arizona Department of Transportation

Environmental Planning

Draft Atypical Events Report

SR 24, SR 202L (Santan) – Ironwood Drive

Federal Project No. 024-A(201)T
ADOT Tracs No. 024 MA 000 F0719 01D/02D

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The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by ADOT pursuant to 23 U.S.C. 326 [23 U.S.C. 327] and a Memorandum of Understanding dated January 4, 2021 [April 16, 2019], and executed by FHWA and ADOT.

Contents

Introduction

This report aims to provide the United States Environmental Protection Agency (U.S. EPA) with a robust rationale for the exclusion of four specific dates from the background particulate matter (PM) concentration data for a project to construct improvements to State Route (SR) 24 between SR Loop 202 (SR 202L) and Ironwood Drive. These dates stand out as atypical when compared to the air quality levels and meteorological conditions of the project site. Consequently, the U.S. EPA seeks justification for categorizing these dates as atypical events that warrant their removal from the background concentration analysis.

This report demonstrates that these dates and their instances of exceeding the National Ambient Air Quality Standards (NAAQS) for 24-hour particulates measuring 10 microns or less (PM_{10}) should be disregarded in the projects' PM10 background concentration calculations and the projects assessments of NAAQS exceedance or violations. This recommendation is made due to the dates' air quality characteristics being unique and uncontrollable due to meteorological conditions, which distinguishes them from typical conditions at the project site. This report provides an introductory summary of the project and the regulatory purpose of the report, the projects calculated PM10 background concentrations before and after removing the dates considered atypical to that of standard air quality conditions, and a description of the dates meteorological and air quality conditions that occurred and resulted in 24-hour PM_{10} NAAQS exceedance.

1.0 Project Description

The Arizona Department of Transportation (ADOT) has initiated a project to construct improvements to State Route (SR) 24 between SR Loop 202 (SR 202L) and Ironwood Drive. The project is located on SR 24 between milepost (MP) 0.00 and MP 5.64 and SR 202L between MP 31.57 to MP 37.70 within the City of Mesa, Town of Queen Creek, Town of Gilbert, and unincorporated areas in Maricopa County and Pinal County, Arizona (see enclosed **Figures 1** and **2**).

In 2014 the initial segment of SR 24 between SR 202L and Ellsworth Road was opened to traffic. In 2023 the second segment of SR 24 between Ellsworth Road and Ironwood Drive was completed in an interim condition. The purpose of the project is to widen SR 24 to accommodate two additional general-purpose lanes between Ellsworth Road and Ironwood Drive, resulting in three new bridges over existing crossroads at Williams Field, Signal Butte, and Meridian Road and widening the existing SR 24 bridge over Mountain Road. Roadway and bridge widening over Power Road and the East Maricopa Floodway is proposed along SR 202L to provide lane continuity and additional traffic capacity to and from the SR 24/SR 202L system traffic interchange (TI). The need for the project is to construct improvements to accommodate increased traffic demand.

The scope of work for the project consists of:

- Adding two additional travel lanes on SR 24 in each direction between Ellsworth Road and Ironwood Drive (3+ auxiliary)
- Adding new three-lane approaches and traffic interchange overpass structures (TIOP) at Williams Field Road, Signal Butte Road, and Meridian Road
- Widening the existing grade separated structures at Mountain Road
- A new four-lane bridge over SR 24 along the Crismon Road alignment
- Adding ramp connector roads between SR 202L and the Ellsworth Road intersection including structures over Ray and Hawes Road, a service ramp, and the Powerline Floodway
- Restriping portions of the directional system TI ramps from one lane to two lanes
- Adding an outside general purpose travel lane on the northbound SR 202L between SR 24 and Guadalupe Road
- Reconstructing NB SR 202L exit and entrance ramps at the Elliott Road TI and the exit ramp at Guadalupe Road TI
- Modifying existing on-site roadway drainage system to accommodate additional lanes
- Installing and upgrading signing and pavement markings
- Installing ITS/FMS, traffic signals, and lighting
- Placing seeding on SR 24
- Restoring landscaping and irrigation on SR 202L
- Upgrading sidewalks and ramps to be ADA compliant on Ellsworth Road
- Removing existing SR 202L AR-ACFC and resurfacing by diamond grinding the roadway surface on both directions between Recker Road to Guadalupe Road
- Widening WB SR 202L from the Power Road WB exit ramp to Recker Road including both Power Road ramps
- Widening EB SR 202L between the Power Road entrance and exit ramps including both Power Road ramps
- Widening the existing SR 202L structures over Power Road and the Eastern Maricopa Floodway
- Replacing deck joints on existing SR 202L structures within the project limits
- Constructing new retaining and sound walls and screen walls if needed
- Conducting geotechnical investigations consisting of structure and roadway borings

- Replacing sign panels and removing sign lighting at three SB SR 202L locations north of Guadalupe Rd
- Reconstructing the existing half-diamond intersection of SR 24 at Ironwood Drive to a half diverging diamond intersection (DDI)
- Repairing a pavement crack on the system TI NW Ramp

This project is within the Phoenix CO maintenance area and a nonattainment area for PM_{10}. The proposed project is included in the Maricopa Association of Governments (MAG) Regional Transportation Plan (RTP) MOMENTUM 2050. In addition, the project is included in the FY 2022-2025 MAG Transportation Improvement Program.

2.0 Regulatory Standards

Per U.S. EPA guidelines, specific transportation projects now necessitate a quantitative assessment of PM_{10} impacts in proximity to roadways. This PM hotspot evaluation entails includes estimating the background PM_{10} concentration levels associated with all sources not explicitly included in the modeling for the project. In part, this estimation involves using a 3-year dataset of historical air quality information to establish the PM_{10} background value. This calculated background value is then added to the project's modeled PM_{10} values to determine if the project's emissions might result in exceeding the National Ambient Air Quality Standards (NAAQS). Should the background concentration surpass the NAAQS, a build versus no-build project analysis becomes necessary.

40 CFR Part 51, Appendix W, section 8.3 and Hot Spot Guidance Section 8 provide recommendations for determining an appropriate background concentration. 40 CFR Part. 51 (A 2019 clarification memo, "Additional Methods, Determinations, and Analyses to Modify Air Quality Data Beyond Exceptional Events" (available at https://www.epa.gov/air-quality-analysis/clarification-memo-additional-methods-determinations-and-analyses-modify-air) confirms the applicability of that CFR section to transportation conformity hot spot analyses.) Appendix W, Section 8.3.2 recommends that for many cases, the current design value at a nearby, representative monitoring station is the best starting point for a background concentration. However, there may be cases where the current design value is not appropriate. Section 8.3.2.c.ii specifies there may be circumstances which would necessitate modifications to the background concentrations, stating that "[s]uch cases could include removal of data from specific days or hours when a monitor is being affected by activities that are not typical or not expected to occur again in the future (e.g., construction, roadway repairs, forest fires, or unusual agricultural activities). Such adjustments would make the monitored background concentrations more temporally and/or spatially representative of the area around the new or modifying source for the purposes of the regulatory assessment." The data used to determine the background concentration includes 24-hour average pollutant levels and annual means, excluding atypical air quality events. If the chosen 3-year period for determining the project's background concentration encompasses atypical air quality such events, data affected by those events can be excluded from the analysis. This is done to mitigate the influence of outliers unrepresentative in air quality events on the determination of the background concentration of an area data stemming from uncontrollable air quality events, which could lead to NAAQS exceedances[1].

EPA Region 9 recommends examining several criteria for determining whether a high-wind dust event is appropriate to exclude from a project's background concentrations:

1. Hourly and 24-hour average PM_{10} exceedances at multiple air monitors in the specified areas indicating it's a regional air quality event.
2. Windspeed conditions greater than 25 mph consistent with an increase in hourly PM_{10}
3. Reduced visibility to less than 10 miles consistent with increases in hourly PM_{10} concentrations.
4. National Weather Service (NWS) wind/dust advisories consistent with an increase in hourly PM_{10} concentrations.
5. Summaries of dust complaints and/or notices of PM_{10} violations; if dust complaints are received, or dust complaints do not involve anthropogenic source(s) located upwind of an exceeding monitor.

This document regards the four requested days as atypical in their meteorological and PM_{10} characteristics and proposes their removal from the PM "hot spot" background concentration for the project.

[1] U.S. EPA, Guidelines on Air Quality Models, 40 CFR Appendix-W-to-Part-51 8.08.3.2.

The days identified are proposed to be considered atypical events, due to the occurrence of high wind conditions and dust storms. ADOT justifies that it is inappropriate to consider these days when calculating the project's hot spot analysis background PM_{10} concentrations. To provide justification for exclusion of these dates, the report discusses air pollution forecasts issued by Arizona Department of Environmental Quality (ADEQ), National Weather Service (NWS) historical weather forecasts, National Oceanic and Atmospheric Association (NOAA) weather station data, and 24-hour average PM_{10} concentrations for air quality monitoring stations in the general Phoenix metropolitan area (Phoenix Area).

Maricopa County Air Quality Department (MCAQD), as the designated air quality reporting agency for the project, has provided air quality monitoring data for the dates discussed in this report, accessible in **Appendix A**. MCAQD's data has been utilized as a point of reference for the dates under consideration as atypical in this summary report. Details on these dates are provided in **Section 4.0**.

3.0 Project PM_{10} Background Concentrations, Without Removing Atypical Events

There is one monitor in the vicinity of the project site. The Higley PM monitor (Higley) is approximately 1.5 miles south of the project. **Figure 1** identifies the project location below.

Figure 1. Project location map and proximity to Higley monitor.

Using the U.S. EPA's Transportation Conformity Guidance for Quantitative Hot-spot Analyses in $PM_{2.5}$ and PM_{10} Nonattainment and Maintenance Areas, the project's background PM_{10} levels were calculated for 2022 through 2024 at Higley Monitoring Station. **Table 1** shows the number of completed monitoring days and highest 24-hour typical readings for 2022 through 2024 for Higley monitor.

Using the U.S. EPA's Transportation Conformity Guidance for Quantitative Hot-spot Analyses in $PM_{2.5}$ and PM_{10} Nonattainment and Maintenance Areas, the 4th highest PM_{10} reading each year between 2022 and 2024 were selected for this project.

Table 1: Project Monitoring station Highest 24-hour PM_{10} Readings, Without Removing Atypical Events

Higley Monitor

Data Year	2022	2023	2024
Number of Readings	362	333	359
1st	160	164	141*
2nd	99	143	110
3rd	88	122	106
4th	86	114	104

Source: https: U.S. EPA Outdoor Air Quality Data, Download Daily Air Quality Data, https://www.epa.gov/outdoor-air-quality-data/download-daily-data
Note: *4th highest 24-hour readings are highlighted in red, without removing atypical events.

Table 1 shows that without considering atypical events, Higley monitor's 4th highest value over three years (2022-2024) is 141 µg/m^3. This comes from a total of 1054 days of sampling.

The predicted background concentration, without removing atypical events, of the project is ***141 µg/m^3.***

Per 40 CFR 50, Appendix K, the Maricopa County NAAQS threshold for PM_{10} 24-hour average concentration threshold is 150 µg/m^3. As such, the predicted PM_{10} background concentration does not exceed the PM_{10} NAAQS threshold. **Table 2** compares the background concentration to the PM_{10} NAAQS threshold.

Table 2: PM_{10} NAAQS Threshold & Projects Calculated Background PM_{10} Concentrations

Higley Monitor

4th Highest 24-hour Average PM_{10} Concentration without Atypical Event Data Exclusion (µg/m^3)	PM_{10} National Ambient Air Quality Standards (NAAQS)	Difference (µg/m^3)	Exceeds Threshold?
141	150	9	No

As shown in **Table 2**, the project PM_{10} background concentrations do not exceed the PM_{10} NAAQS threshold, without removing atypical event day data from the analysis. Although not exceeding the threshold, there are dates within the three-year evaluation period (2022 – 2024) being classified as atypical events (weather conditions attributing to high PM_{10} concentrations). As such, the background concentration levels that include atypical event data during this three-year period are unrepresentative of the project's average PM_{10} background concentration and should not be included in the projects PM_{10} background concentration calculations.

4.0 Atypical Event Days

Hourly and daily PM_{10} data for the years 2022 through 2024 was obtained from air quality monitors in the general Phoenix Area from the EPA AirData website to be evaluated for the projects PM_{10} background concentration calculations. Within these three years of data, the following dates are being proposed to be considered as atypical events:

- September 2nd, 2022
- July 21st, 2023
- July 26th, 2023
- July 14th, 2024

The dates above are being proposed to be excluded from the projects PM_{10} background concentration calculations per guidelines listed in 40 CFR Part 51, Appendix W, Section 8.3.2.c.ii for the 40 CFR Part 53 transportation conformity portion of the project. Monitoring data for these four days proposed to be removed was obtained from MCAQD's monitoring records and EPA and was reviewed to ensure that it meets the U.S. EPA's 75% data completeness criteria[2]. **Table 3** summarizes the days recommended for exclusion due to atypical-type events.

The four days proposed for removal from the background concentration analysis are considered atypical in nature because they fit the EPA Region 9's 5-criteria for the data background modification of atypical events (Section 2.0). For the days proposed, Higley and other surrounding monitoring sites showed hourly and 24-hour average PM_{10} NAAQS exceedances, and the Phoenix Area's windspeed conditions were recorded to be greater than 25 mph. The high wind conditions time series data recorded on these dates coincides with an increase in hourly PM_{10} concentrations throughout the Arizona region. These increases in PM_{10} concentrations are consistent with reduced visibility to less than 10 miles as identified in NWS, NOAA Storm Event Reports, ADEQ pollution reports, wind dust advisories, dust complaints received, and notices of PM_{10} violations.

The Higley monitor, chosen as the project's background monitor, did not record PM_{10} NAAQS exceedances on every exceedance day listed for Maricopa County between 2022 and 2024. However, given the regional nature of these atypical events, even on region wide exceedance days in which Higley did not exceed NAAQS, the PM_{10} concentrations at this site may not reflect its typical background concentrations. This is because elevated PM_{10} concentrations were recorded across the Phoenix Area during these atypical events, as documented by other monitors that did record exceedances on those dates. As such, to accurately demonstrate the regional nature and widespread impact of these atypical events, data from other regional monitors will be reviewed on days that Higley monitor did not exceed, to properly distinguish typical background levels from the atypical event-driven exceedance anomalies noted for these dates throughout Maricopa County. Wind and PM_{10} concentration data at Higley monitor and additional monitors is provided and discussed, to demonstrate the impact of the atypical weather conditions not only on the Phoenix Area, but on the background concentration at Higley monitor for each date being proposed as atypical. **Table 3** lists Higley monitor's PM_{10} concentrations for each of the days discussed in this report, and additional monitors that exceeded 24-hour average PM_{10} NAAQS on these dates in Maricopa County.

[2] U.S. EPA, Office of Air Quality Planning and Standards, Guideline on Data Handling Conventions for the PM NAAQS, April 1999, Table 8-1. Accessed September 17th, 2023. https://www3.epa.gov/ttn/naaqs/aqmguide/collection/cp2/19990401_oaqps_epa-454_r-99-009_guideline_data_handling_pm_naaqs.pdf

Table 3: Higley and Other Monitor Stations PM_{10} NAAQS Atypical Event Days Data					
Monitor	**Date**	**24-hour Average PM_{10} Concentration ($\mu g/m^3$)***	**PM_{10} NAAQS Exceedance**	**Identified as a potential Atypical Event**	**Other Monitors that Exceeded NAAQS on this date (PM_{10} values)**
Higley	9/2/2022	160.7	Yes	Yes**	Dysart (206.7)
					Zuni Hills (167)
	7/21/2023	125	No	Yes**	West 43rd Avenue (216.9)
	7/26/2023	165.3	Yes	Yes**	-
	7/14/2024	141	No	Yes	Durango Complex (152)
					Central Phoenix (228.7)
					South Scottsdale (161.1)
					West Chandler (191.7)

Source: U.S. EPA Outdoor Air Quality Data, Download Daily Air Quality Data, https://www.epa.gov/outdoor-air-quality-data/download-daily-data

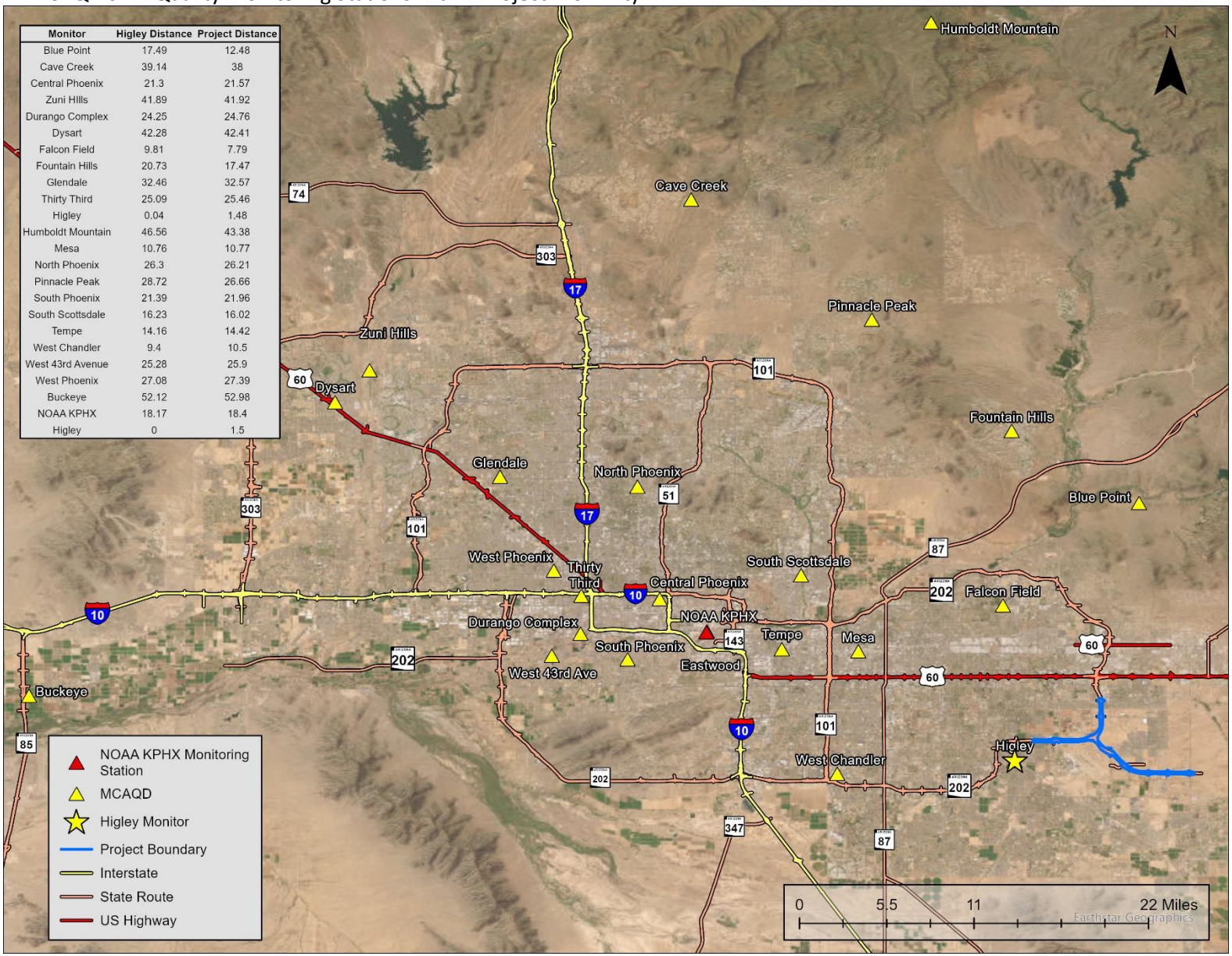
Notes:

*Highest 24-Hr average PM_{10} concentration reading identified during the 3-year period's potential atypical events days.

** Previously approved atypical event report dates for the SR 202 Loop - Val Vista Drive to SR 101L and SR 303Loop – Lake Pleasant Drive to I-17 project

The data from nearby monitors, with 1-hour and 5-minute PM_{10} concentrations provided in **Appendix A**, was flagged for high PM_{10} concentrations on the atypical events days, indicating that the atypical air quality events were widespread and regional in nature. **Figure 2** shows the MCAQD monitors proximity to the project site, and NOAA Phoenix Sky Harbor International Airport Weather Station (NOAA KPHX).

Figure 2. MCAQD's Air Quality Monitoring Stations within Project Proximity



Windspeed data from NOAA KPHX was used to show that atypical events occurred over the entire Phoenix Area, including the Higley Monitor, the project site, and other MCAQD monitors with recorded NAAQS exceedances. While some dates did not show PM_{10} levels or wind speeds over 25 mph at Higley monitor, data from NOAA KPHX confirmed sustained wind speeds and wind gusts over 25 mph, along with reduced visibility due to blowing dust and haze. This NOAA KPHX data and MCAQD monitoring site data supports the conclusion that atypical events influenced air quality across the Phoenix Area on these dates.

Appendix A includes maximum hourly sustained wind speed and wind gust data for the dates being proposed as atypical at each of MCAQD's monitors discussed in this report. To demonstrate which of the four dates meet the atypical event criteria of windspeeds exceeding 25 mph, **Table 4** presents the selected days maximum sustained windspeeds and gust speeds from the NOAA KPHX monitoring data. For more detailed NOAA KPHX data referenced in **Table 4**, please refer to **Appendix B**.

Table 4: NOAA Phoenix Sky Harbor Station (WBAN:23183) Windspeed for Atypical Events Days

Date	Max Wind Gust Speed (mph)	Time Recorded	Max Sustained Windspeed (mph)	Time Recorded	Maximum sustained wind or windspeed > 25 mph?
9/2/2022	30	6:51 P.M.	20	6:50 P.M.	No
7/21/2023	46	11:05 P.M.	35	10:55 P.M.	Yes
7/26/2023	43	9:51 P.M., 9:57 P.M., 10:20 P.M., 10:25 P.M.	29	10:19 P.M.	Yes
7/14/2024	41	8:50 P.M.	26	8:50 P.M.	Yes

Source: U.S. Department of Commerce National Centers for Environmental Information National Oceanic & Atmospheric Administration, *National Environmental Satellite, Data, and Information Service for Phoenix Airport Station, AZ US WBAN:23183 (ICAO:KPHX), Local Climatological Data - Hourly Observations for, 9/2/2022, 7/21/2023, 7/26/23, & 7/24/2024*. https://www.ncdc.noaa.gov/cdo-web/datasets/LCD/stations/WBAN:23183/detail

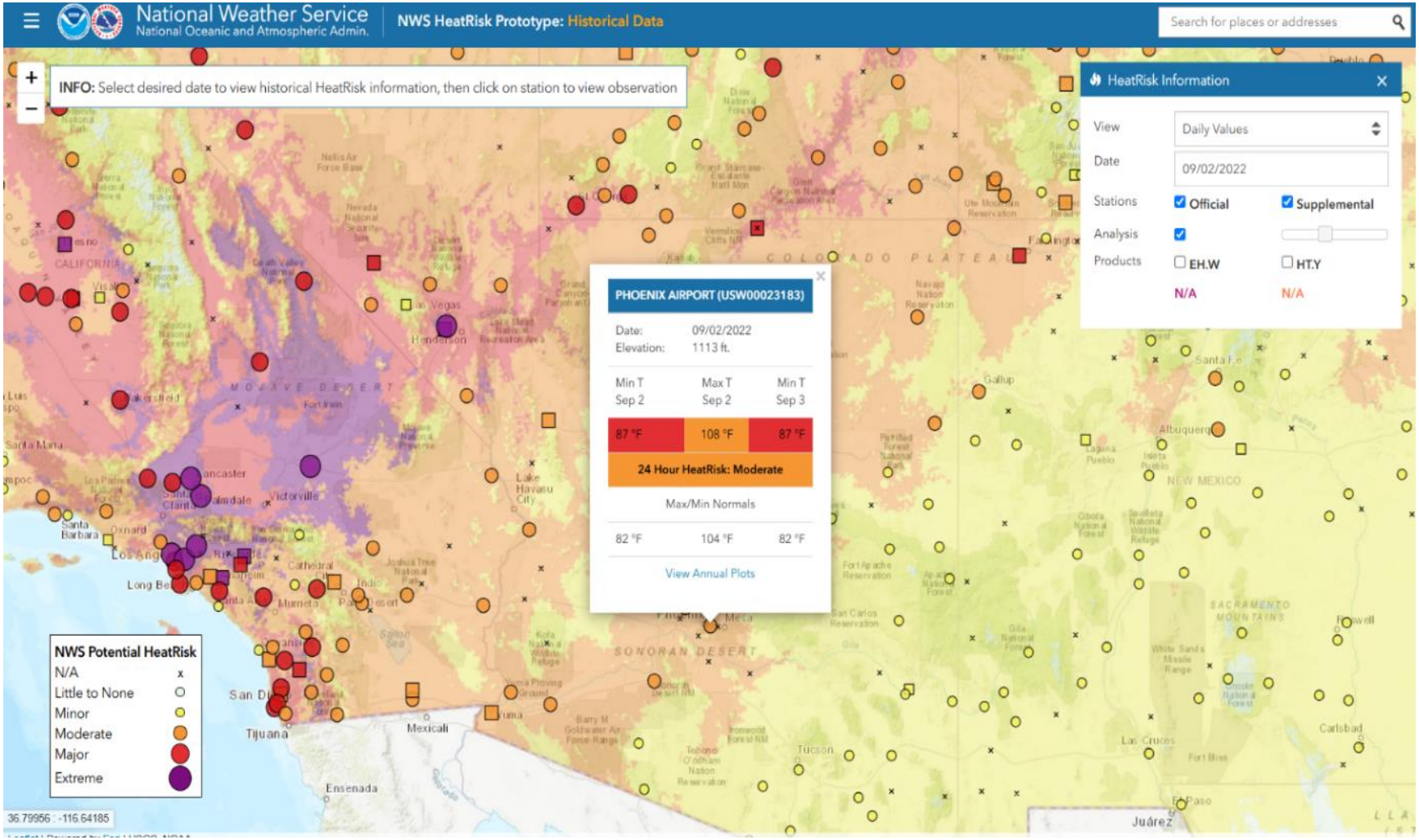
Meteorological conditions, beyond human control (nonanthropogenic sources) – such as high temperatures, low precipitation, atmospheric pressure changes, wildfires, and strong winds – can lead to PM_{10} emissions spikes. Consequently, the dates discussed in this summary report are characterized by a combination stormy weather, strong winds, dust storms, thunderstorms, drought, or heat wave conditions which led to naturally occurring, uncontrollably elevated regional and project PM_{10} background concentrations. As such, these dates are subject to atypical event review per 40 CFR Part 51, Appendix W, Section 8.3.2.c.ii..

September 2nd, 2022, Atypical Event

Extreme heat experienced in California, Nevada, Utah, and Arizona was caused by a long-lasting heat dome settling over the Western United States in early September 2022 and resulted in wildfires and poor air quality conditions across the Western United States[3]. **Figure 3** below shows the NWS Potential Heat Risk Map for the Phoenix Area and surrounding Western United States on September 2nd, 2022.

[3] *Intense Heat Wave Fuels West Coast Wildfires & Air Quality Alerts*, IQAir, September 1, 2022, https://www.iqair.com/us/newsroom/intense-heat-wave-fuels-west-coast-wildfires-air-quality-alerts?srsltid=AfmBOopf24koH2lB5I1ka62HKELBDTX0vLD0RjdeGFPG0_RWkn-ifLPS.

Figure 3. NWS Heatrisk Prototype: Historical Data for September 2nd, 2022, 24-hour heat risk recorded at NOAA KPHX[4]



[4] *NWS HeatRisk Prototype: Historical Data*, NOAA, https://www.wrh.noaa.gov/wrh/hil/historical/#

As shown in **Figure 3**, a moderate heat risk was issued specifically for September 2nd, 2022, following the development of a strong ridge of high pressure over the Western United States. Heat advisory warnings had already been issued by the NWS for the Phoenix area starting on August 29th, 2022, due to excessive heat conditions caused by this high-pressure system[5]. This high-pressure system created excessive heat and monsoon-like conditions for the week of September 1st, 2022, continuing through September 5th, 2022, in the Phoenix Area. According to the NOAA Storm Events Database report for Central Phoenix on September 5th, 2022, weather conditions were due to an "anomalously strong ridge of high pressure, with 500 mb heights around 594 dm, was parked over the western CONUS for the start of September. This resulted in well above normal temperatures as well as excessive heat conditions at times**."**

Given the high-pressure system, poor air quality due to wildfires, and extreme heat conditions, dust storms, poor visibility and bouts of precipitation were noted throughout the Phoenix Area between September 1st and 5th, 2022, per NOAA's Storm Events Database webpage. Around 10:30 P.M. on September 1st, 2022, dust storms were reported in Northwest Pinal County, developing over the White Tank Mountains eventually moving north into Maricopa County, moving towards the project area and Higley Monitor. Additionally, a storm developed over Queen Creek Valley and joined this storm cluster in the Phoenix Area. The NOAA Storm Event Report for Southeast Valley and Queen Creek Areas of Southern Arizona states:

> *"Under a classic setup for storm motion from the Mogollon Rim to the Valley (Rim-to-Valley), with the monsoon 500mb high positioned over Nevada, a multicell storm cluster descended out of the White Mountains, through Gila County, and into the lower deserts of Maricopa and Pinal Counties in the early overnight hours of the 1st. Moisture levels were near average for the time of year, but steep mid-level lapse rates over the high terrain (7-8 C/km) and modest shear (Sfc-6km around 20-25 kts) was sufficient to support the development of an organized multicell storm cluster. The environment was also supportive of strong downbursts, with DCAPE up around 1000-1500 J/kg. A single ordinary storm also developed in the Queen Creek/San Tan Valley area a couple hours before the multicell cluster moved into the lower deserts and produced a damaging downburst. Strong winds leading to a dust storm was eventually generated by the multicell cluster once it moved into Maricopa and Pinal Counties."*[6]

Again, on September 2nd, 2022, dust storm conditions continued due to the high-pressure system positioned over the Western United states. On the evening of September 2nd, 2022, around 6:00 P.M. a NOAA Storm Events Report Maricopa County's Queen Creek area was published describing the continuity of the monsoon/high pressure conditions which resulted in thunderstorms, high winds, dense blowing dust, low visibility, hail, and localized flash flooding[7].

With excessive heat and monsoon conditions occurring within the Phoenix Area on September 2nd, 2022, NAAQS PM_{10} exceedances were noted throughout the Phoenix Area at four MCAQD monitoring stations including the Higley, Zuni Hills, and Dysart monitors. The highest PM_{10} concentrations recorded at these monitors coincides with the times of dust storms reported by NOAA Storm Event Reports for Maricopa County and the Phoenix Area, and aligns with NOAA KPHX data for both September 1st, and 2nd, 2022. **Table 5** captures windspeed and PM_{10} data at Higley, Zuni Hills, and Dysart monitoring stations on September 2nd, 2022.

[5] NOAA, *Storm Events Database*, Event Details "1148966," https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1148966.
[6] NOAA, *Storm Events Database*, Event Details "1148966," https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1148966.
[7] NOAA, *Storm Events Database*, Event Details "1148966," https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1148966.

Table 5: Windspeed and PM_{10} Data for September 2nd, 2022						
Site	**Date**	**24-hour average PM_{10} ($\mu g/m^3$)**	**Max Hourly-Averaged Windspeed (MPH)**	**Time**	**Max Wind Gust (MPH)**	**Time**
Higley	9/2/2022	160*	5.5	6:00 P.M.	38.6	6:00 P.M.
Zuni Hills	9/2/2022	167.6*	12.2	7:35 P.M.	12.5	7:35 P.M
Dysart	9/2/2022	206.7*	17.2	7:30 P.M.	17.5	7:30 P.M.
Source: Maricopa County Air Quality Departments (MCAQD) Air Quality Planning & Analysis Division, Higley, Dysart and Zuni Hills Air Quality Monitoring Station Data for September 2nd, 2022. Notes: *Measurement exceeds PM_{10} NAAQS.						

As shown in **Table 5**, the highest wind gust speed recorded at the Higley monitor is 38.6 mph, and the max hourly average windspeed is 5.5 mph, occurring within the same hour at 6:00 P.M. Zuni Hills monitor is 12.2 mph, and the max wind gust is 12.5 mph, occurring at 7:35 P.M. The highest wind speed at the Dysart Monitor is 17.2 mph and the max wind gust is 17.5 mph, occurring at 7:30 P.M. **Figures 4 – 6** show the corresponding 5-minute windspeed and PM_{10} data recorded at Higley, Zuni Hills, and Dysart monitors on September 2nd, 2022.

PM_{10} NAAQS exceedances for Dysart and Zuni Hills monitors were recorded in the early morning of September 2nd, 2022, in the Phoenix Area following the storm conditions that began the prior evening. As the storm moved north and northwest from Pinal County to Maricopa County between the night of the 1st and the 2nd, and storm cells from multiple storm fronts combined over the Phoenix Area, and first hitting Zuni Hills and Dysart monitors in the early morning of the 2nd, and then Higley the evening of the 2nd, which resulted in recorded exceedances in the 24-hour average PM_{10} NAAQS.

Figure 4: 5-Minute PM_{10} concentrations (µg/m^3) and windspeed (mph) at Higley monitor on September 2nd, 2022.

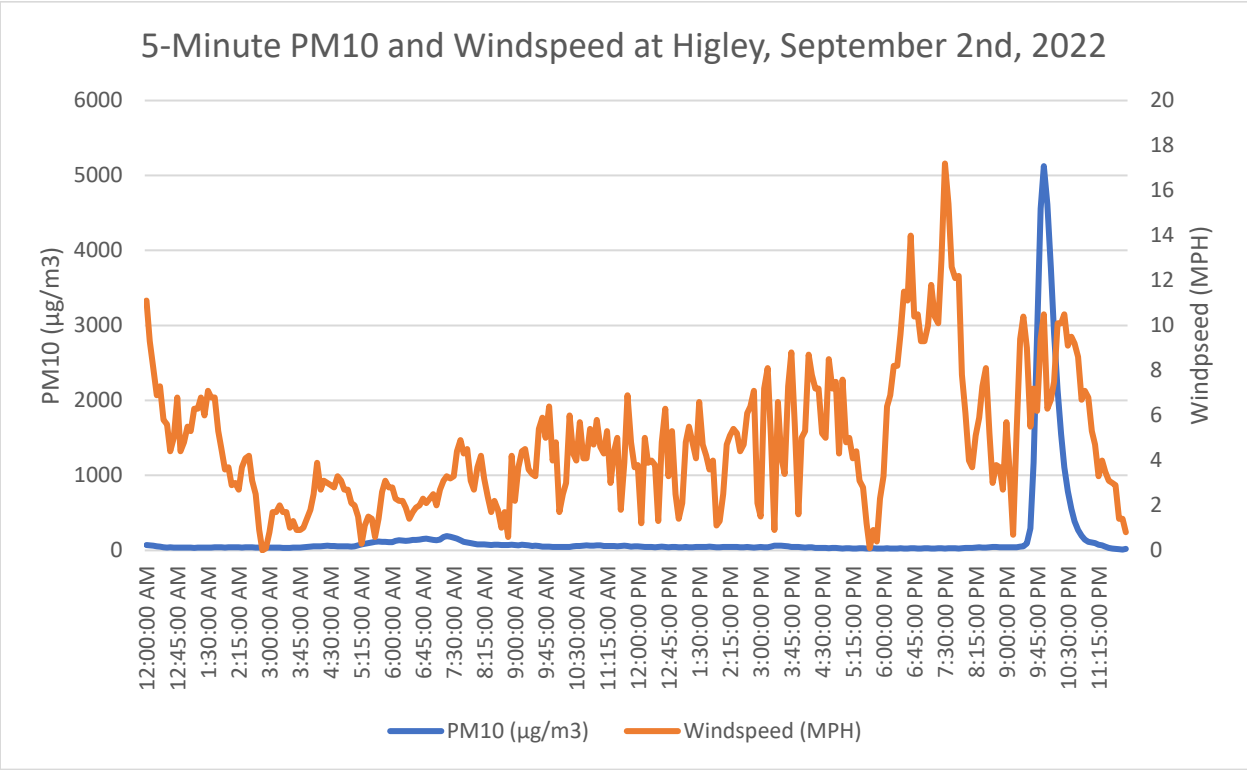


Figure 5: 5-Minute PM_{10} concentrations (µg/m^3) and windspeed (mph) at Dysart monitor on September 2nd, 2022.

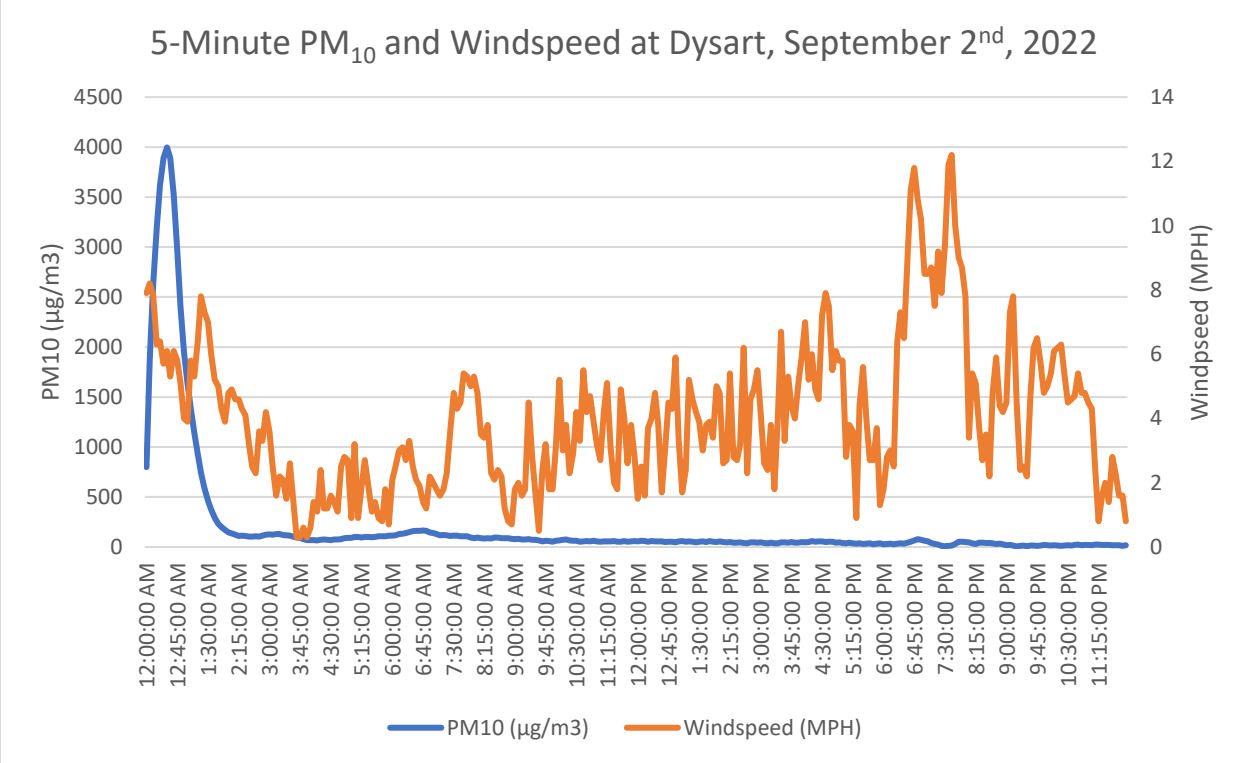
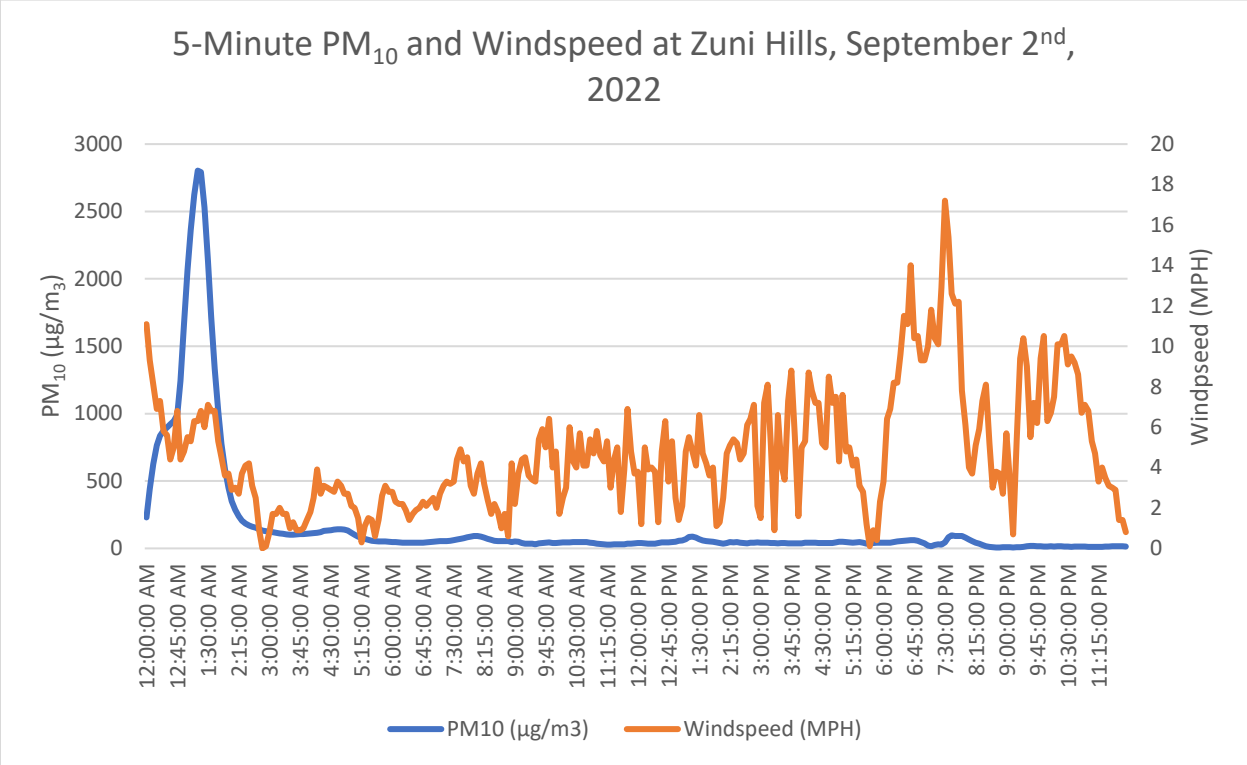


Figure 6: 5-Minute PM_{10} concentrations (µg/m³) and windspeed (mph) at Zuni Hills monitor on September 2nd, 2022.



Based on **Figures 4 – 6**, PM_{10} concentrations peaked in the early morning of September 2nd, 2022, at Higley, Zuni Hills, Dysart monitoring stations, followed by additional peaks in PM_{10} concentrations and maximum wind speeds recorded later that evening and an exceedance at Higley monitor. This pattern aligns with monsoon conditions affecting the area in early September, influenced by a low-pressure system over the Western United States. According to NOAA's Storm Events Report for September 1st, 2022, strong winds and dust storms developed around 10:00 P.M., extending into the early hours of September 2nd, 2022[8].

Storm conditions remained within the Phoenix Area for the day of September 2nd, and winds began to increase again in the evening of September 2nd, resulting in peak windspeeds being recorded in the evening and an exceedance of PM_{10} concentrations at Higley monitor the evening of the 2nd. The peak windspeeds recorded at all 3monitors align with Higley's exceedance of Per monitoring data, Dysart monitor recorded a PM_{10} peak of 3,996.9.9 µg/m³ at 1:10 A.M., Zuni Hills monitor registered 2,791.9 µg/m³ at 12:30 A.M. NOAA KPHX data confirmed haze, blowing dust, and high winds approximately 1 hour before the peak PM_{10} levels at Zuni Hills and Dysart monitors were recorded, on the evening of September 1st, 2022.

As storm conditions continued to impact the Phoenix Area on September 2nd, pushing dust east towards Higley monitor and southeastern Phoenix near the project area, high winds continued to be recorded and picked up into the evening of the 2nd, where Higley monitor recorded its peak PM_{10} concentrations coinciding with peak windspeeds of the day. Higley monitor recorded a PM_{10} peak of 5,125 µg/m³ at 9:55 P.M., following peak windspeeds reaching up to 17.2 mph at 7:30 P.M. All three monitors windspeeds and

[8] NOAA, *Storm Events Database*, Event Details "1052142," https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1052142.

PM_{10} data follow similar trends between the early morning of the 1st and evening of the 2nd, with peaks noted in the early morning, and a gradual increase in speed and concentration leading up to the peak windspeeds the evening of the 2nd.

Table 6 provides windspeed and weather conditions data recorded the evening of September 1st, 2022, at NOAA KPHX, that demonstrates dust storm conditions occurring in the Phoenix Area near the monitors. These conditions continued into the early morning of the 2nd, resulting in PM_{10} exceedances being recorded at the monitors shown between 12:00 and 1:00 A.M., as shown in **Figures 4 – 6**.

The highest wind gusts recorded at NOAA KPHX around 6:00 p.m. on September 2nd, coinciding with the time at which maximum wind speeds were recorded Higley, Dysart, and Zuni Hills monitors, and as the wind pushed east towards Higley monitor, Higley recorded peak PM_{10} concentrations and windspeeds between 7:00 and 10:00 P.M. the night of the 2nd. **Table 6** provides the highest wind speeds, gusts, and weather conditions at NOAA KPHX on September 1-2, as the storm initiated the night of September 1st, contributing to PM_{10} exceedances occurring early September 2nd, 2022, which continued into the evening of the 2nd.

Additional data from the Luke Airforce Base NOAA Station's (approximately 23 miles northwest of NOAA KPHX) is provided for the evening of September 1st, 2022, to demonstrate the regional wide impact of the multiple storm cells over the Phoenix Area, while focusing on the wind patterns and direction attributing to PM_{10} exceedances at the Zuni hills and Dysart monitors in the early morning of September 2nd, 2022, and the Higley monitors exceedance in the evening of the 2nd. Luke Airforce Base NOAA Station is approximately 40 miles northwest of Higley monitor, 8 miles southwest of Dysart monitor, 12 miles southwest of Zuni Hills monitor.

Table 6: NOAA Weather for September 1st and 2nd, 2022

Date	Time	Hourly-Averaged Windspeed (MPH)	Wind Gust Recorded (MPH)	Weather Conditions Noted	Visibility (miles)	Wind Direction
NOAA Luke Airforce Base Station Data						
9/1/2022	11:34 P.M.	28	33	-	9	SSE
9/1/2022	11:42 P.M.	24	33	Lt drizzle	3	SE
9/1/2022	11:52 P.M.	21	-	Lt drizzle	2.75	SE
9/1/2022	11:54 P.M.	17	-	Haze	3	SE
9/1/2022	11:56 P.M.	18	-	Haze	2.75	SE
9/2/2022	12:06 A.M.	16	-	Haze	3	ESE
9/2/2022	12:26 A.M.	10	-	-	7	SSE
NOAA KPHX Station Data						
9/1/2022	10:40 P.M.	23*	33*	-	10	SE
9/1/2022	10:45 P.M.	16	22	-	4	SE
9/1/2022	10:51 P.M.	13	23	Haze, Blowing dust	3	SSE
9/1/2022	11:05 P.M.	16	-	Haze, Blowing dust	2	SE
9/1/2022	11:15 P.M.	18	24	Haze, Blowing dust	4	SE
9/1/2022	11:22 P.M.	13	24	Haze, Blowing dust	5	SSE

9/1/2022	11:25 P.M.	14	20	Haze, Blowing dust	6	SSE
9/1/2022	11:51 P.M.	13	25	-	10	SE
9/2/2022	12:00 A.M.	15	-	-	10	SE
9/2/2022	12:15 A.M.	13	-	-	10	E
9/2/2022	12:25 A.M.	16	-	-	10	E
9/2/2022	12:45 A.M.	14	-	-	10	E
9/2/2022	12:55 A.M.	13	-	-	10	E
9/2/2022	1:00 A.M.	14	20	-	10	ESE
9/2/2022	1:05 A.M.	12	17	-	10	ESE
9/2/2022	1:10 A.M.	14	-	-	10	ESE
9/2/2022	1:15 A.M.	13	18	-	10	ESE
9/2/2022	6:45 P.M.	10	-	-	10	ENE
9/2/2022	6:50 P.M.	20*	-	-	10	ENE
9/2/2022	6:51 P.M.	17	30*	-	10	ENE
9/2/2022	6:55 P.M.	18	-	-	10	NE
9/2/2022	6:58 P.M.	15	-	Thunder	10	ENE
9/2/2022	7:00 P.M.	16	-	-	10	E

Source: NOAA Weather for Phoenix, Phoenix Sky Harbor International Airport, AZ on 09/01/2022 - 09/03/2022, Link: https://www.weather.gov/wrh/timeseries?site=KPHX&hours=72&units=english&chart=on&headers=on&obs=tabular&hourly=false&pview=standard&font=12&history=yes&start=20220901&end=20220903,
NOAA Weather for Phoenix, Luke Airforce Base, AZ on 09/01/2022, Link:
https://www.weather.gov/wrh/timeseries?site=KLUF&hours=72&units=english&chart=on&headers=on&obs=tabular&hourly=false&pview=standard&font=12&history=yes&start=20220901&end=20220903
Notes:
* Highest windspeed or wind gust recorded for the day
- no observation recorded

As shown in **Table 6**, high windspeeds recorded at NOAA KPHX coincide with the high windspeeds and peak PM_{10} levels recorded at Zuni Hills, and Dysart monitors for the early morning of September 2nd, 2022, and high windspeeds and the thunderstorm conditions resulting in exceedance at Higley on the evening of September 2nd, 2022. Haze and blowing dust were noted from 10:50 P.M. to 11:30 P.M. on September 1st, 2022, which aligns with NOAA Storm Events Report's description of dust storms occurring around this time throughout the Phoenix Area. On the evening of September 1st, 2022, haze and blowing dust was noted at NOAA KPHX with primarily southeasterly winds of speeds greater than 25 mph, from the Casa Grande Area to NOAA KPHX, the Zuni Hills, Dysart, and Higley monitors. Wind speeds greater than 25 mph were also recorded at Luke Air Force Base NOAA Station around a similar time, primarily in the southeast direction, demonstrating that areas within closer proximity to the monitors experienced a similar wind pattern to that of NOAA KPHX's wind blowing pattern at this time. An increase in windspeeds in the evening of the 2nd is also demonstrated in the NOAA KPHX data, aligning with the peak windspeeds recorded at Higley at 6:45 P.M and later peak in PM_{10} concentrations to their maximum at Higley monitor.

ADEQ Visibility Camera Historical Archive photos at the South Mountain Camera show a decrease in visibility and dust clouds moving north and northwest towards the Central Phoenix Area around 11:00 P.M., the night of September 1st, 2022, which aligns with the NOAA KPHX and Luke Airforce Base NOAA Station weather conditions of blowing dust and haze that were recorded during this time.

From 10:45 P.M. to 11:30 P.M., visibility decreased drastically at NOAA KPHX, coinciding with haze and visible dust being noted in the forecast. Additionally, this blowing dust and peak windspeeds continued

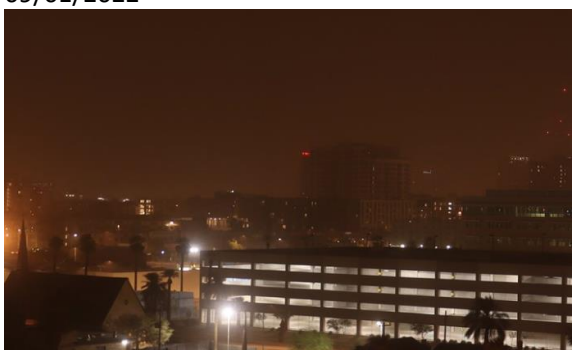
into the morning of the 2nd and could explain the highest PM_{10} levels being recorded at the Zuni Hills and Dysart monitors just after 12:00 A.M. on September 2nd, 2022. The highest wind gust speed recorded at NOAA KPHX for September 2nd, 2022, was 30 mph at 6:51 P.M. from the east-northeast direction, moving towards Zuni, Dysart, and Higley monitors. This was followed by reports of thunder and monsoon conditions that were noted in the NOAA Storm Events Reports throughout the Phoenix Area. This peak wind gusts on the evening of September 2nd, 2022, aligns with the highest windspeeds recorded at Higley, Zuni Hills, and Dysart monitors of 12.2 mph at 7:35 P.M., 17.2 mph at 7:30 P.M. and 17.2 mph at 7:40 P.M., respectively.

It is important to note that windspeeds did not reach levels greater than 25 mph at the Higley, Zuni Hills and Dysart monitors, but a series of high wind speed and monsoon conditions resulting in dust storm events were noted for this period during September of 2022. As such the Zuni Hills, and Dysart monitors PM_{10} concentrations increased on the night of September 1st, 2022, and exceeded in the morning of September 2nd, 2022, and why Higley exceeded in the evening of the 2nd, as storm conditions moved throughout the Phoenix Area.

Based on NOAA Storm Event Reports for both Maricopa County and the Central Phoenix Area, it was demonstrated that the high-pressure excessive heat wave resulted in monsoon-like conditions including high wind, thunder, flashflood, hail, and dust storms. The photographs below show ADEQ's Visibility Camera Historical Archive photos of the Phoenix Area at the time prior to and during the thunderstorm and monsoon conditions in between the evenings of September 1st and September 2nd, 2022. Note the first wave of the storm hit the Phoenix Area around 10:00 P.M., September 1st, 2022, and moved north and northwest, followed by thunderstorms and high winds the next evening on September 2nd, 2022, moving west and southwest.

Camelback Mountain Camera, 10:30 P.M., 09/01/2022

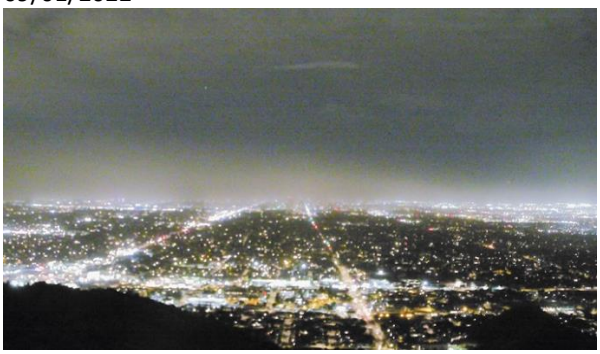
Camelback Mountain Camera, 11:15 P.M., 09/01/2022



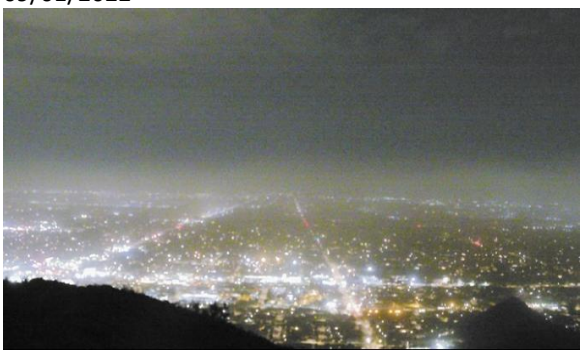
White Tank Mountains Camera, 9:00 P.M., 09/01/2022

White Tank Mountains Camera, 11:45 P.M., 09/01/2022

South Mountain Camera, 11:00 P.M., 09/01/2022



South Mountain Camera, 11:45 P.M., 09/01/2022



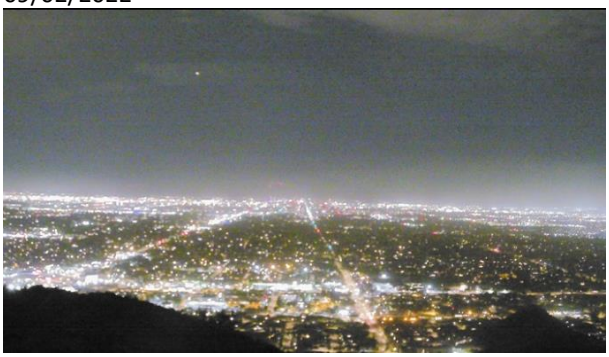
Estrella Mountains Camera, 10:00 P.M., 09/01/2022

Estrella Mountains Camera, 11:30 P.M., 09/01/2022

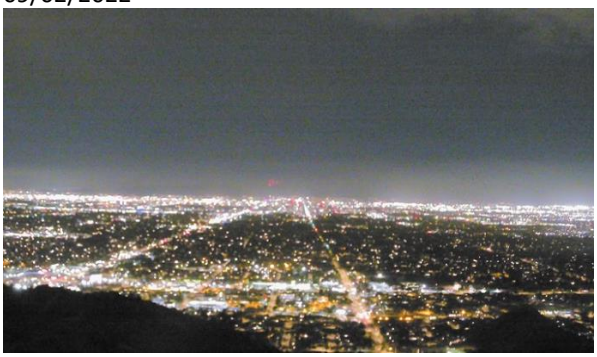
White Tank Mountains Camera, 12:00 A.M., 09/02/2022

White Tank Mountains Camera, 5:30 A.M., 09/02/2022

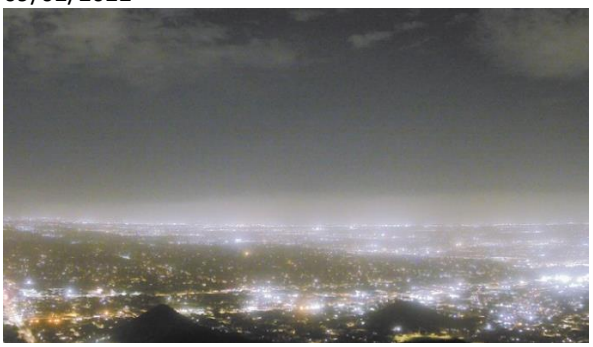
South Mountain Camera, 12:15 A.M., 09/02/2022



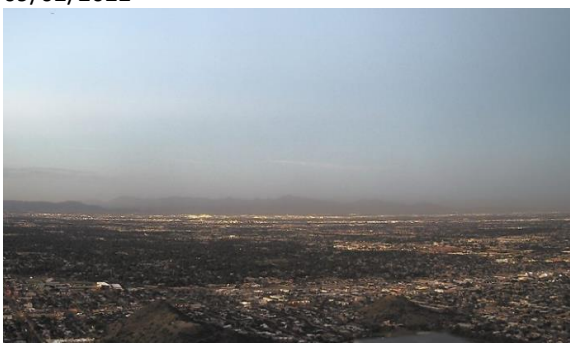
South Mountain Camera, 12:30 A.M., 09/02/2022



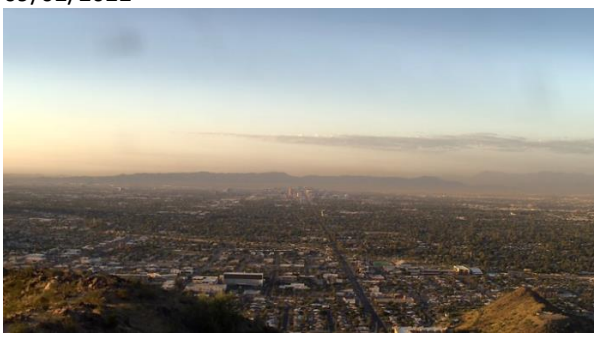
Estrella Mountains Camera, 12:15 A.M., 09/02/2022



Estrella Mountains Camera, 5:45 A.M., 09/02/2022



South Mountain Camera, 6:15 A.M., 09/02/2022

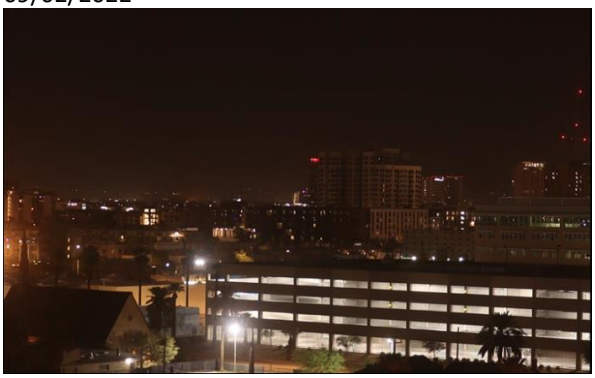


South Mountain Camera, 5:15 P.M., 09/02/2022

Superstition Mountains Camera, 10:30 A.M., 09/02/2022

Superstition Mountains Camera, 5:45 P.M., 09/02/2022

Camelback Mountain Camera, 12:00 A.M., 09/02/2022



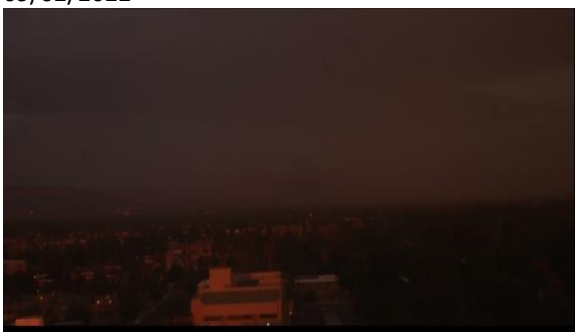
Camelback Mountain Camera, 2:00 P.M., 09/02/2022

Estrella Mountains Camera, 1:45 P.M., 09/02/2022

Estrella Mountains Camera, 5:30 P.M., 9/02/2022

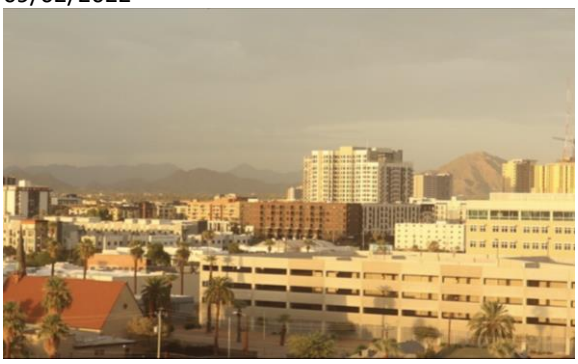
Superstition Mountains Camera, 6:30 P.M., 09/02/2022

Superstition Mountains Camera, 6:45 P.M., 09/02/2022



Camelback Mountain Camera, 6:00 P.M., 09/02/2022

Camelback Mountain Camera, 6:30 P.M., 09/02/2022



White Tank Mountains Camera, 6:00 P.M, 09/02/2022

White Tank Mountains Camera, 7:15 P.M., 09/02/2022

July 21st, 2023, Atypical Event

Per NOAA Storm Event Reports, thunderstorm activities and severe winds were noted Southeastern Arizona on this day as a result of monsoon like conditions moving west across Southern Arizona during the afternoon of July 21st, 2023[9]. As the monsoon conditions winds moved further west and northwest towards the Phoenix area, thunderstorms hit the Phoenix area on the evening of July 21st, 2023, resulting in high winds and blowing dust throughout the region. In addition, the Chimney Fire began on July 19th, 2023, burning over 1,600 acres on the far east side of the Santa Catalina Mountains in Northeast Pima County (approximately 110 miles southeast of Phoenix), resulting in smoke and hazy conditions in southeastern Arizona[10].

Winds carried smoke and particulate matter from the Chimney Fire westward toward the Phoenix area from July 19–23, 2023, driven by the summer monsoon conditions that brought strong winds to southern Phoenix. According to discussions with Rone Pope, an Atmospheric Scientist with ADEQ's Air Quality Department on February 13th, 2025, ADEQ monitoring data from July 20th, 2023, indicates haboob conditions across Phoenix, with periodic spikes in wind gusts coinciding with increased PM_{10} concentrations at on this date. For more details on this data, please refer to **Appendix A**.

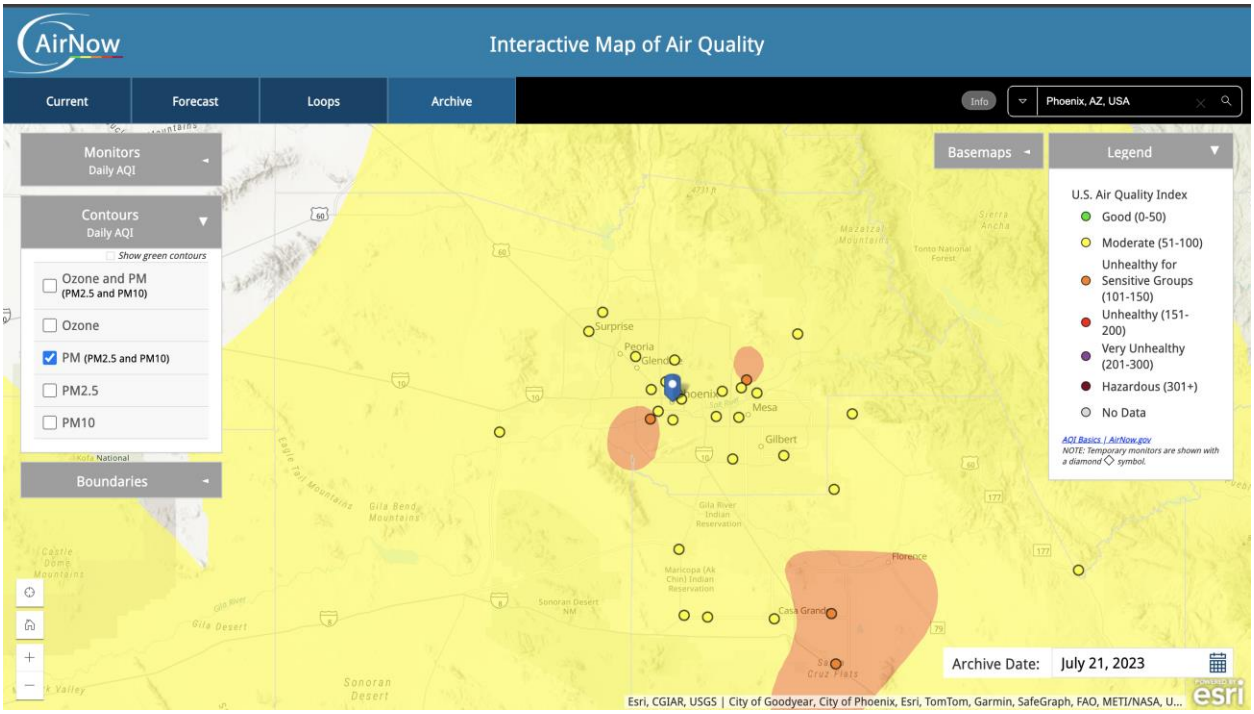
Nearly all Maricopa County monitors recorded elevated wind gusts and speeds between 5:00 PM and 10:00 PM on July 20th. Higley experienced gusts up to 18.2 mph wind gusts, Zuni Hills experienced gusts up to 22 mph, while Central Phoenix (near NOAA KPHX) recorded gusts up to 24 mph, consistent with other countywide readings (**Appendix A**). These winds, driven by monsoon thunderstorms, lifted dust and particulate matter, dispersing them throughout the Phoenix area. Combined with smoke from the Chimney Fire, this resulted in decreased visibility and haze, which settled over the Phoenix Area by the early morning of July 21st. NOAA KPHX station data confirmed reduced visibility that morning, along with increases in PM_{10} concentrations at Higley, Zuni Hills, and West 43rd Avenue monitors. Please refer to **Table 7** and the figures at the end of this section for more details.

Additional high winds from summer monsoon-related thunderstorms, exceeding 25 mph, moved northeast from southern Arizona on the late evening of the 20th into the early morning of the 21st. According to MesoWest Surface Weather Maps, data from OTMA3—a Remote Automatic Weather Service station operated by the National Interagency Fire Center, located about 65 miles southwest of the Zuni Hills monitor—recorded wind speeds above 25 mph between 3:00 A.M. and 4:00 A.M.[11], blowing northeast toward the Phoenix area. These winds align with elevated wind speeds in combination with visible haze from Chimney Fire smoke, and blowing dust from thunderstorm activity affecting the area, as observed in weather data around Phoenix between 5:00 A.M. and 6:00 A.M. on the 21st.

According to NOAA KPHX data and ADEQ's Visibility Camera Historical Archive photos, beginning in the early morning of July 21st, there was decreased visibility and haze observed throughout the Phoenix Area. Visible haze in the atmosphere can be seen in photos from the South Mountain and Estrella Mountains Cameras, looking southwest from North Mountain towards Central Phoenix and NOAA KPHX at 6:45 AM. As a result, the Phoenix area's Air Quality Index (AQI) values were listed as moderate to unhealthy for sensitive groups on July 21st, 2023.

[9]NOAA, *Storm Events Database*, Event Details "1121576," https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1121576.
[10] NOAA, *Storm Events Database*, Event Details "1125390", https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1125390
[11] MesoWest, *Surface Weather Maps, Arizona Region - OATMAN3 Station*, "7/21/23 Windspeed Station Observations", https://mesowest.utah.edu/cgi-bin/droman/mesomap.cgi?state=AZ&rawsflag=3

Per U.S. EPA's AirNow interactive Map of Air Quality dashboard[12], the Zuni Hills AQI for ozone and particulate matter was 86, the West 43rd Avenue monitor's AQI for ozone and particulate matter was 132, and Higley monitors was ozone and particulate matter 81 on July 21st, 2023. The photo below shows the Phoenix area's particulate matter and AQI values for July 21st, 2023. Areas shown in yellow are listed with moderate AQI values, and areas shown in orange are listed with unhealthy for sensitive groups AQI values. West 43rd Avenue monitor was within a portion of the Phoenix Area that was considered unhealthy for sensitive groups for July 21st, 2023.



Windspeeds periodically increased throughout the day, as the thunderstorms moved into the Phoenix Area. Wind gusts up to 28 mph were recorded at NOAA KPHX station at 6:50 A.M., up to 24 mph at 4:00 P.M., and up to 26 mph at 7:30 P.M. resulting in decreased visibility from blowing dust in the Phoenix Area. This blowing dust may be residual from the haze that settled over the Phoenix area in the morning, which saw a spike in PM_{10} concentrations at both Zuni Hills and West 43rd Avenue, as a result from smoke and particulate matter transported from the Chimney Fire in Northeast Pima County. Additionally, the previous day's monsoon conditions, which brought high winds and increase in blown dust, likely contributed to the dispersion of these particulates across the region on July 20th, 2023, and the early morning of July 21st, 2023. As the day progressed into the evening, these thunderstorm conditions focused on the Phoenix Area and multiple peaks in PM_{10} concentrations were recorded at Zuni Hills, West 43rd Avenue monitors, and Higley monitor exceeded NAAQS 24-hour average PM_{10} concentrations.

Due to the thunderstorm conditions moving north into the Phoenix Area, windspeeds over 25 mph were recorded at NOAA KPHX, 24-hour average PM_{10} NAAQS exceedances were recorded at West 43rd Avenue monitor, and elevated concentrations of PM_{10} were recorded at Higley and Zuni Hills monitor on the evening of the 21st. Although Zuni Hills monitors did not exceed 24-hour average PM_{10} NAAQS on July 21st, 2023, elevated concentrations of PM_{10} were identified at on this date, which occurred prior to the NAAQS

[12]U.S. EPA, *Air Now, Air Quality Archive Data*, accessed December 18, 2024, https://gispub.epa.gov/airnow/?archivedates=07%2F21%2F2023&monitors=pm10&boundaries=county&contours=pm&showlegend=no&tab=archive&xmin=-13334403.77352085&xmax=-11573294.641830858&ymin=3530985.6275526467&ymax=4360174.510390018.

PM_{10} exceedances at West 43rd Avenue and align with blowing dust conditions and high windspeeds noted at NOAA KPHX and West 43rd Avenue monitor. Higley did not exceed 24-hour average PM_{10} NAAQS, but the elevated concentration of PM_{10} occurring later in the evening of the 21st after Higley and West 43rd Avenue's peak concentrations, aligns with the storm movement and NOAA KPHX data.

Table 7 shows the windspeed levels and highest PM_{10} concentrations recorded for July 21st, 2023, at Higley, West 43rd Avenue, and Zuni Hills monitor.

Table 7: Windspeed and PM_{10} Data for July 21st, 2023

Site	Date	24-hour average PM_{10} ($\mu g/m^3$)	Max Hourly-Averaged Windspeed (MPH)	Time	Max Wind Gust (MPH)	Time
Higley	7/21/2023	114	10.5	11:00 P.M.	33.9	10:00 P.M.
West 43rd Avenue	7/21/2023	216.9*	21.8	11:05 P.M.	22.3	11:05 P.M.
Zuni Hills	7/21/2023	125	19.9	6:30 P.M.	20.2	6:30 P.M.

Source: Maricopa County Air Quality Departments (MCAQD) Air Quality Planning & Analysis Division, West 43rd Avenue and Zuni Hills Air Quality Monitoring Station Data for July 21st, 2023.

Notes: *Measurement exceeds PM_{10} NAAQS.

As shown in **Table 7**, on July 21st, 2023, 24-hour average PM_{10} NAAQS were exceeded in the late evening and windspeeds were recorded of over 20 mph at West 43rd Avenue monitor. As windspeeds increased the night of the 21st, PM_{10} concentrations rose as well, resulting in the highest level of PM_{10} recorded at 11:20 P.M. of 2,825.8 $\mu g/m^3$. Earlier in the evening, Zuni Hills monitor recorded a max windspeed of 19.9 mph and wind gust of 20.2 mph at 6:30 P.M. This max wind speed and wind gust speed coincide with the highest PM_{10} concentration recorded of 872.8 $\mu g/m^3$ **Figures 7 - 9** below shows the corresponding increase in 5-minute PM_{10} concentrations and in windspeeds recorded on July 21st, 2023, at West 43rd Avenue and Zuni Hills monitor.

Figure 7: 5-Minute PM_{10} concentrations ($\mu g/m^3$) and windspeed (mph) at Higley monitor on July 21st, 2023.

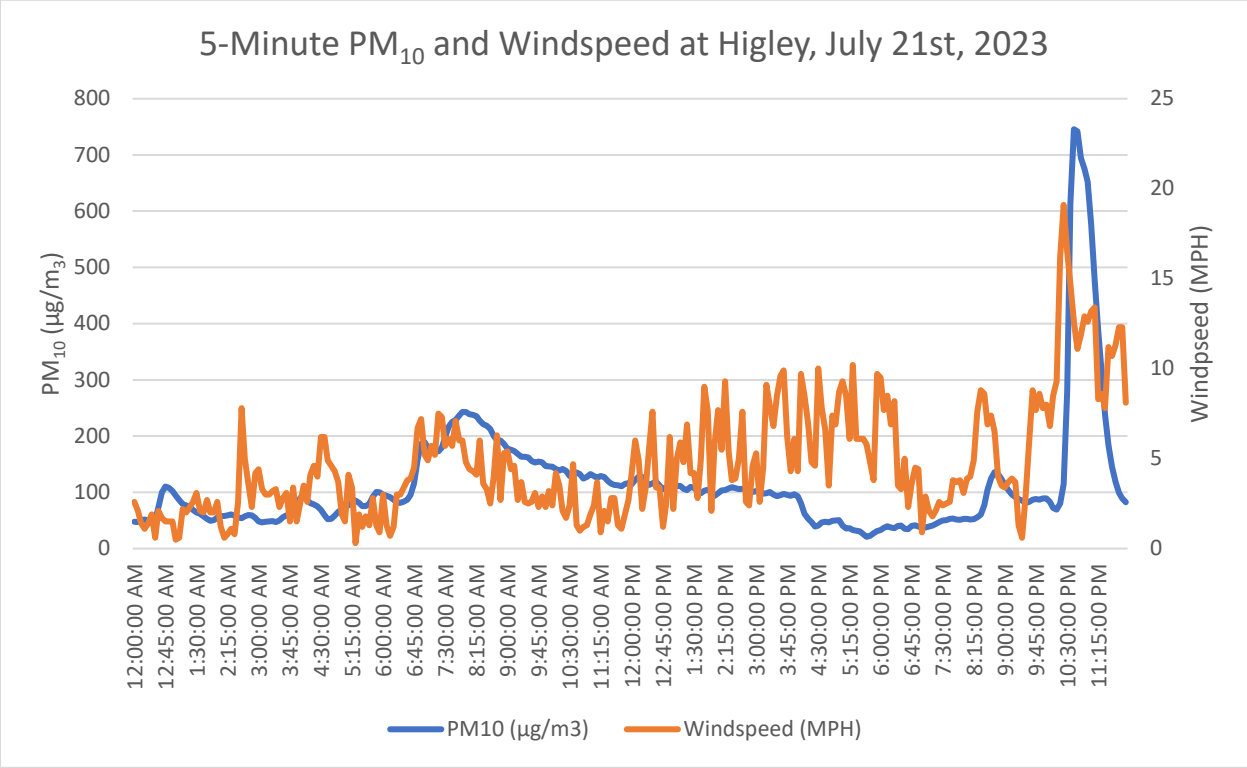


Figure 8: 5-Minute PM_{10} concentrations ($\mu g/m^3$) and windspeed (mph) at West 43rd Avenue monitor on July 21st, 2023.

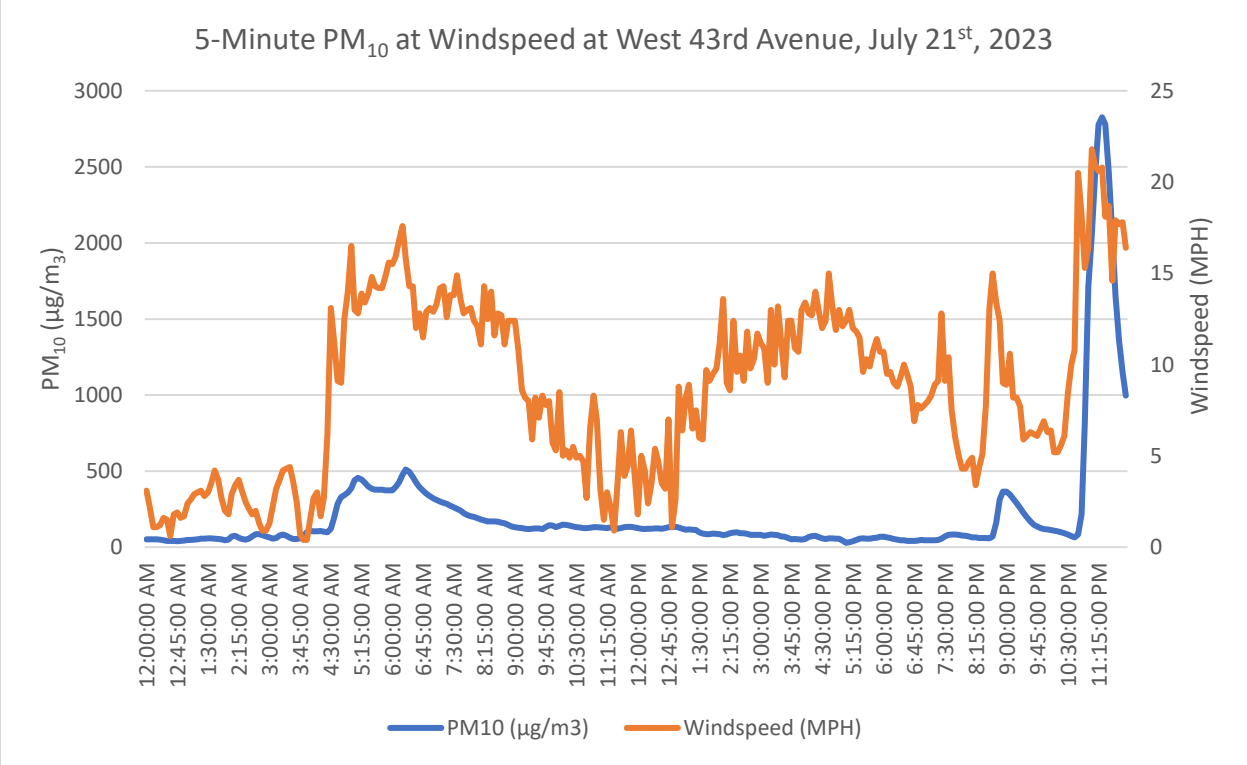
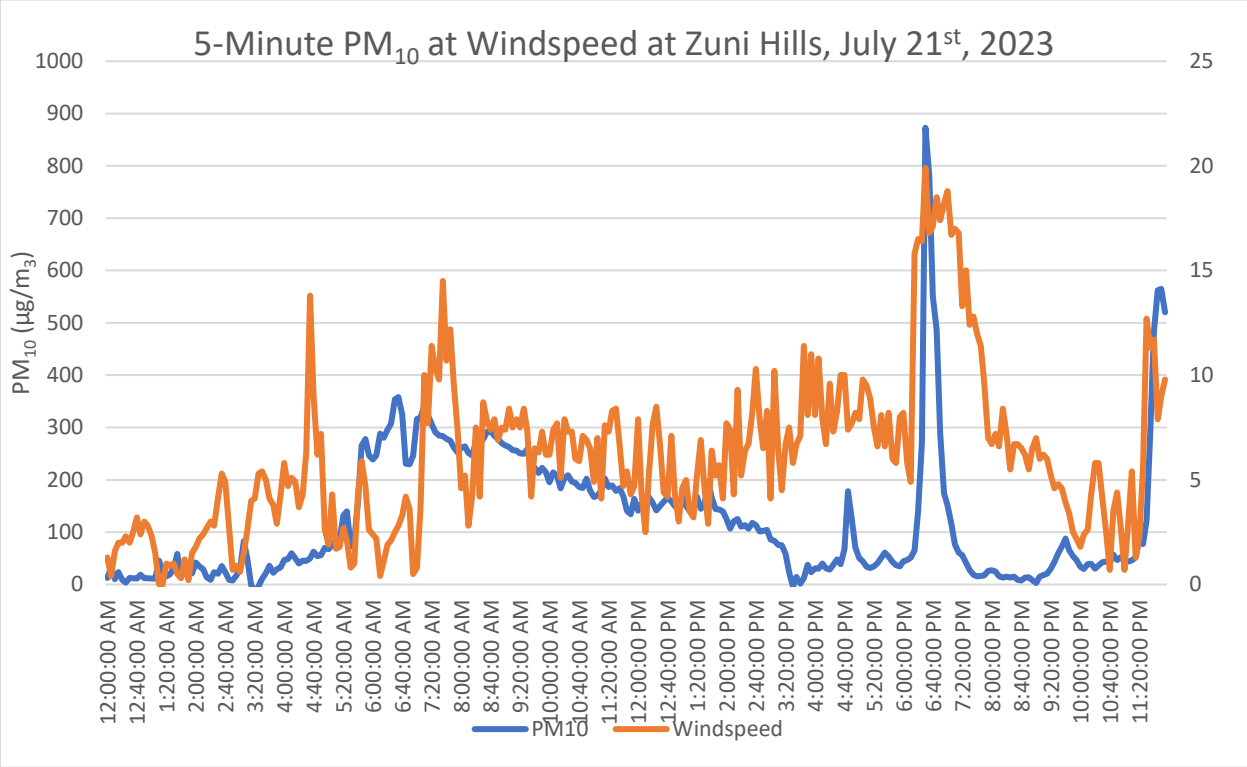


Figure 9: 5-Minute PM_{10} concentrations (µg/m^3) and windspeed (mph) at Zuni Hills monitor on July 21st, 2023.

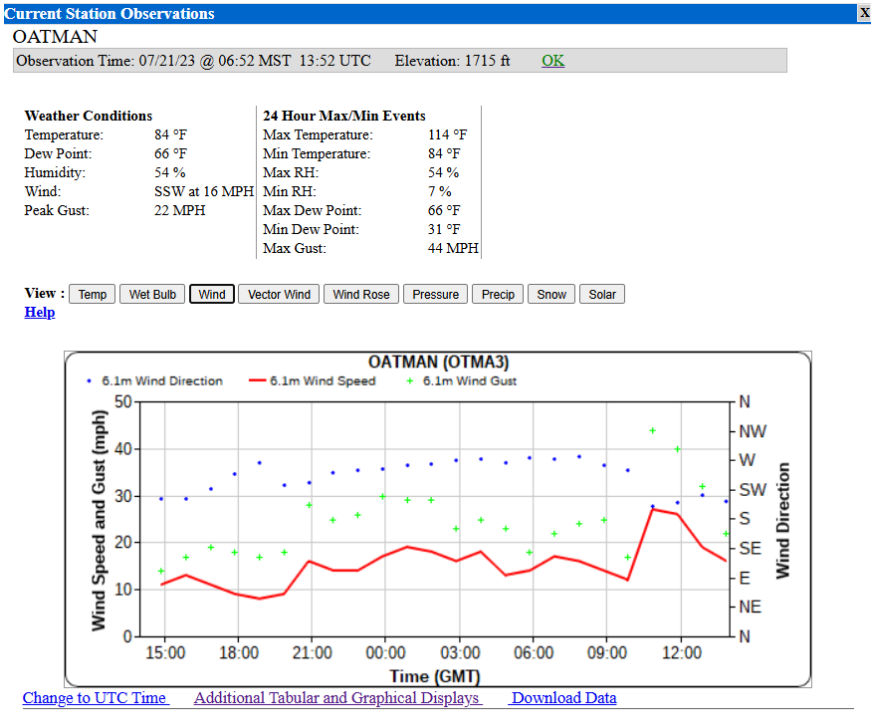


As shown in **Figure 7 – 9**, as windspeeds peaked at their highest level at Higley., on the night of July 21st, 2023, at the West 43rd Avenue monitor, PM_{10} levels also increased to their maximum values, well over NAAQS thresholds. As such, the 24-hour average PM_{10} level at the West 43rd Avenue monitor exceeded NAAQS standards on July 21st, 2023. The peaks in windspeed throughout the day noted at Zuni Hills monitor follow the increases and peaks noted in PM_{10} concentration, as shown in **Figure 9**.

Although windspeeds did not exceed 25 mph at the monitors, windspeed levels over 25 mph were recorded at NOAA KPHX at similar times coinciding with the thunderstorm conditions noted in weather reports throughout the Phoenix Area. Additionally, the smaller peaks in windspeed and PM_{10} concentrations recorded at the Zuni Hills, Higley, and West 43rd Avenue monitors between 6:00 and 7:30 A.M. and 3:30 and 9:00 P.M. coincide with noted increases in windspeeds at NOAA KPHX. [13]as shown in **Figures 7 – 9** . The early morning spikes in PM_{10} identified at Zuni Hills, West 43rd and Higley were attributed to these northeasterly blowing winds due to the monsoon thunderstorm conditions impacting southern Arizona on July 20th and July 21st, 2023. As noted at the OATMA3 weather station, northeasterly winds coming from the Gila Bend area, approximately 65 miles northwest of Zuni Hills monitor, tracked winds of up to 25 miles an hour around 3:00 to 4:00 A.M., the morning of the 21st, and pushed towards the Phoenix Area between 5:00 A.M. and 6:00 A.M., as noted in NOAA KPHX data and monitoring data. **Figure 10** below shows the windspeed trends and direction recorded at OATMA3 weather station between July 20th and 21st, 2023.

[13] MesoWest, *Surface Weather Maps, Arizona Region - OATMAN3 Station*, "7/21/23 Windspeed Station Observations", https://mesowest.utah.edu/cgi-bin/droman/mesomap.cgi?state=AZ&rawsflag=3

Figure 10: Weather Observations at OATMA3 weather station on July 20th – 21st, 2023.



These northeasterly winds in the early morning of July 21st moved dust into the Phoenix area resulting in early morning haze and decreased visibility noted in combination with the smoke from the Chimney Fire, resulting in peaks of PM_{10} concentrations noted beginning around 4:30 A.M., and noted later around 6:00 A.M. in the NOAA KPHX data. **Table 8** shows the time where the highest wind speeds, wind gusts, and their corresponding weather conditions were recorded at NOAA KPHX on July 21st, 2023.

Table 8: NOAA KPHX Weather for July 21st, 2023

Date	Time	Hourly-Averaged Windspeed (MPH)	Wind Gust Recorded (MPH)	Weather Conditions Noted	Visibility (miles)	Wind Direction
7/21/2023	6:51 A.M.	17	28	-	10	NW
7/21/2023	6:55 A.M.	18	25	Haze	6	NW
7/21/2023	7:00 A.M.	20	20	Haze	6	WNW
7/21/2023	7:20 A.M.	18	28	-	10	NW
7/21/2023	3:51 P.M.	16	21	-	10	WNW
7/21/2023	4:30 P.M.	18	24	-	10	WNW
7/21/2023	5:35 P.M.	14	20	-	10	W
7/21/2023	7:25 P.M.	15	25	-	10	NNW
7/21/2023	7:25 P.M.	13	26	-	10	NNW
7/21/2023	8:25 P.M.	25	-	-	9	NNE
7/21/2023	8:35 P.M.	21	-	-	7	ENE
7/21/2023	10:45 P.M.	25	36	Haze	5	SSE
7/21/2023	10:50 P.M.	23	33	Blowing dust	3	SSE

7/21/2023	10:51 P.M.	26	45	Blowing dust	3	SSE
7/21/2023	10:55 P.M.	35*	44	Blowing dust	3	S
7/21/2023	11:00 P.M.	32	43	Blowing dust	4	S
7/21/2023	11:05 P.M.	32	46*	Haze	4	S
7/21/2023	11:10 P.M.	24	32	Haze	4	S
7/21/2023	11:15 P.M.	28	38	Haze	5	S
7/21/2023	11:20 P.M.	18	24	Haze	6	S
7/21/2023	11:25 P.M.	26	33	-	7	S
7/21/2023	11:30 P.M.	30	-	-	7	S
7/21/2023	11:35 P.M.	23	31	-	7	S
7/21/2023	11:40 P.M.	24	32	-	7	SSW
7/21/2023	11:45 P.M.	18	25	-	8	S
7/21/2023	11:50 P.M.	21	-	-	10	S
7/21/2023	11:51 P.M.	20	30		10	SSW

Source: NOAA Weather for Phoenix, Phoenix Sky Harbor International Airport, AZ on 07/21/2023 Link: https://www.weather.gov/wrh/timeseries?site=KPHX&hours=72&units=english&chart=on&headers=on&obs=tabular&hourly=false&pview=standard&font=12&history=yes&start=20230720&end=20230722

Notes: * Highest windspeed or wind gust recorded for the day

- no observation recorded

As shown in **Table 8**, NOAA KPHX noted haze, blowing dust, and high windspeeds with wind gusts over 25 mph throughout the day on July 21st, 2023. The peaks in PM_{10} concentration at 6:35 A.M. of 358.1 µg/m^3 at Zuni Hills monitor, 495.2 µg/m^3 at 6:25 A.M. at West 43rd Avenue monitor, and 242.9 µg/m^3 at 8:00 A.M. at Higley monitor, follow recorded peaks in 5-minute windspeed at these locations and coincide with the wind gust speeds over 24 mph and lowered visibility recorded at NOAA KPHX during this time.

Based on the wind recorded during this time, winds were moving from the southeast and east to Central Phoenix and the NOAA KPHX station, towards Higley, Zuni Hills, and West 43rd Avenue. Given the storm conditions developing over southeastern Arizona and moving west and northwest towards the Phoenix area, wind gusts and elevated wind speeds could have pushed concentrations of PM_{10} in the direction of the monitors and NOAA KPHX, creating concentrated pockets of haze and particulate matter that moved from the southeast into the Phoenix area as the storm advanced. This is evident in the slight peaks in PM_{10} observed at monitors around 6:45 A.M., as well as in the EPA AQI air data, which shows an AQI greater than 100 southwest of the Phoenix area in Casa Grande for July 21st, 2023.

Similarly, the afternoon PM_{10} concentration peaks of 178.1 µg/m3 at 4:45 P.M. at Zuni Hills monitor that followed a gradual increase in 5-minute windspeeds directed east towards NOAA KPHX, align with NOAA KPHX's gradual increase in windspeeds of up to 24 mph at 4:51 P.M. By midafternoon, wind continued to flow east and southeast over Zuni Hills and West 43rd Avenue monitor until approximately 7:00 P.M. towards NOAA KPHX and Central Phoenix and the Higley monitor . As the thunderstorm conditions carried blowing dust east across the Phoenix Area towards Higley monitor, PM_{10} concentrations continued to rise, until the highest concentration of PM_{10} recorded Higle of 745.7 µg/m^3 at 10:55 P.M. This peak concentration also aligns with the highest windspeed recorded at Higley monitor for July 21st, 2023, of 21.5 mph.

The West 43rd Avenue monitor did not record any peaks in PM_{10} concentrations again until 9:00 P.M., shortly after decreased visibility and wind speeds of up to 25 mph were recorded at NOAA KPHX. As winds moved east and northeast towards NOAA KPHX from West 43rd Avenue, beginning around 7:15 P.M., they

pushed up dust and haze into the atmosphere, increasing PM_{10} concentrations to 249 µg/m³ at 9:00 P.M. at the West 43rd Avenue monitor, which then flowed east towards NOAA KPHX and Higley.

The change in wind direction from primarily west and northwest to south and southwest later in the day (after 7:00 P.M., per NOAA KPHX), may account for the difference in times that the West 43rd and Zuni Hills monitors recorded their highest PM_{10} concentrations on July 21st, 2023.

The highest windspeed recorded at NOAA KPHX was 35 mph at 10:55 P.M., with blowing dust and a decreased visibility of 3 miles. The highest wind gust was recorded at 11:05 P.M., of 46 mph. The high windspeeds and wind gusts decreased visibility, and noted blowing dust at NOAA KPHX corresponds to similar conditions noted at Higley and West 43rd Avenue monitor on the night of July 21st, 2023. Low visibility due to blowing dust and haze in the atmosphere from thunderstorm activity around the time of the highest PM_{10} concentration noted at Higley and West 43rd Avenue and resulted in 24-hour average PM_{10} concentrations to be exceeded on July 21st, 2023.

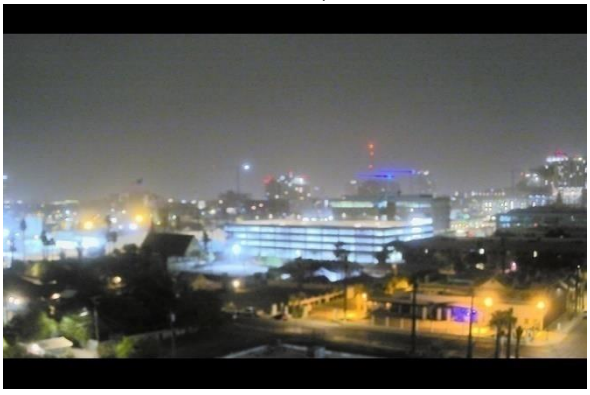
The photographs below show ADEQ's Visibility Camera Historical Archive photos of the Phoenix Area at the time prior to and during the dust storm and thunderstorm conditions on the evening of July 21st, 2023. Note that haze conditions were recorded around 6:00 A.M. at NOAA KPHX, resulting in reduced visibility. Haze was then followed by thunderstorm weather conditions such as high winds and associated dust accumulation in the early afternoon to early evening, and blowing dust was recorded the evening of July 21st as well, following the southwesterly high winds due to the day's thunderstorm conditions.

South Mountain Camera, 6:15 A.M.

South Mountain Camera, 6:45 A.M.

Camelback Mountain Camera, 7:00 A.M.

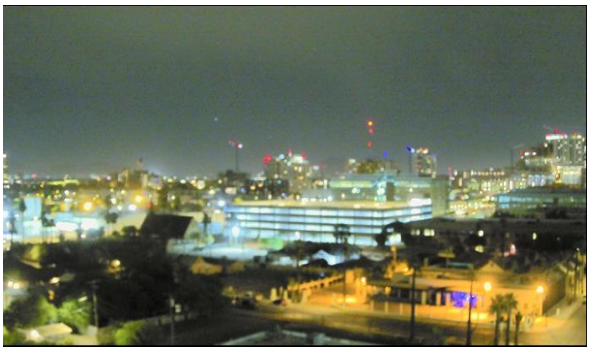
Camelback Mountain Camera, 11:00 P.M.



Camelback Mountain Camera, 7:00 P.M.

Camelback Mountain Camera, 8:45 P.M.

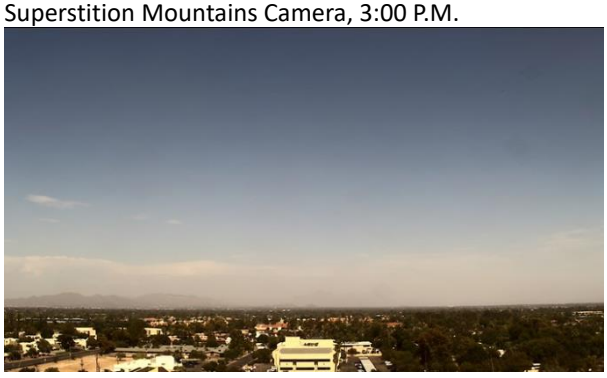
Superstition Mountains Camera, 9:00 P.M.



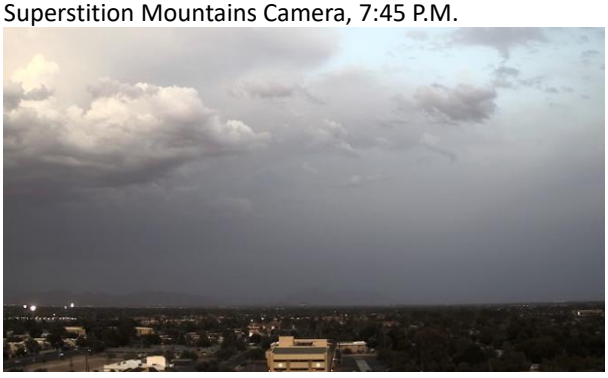
Superstition Mountains Camera, 11:00 P.M.

Superstition Mountains Camera, 3:00 P.M.

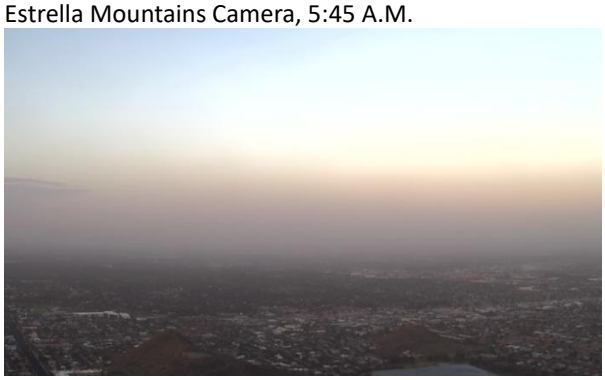
Superstition Mountains Camera, 7:45 P.M.



Estrella Mountains Camera, 5:45 A.M.



Estrella Mountains Camera, 10:30 P.M.



White Tank Mountains Camera, 6:45 A.M.

White Tank Mountains Camera, 6:45 P.M.

Note: There are no images available in the archive for South Mountain camera after 12:45 P.M., for Estrella Mountains camera after 10:30 P.M. on July 21, 2023

July 26th, 2023, Atypical Event

A subtropical high-pressure system situated across New Mexico created a southeasterly wind flow in Arizona resulting in thunderstorm activity developing across Southeastern Arizona on the afternoon of July 26th, 2023[14]. Per a NOAA Storm Event webpage for Mesa and Maricopa County on July 26th, 2023, these thunderstorms created strong downburst of winds and were responsible for dense blowing dust conditions noted across Pinal and Maricopa Counties and affected portions of the Phoenix Area. Thunderstorms, high wind, and dust storms were noted in 36 NOAA Storm Events weather reports in southeastern Arizona counties between July 26th and July 27th, 2023[15]. In addition to these reports noting dust storm conditions, an exceedance in the 24-hour average PM_{10} NAAQS was recorded at the Higley monitor, and wind and wind gust speeds exceeding 25 mph.

Data from the NOAA KPHX also recorded these thunderstorms and resulting high wind speeds and blowing dust conditions. **Table 9** lists the 24-hour average PM_{10} concentrations, and highest windspeeds and wind gust speeds recorded at the Higley monitor on July 26th, 2023.

Table 9: Windspeed and PM_{10} Data for July 26th, 2023

Site	Date	24-hour average PM_{10} ($\mu g/m^3$)	Max Hourly-Averaged Windspeed (MPH)	Time	Max Wind Gust (MPH)	Time
Higley	7/26/2023	165.3*	30.5	9:45 P.M.	31.1	9:45 P.M.

Source: Maricopa County Air Quality Departments (MCAQD) Air Quality Planning & Analysis Division Higley Air Quality Monitoring Station Data for July 26th, 2023.

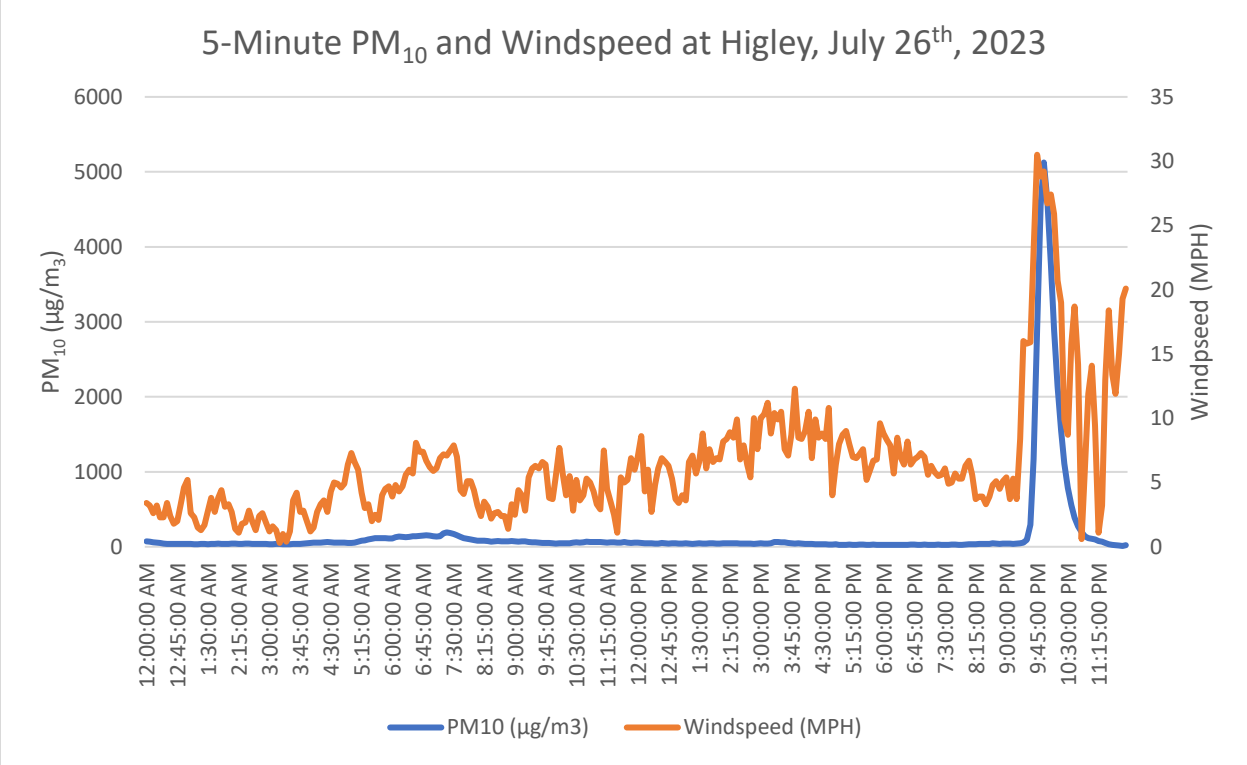
Notes: *Measurement exceeds PM_{10} NAAQS.

As shown in **Table 9**, on July 26th, 2023, the highest wind speed of 30.5 mph and wind gust of 31.1 were recorded at 9:45 P.M. at Higley monitor. As windspeeds increased the night of July 26th, 2023, PM_{10} concentrations rose as well, resulting in the highest level of PM_{10} recorded at 9:45 P.M. of 5,125 $\mu g/m^3$ at Higley monitor. **Figure 11** below shows the corresponding increase in 5-minute PM_{10} with the increase in windspeeds to greater than 25 mph on the evening of July 26th, 2023, at Higley monitor.

Figure 11 5-Minute PM_{10} concentrations ($\mu g/m^3$) and windspeed (mph) at Higley monitor on July 26th, 2023.

[14] NOAA, *Storm Events Database*, Event Details "1121093,"https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1121093.

[15]NOAA, *Storm Events Database*, "Events in Arizona from July 26–27, 2023," https://www.ncdc.noaa.gov/stormevents/listevents.jsp?eventType=ALL&beginDate_mm=07&beginDate_dd=26&beginDate_yyyy=2023&endDate_mm=07&endDate_dd=27&endDate_yyyy=2023&county=ALL&hailfilter=0.00&tornfilter=0&windfilter=000&sort=DT&submitbutton=Search&statefips=4%2CARIZONA.



As shown in **Figure 11**, the highest wind speed recorded of 30.5 mph at 9:45 P.M. coincides with the peak in PM_{10} concentrations at the Higley monitor shortly after at 9:55 P.M. on July 26th, 2023. On July 26th, 2023, thunderstorm conditions resulting in high winds and blowing dust began in afternoon but slowly began to increase in the evening as thunderstorms drifted into the Phoenix Area. These high windspeeds and resulting blowing dust on the evening of July 26th, 2023, were also recorded at NOAA KPHX, where windspeeds reached up to 29 mph and wind gusts were recorded up to 43 mph. **Table 10** below shows the data recorded for the evening of July 26th, 2023, at NOAA KPHX during the time when max windspeeds and PM_{10} concentrations were recorded at Higley monitor.

Table 10: NOAA KPHX Data for July 26th, 2023

Date	Time	Hourly-Averaged Windspeed (MPH)	Wind Gust Recorded (MPH)	Weather Conditions Noted	Visibility (miles)	Wind Direction
7/26/2023	9:50 P.M.	20	41	Blowing dust	6	SSE
7/26/2023	9:51 P.M.	25	43*	Blowing dust	3	SSE
7/26/2023	9:55 P.M.	18	-	Blowing dust	1.75	SSE
7/26/2023	9:57 P.M.	17	43*	-	0.5	S
7/26/2023	10:00 P.M.	17	-	-	0.5	S
7/26/2023	10:05 P.M.	25	38	-	0.5	SSE
7/26/2023	10:10 P.M.	23	29	-	0.5	SSE
7/26/2023	10:15 P.M.	23	36	-	0.5	SSE
7/26/2023	10:18 P.M.	29*	41	-	0.5	SE
7/26/2023	10:20 P.M.	25	43*	Blowing dust	2	SE
7/26/2023	10:25 P.M.	23	43*	Blowing dust	2.5	ESE

7/26/2023	10:30 P.M.	22	31	Blowing dust	3	E
7/26/2023	10:35 P.M.	22	30	Blowing dust	6	E
7/26/2023	10:40 P.M.	25	31	-	8	ENE
7/26/2023	10:43 P.M.	26	35	Thunder	8	E
7/26/2023	10:45 P.M.	23	-	-	8	E
7/26/2023	10:51 P.M.	18	30	Thunder	9	E

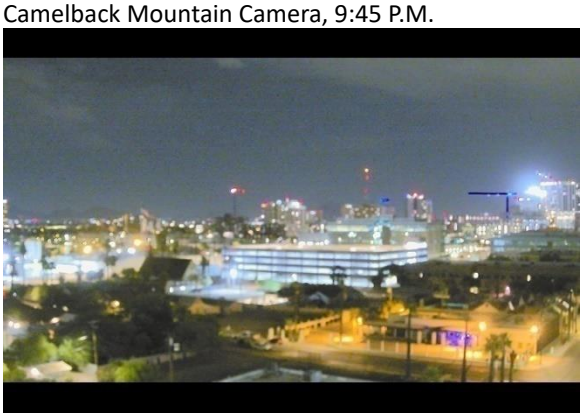
Source: NOAA Weather for Phoenix, Phoenix Sky Harbor International Airport, AZ on 07/26/2023 Link: https://www.weather.gov/wrh/timeseries?site=KPHX&hours=72&units=english&chart=on&headers=on&obs=tabular&hourly=false&pview=standard&font=12&history=yes&start=20230725&end=20230727
Notes: * Highest windspeed or wind gust recorded for the day
- no observation recorded

As shown in **Table 10**, on the evening of July 26th, 2023, around 9:50 P.M. blowing dust and wind speeds and wind gusts greater than 25 mph were recorded at NOAA KPHX. The highest wind speed recorded at NOAA KPHX was 29 mph, before and after multiple recordings of wind gust speeds reaching 43 mph. The highest windspeed and wind gusts recorded shown in **Table 10** correspond with the similar time frame at which the highest windspeeds, wind gusts, and PM_{10} concentrations were recorded at Higley monitor on July 26th, 2023, peaking at 9:55 P.M. **Table 10** shows that blowing dust and high winds were noted at 9:50 P.M., with noted decrease in visibility to ½ a mile during this time and continued until about 10:50 P.M.

In addition, thunder conditions and wind gusts greater than 25 mph are recorded again at the time of the highest windspeed noted at Higley monitor at 9:45 P.M. As such, thunderstorm activities caused high winds and blowing dust throughout the Phoenix Area and at Higley monitors, resulting in low visibility, Higley monitor 24-hour average PM_{10} NAAQS exceedance, and increased PM_{10} concentrations to occur on July 26th, 2023.

The photographs below show ADEQ's Visibility Camera Historical Archive photos of the Phoenix Area at the time prior to and during the dust storm and thunderstorm conditions on the evening of July 26th, 2023. Note the dust storm conditions and dense blowing winds were documented to hit the Phoenix Area around 9:30 P.M., as shown in NOAA KPHX and MCAQD monitoring data.

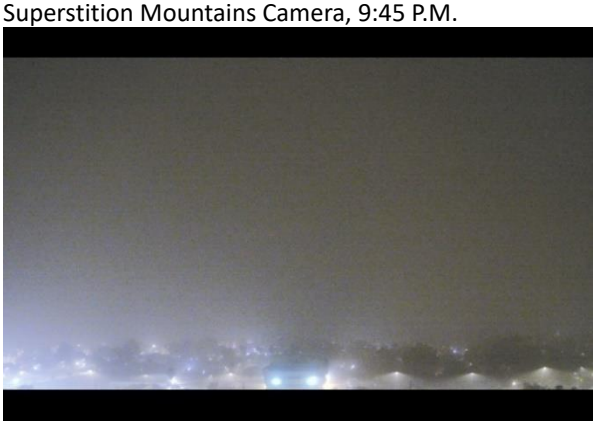
Camelback Mountain Camera, 9:45 P.M.



Camelback Mountain Camera, 10:00 P.M.

Superstition Mountains Camera, 9:00 P.M.

Superstition Mountains Camera, 9:45 P.M.



White Tank Mountains Camera, 10:00 P.M.

White Tank Mountains Camera, 10:45 P.M.

Note: There are no images available in the archive for South Mountain and Estrella Mountains camera on July 26, 2023

July 14th, 2024, Atypical Event

On July 14th, 2024, a subtropical high-pressure front situated over the Southwestern United States flowed across Arizona from the southeast towards the Phoenix area. This subtropical front carrying a large content of water vapor in combination with high temperatures was by high wind to develop "strong to severe"[16] thunderstorms over the Phoenix valley in the later afternoon of July 14th, 2024. As the storm continued to build into the evening, it migrated northwest towards south central Arizona and the Higley monitor, generating high winds and areas of dense blowing dust. The NWS issued a dust storm warning starting around 6:45 P.M. on the evening of the 14th for areas surrounding State Highway 101 in Maricopa County, AZ and State Highway 202 in Maricopa County, AZ and State Highway 51 in Maricopa County, AZ and State Highway 87 in Maricopa County, AZ. This area is approximately 5 miles north of the Project area and Higley monitor. By 8:37 P.M., a wall of dust was reported along a line from Canyon Lake to Usery Mountain Park to Mesa, moving northwest towards the Central Phoenix area at speeds greater than 25 mph. By this point, visibility had dropped to less than a quarter mile, and winds reached up to 40 mph.

With wind speeds greater than 25 mph and blowing dust in the atmosphere, high PM_{10} concentrations were noted in the Phoenix area at multiple MCAQD monitoring stations on July 14th, 2024. NAAQS PM_{10} exceedances were noted throughout the Phoenix Area at four MCAQD monitoring stations including the Central Phoenix, South Phoenix, South Scottsdale, and West Chandler monitors. The highest PM_{10} concentrations recorded at these monitors coincides with the times of dust storms reported by NOAA Storm Event Reports for Maricopa County and the Phoenix Area and aligns with NOAA KPHX data for July 14th, 2024. The Higley monitor did not exceed NAAQS PM10 on July 14th, but came close to exceeding, and West Chandler Monitor, approximately 9.4 miles west of Higley exceeded, and the additional MCAQD monitors that exceeded PM_{10} NAAQS are within 22 miles of Higley monitor. **Table 11** captures windspeed and PM_{10} data at Higley, West Chandler, South Scottsdale, and Durango Complex monitoring stations on July 14th, 2024. For more details on this data, please refer to **Appendix A**.

Table 11: Windspeed and PM_{10} Data for July 14th, 2024

Site	Date	24-hour average PM_{10} ($\mu g/m^3$)	Max Hourly-Averaged Windspeed (MPH)	Time	Max Wind Gust (MPH)	Time
Higley	7/14/2024	142	22.2	8:55 P.M.	38.1	8:00 P.M.
South Scottsdale	7/14/2024	161.1*	22.9	8:50 P.M.	42.5	8:00 P.M.
West Chandler	7/14/2024	191.7*	17.8	9:05 P.M.	34.7	8:00 P.M.
Durango Complex	7/14/2024	152*	16.8	2:25 A.M.	32.8	8:00 P.M.

Source: Maricopa County Air Quality Departments (MCAQD) Air Quality Planning & Analysis Division, Higley, Dysart and Zuni Hills Air Quality Monitoring Station Data for July 14th, 2024.

Notes: *Measurement exceeds PM_{10} NAAQS.

As shown in **Table 11** high wind speeds, with max hourly windspeeds reaching up to 22.9 mph, were recorded at South Scottsdale, 22.2 mph at Higley, 17.8 mph at West Chandler, and 16.8 mph at Durango Complex monitors on July 14th , 2024. All four monitors recorded wind gust speeds greater than 25 mph at 8:00 P.M., with South Scottsdale recording the highest wind gust speed of 42.5 mph, Higley with 38.1 mph, West Chandler with 34.7 mph, and Durango Complex with 32.8 mph wind gust speeds. All monitors recorded similar peaks in PM_{10} concentrations aligning with increases in windspeed to the maximum wind

[16] NOAA, *Storm Events Database*, Event Details "1202195," https://www.ncdc.noaa.gov/stormevents/eventdetails.jsp?id=1202195

gust times recorded around 8:00 P.M., tracking with the reported thunderstorm and blowing dust conditions reported in the Phoenix Area.

Increased PM_{10} concentrations observed on July 14th, 2024, coincided with these high wind conditions in the project area and MCAQD monitors nearby, as shown in **Figures 12** through **15** below .

Figure 12: 5-Minute PM_{10} concentrations ($\mu g/m^3$) and windspeed (mph) at Higley monitor on July 14th, 2024.

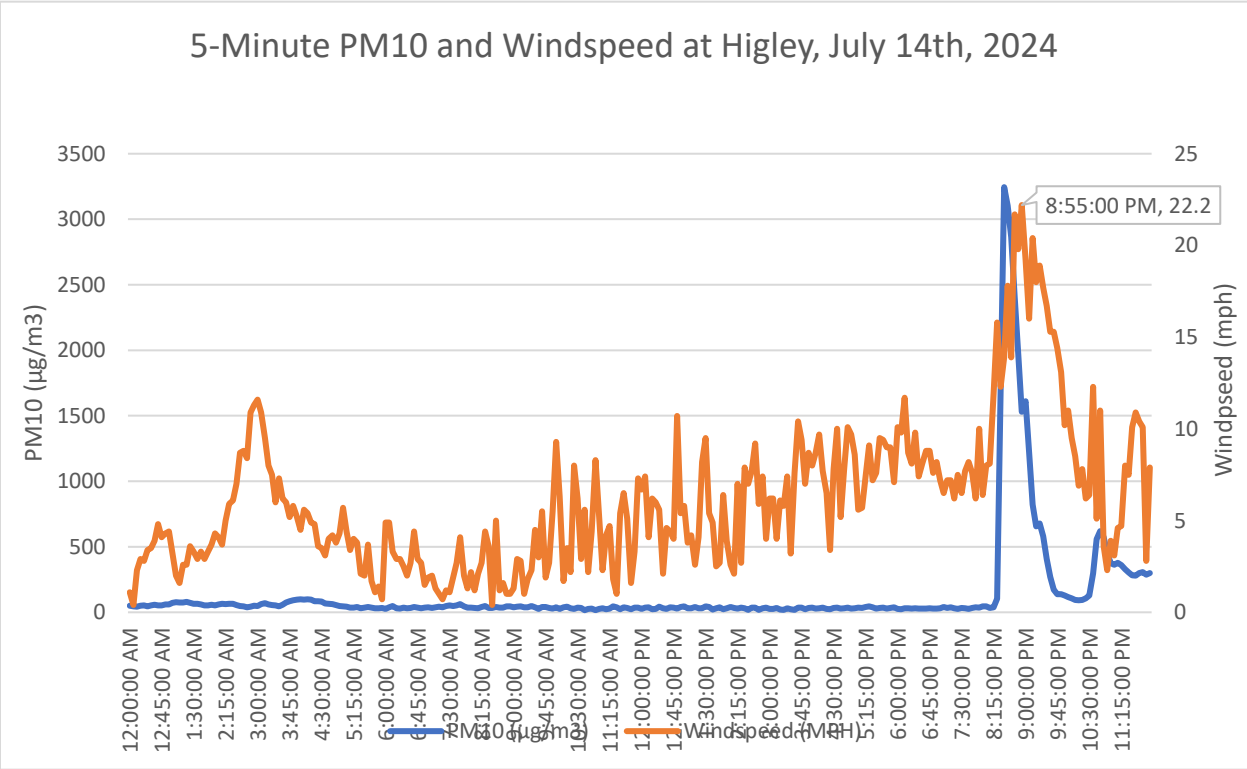


Figure 13: 5-Minute PM_{10} concentrations ($\mu g/m^3$) and windspeed (mph) at Durango Complex monitor on July 14th, 2024.

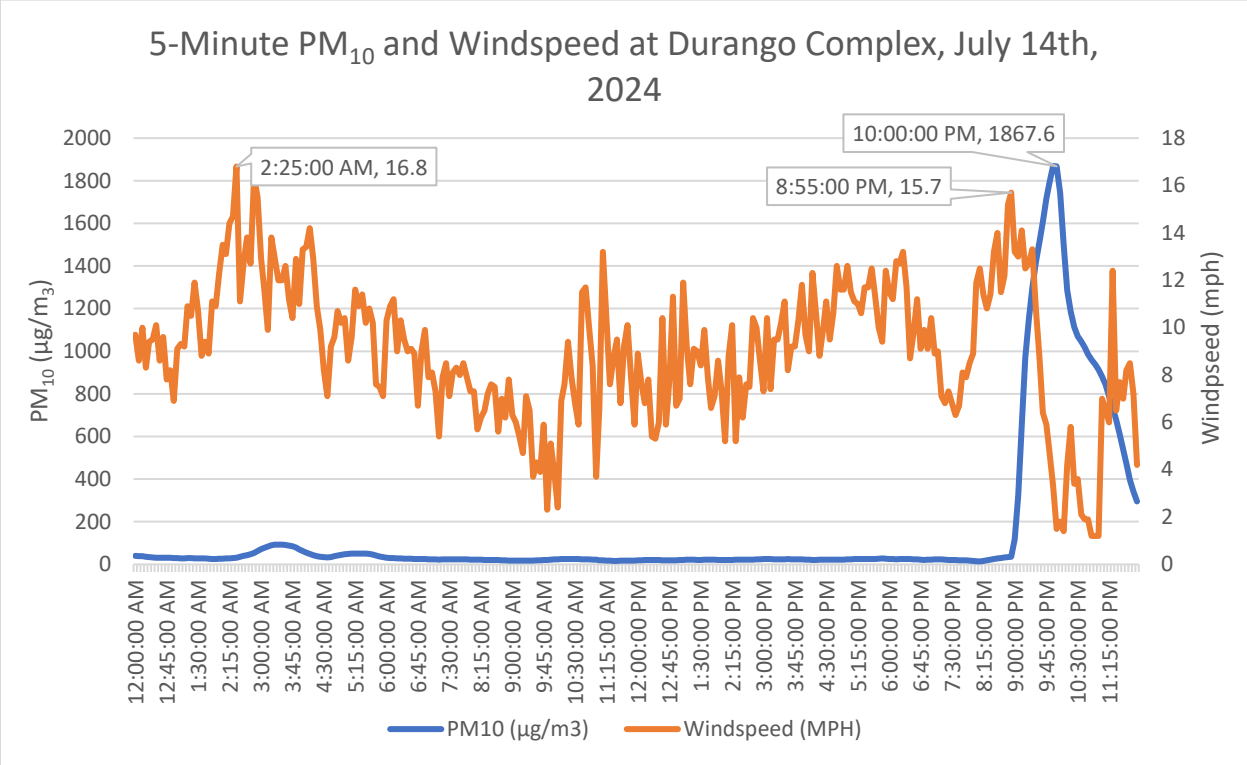


Figure 14: 5-Minute PM_{10} concentrations ($\mu g/m^3$) and windspeed (mph) at South Scottsdale monitor on July 14th, 2024.

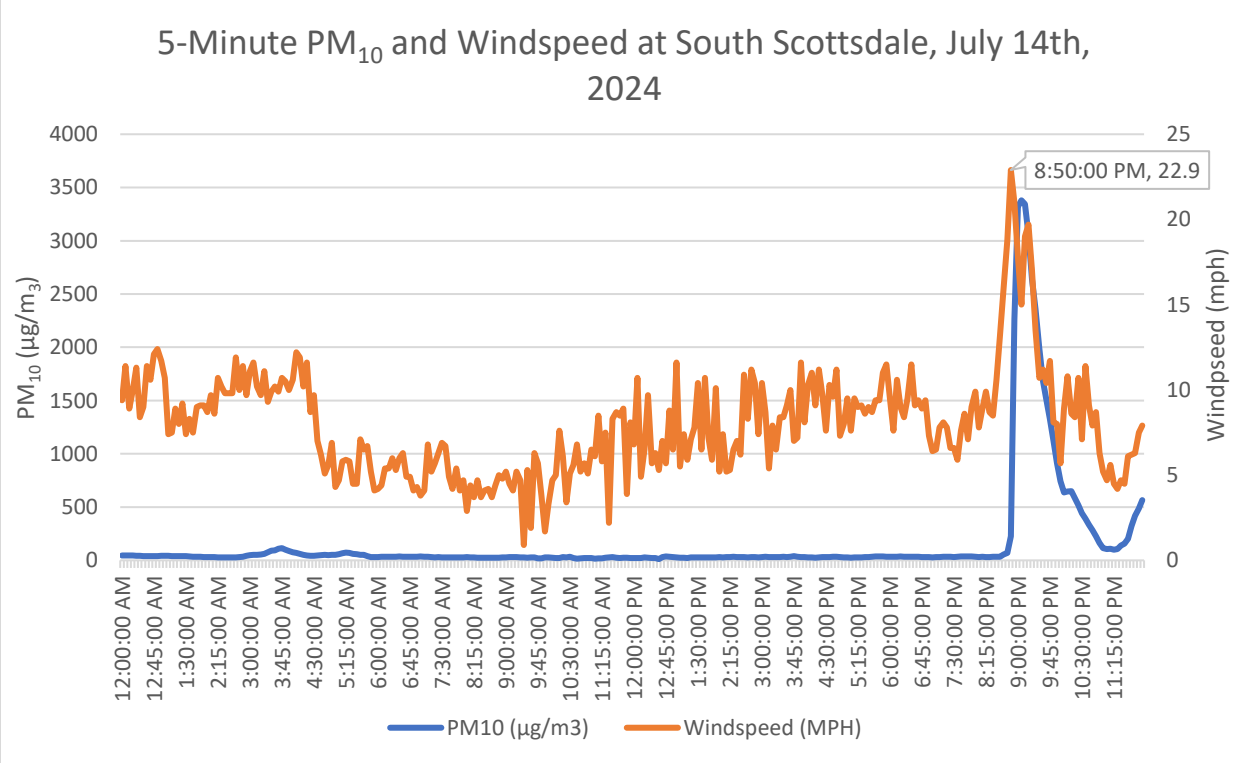
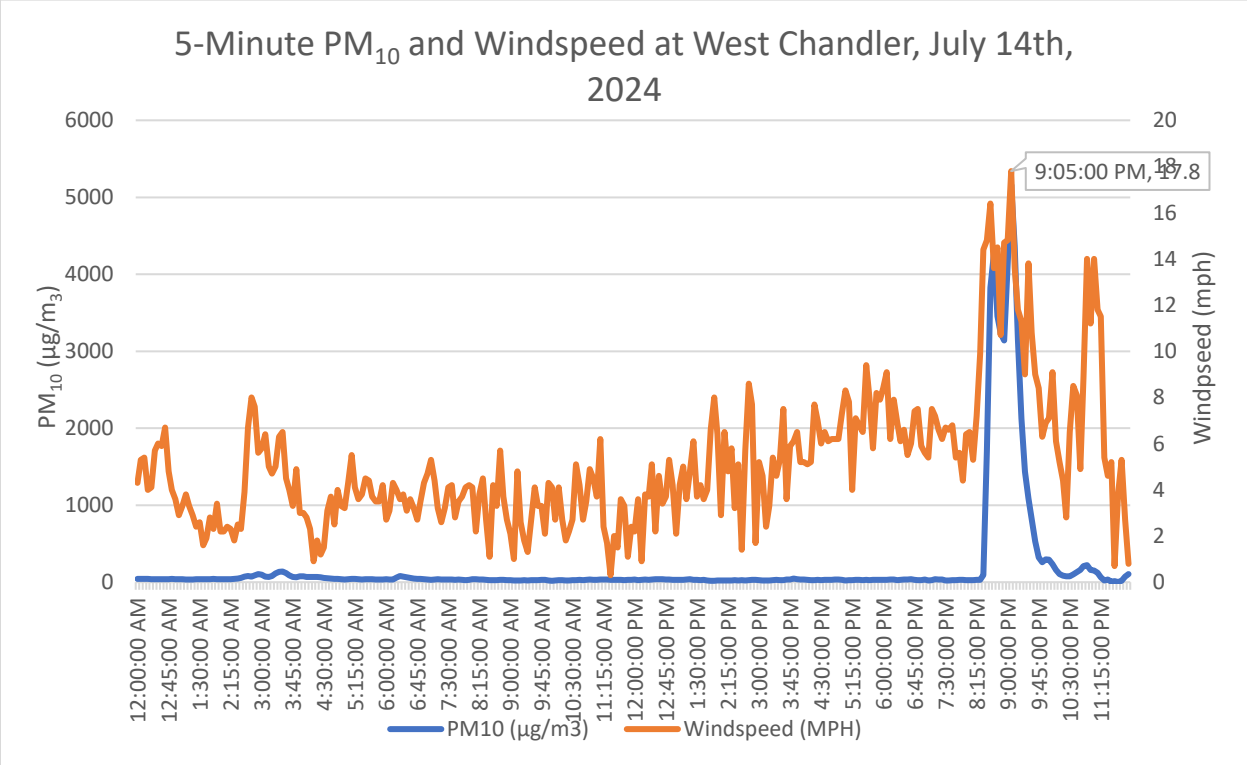


Figure 15: 5-Minute PM_{10} concentrations (µg/m^3) and windspeed (mph) at West Chandler monitor on July 14th, 2024.



As shown in **Figures 12** through **15**, the highest wind speed recorded of 22.2 mph at 8:55 P.M. coincides with the peak in PM_{10} concentrations of 3244.8 µg/m^{3}at the Higley monitor at 8:30 P.M. on July 14th, 2024. On July 14th, 2024, thunderstorm conditions resulting in high winds and blowing dust began in the late afternoon but slowly began to increase in the evening as thunderstorms drifted northwest from the southeast into the Phoenix Area. A similar trend in peak windspeeds coinciding with peak PM10 concentrations between 8:30 P.M. and 10:00 P.M. were identified at West Chandler, South Scottsdale, and Durango Complex monitors on July 14th, 2024, as shown in Figures **12** through **15**. The Durango Complex monitor recorded its peak windspeeds and PM_{10} concentrations later in the evening as the storm moved from the southeastern Phoenix area from the Higley monitor west and northwest over the Central Phoenix area towards the Durango Complex monitor.

Although Higley monitor did not exceed PM_{10} NAAQS on July 14th, the trend in increasing wind speed and elevated PM_{10} levels at Higley monitor between 7:00 P.M. and 11:00 P.M. tracks with conditions noted at monitors nearby did exceed PM_{10} NAAQS on July 14th, 2024. This demonstrates that the thunderstorm and dust storm conditions impacted the phoenix area, including Higley monitor and the project site's general vicinity.

These high windspeeds and resulting blowing dust on the evening of July 14th, 2024, were also recorded at NOAA KPHX, where windspeeds reached up to 26 mph and wind gusts were recorded up to 41 mph. **Table 12** below shows the data recorded for the evening of July 14th, 2024, at NOAA KPHX during the time when max windspeeds and PM_{10} concentrations were recorded at Higley monitor.

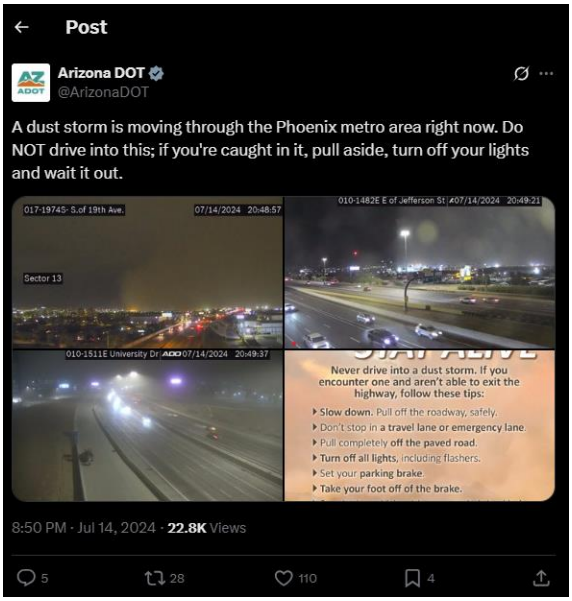
Table 12: NOAA KPHX Weather for July 14th, 2024						
Date	**Time**	**Hourly-Averaged Windspeed (MPH)**	**Wind Gust Recorded (MPH)**	**Weather Conditions Noted**	**Visibility (miles)**	**Wind Direction**
7/14/2024	5:20 P.M.	17	25	-	10	W
7/14/2024	6:10 P.M.	20	25	-	10	W
7/14/2024	8:25 P.M.	17	26	-	10	SW
7/14/2024	8:30 P.M.	23	30	-	10	SW
7/14/2024	8:40 P.M.	24	30		10	SW
7/14/2024	8:45 P.M.	18	24	-	10	SSW
7/14/2024	8:49 P.M.	26*	41*	Blowing dust	1	S
7/14/2024	8:50 P.M.	25	36	Blowing dust	1	S
7/14/2024	8:51 P.M.	25	41*	Blowing dust	1	SSW
7/14/2024	8:55 P.M.	22	29	Blowing dust	1	S
7/14/2024	9:00 P.M.	22	31	Blowing dust	1	S
7/14/2024	9:01 P.M.	24	33	Thunder, Blowing dust	1	S
7/14/2024	9:05 P.M.	23	31	Blowing dust	1	S
7/14/2024	9:08 P.M.	25	35	Thunder shwr, Blowing dust	1	S
7/14/2024	9:10 P.M.	21	30	Lt rain, Blowing dust	1	S
7/14/2024	9:13 P.M.	16	36	Hvy thunder shwr, Blowing dust	0.75	S
7/14/2024	9:15 P.M.	10	16	Hvy rain, Blowing dust	0.75	W
7/14/2024	9:20 P.M.	7	36	Hvy rain, Blowing dust	1	S
7/14/2024	9:25 P.M.	7	36	Lt rain, Blowing dust	1.75	SSW
7/14/2024	9:55 P.M.	7	-	Blowing dust	5	SSW
7/14/2024	10:15 P.M.	22	28	Blowing dust	5	N
7/14/2024	10:45 P.M.	13	28	Blowing dust	4	N
7/14/2024	10:51 P.M.	8	29	Blowing dust	4	N
7/14/2024	11:25 P.M.	14	21	Blowing dust	3.5	W

Source: NOAA Weather for Phoenix, Phoenix Sky Harbor International Airport, AZ on 07/14/2024 Link: https://www.weather.gov/wrh/timeseries?site=KPHX&hours=72&units=english&chart=on&headers=on&obs=tabular&hourly=false&pview=standard&font=12&history=yes&start=20240713&end=20240716&plot=
Notes: * Highest windspeed or wind gust recorded for the day
- no observation recorded

Per NOAA KPHX data, the highest wind speed recorded for July 14th, 2024, was 26 mph at 8:49 P.M., along with the highest wind gust speed recorded of 41 mph. This maximum wind speed and wind gust speed follows the movement of thunderstorms and blowing dust, as it moved northwest towards Central Phoenix area and NOAA KPHX from the southeast, moving northwest from Higley and West Chandler monitors which recorded maximum windspeeds approximately 50 minutes prior. As the thunderstorms moved northwest and west over the Phoenix area, visibility decreased down to 0.75 miles along with visible blowing dust conditions were noted in the NOAA KPHX data on the evening of July 14th, 2024. The blowing dust conditions noted at NOAA KPHX lasted from approximately 8:50 P.M. till 11:35 P.M., following the time in which Higley, West Chandler, South Scottsdale, and Durango Complex monitors all recorded peak PM_{10} concentrations for the day.

On July 14th, 2024, thunderstorm activity resulted in high winds, blowing dust, and reduced visibility as reported by NOAA KPHX. These conditions led to coinciding peaks in windspeed, wind gusts, and PM_{10} concentrations recorded at four MCAQD monitors, ultimately resulting in exceedances of the PM_{10} NAAQS. The photographs below from news reports of the storm event demonstrate the levels and severity of the dust storm conditions occurring on July 14th, 2024.

Photograph: Screenshot of timelapse of sky in Casa Grande on July 14th, 2024, from 12News viewer Jessica Carvalho[17].



Photograph: Screenshot of social media post by ADOT showing traffic camera's on Juy 14th, 2024 with visible dust in the atmosphere[18].

[17] 12News, Dust Storm Warning Issued for East Valley Sunday July 14th, accessed July 24th, 2024. https://www.12news.com/article/weather/severe-weather/dust-storm-warning-issued-for-the-east-valley-sunday-july-14-2024/75-4de75cba-e082-4899-8adf-3960f6ad0ab5

[18] https://x.com/ArizonaDOT/status/1812696122777031151

5.0 Project PM_{10} Background Concentrations, Removing Atypical Events

In summary, four (4) days are being proposed to be excluded from the project's background concentration analysis because they have been considered as affected by an atypical air quality event, such as a high wind event, monsoon conditions, or thunderstorm activity. These days were removed from the original Higley monitor 2022 through 2024 PM_{10} data set due to the atypical-type nature of the local conditions when the high PM_{10} values were observed (e.g., windblown dust, high winds, haze). Once removed, the remaining data was used to calculate a PM_{10} background concentration of 107 µg/m^3.

Table 13: Project Monitoring Station Highest 24-hour PM_{10} Readings, Removing Atypical Events

Higley			
Data Year	**2022**	**2023**	**2024**
Number of Readings	362	333	359
1st	99	143	110
2nd	88	122	106
3rd	86	***107***	104
4th	83	103	103

Source: U.S. EPA Outdoor Air Quality Data, Download Daily Air Quality Data, https://www.epa.gov/outdoor-air-quality-data/download-daily-data

Note: *4th highest 24-hour readings are highlighted in red, removing atypical events.

Table 13 shows that with removing atypical events, Higley monitors 4th highest value over three years (2022-2024) is 107 µg/m^3. This comes from the 4th highest reading out of a total of 1054 days of sampling. This background concentration is under the PM_{10} NAAQS threshold.

The predicted background concentration, removing data for atypical events, of the project is ***107 µg/m^3.***

Per 40 CFR 50, Appendix K, the Maricopa County NAAQS threshold for PM_{10} 24-hour average concentration threshold is 150 µg/m^3. As such, the predicted background concentration when removing atypical event data does not exceed the NAAQs threshold.

Days in which an atypical event, i.e., a dust storm or high wind event occurred in the region and impacting Higley monitor and the project site have been identified. Because regional atypical events were occurring on these days, it is inappropriate to consider these days when calculating background PM_{10} concentrations for the projects hot spot analyses. Finally, after removing days in which an atypical event occurred, the 24-hour PM_{10} background concentration identified for 2022 through 2024 is 107 µg/m^3. This concentration is suitable for use as a reasonable background concentration for the project, as it is more representative of typical background concentrations for the project site excluding atypical events.

Appendix A: Maricopa County Air Quality Department Planning & Analysis Division – Air Quality Monitor Data

Site: Higley						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	12:00:00 AM	71.7		5.5	93.1	3.9
9/2/2022	12:05:00 AM	66.2		-	105.5	5.1
9/2/2022	12:10:00 AM	61.4		-	106.8	5.1
9/2/2022	12:15:00 AM	56		-	106.3	5.9
9/2/2022	12:20:00 AM	48.8		-	113.3	7.9
9/2/2022	12:25:00 AM	42.1		-	118.2	5.9
9/2/2022	12:30:00 AM	39.2		-	116	5.4
9/2/2022	12:35:00 AM	39.5		-	118.9	6.5
9/2/2022	12:40:00 AM	38.4		-	134.7	6.1
9/2/2022	12:45:00 AM	36.5		-	137.9	5.8
9/2/2022	12:50:00 AM	36.2		-	134	5.4
9/2/2022	12:55:00 AM	38.2		-	132.9	5
9/2/2022	1:00:00 AM	39.1		4.4	132.7	4.7
9/2/2022	1:05:00 AM	37.5		-	123.3	4.6
9/2/2022	1:10:00 AM	34.9		-	116.1	5.4
9/2/2022	1:15:00 AM	35.5		-	123.8	5.3
9/2/2022	1:20:00 AM	37.9		-	116	4.8
9/2/2022	1:25:00 AM	37.4		-	120.3	5
9/2/2022	1:30:00 AM	35.7		-	124.9	4
9/2/2022	1:35:00 AM	36.2		-	130.8	4.8
9/2/2022	1:40:00 AM	39.6		-	128.1	2.7
9/2/2022	1:45:00 AM	41.5		-	121.3	3.6
9/2/2022	1:50:00 AM	40		-	121.7	4
9/2/2022	1:55:00 AM	38.5		-	117.5	3.9
9/2/2022	2:00:00 AM	39.9		3.8	111.3	4.6
9/2/2022	2:05:00 AM	42.4		-	103.3	4.5
9/2/2022	2:10:00 AM	42		-	119.7	5.4
9/2/2022	2:15:00 AM	39.5		-	113.2	5.1
9/2/2022	2:20:00 AM	38.9		-	124.8	4.1
9/2/2022	2:25:00 AM	41.1		-	119.2	3
9/2/2022	2:30:00 AM	41.9		-	131.4	4.6
9/2/2022	2:35:00 AM	40.1		-	114.8	3.9
9/2/2022	2:40:00 AM	38		-	132.7	4.4
9/2/2022	2:45:00 AM	38.3		-	122	3.6
9/2/2022	2:50:00 AM	39		-	162.2	1.8
9/2/2022	2:55:00 AM	37.7		-	150.7	2.3
9/2/2022	3:00:00 AM	35.5		1.7	146.9	2.2
9/2/2022	3:05:00 AM	35.4		-	113.7	2.3
9/2/2022	3:10:00 AM	36.9		-	119.2	2.8
9/2/2022	3:15:00 AM	36.8		-	103	1.8
9/2/2022	3:20:00 AM	34.9		-	96.6	2.9
9/2/2022	3:25:00 AM	33.1		-	63.3	3.2
9/2/2022	3:30:00 AM	34.5		-	59.1	3.3
9/2/2022	3:35:00 AM	36.6		-	46	1.1
9/2/2022	3:40:00 AM	36.7		-	42.1	1.5
9/2/2022	3:45:00 AM	37.2		-	22	0.8
9/2/2022	3:50:00 AM	41.6		-	295.8	0
9/2/2022	3:55:00 AM	47.8		-	61.7	2.4

Site: Higley						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	4:00:00 AM	51.9		1.4	337.6	0.7
9/2/2022	4:05:00 AM	53.2		-	338.4	1.5
9/2/2022	4:10:00 AM	53.8		-	342.2	0.6
9/2/2022	4:15:00 AM	55.2		-	302.7	0.7
9/2/2022	4:20:00 AM	59.6		-	33.1	2.2
9/2/2022	4:25:00 AM	62.5		-	279.1	1.2
9/2/2022	4:30:00 AM	60.4		-	346.5	0.7
9/2/2022	4:35:00 AM	57		-	31.7	3
9/2/2022	4:40:00 AM	55.5		-	28	3.1
9/2/2022	4:45:00 AM	54.6		-	28.2	2.3
9/2/2022	4:50:00 AM	54.5		-	38.2	2.2
9/2/2022	4:55:00 AM	52.5		-	29.4	2
9/2/2022	5:00:00 AM	49.3		4	37.7	2.1
9/2/2022	5:05:00 AM	54.1		-	61.5	3.3
9/2/2022	5:10:00 AM	66.2		-	70.5	4.3
9/2/2022	5:15:00 AM	79.6		-	77.7	3.4
9/2/2022	5:20:00 AM	86.5		-	78.5	3.5
9/2/2022	5:25:00 AM	98		-	72.4	4.1
9/2/2022	5:30:00 AM	106.7		-	90	5.3
9/2/2022	5:35:00 AM	114.7		-	99.4	6.2
9/2/2022	5:40:00 AM	116.7		-	99.7	6.4
9/2/2022	5:45:00 AM	113.6		-	90.3	4.3
9/2/2022	5:50:00 AM	113.7		-	96.4	3.9
9/2/2022	5:55:00 AM	111.4		-	88.7	2.8
9/2/2022	6:00:00 AM	109.1		2.6	79.9	2.2
9/2/2022	6:05:00 AM	128.5		-	117.5	1.4
9/2/2022	6:10:00 AM	134.5		-	135.5	0.9
9/2/2022	6:15:00 AM	130.3		-	153.8	1.9
9/2/2022	6:20:00 AM	126.3		-	114	2.9
9/2/2022	6:25:00 AM	131.2		-	100.9	4.1
9/2/2022	6:30:00 AM	140.9		-	110	3.6
9/2/2022	6:35:00 AM	141.1		-	132.1	3.6
9/2/2022	6:40:00 AM	143.5		-	113.5	2.6
9/2/2022	6:45:00 AM	150.8		-	107.7	2
9/2/2022	6:50:00 AM	154.8		-	149.8	3.6
9/2/2022	6:55:00 AM	149.5		-	141.3	4.7
9/2/2022	7:00:00 AM	140.2		5.3	121.4	3.4
9/2/2022	7:05:00 AM	134.5		-	121.5	3.6
9/2/2022	7:10:00 AM	141.9		-	121.2	4.5
9/2/2022	7:15:00 AM	177		-	125.6	4.2
9/2/2022	7:20:00 AM	193		-	128.2	4.8
9/2/2022	7:25:00 AM	183.4		-	131.8	5.5
9/2/2022	7:30:00 AM	170.7		-	129.4	6.2
9/2/2022	7:35:00 AM	154.7		-	127.1	6.4
9/2/2022	7:40:00 AM	133.9		-	128.8	7.1
9/2/2022	7:45:00 AM	115.3		-	134.1	6.3
9/2/2022	7:50:00 AM	104.9		-	129.3	6.7
9/2/2022	7:55:00 AM	97.8		-	128.6	5.4

Site: Higley						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	8:00:00 AM	88.3		3.7	111.8	4.8
9/2/2022	8:05:00 AM	80.6		-	99.1	5.6
9/2/2022	8:10:00 AM	80.1		-	100.4	4.7
9/2/2022	8:15:00 AM	79.6		-	116.1	4.4
9/2/2022	8:20:00 AM	74.4		-	116.5	4.5
9/2/2022	8:25:00 AM	69.8		-	129.5	3.5
9/2/2022	8:30:00 AM	74		-	133.3	2.3
9/2/2022	8:35:00 AM	75.4		-	106	3.6
9/2/2022	8:40:00 AM	73.4		-	114.2	2.5
9/2/2022	8:45:00 AM	70.7		-	108.7	3.5
9/2/2022	8:50:00 AM	73.4		-	101.3	3.6
9/2/2022	8:55:00 AM	74.4		-	110.9	2
9/2/2022	9:00:00 AM	70.3		2.7	151.1	3.7
9/2/2022	9:05:00 AM	68.9		-	154.9	1.5
9/2/2022	9:10:00 AM	74.3		-	214.5	2.1
9/2/2022	9:15:00 AM	73.2		-	152.9	3.5
9/2/2022	9:20:00 AM	65		-	194.2	1.6
9/2/2022	9:25:00 AM	60.7		-	145.4	2.7
9/2/2022	9:30:00 AM	61.1		-	145	3.1
9/2/2022	9:35:00 AM	57.2		-	170.9	1.7
9/2/2022	9:40:00 AM	51.1		-	149.1	3.4
9/2/2022	9:45:00 AM	50.6		-	109	3.3
9/2/2022	9:50:00 AM	51.5		-	110.6	4.6
9/2/2022	9:55:00 AM	46.5		-	124.6	5.7
9/2/2022	10:00:00 AM	44.1		5.7	107.5	5.4
9/2/2022	10:05:00 AM	47.3		-	120.7	5.9
9/2/2022	10:10:00 AM	47.9		-	136.5	7
9/2/2022	10:15:00 AM	45.5		-	116.3	5.8
9/2/2022	10:20:00 AM	47.7		-	108.4	5.8
9/2/2022	10:25:00 AM	55.6		-	108.5	6.6
9/2/2022	10:30:00 AM	57.8		-	146.3	5.7
9/2/2022	10:35:00 AM	56.7		-	141.5	6.3
9/2/2022	10:40:00 AM	61		-	125.5	5.1
9/2/2022	10:45:00 AM	65.9		-	129.8	6.3
9/2/2022	10:50:00 AM	64.3		-	117.5	3.7
9/2/2022	10:55:00 AM	62.1		-	139	6.4
9/2/2022	11:00:00 AM	65.3		3	167.1	4.1
9/2/2022	11:05:00 AM	65.4		-	183.1	3.6
9/2/2022	11:10:00 AM	59.4		-	194.6	4.4
9/2/2022	11:15:00 AM	56.8		-	163.4	6
9/2/2022	11:20:00 AM	59.7		-	152	4.5
9/2/2022	11:25:00 AM	59.5		-	155.5	0.8
9/2/2022	11:30:00 AM	56.3		-	163.6	4
9/2/2022	11:35:00 AM	56.6		-	126.5	5.5
9/2/2022	11:40:00 AM	61.6		-	97.6	2.1
9/2/2022	11:45:00 AM	56.9		-	150.3	2.1
9/2/2022	11:50:00 AM	51.1		-	99.6	4.1
9/2/2022	11:55:00 AM	54.3		-	96.6	0.9

Site: Higley						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	12:00:00 PM	54.2		2.3	188.6	3.7
9/2/2022	12:05:00 PM	49.1		-	234.6	4.3
9/2/2022	12:10:00 PM	47		-	164.2	3.3
9/2/2022	12:15:00 PM	47.1		-	228.6	1.1
9/2/2022	12:20:00 PM	45.2		-	200.3	2.6
9/2/2022	12:25:00 PM	40.6		-	72	3.1
9/2/2022	12:30:00 PM	44		-	160.6	5.5
9/2/2022	12:35:00 PM	49.1		-	190.6	3.8
9/2/2022	12:40:00 PM	46.6		-	214.6	3.1
9/2/2022	12:45:00 PM	43.5		-	241.3	5.6
9/2/2022	12:50:00 PM	46.2		-	291.7	5.7
9/2/2022	12:55:00 PM	46.3		-	281.9	2.4
9/2/2022	1:00:00 PM	40.3		2.2	217.7	2.8
9/2/2022	1:05:00 PM	40.9		-	173	3
9/2/2022	1:10:00 PM	44.7		-	215.6	1.3
9/2/2022	1:15:00 PM	42.2		-	167.8	3.7
9/2/2022	1:20:00 PM	39.4		-	111.2	3.7
9/2/2022	1:25:00 PM	44.4		-	230.8	1.9
9/2/2022	1:30:00 PM	47.4		-	170	3.1
9/2/2022	1:35:00 PM	44.4		-	228.3	7.2
9/2/2022	1:40:00 PM	44.4		-	263.3	6.3
9/2/2022	1:45:00 PM	48.6		-	286.1	3.8
9/2/2022	1:50:00 PM	47		-	305.7	4.1
9/2/2022	1:55:00 PM	42.1		-	282.1	2.5
9/2/2022	2:00:00 PM	42.8		3.7	225.4	2.6
9/2/2022	2:05:00 PM	47.3		-	189	3.8
9/2/2022	2:10:00 PM	46.7		-	161.3	6
9/2/2022	2:15:00 PM	45.2		-	161.1	4.9
9/2/2022	2:20:00 PM	45.9		-	204.7	5.4
9/2/2022	2:25:00 PM	45.8		-	229.8	4.9
9/2/2022	2:30:00 PM	41.7		-	170.9	3
9/2/2022	2:35:00 PM	41		-	211.2	2.6
9/2/2022	2:40:00 PM	44.1		-	203.4	3.4
9/2/2022	2:45:00 PM	42.7		-	182.3	3.9
9/2/2022	2:50:00 PM	38.8		-	194.9	3.8
9/2/2022	2:55:00 PM	42.1		-	202.3	4.4
9/2/2022	3:00:00 PM	44.8		2.6	139.9	2.2
9/2/2022	3:05:00 PM	41.7		-	179.6	4.3
9/2/2022	3:10:00 PM	40.4		-	224.8	5.9
9/2/2022	3:15:00 PM	48.7		-	246.7	1.5
9/2/2022	3:20:00 PM	64.4		-	248.7	5.6
9/2/2022	3:25:00 PM	64		-	252.4	2.1
9/2/2022	3:30:00 PM	61.3		-	236.4	7.3
9/2/2022	3:35:00 PM	58.8		-	174.8	4.5
9/2/2022	3:40:00 PM	52.4		-	209.2	2.3
9/2/2022	3:45:00 PM	44.9		-	209.9	1.9
9/2/2022	3:50:00 PM	44		-	142.3	4.5
9/2/2022	3:55:00 PM	44.6		-	83.9	4.4

Site: Higley						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	4:00:00 PM	40.6		2.9	120.2	5.4
9/2/2022	4:05:00 PM	38.8		-	88.4	6.8
9/2/2022	4:10:00 PM	39.9		-	92.5	5.5
9/2/2022	4:15:00 PM	39.8		-	54.8	4.3
9/2/2022	4:20:00 PM	34.7		-	54.7	2.8
9/2/2022	4:25:00 PM	33.6		-	90.7	2.6
9/2/2022	4:30:00 PM	34.9		-	135.1	2.7
9/2/2022	4:35:00 PM	32.6		-	149.4	5.1
9/2/2022	4:40:00 PM	29.2		-	148	4.8
9/2/2022	4:45:00 PM	31.5		-	179.4	1.8
9/2/2022	4:50:00 PM	32.1		-	267.8	0.8
9/2/2022	4:55:00 PM	27.3		-	58.3	2.5
9/2/2022	5:00:00 PM	24.6		0.9	175.6	4.4
9/2/2022	5:05:00 PM	26.7		-	211.2	3.3
9/2/2022	5:10:00 PM	27.8		-	169.3	4.2
9/2/2022	5:15:00 PM	25		-	190.2	3.6
9/2/2022	5:20:00 PM	24.9		-	238.5	3.8
9/2/2022	5:25:00 PM	28		-	232.4	1.2
9/2/2022	5:30:00 PM	27.5		-	321.7	2.1
9/2/2022	5:35:00 PM	24.7		-	351.1	4.3
9/2/2022	5:40:00 PM	26.1		-	7.7	5.1
9/2/2022	5:45:00 PM	28.6		-	349	4.7
9/2/2022	5:50:00 PM	26.2		-	359	6
9/2/2022	5:55:00 PM	24		-	23	7.2
9/2/2022	6:00:00 PM	25.8		5.5	91.3	12
9/2/2022	6:05:00 PM	26.9		-	78.3	16
9/2/2022	6:10:00 PM	24.4		-	72.9	9.5
9/2/2022	6:15:00 PM	23.9		-	98.5	21.3
9/2/2022	6:20:00 PM	26.4		-	104.4	14.6
9/2/2022	6:25:00 PM	26.6		-	110.4	8.8
9/2/2022	6:30:00 PM	24.1		-	130.5	4.5
9/2/2022	6:35:00 PM	25.1		-	233.7	0.5
9/2/2022	6:40:00 PM	28.4		-	276.5	3.7
9/2/2022	6:45:00 PM	27.8		-	257.2	3.1
9/2/2022	6:50:00 PM	25.1		-	271.7	4.1
9/2/2022	6:55:00 PM	25.5		-	285.8	5.7
9/2/2022	7:00:00 PM	28.6		4.5	291.7	7.6
9/2/2022	7:05:00 PM	27.3		-	283.2	7.2
9/2/2022	7:10:00 PM	25.2		-	284.6	10.2
9/2/2022	7:15:00 PM	26.5		-	290.8	9.8
9/2/2022	7:20:00 PM	28.5		-	289.9	11.3
9/2/2022	7:25:00 PM	27		-	286.5	10.5
9/2/2022	7:30:00 PM	24.9		-	301.3	8.3
9/2/2022	7:35:00 PM	27.4		-	350.3	2.9
9/2/2022	7:40:00 PM	29.7		-	54	10.9
9/2/2022	7:45:00 PM	28		-	59.2	9.6
9/2/2022	7:50:00 PM	25.5		-	59.7	4.7
9/2/2022	7:55:00 PM	27.2		-	58	3.6

Site: Higley						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	8:00:00 PM	31.2		5.1	98	5.9
9/2/2022	8:05:00 PM	32.1		-	84.5	7.8
9/2/2022	8:10:00 PM	32		-	68.4	8.1
9/2/2022	8:15:00 PM	35.8		-	66.5	7
9/2/2022	8:20:00 PM	39.4		-	75.9	5.1
9/2/2022	8:25:00 PM	38.1		-	99.3	5.1
9/2/2022	8:30:00 PM	36		-	86.4	3.1
9/2/2022	8:35:00 PM	40.2		-	98	3.1
9/2/2022	8:40:00 PM	46		-	116.3	5
9/2/2022	8:45:00 PM	44.1		-	120.1	5.7
9/2/2022	8:50:00 PM	40.2		-	118	5.5
9/2/2022	8:55:00 PM	40.8		-	131.1	4.8
9/2/2022	9:00:00 PM	42.4		2.9	130	4.9
9/2/2022	9:05:00 PM	40.7		-	165.8	2.6
9/2/2022	9:10:00 PM	39.8		-	190.9	2.2
9/2/2022	9:15:00 PM	43		-	164.9	0.8
9/2/2022	9:20:00 PM	48.1		-	117.1	1.6
9/2/2022	9:25:00 PM	54.5		-	108.6	3.8
9/2/2022	9:30:00 PM	93.9		-	137.4	3.2
9/2/2022	9:35:00 PM	293.3		-	158.8	2.9
9/2/2022	9:40:00 PM	1169.5		-	161.5	2.9
9/2/2022	9:45:00 PM	2894.2		-	166.4	3.5
9/2/2022	9:50:00 PM	4555		-	166.5	4.5
9/2/2022	9:55:00 PM	5125		-	158.1	5.2
9/2/2022	10:00:00 PM	4617.3		2.5	160.4	5.8
9/2/2022	10:05:00 PM	3766.2		-	167.3	5.6
9/2/2022	10:10:00 PM	2893.5		-	176.5	3.3
9/2/2022	10:15:00 PM	2135.7		-	185	4.3
9/2/2022	10:20:00 PM	1550		-	192.2	3.2
9/2/2022	10:25:00 PM	1107.5		-	158.4	1.8
9/2/2022	10:30:00 PM	786.5		-	166.4	2.2
9/2/2022	10:35:00 PM	555.4		-	187.9	2.2
9/2/2022	10:40:00 PM	388.7		-	182.2	1.6
9/2/2022	10:45:00 PM	274		-	173.7	0.8
9/2/2022	10:50:00 PM	194.5		-	297.4	0.8
9/2/2022	10:55:00 PM	142.3		-	248.8	0
9/2/2022	11:00:00 PM	115.8		2.8	103.4	1.2
9/2/2022	11:05:00 PM	106.6		-	25.8	2
9/2/2022	11:10:00 PM	99		-	49.5	3.1
9/2/2022	11:15:00 PM	77.3		-	28.5	2.1
9/2/2022	11:20:00 PM	68.8		-	25.6	2.6
9/2/2022	11:25:00 PM	50.8		-	17	2.6
9/2/2022	11:30:00 PM	33.1		-	26.2	3.1
9/2/2022	11:35:00 PM	24.1		-	7.8	2.7
9/2/2022	11:40:00 PM	22.1		-	2.8	2.9
9/2/2022	11:45:00 PM	17.4		-	26.8	4.1
9/2/2022	11:50:00 PM	10.6		-	23.8	4.5
9/2/2022	11:55:00 PM	20.4		-	16.4	4.6

Site: Higley						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
	Average	165.357			146.5253472	4.178472222
	Max	5125	0	5.7	359	21.3
	Max Hour	5125	11915.14347	0	0	8.795114208
	Min	10.6	0	0	2.8	0
	Count	288	288	288	288	288
	Total	48290.9	47330.1	1434.2	48078.3	1360

Site: Zuni Hills						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	12:00:00 AM	229	148	11.4	148.2	11.1
9/2/2022	12:05:00 AM	440.1	157.3	9.5	157.5	9.3
9/2/2022	12:10:00 AM	626	153.4	8.2	153	8.1
9/2/2022	12:15:00 AM	764.9	145.2	7	146.3	6.9
9/2/2022	12:20:00 AM	835.9	142.5	7.4	142.5	7.3
9/2/2022	12:25:00 AM	872.8	139.8	5.9	139.7	5.8
9/2/2022	12:30:00 AM	897.9	141.3	5.7	141	5.6
9/2/2022	12:35:00 AM	919.9	156.7	4.6	157.2	4.4
9/2/2022	12:40:00 AM	944.7	190.7	5.2	191.3	5
9/2/2022	12:45:00 AM	991.4	216	6.9	216.1	6.8
9/2/2022	12:50:00 AM	1243.1	178.5	4.6	177.9	4.4
9/2/2022	12:55:00 AM	1663	169.1	5	168.3	4.8
9/2/2022	1:00:00 AM	2065.1	194.2	5.6	194.5	5.5
9/2/2022	1:05:00 AM	2361	205.9	5.4	205.6	5.3
9/2/2022	1:10:00 AM	2623	211.9	6.4	211.7	6.3
9/2/2022	1:15:00 AM	2803.2	207.6	6.4	207.2	6.3
9/2/2022	1:20:00 AM	2791.9	217.7	6.9	217.2	6.8
9/2/2022	1:25:00 AM	2529.9	219.5	6.1	219.7	6
9/2/2022	1:30:00 AM	2128.7	230	7.2	230.1	7.1
9/2/2022	1:35:00 AM	1715.2	226.6	7	227	6.8
9/2/2022	1:40:00 AM	1331.9	218.1	6.8	218.8	6.8
9/2/2022	1:45:00 AM	1019	223.6	5.4	223.8	5.3
9/2/2022	1:50:00 AM	774.9	220.4	4.6	221.2	4.5
9/2/2022	1:55:00 AM	588.6	179.9	4	183.3	3.6
9/2/2022	2:00:00 AM	449.6	122	3.9	121.6	3.7
9/2/2022	2:05:00 AM	350.2	158	2.9	157.2	2.9
9/2/2022	2:10:00 AM	286.7	172.8	3	172.3	3
9/2/2022	2:15:00 AM	239.5	189.5	2.8	189.2	2.7
9/2/2022	2:20:00 AM	206.9	187.2	3.7	187.4	3.7
9/2/2022	2:25:00 AM	185.4	212.4	4.1	212.5	4.1
9/2/2022	2:30:00 AM	171.4	221.5	4.2	221.5	4.2
9/2/2022	2:35:00 AM	161.9	210	3.2	210.2	3.1
9/2/2022	2:40:00 AM	152.7	211.6	2.5	210.9	2.5
9/2/2022	2:45:00 AM	140.7	184.8	1	193.2	0.9
9/2/2022	2:50:00 AM	133.4	117.3	0.1	146.7	0
9/2/2022	2:55:00 AM	127.3	18.1	0.1	15.5	0.1
9/2/2022	3:00:00 AM	124	47.1	0.8	63	0.8
9/2/2022	3:05:00 AM	120.4	67.6	1.7	67.6	1.7
9/2/2022	3:10:00 AM	116.7	61.5	1.7	61.5	1.7
9/2/2022	3:15:00 AM	112	47.5	2	47.3	2
9/2/2022	3:20:00 AM	108.4	64.1	1.8	63.9	1.7
9/2/2022	3:25:00 AM	104.7	68.8	1.7	69.7	1.7
9/2/2022	3:30:00 AM	102	51.8	1.1	49.6	1
9/2/2022	3:35:00 AM	101	82.9	1.4	84	1.3
9/2/2022	3:40:00 AM	103.3	113.4	0.9	112.2	0.9
9/2/2022	3:45:00 AM	105.1	86.5	0.9	85.2	0.9
9/2/2022	3:50:00 AM	105.1	55.2	1	56.5	1
9/2/2022	3:55:00 AM	108.2	327.2	1.6	307.7	1.4

Site: Zuni Hills						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	4:00:00 AM	110.5	302.2	1.8	301.7	1.8
9/2/2022	4:05:00 AM	112.9	323.4	2.5	323.8	2.5
9/2/2022	4:10:00 AM	115.1	327.1	3.9	326.9	3.9
9/2/2022	4:15:00 AM	121.5	338.2	2.8	337.9	2.7
9/2/2022	4:20:00 AM	128.8	345.1	3.1	345.1	3.1
9/2/2022	4:25:00 AM	133.1	348.1	3	348.1	3
9/2/2022	4:30:00 AM	134.6	324.3	3	324.8	2.9
9/2/2022	4:35:00 AM	140.3	319.1	2.9	319.3	2.8
9/2/2022	4:40:00 AM	140.7	325	3.3	324.9	3.3
9/2/2022	4:45:00 AM	142.6	340.3	3.1	339.7	3.1
9/2/2022	4:50:00 AM	139.9	5.5	2.8	5.4	2.7
9/2/2022	4:55:00 AM	131.5	37.2	2.8	33.8	2.7
9/2/2022	5:00:00 AM	116.7	52.1	2.2	51.4	2.1
9/2/2022	5:05:00 AM	101.2	56.2	2	55.9	2
9/2/2022	5:10:00 AM	88	66.2	1.5	67.2	1.5
9/2/2022	5:15:00 AM	77.7	40	0.3	48.9	0.3
9/2/2022	5:20:00 AM	69.6	338.7	1.1	341	1.1
9/2/2022	5:25:00 AM	62.5	29.1	1.5	29	1.5
9/2/2022	5:30:00 AM	56.9	15.9	1.4	17.6	1.4
9/2/2022	5:35:00 AM	54.6	292.8	0.7	262.2	0.6
9/2/2022	5:40:00 AM	52.4	259.6	1.5	258.2	1.4
9/2/2022	5:45:00 AM	51.6	295.9	2.6	296.7	2.6
9/2/2022	5:50:00 AM	51	288	3.1	288.4	3.1
9/2/2022	5:55:00 AM	48.6	288.3	2.8	288.4	2.8
9/2/2022	6:00:00 AM	47.4	303.4	2.8	302.5	2.8
9/2/2022	6:05:00 AM	45.7	312.4	2.3	312.3	2.3
9/2/2022	6:10:00 AM	44.2	303.7	2.2	303.9	2.2
9/2/2022	6:15:00 AM	42.5	321.8	2.2	322.1	2.2
9/2/2022	6:20:00 AM	42.1	335.9	1.9	335.1	1.9
9/2/2022	6:25:00 AM	41.6	336.6	1.5	337.2	1.4
9/2/2022	6:30:00 AM	41.6	294.9	1.7	294	1.7
9/2/2022	6:35:00 AM	42.4	302.3	2	302.4	1.9
9/2/2022	6:40:00 AM	41.9	336.1	2	336.3	2
9/2/2022	6:45:00 AM	42.3	329.7	2.4	329.9	2.3
9/2/2022	6:50:00 AM	45	334.6	2.1	334.4	2.1
9/2/2022	6:55:00 AM	47.9	4.7	2.3	6.2	2.3
9/2/2022	7:00:00 AM	50.2	17.9	2.5	17.5	2.5
9/2/2022	7:05:00 AM	52.4	343.4	2.1	344.1	2
9/2/2022	7:10:00 AM	54.7	314.7	2.7	314.6	2.7
9/2/2022	7:15:00 AM	55	356.2	3.1	355.9	3.1
9/2/2022	7:20:00 AM	55	356.2	3.4	355.9	3.3
9/2/2022	7:25:00 AM	57.2	346.8	3.2	346.3	3.2
9/2/2022	7:30:00 AM	62.1	341.7	3.4	342.1	3.3
9/2/2022	7:35:00 AM	65.6	349.5	4.4	349.4	4.4
9/2/2022	7:40:00 AM	71.1	344	5	344.2	4.9
9/2/2022	7:45:00 AM	75.1	335.7	4.4	335.1	4.3
9/2/2022	7:50:00 AM	81.4	349.6	4.5	349.4	4.5
9/2/2022	7:55:00 AM	86.2	333.6	3.2	332.3	3.1

Site: Zuni Hills						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	8:00:00 AM	91.3	344.5	2.9	341.3	2.7
9/2/2022	8:05:00 AM	92.7	339.4	3.8	339.1	3.7
9/2/2022	8:10:00 AM	87.4	342.9	4.3	343.7	4.2
9/2/2022	8:15:00 AM	78.9	3.9	3.5	3.8	3.2
9/2/2022	8:20:00 AM	70.3	17.8	2.5	16.2	2.4
9/2/2022	8:25:00 AM	62.4	24.2	2.3	35	1.7
9/2/2022	8:30:00 AM	56.9	45.9	2.3	46	2.2
9/2/2022	8:35:00 AM	54.6	347.8	2	350.9	1.8
9/2/2022	8:40:00 AM	53.9	281.3	2.5	261.4	1
9/2/2022	8:45:00 AM	54.5	206.9	1.9	204.8	1.7
9/2/2022	8:50:00 AM	52.8	114.2	1.7	94.3	0.6
9/2/2022	8:55:00 AM	47	120.7	4.3	119.4	4.2
9/2/2022	9:00:00 AM	52.4	135.9	2.5	135.7	2.2
9/2/2022	9:05:00 AM	49	97.6	3.9	97.2	3.7
9/2/2022	9:10:00 AM	39.1	123.8	4.7	124.2	4.4
9/2/2022	9:15:00 AM	35.4	126.3	4.7	125.5	4.5
9/2/2022	9:20:00 AM	33.9	105.3	4.1	109.5	3.6
9/2/2022	9:25:00 AM	35.2	120.9	3.6	116.1	3.4
9/2/2022	9:30:00 AM	30.1	187.7	3.4	188	3.3
9/2/2022	9:35:00 AM	36.6	131.9	5.9	129.4	5.4
9/2/2022	9:40:00 AM	40.4	109.1	6.1	108.8	5.9
9/2/2022	9:45:00 AM	42.2	105.4	5.2	107.8	5
9/2/2022	9:50:00 AM	43.5	134.3	6.7	131.9	6.4
9/2/2022	9:55:00 AM	40.7	105.4	4.2	104.7	4
9/2/2022	10:00:00 AM	39.8	102.9	5.1	100.6	4.8
9/2/2022	10:05:00 AM	42.5	170.2	3	145.3	1.7
9/2/2022	10:10:00 AM	43.9	153.3	3.2	156.7	2.5
9/2/2022	10:15:00 AM	45	154.1	3.4	152.5	3
9/2/2022	10:20:00 AM	44.9	175	6.1	175.4	6
9/2/2022	10:25:00 AM	45.7	152.9	4.5	154.7	4.3
9/2/2022	10:30:00 AM	46.3	151.9	4.5	148.1	4
9/2/2022	10:35:00 AM	47.3	213.6	5.9	219.1	5.7
9/2/2022	10:40:00 AM	46.9	218.8	4.2	218.1	4.1
9/2/2022	10:45:00 AM	46.1	153.2	5.1	140.9	4.1
9/2/2022	10:50:00 AM	42.8	129.1	5.7	126.8	5.4
9/2/2022	10:55:00 AM	39	136.2	4.9	136.6	4.7
9/2/2022	11:00:00 AM	35.1	155.1	6.2	162.1	5.8
9/2/2022	11:05:00 AM	32.4	164.9	5.1	162.4	4.6
9/2/2022	11:10:00 AM	29.2	168.3	4.6	163.6	4.3
9/2/2022	11:15:00 AM	28.1	148.3	5.5	150.1	5.3
9/2/2022	11:20:00 AM	28.3	156.4	3.9	158.3	3
9/2/2022	11:25:00 AM	29.3	154.1	5.1	150.5	4.4
9/2/2022	11:30:00 AM	29.3	165.9	5.1	165.2	5
9/2/2022	11:35:00 AM	29.6	206.9	2.3	165.8	1.8
9/2/2022	11:40:00 AM	31	181.9	4.3	184.7	3.9
9/2/2022	11:45:00 AM	33.8	157.1	7.1	154.6	6.9
9/2/2022	11:50:00 AM	36.1	121	5.2	125.8	4.8
9/2/2022	11:55:00 AM	38.1	159.5	4.2	165.1	3.7

Site: Zuni Hills						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	12:00:00 PM	39.3	210.4	4.1	209.8	3.8
9/2/2022	12:05:00 PM	38.9	247.5	2.4	257.9	1.2
9/2/2022	12:10:00 PM	37.4	170.8	5.2	168.3	5
9/2/2022	12:15:00 PM	35.8	169.3	4.3	170.5	3.9
9/2/2022	12:20:00 PM	35.8	176.1	5	172.4	4
9/2/2022	12:25:00 PM	35.4	116.7	4.6	119.7	3.8
9/2/2022	12:30:00 PM	39.1	161.2	2.2	181.6	1.3
9/2/2022	12:35:00 PM	43.3	220.4	6	213.5	4.8
9/2/2022	12:40:00 PM	44.9	174.1	6.5	175.1	6.3
9/2/2022	12:45:00 PM	44.8	181.4	3.4	183.3	3.3
9/2/2022	12:50:00 PM	47.1	126.9	5.5	125.7	5.3
9/2/2022	12:55:00 PM	50	139.7	3.5	146.8	2.5
9/2/2022	1:00:00 PM	55.2	344	2.1	353.1	1.4
9/2/2022	1:05:00 PM	58.9	203	2.8	212.7	2.1
9/2/2022	1:10:00 PM	68.7	204.8	5	204.7	4.8
9/2/2022	1:15:00 PM	84.7	205.8	5.7	204.4	5.5
9/2/2022	1:20:00 PM	86.8	195.1	4.9	195.9	4.8
9/2/2022	1:25:00 PM	79	153.8	4.6	152.9	4.1
9/2/2022	1:30:00 PM	68.7	136.6	6.8	134.1	6.6
9/2/2022	1:35:00 PM	59.6	105.1	5.2	110.2	4.7
9/2/2022	1:40:00 PM	54.1	107.3	4.6	112.1	4.2
9/2/2022	1:45:00 PM	51.6	197.6	5.3	205.2	3.6
9/2/2022	1:50:00 PM	49.5	171.9	5.3	160.8	4
9/2/2022	1:55:00 PM	44.4	126.7	1.8	136	1.1
9/2/2022	2:00:00 PM	38.8	130	1.6	124	1.3
9/2/2022	2:05:00 PM	36	185.3	4.4	201.3	2.5
9/2/2022	2:10:00 PM	39.5	168	5.5	171.6	4.7
9/2/2022	2:15:00 PM	45.9	167.8	5.5	170.6	5.1
9/2/2022	2:20:00 PM	45.6	133.1	5.9	134.4	5.4
9/2/2022	2:25:00 PM	45.9	112.2	5.7	115.9	5.2
9/2/2022	2:30:00 PM	42.1	87.5	4.6	87.9	4.4
9/2/2022	2:35:00 PM	40.2	133.9	5.1	134.8	4.7
9/2/2022	2:40:00 PM	38.5	178.9	6.6	183.5	6.1
9/2/2022	2:45:00 PM	41.2	179.7	6.7	185	6.4
9/2/2022	2:50:00 PM	43.2	192.6	7.2	193.3	7.1
9/2/2022	2:55:00 PM	44.2	149.6	2.4	157.5	2.1
9/2/2022	3:00:00 PM	42.9	156.6	2	180.7	1.5
9/2/2022	3:05:00 PM	41.7	198.9	7.8	200.3	7.2
9/2/2022	3:10:00 PM	41.2	223.5	8.2	223.4	8.1
9/2/2022	3:15:00 PM	40.3	206	5.2	204.3	5.1
9/2/2022	3:20:00 PM	39.1	98.3	1.2	99.7	0.9
9/2/2022	3:25:00 PM	38.3	211.6	7.1	216.7	6.6
9/2/2022	3:30:00 PM	40.1	198.4	4.5	196.9	4.2
9/2/2022	3:35:00 PM	39.2	199.1	4	214.1	3.4
9/2/2022	3:40:00 PM	38.4	195.9	7.6	196.8	7.3
9/2/2022	3:45:00 PM	37	197.8	8.9	197.9	8.8
9/2/2022	3:50:00 PM	37.5	153.2	6.2	156.5	5.5
9/2/2022	3:55:00 PM	38.2	133.5	2.8	178.1	1.6

Site: Zuni Hills						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	4:00:00 PM	38.2	236.2	5.3	237.4	5
9/2/2022	4:05:00 PM	41.2	162.3	5.8	161.7	5.3
9/2/2022	4:10:00 PM	42.5	173.9	8.9	173.9	8.7
9/2/2022	4:15:00 PM	41.5	158	7.9	157.5	7.8
9/2/2022	4:20:00 PM	41.1	168.1	7.7	170.3	7.2
9/2/2022	4:25:00 PM	40.2	180	7.3	180.6	7.2
9/2/2022	4:30:00 PM	39.1	162.4	5.6	160.9	5.2
9/2/2022	4:35:00 PM	39.5	144.5	5.5	147.9	5
9/2/2022	4:40:00 PM	39.1	137.9	9.1	138.1	8.5
9/2/2022	4:45:00 PM	40.9	118.7	7.5	121.3	7.2
9/2/2022	4:50:00 PM	44.7	130.6	8	132.3	7.5
9/2/2022	4:55:00 PM	50.3	161.3	4.4	166.3	4.3
9/2/2022	5:00:00 PM	50.3	134.7	7.8	135	7.6
9/2/2022	5:05:00 PM	47.4	155.4	5.3	148.7	4.8
9/2/2022	5:10:00 PM	43.6	166.6	5.6	156.9	5
9/2/2022	5:15:00 PM	42.6	157.2	4.4	156.6	4.1
9/2/2022	5:20:00 PM	45.2	217.9	4.6	213.1	4.4
9/2/2022	5:25:00 PM	46.3	166.9	3.6	164.3	3.1
9/2/2022	5:30:00 PM	41.7	177.3	2.9	176.4	2.8
9/2/2022	5:35:00 PM	35.9	328.3	1.5	333.8	1.2
9/2/2022	5:40:00 PM	37.6	295.2	0.3	299.7	0.1
9/2/2022	5:45:00 PM	38.6	192.2	1	191.5	0.9
9/2/2022	5:50:00 PM	41.2	47.3	0.5	344.1	0.4
9/2/2022	5:55:00 PM	42.1	352.1	2.4	352.6	2.3
9/2/2022	6:00:00 PM	41.5	9.3	3.7	5.9	3.3
9/2/2022	6:05:00 PM	42.9	335	6.6	336.6	6.4
9/2/2022	6:10:00 PM	41.9	340.7	7.1	340.4	6.9
9/2/2022	6:15:00 PM	47.7	351.5	8.4	350.9	8.2
9/2/2022	6:20:00 PM	52.5	4.2	8.5	5.1	8.2
9/2/2022	6:25:00 PM	52.8	2.3	10	2.5	9.6
9/2/2022	6:30:00 PM	55.9	355.8	11.8	355.1	11.5
9/2/2022	6:35:00 PM	59.4	351.2	11.4	351.1	11.1
9/2/2022	6:40:00 PM	61.5	353.5	14.4	352.9	14
9/2/2022	6:45:00 PM	61.7	355.6	10.7	355.6	10.4
9/2/2022	6:50:00 PM	56.2	356.6	10.8	356.7	10.5
9/2/2022	6:55:00 PM	47.4	356.3	9.5	356	9.3
9/2/2022	7:00:00 PM	36.5	357.4	9.7	357.6	9.3
9/2/2022	7:05:00 PM	19.8	4.9	10.4	6.1	10
9/2/2022	7:10:00 PM	17	1.3	12.2	0.3	11.8
9/2/2022	7:15:00 PM	24.8	357.8	10.6	357.6	10.4
9/2/2022	7:20:00 PM	29.1	356.2	10.4	355.8	10.1
9/2/2022	7:25:00 PM	28.3	10.4	13.3	12.2	12.9
9/2/2022	7:30:00 PM	43.8	17.7	17.5	18	17.2
9/2/2022	7:35:00 PM	81.9	12.7	15.7	13	15.4
9/2/2022	7:40:00 PM	96.9	12.3	12.9	12.5	12.6
9/2/2022	7:45:00 PM	90.8	8.5	12.3	9.1	12.1
9/2/2022	7:50:00 PM	91	334.2	12.3	334.3	12.2
9/2/2022	7:55:00 PM	92.4	2.8	8.3	2.4	7.8

Site: Zuni Hills						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	8:00:00 PM	80.1	34.3	6.3	29.7	6.1
9/2/2022	8:05:00 PM	66.1	48.6	4.2	45.4	4
9/2/2022	8:10:00 PM	53.5	71.9	3.8	71.5	3.7
9/2/2022	8:15:00 PM	42.4	68.4	5.2	68.1	5.1
9/2/2022	8:20:00 PM	33.9	56.3	6.1	56	5.9
9/2/2022	8:25:00 PM	25.5	40.9	7.6	38.7	7.3
9/2/2022	8:30:00 PM	16.9	30.2	8.3	30	8.1
9/2/2022	8:35:00 PM	11.5	33.8	5.4	33.1	5.2
9/2/2022	8:40:00 PM	9.3	43.6	3.2	42.4	3
9/2/2022	8:45:00 PM	7.1	50	4	47.6	3.8
9/2/2022	8:50:00 PM	6.5	41.7	3.9	40.8	3.7
9/2/2022	8:55:00 PM	7.8	34.1	2.8	29.6	2.7
9/2/2022	9:00:00 PM	7.8	24.2	5.9	23.4	5.7
9/2/2022	9:05:00 PM	7.7	27	3.4	26.9	3.3
9/2/2022	9:10:00 PM	7.4	334.3	0.8	349.2	0.7
9/2/2022	9:15:00 PM	7.7	17.3	5.4	18.4	5.3
9/2/2022	9:20:00 PM	8.4	29.6	9.6	30	9.4
9/2/2022	9:25:00 PM	10.5	34.6	10.7	33.6	10.4
9/2/2022	9:30:00 PM	15.4	40.8	9.3	38	9
9/2/2022	9:35:00 PM	18.7	53.7	5.9	52.5	5.5
9/2/2022	9:40:00 PM	17.8	53	7.5	51.2	7.2
9/2/2022	9:45:00 PM	16.3	47.7	6.5	45.2	6.2
9/2/2022	9:50:00 PM	15.2	35	9.6	34.6	9.4
9/2/2022	9:55:00 PM	13.8	34.2	10.7	33.3	10.5
9/2/2022	10:00:00 PM	14.1	43.6	6.6	41.6	6.3
9/2/2022	10:05:00 PM	14.8	40.7	6.9	39	6.7
9/2/2022	10:10:00 PM	14.6	36.8	7.8	36.2	7.5
9/2/2022	10:15:00 PM	15.1	29.5	10.3	29	10.1
9/2/2022	10:20:00 PM	15.3	23.9	10.3	23.9	10.1
9/2/2022	10:25:00 PM	14.6	18.4	10.6	18.5	10.5
9/2/2022	10:30:00 PM	13.7	20.1	9.2	20.2	9.1
9/2/2022	10:35:00 PM	12.3	17.4	9.7	17.4	9.5
9/2/2022	10:40:00 PM	13	13.4	9.4	13.5	9.2
9/2/2022	10:45:00 PM	13.7	10.7	8.8	10.9	8.6
9/2/2022	10:50:00 PM	13.3	13.8	6.8	13.8	6.7
9/2/2022	10:55:00 PM	13.1	19.9	7.2	19.9	7.1
9/2/2022	11:00:00 PM	12.3	19.3	6.9	20	6.8
9/2/2022	11:05:00 PM	11	12.4	5.5	13	5.3
9/2/2022	11:10:00 PM	10.7	9.6	4.9	10.7	4.7
9/2/2022	11:15:00 PM	10.6	356	3.4	355.2	3.3
9/2/2022	11:20:00 PM	11.5	0.3	4.1	359.3	4
9/2/2022	11:25:00 PM	13.2	5.4	3.5	5	3.5
9/2/2022	11:30:00 PM	14.4	29.2	3.3	27.1	3.1
9/2/2022	11:35:00 PM	14.8	54.9	3.1	54.2	3
9/2/2022	11:40:00 PM	15.1	86.9	3.1	85.5	2.9
9/2/2022	11:45:00 PM	17.1	66.9	1.5	67.8	1.4
9/2/2022	11:50:00 PM	16.3	60.2	1.5	63.1	1.4
9/2/2022	11:55:00 PM	14.2	84.7	1.3	101.2	0.8

Site: Zuni Hills						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
	Average	167.6	86	4.9	70.5	0.8
	Max	2803.2	357.8	17.5	359.3	17.2
	Max Hour	188001	11915.14347	8.902728901	11995.71213	8.795114208
	Min	6.5	0.3	0.1	0.3	0
	Count	288	288	288	288	288
	Total	48290.9	47330.1	1434.2	48078.3	1360

Site: Dysart						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	12:00:00 AM	799.8	148.7	8.1	148.4	7.9
9/2/2022	12:05:00 AM	1878.1	152.8	8.4	152.5	8.2
9/2/2022	12:10:00 AM	2642.1	150.1	8	149.7	7.8
9/2/2022	12:15:00 AM	3198.5	150.5	6.4	150.5	6.3
9/2/2022	12:20:00 AM	3617.6	140.2	6.6	140.4	6.4
9/2/2022	12:25:00 AM	3889.3	154.8	5.8	155.7	5.7
9/2/2022	12:30:00 AM	3996.9	177.2	6.4	177.2	6.1
9/2/2022	12:35:00 AM	3892	194.6	5.4	193.3	5.3
9/2/2022	12:40:00 AM	3517.9	189.3	6.3	188.9	6.1
9/2/2022	12:45:00 AM	2963	182.5	6	183.1	5.8
9/2/2022	12:50:00 AM	2405.5	178.7	5.3	182.2	5.1
9/2/2022	12:55:00 AM	1947.8	193.4	4.4	195.5	4
9/2/2022	1:00:00 AM	1635.8	200.8	4.2	202.8	3.9
9/2/2022	1:05:00 AM	1387.7	183.3	5.9	184.6	5.8
9/2/2022	1:10:00 AM	1146.3	179.9	5.5	179.7	5.3
9/2/2022	1:15:00 AM	929	171.9	6.6	172.6	6.4
9/2/2022	1:20:00 AM	744.3	180.5	8	180.6	7.8
9/2/2022	1:25:00 AM	586.5	174.8	7.5	175.3	7.3
9/2/2022	1:30:00 AM	463.3	188.8	7.1	188.8	7
9/2/2022	1:35:00 AM	372	193.5	6.1	193	6
9/2/2022	1:40:00 AM	293.4	192.7	5.3	192.8	5.2
9/2/2022	1:45:00 AM	233.6	205	5.1	205.6	5
9/2/2022	1:50:00 AM	201.1	200.3	4.4	200	4.3
9/2/2022	1:55:00 AM	171.8	186.9	4.1	188.6	3.9
9/2/2022	2:00:00 AM	146.6	192.8	4.9	193.3	4.8
9/2/2022	2:05:00 AM	136.4	188.1	5	188	4.9
9/2/2022	2:10:00 AM	124.2	144.8	4.9	142.5	4.6
9/2/2022	2:15:00 AM	111.8	130.5	4.6	130.5	4.6
9/2/2022	2:20:00 AM	112.6	114.1	4.5	114.8	4.3
9/2/2022	2:25:00 AM	111.2	113	4.2	113.3	4.1
9/2/2022	2:30:00 AM	103.8	115.4	3.2	115.6	3.2
9/2/2022	2:35:00 AM	105.5	102	2.6	103.3	2.5
9/2/2022	2:40:00 AM	108.3	80.9	2.5	80.7	2.3
9/2/2022	2:45:00 AM	105.5	60.2	3.7	60	3.6
9/2/2022	2:50:00 AM	113.4	63.8	3.4	63.3	3.3
9/2/2022	2:55:00 AM	124.6	63.8	4.3	63.8	4.2
9/2/2022	3:00:00 AM	126.3	63.1	3.6	63.2	3.6
9/2/2022	3:05:00 AM	124.6	60.4	2.6	60.5	2.5
9/2/2022	3:10:00 AM	130.6	62.8	1.7	61.5	1.6
9/2/2022	3:15:00 AM	128.2	63.1	2.3	63.9	2.2
9/2/2022	3:20:00 AM	119.3	69.5	2.1	69	2.1
9/2/2022	3:25:00 AM	116.9	121.6	1.8	126	1.5
9/2/2022	3:30:00 AM	114.4	162.7	2.7	162.6	2.6
9/2/2022	3:35:00 AM	105	135.3	1.6	140	1.5
9/2/2022	3:40:00 AM	95.6	50	0.3	63.7	0.3
9/2/2022	3:45:00 AM	91.8	21.1	0.4	11.2	0.3
9/2/2022	3:50:00 AM	79.8	40.5	0.7	33.9	0.6
9/2/2022	3:55:00 AM	67.5	30.9	0.3	29.5	0.3

Site: Dysart						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	4:00:00 AM	67.3	345.3	0.6	344.2	0.6
9/2/2022	4:05:00 AM	67.4	328.1	1.4	328.7	1.4
9/2/2022	4:10:00 AM	66.9	357	1.3	0.6	1.1
9/2/2022	4:15:00 AM	72.9	3.1	2.5	2.6	2.4
9/2/2022	4:20:00 AM	76.3	17.5	1.3	18.5	1.2
9/2/2022	4:25:00 AM	70.9	11.5	1.3	10	1.2
9/2/2022	4:30:00 AM	69.1	326.2	1.7	320.8	1.6
9/2/2022	4:35:00 AM	76.1	294.2	1.4	293.7	1.4
9/2/2022	4:40:00 AM	76.4	307.2	1.1	307	1.1
9/2/2022	4:45:00 AM	77.7	309.7	2.5	310	2.5
9/2/2022	4:50:00 AM	86.8	311.9	2.9	311.8	2.8
9/2/2022	4:55:00 AM	90	307.4	2.7	307.9	2.7
9/2/2022	5:00:00 AM	92.5	235	1.3	232.7	0.9
9/2/2022	5:05:00 AM	101.9	165.8	3.3	165.8	3.2
9/2/2022	5:10:00 AM	100.4	205	1	192.1	0.9
9/2/2022	5:15:00 AM	95.5	261.9	1.9	261.8	1.9
9/2/2022	5:20:00 AM	100.3	275.7	2.8	275.9	2.7
9/2/2022	5:25:00 AM	100.4	275.5	1.9	275.6	1.9
9/2/2022	5:30:00 AM	98	254.9	1.2	262.1	1.1
9/2/2022	5:35:00 AM	102.1	228	1.4	227.9	1.4
9/2/2022	5:40:00 AM	108.6	232.9	0.9	233.6	0.9
9/2/2022	5:45:00 AM	106.5	266.7	0.9	265.6	0.8
9/2/2022	5:50:00 AM	106.1	278.9	1.8	278.8	1.8
9/2/2022	5:55:00 AM	113.5	302.7	0.8	301.6	0.7
9/2/2022	6:00:00 AM	113.4	327.4	2.1	327.9	2.1
9/2/2022	6:05:00 AM	116.3	325.9	2.5	326	2.5
9/2/2022	6:10:00 AM	130.2	328.2	3	328.3	3
9/2/2022	6:15:00 AM	133.8	314.6	3.2	314.6	3.1
9/2/2022	6:20:00 AM	138.4	302.5	2.7	304	2.7
9/2/2022	6:25:00 AM	147.5	310.4	3.3	310.1	3.3
9/2/2022	6:30:00 AM	159.7	310.9	2.6	310.4	2.5
9/2/2022	6:35:00 AM	162.8	325.4	2.2	325.4	2.1
9/2/2022	6:40:00 AM	160.9	334.3	2	338.1	1.9
9/2/2022	6:45:00 AM	166.4	335.7	1.5	333.5	1.4
9/2/2022	6:50:00 AM	160.3	322	1.3	323.2	1.2
9/2/2022	6:55:00 AM	145.3	330.1	2.2	331.1	2.2
9/2/2022	7:00:00 AM	138.1	324.2	2.1	325.3	2
9/2/2022	7:05:00 AM	129	303.4	1.9	304	1.8
9/2/2022	7:10:00 AM	117.8	313.1	1.7	316.5	1.6
9/2/2022	7:15:00 AM	119.5	310.3	1.9	311.3	1.8
9/2/2022	7:20:00 AM	118	297.8	2.4	296.1	2.3
9/2/2022	7:25:00 AM	110.5	302.7	3.6	302.8	3.6
9/2/2022	7:30:00 AM	112.6	301.8	4.9	301.4	4.8
9/2/2022	7:35:00 AM	114.3	304.8	4.4	304.2	4.3
9/2/2022	7:40:00 AM	107.9	301.8	4.6	301.2	4.5
9/2/2022	7:45:00 AM	108.2	296.7	5.4	297	5.4
9/2/2022	7:50:00 AM	105.8	298.5	5.4	298.6	5.3
9/2/2022	7:55:00 AM	95.2	318	5	318.4	5

Site: Dysart						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	8:00:00 AM	88.1	321.9	5.4	321.8	5.3
9/2/2022	8:05:00 AM	92.9	309	4.9	309.1	4.8
9/2/2022	8:10:00 AM	87.7	339.5	3.7	335.5	3.5
9/2/2022	8:15:00 AM	86.3	346.1	3.7	344.3	3.4
9/2/2022	8:20:00 AM	87.7	330.4	4.1	332.9	3.8
9/2/2022	8:25:00 AM	85.7	358.2	2.5	342.1	2.3
9/2/2022	8:30:00 AM	93.2	335.1	2.4	337.4	2.1
9/2/2022	8:35:00 AM	95.9	1.8	2.8	9.5	2.4
9/2/2022	8:40:00 AM	88.2	350.1	2.3	348.6	2.2
9/2/2022	8:45:00 AM	86.7	270.1	1.4	268.5	1.2
9/2/2022	8:50:00 AM	88.8	19.2	1	27.1	0.8
9/2/2022	8:55:00 AM	80.5	91.5	1.3	37	0.7
9/2/2022	9:00:00 AM	77.4	19.4	2.1	19.3	1.8
9/2/2022	9:05:00 AM	80.2	12.9	2.2	12.5	2
9/2/2022	9:10:00 AM	73.8	355.8	1.8	4.1	1.6
9/2/2022	9:15:00 AM	74.7	132.8	2	162.5	1.8
9/2/2022	9:20:00 AM	77.5	171	4.6	173	4.5
9/2/2022	9:25:00 AM	71.9	179.5	2.9	177.6	2.8
9/2/2022	9:30:00 AM	72.4	122.6	1.9	131.4	1.7
9/2/2022	9:35:00 AM	66.9	267.4	1.5	193.1	0.5
9/2/2022	9:40:00 AM	57.6	205.8	2.7	188.7	2.4
9/2/2022	9:45:00 AM	61.4	125.7	3.4	129	3.2
9/2/2022	9:50:00 AM	59.2	195.7	2.5	174.3	1.8
9/2/2022	9:55:00 AM	53.9	185.6	2.3	171	1.8
9/2/2022	10:00:00 AM	61.6	211.1	3.6	198.7	3.1
9/2/2022	10:05:00 AM	65.7	136.1	5.3	132	5.2
9/2/2022	10:10:00 AM	72.5	115.1	3.3	110	3
9/2/2022	10:15:00 AM	74.1	93.9	4.5	88.2	3.8
9/2/2022	10:20:00 AM	64.1	98.6	2.8	86.1	2.3
9/2/2022	10:25:00 AM	62.4	131.2	3.5	122.2	2.9
9/2/2022	10:30:00 AM	61	106.6	4.5	108.6	4.2
9/2/2022	10:35:00 AM	52.9	110.2	4.2	104.5	3.3
9/2/2022	10:40:00 AM	56.8	150.7	6.3	143.6	5.5
9/2/2022	10:45:00 AM	60	157.8	4.6	159.8	4.2
9/2/2022	10:50:00 AM	57.3	126.8	5.1	132.5	4.7
9/2/2022	10:55:00 AM	62.7	116.4	4.2	118.9	3.9
9/2/2022	11:00:00 AM	56.3	98	3.7	99.2	3.2
9/2/2022	11:05:00 AM	51.5	181	3.8	183.5	2.7
9/2/2022	11:10:00 AM	57.2	171.4	4.7	174.8	4.2
9/2/2022	11:15:00 AM	54.8	171.3	5.4	172.1	5.1
9/2/2022	11:20:00 AM	57	140.1	3.6	137.5	3.1
9/2/2022	11:25:00 AM	58.1	148.7	2.3	170.6	2
9/2/2022	11:30:00 AM	51.3	214.1	2.8	190.9	1.8
9/2/2022	11:35:00 AM	53.2	172.3	5.3	166.7	4.9
9/2/2022	11:40:00 AM	57.8	217.1	4.6	208.9	4
9/2/2022	11:45:00 AM	52.9	164	3.3	152.9	2.6
9/2/2022	11:50:00 AM	57.5	210.7	4.2	206.1	3.8
9/2/2022	11:55:00 AM	58.5	201.2	3.3	224.6	2.8

Site: Dysart						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	12:00:00 PM	54.9	270.7	2.1	259.2	1.5
9/2/2022	12:05:00 PM	61.2	312.8	3.2	316.9	2.5
9/2/2022	12:10:00 PM	58.1	167.6	2.1	166.7	1.6
9/2/2022	12:15:00 PM	52.6	158.2	4.8	160.7	3.7
9/2/2022	12:20:00 PM	57.8	144.7	4.2	145.5	4
9/2/2022	12:25:00 PM	54.8	147.7	5.2	147.2	4.8
9/2/2022	12:30:00 PM	56.1	195.6	4.4	189.2	3.8
9/2/2022	12:35:00 PM	57.1	264.3	2.1	253.8	1.7
9/2/2022	12:40:00 PM	48.3	250.2	3.8	245.2	3.1
9/2/2022	12:45:00 PM	53.1	239.4	5.1	243.1	4.5
9/2/2022	12:50:00 PM	53.9	268.5	4.5	271.2	4.3
9/2/2022	12:55:00 PM	47.3	301.6	6.2	300.4	5.9
9/2/2022	1:00:00 PM	55.8	273.4	3.7	286.1	3.3
9/2/2022	1:05:00 PM	58.5	280.5	2.3	287.8	1.7
9/2/2022	1:10:00 PM	51.9	295.8	3.1	303.7	2.4
9/2/2022	1:15:00 PM	56.6	283.6	5.4	283.3	5.2
9/2/2022	1:20:00 PM	54.2	299	4.7	299.1	4.6
9/2/2022	1:25:00 PM	47.4	307.4	4.8	309.4	4.2
9/2/2022	1:30:00 PM	53.2	335.7	4.1	337.9	3.9
9/2/2022	1:35:00 PM	54.8	316.4	3.2	318.4	3
9/2/2022	1:40:00 PM	50.8	255.6	4.1	254.6	3.8
9/2/2022	1:45:00 PM	57.8	248	4.4	249.9	3.9
9/2/2022	1:50:00 PM	53.7	293.7	4.1	278.6	3.4
9/2/2022	1:55:00 PM	50.8	329.2	5.2	328.9	5
9/2/2022	2:00:00 PM	56.1	285.5	5.4	285.8	4.8
9/2/2022	2:05:00 PM	50.3	290.3	3	279.3	2.6
9/2/2022	2:10:00 PM	47.4	262.4	3.2	263.4	2.7
9/2/2022	2:15:00 PM	49.6	299	5.9	295.3	5.4
9/2/2022	2:20:00 PM	42.4	312.1	3.1	317.1	2.8
9/2/2022	2:25:00 PM	42.2	36.9	3	34.9	2.7
9/2/2022	2:30:00 PM	46.1	351.3	4.5	340.3	3.2
9/2/2022	2:35:00 PM	39.1	348.4	6.4	347.7	6.2
9/2/2022	2:40:00 PM	35.7	298.5	3.3	310.6	2.3
9/2/2022	2:45:00 PM	46.4	165.1	4.9	161.6	4.6
9/2/2022	2:50:00 PM	44.9	202.4	5.8	200.3	4.9
9/2/2022	2:55:00 PM	42.2	283	5.8	279.8	5.5
9/2/2022	3:00:00 PM	46.7	305.2	4.7	299.2	4.2
9/2/2022	3:05:00 PM	40	319.9	3.2	311.3	2.6
9/2/2022	3:10:00 PM	36.1	310.9	2.7	314.6	2.4
9/2/2022	3:15:00 PM	42.2	248.1	4.4	243.7	3.8
9/2/2022	3:20:00 PM	37.7	214.4	3.1	206.4	1.8
9/2/2022	3:25:00 PM	36.7	162.8	4.4	165.1	4.1
9/2/2022	3:30:00 PM	47.1	182.4	7	181.7	6.7
9/2/2022	3:35:00 PM	44.9	245.9	3.7	246.2	3.3
9/2/2022	3:40:00 PM	44.4	180	5.6	179.7	5.3
9/2/2022	3:45:00 PM	49	181.7	4.7	187.7	4.4
9/2/2022	3:50:00 PM	42.2	171.2	4.5	175.2	4
9/2/2022	3:55:00 PM	43.7	163.1	5.5	161.1	5.1

Site: Dysart						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	4:00:00 PM	51.1	157.4	6.1	156.9	5.9
9/2/2022	4:05:00 PM	45.7	174.6	7.5	176.3	7
9/2/2022	4:10:00 PM	50	152.2	5.4	150.5	5.2
9/2/2022	4:15:00 PM	58.1	149.2	6.3	148.6	6
9/2/2022	4:20:00 PM	53.9	171	5.2	171.8	4.9
9/2/2022	4:25:00 PM	57.4	207.6	5.1	208.6	4.6
9/2/2022	4:30:00 PM	56.6	183.5	7.5	183.2	7.2
9/2/2022	4:35:00 PM	48.7	168.1	8.1	170	7.9
9/2/2022	4:40:00 PM	54.2	184.5	7.7	184.9	7.5
9/2/2022	4:45:00 PM	51.3	156	5.7	152.6	5.5
9/2/2022	4:50:00 PM	44.4	146.8	6.3	143.4	6.1
9/2/2022	4:55:00 PM	47.3	154.7	6.3	150.4	5.8
9/2/2022	5:00:00 PM	40.5	149.2	6.1	149.8	5.8
9/2/2022	5:05:00 PM	37	163.5	3.2	157	2.8
9/2/2022	5:10:00 PM	42.1	115.8	4	114.1	3.8
9/2/2022	5:15:00 PM	36.4	114.7	3.8	116.8	3.6
9/2/2022	5:20:00 PM	33.5	57.8	1.3	80.9	0.9
9/2/2022	5:25:00 PM	35.5	176	4.6	176	4.4
9/2/2022	5:30:00 PM	29.5	173.3	5.7	172.5	5.6
9/2/2022	5:35:00 PM	32.2	129.4	4.3	131.5	3.9
9/2/2022	5:40:00 PM	35.6	93.9	2.8	94.4	2.7
9/2/2022	5:45:00 PM	27.9	84.3	2.8	82.7	2.7
9/2/2022	5:50:00 PM	33.2	61.1	3.9	58.5	3.7
9/2/2022	5:55:00 PM	36.2	45.3	2.2	30	1.3
9/2/2022	6:00:00 PM	27.8	289.9	2	293.7	1.8
9/2/2022	6:05:00 PM	31.6	6.7	3.1	30.5	2.8
9/2/2022	6:10:00 PM	34.7	9.1	3.1	8.2	3
9/2/2022	6:15:00 PM	28.7	312.6	2.8	307.8	2.5
9/2/2022	6:20:00 PM	34	332.2	6.5	332.9	6.4
9/2/2022	6:25:00 PM	35.8	358	7.6	357.5	7.3
9/2/2022	6:30:00 PM	33.3	2.6	6.8	3.3	6.5
9/2/2022	6:35:00 PM	44.5	354.9	9.3	354.7	9
9/2/2022	6:40:00 PM	53.8	352.3	11.4	352.3	11.1
9/2/2022	6:45:00 PM	66.5	354.1	12.1	353.5	11.8
9/2/2022	6:50:00 PM	78.8	357.6	11.2	356.5	10.8
9/2/2022	6:55:00 PM	72.1	351.2	10.4	350.7	10.2
9/2/2022	7:00:00 PM	61.5	354.1	8.7	353.9	8.5
9/2/2022	7:05:00 PM	55.3	356.9	8.8	356.9	8.5
9/2/2022	7:10:00 PM	39.5	358.8	8.9	359.2	8.7
9/2/2022	7:15:00 PM	30.4	356.3	7.8	356	7.5
9/2/2022	7:20:00 PM	24.9	5.1	9.6	4.9	9.2
9/2/2022	7:25:00 PM	11.4	348.9	8.2	348	7.9
9/2/2022	7:30:00 PM	8.3	7.3	9.7	7.3	9.4
9/2/2022	7:35:00 PM	12.2	17	12.2	17.2	11.9
9/2/2022	7:40:00 PM	14.7	29.5	12.5	30	12.2
9/2/2022	7:45:00 PM	29.1	10.8	10.5	11.9	10
9/2/2022	7:50:00 PM	54.4	353.1	9.4	353.6	9
9/2/2022	7:55:00 PM	54.2	328.5	9	328.8	8.7

Site: Dysart						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
9/2/2022	8:00:00 PM	49.1	303.4	7.9	303.8	7.8
9/2/2022	8:05:00 PM	45.6	345.1	3.9	340.2	3.4
9/2/2022	8:10:00 PM	35.8	48.7	5.6	51.9	5.4
9/2/2022	8:15:00 PM	32	68.3	5.2	65.2	5.1
9/2/2022	8:20:00 PM	44.2	80.4	3.8	76.8	3.7
9/2/2022	8:25:00 PM	43.4	84.2	2.9	81.9	2.7
9/2/2022	8:30:00 PM	39.9	77.2	3.9	73.6	3.5
9/2/2022	8:35:00 PM	41.4	32.7	2.5	39.9	2.2
9/2/2022	8:40:00 PM	36.7	47.8	4.9	47	4.8
9/2/2022	8:45:00 PM	31.7	46.5	6	45.8	5.9
9/2/2022	8:50:00 PM	32.6	19.7	4.5	21.3	4.4
9/2/2022	8:55:00 PM	25.7	347.4	4.3	347.2	4.2
9/2/2022	9:00:00 PM	19.2	9.1	4.6	10.4	4.5
9/2/2022	9:05:00 PM	20.2	16.6	7.4	16.6	7.3
9/2/2022	9:10:00 PM	13.2	13.1	7.9	13.6	7.8
9/2/2022	9:15:00 PM	5.5	0.9	4.7	2.1	4.5
9/2/2022	9:20:00 PM	11.6	36	2.7	34.4	2.4
9/2/2022	9:25:00 PM	13.4	48.8	2.7	44.5	2.5
9/2/2022	9:30:00 PM	9.4	80.6	2.3	79.6	2.2
9/2/2022	9:35:00 PM	13.8	59.2	4.9	58.9	4.7
9/2/2022	9:40:00 PM	14	31.4	6.4	32.2	6.2
9/2/2022	9:45:00 PM	9.8	32.3	6.7	34.2	6.5
9/2/2022	9:50:00 PM	13.9	48.9	5.8	48.5	5.7
9/2/2022	9:55:00 PM	20.1	60.5	4.9	58.9	4.8
9/2/2022	10:00:00 PM	16.2	53	5.2	51.2	5
9/2/2022	10:05:00 PM	15	25	5.6	26.1	5.4
9/2/2022	10:10:00 PM	19	25.4	6.4	25.9	6.1
9/2/2022	10:15:00 PM	15	29	6.4	29.6	6.2
9/2/2022	10:20:00 PM	10.2	26.1	6.5	26.5	6.3
9/2/2022	10:25:00 PM	14.9	21.5	5.5	20.9	5.4
9/2/2022	10:30:00 PM	17.9	18.4	4.6	18.5	4.5
9/2/2022	10:35:00 PM	13.9	9.4	4.8	10.8	4.6
9/2/2022	10:40:00 PM	20	352.2	4.9	351.8	4.7
9/2/2022	10:45:00 PM	22.8	4.5	5.6	3.5	5.4
9/2/2022	10:50:00 PM	18.7	10	5	11.7	4.8
9/2/2022	10:55:00 PM	19.8	2.9	4.9	2.6	4.8
9/2/2022	11:00:00 PM	21.4	1.7	4.6	1.6	4.5
9/2/2022	11:05:00 PM	17.7	356.5	4.4	356.2	4.3
9/2/2022	11:10:00 PM	22.7	12.5	2.6	13	2.5
9/2/2022	11:15:00 PM	24.6	340	0.9	326.8	0.8
9/2/2022	11:20:00 PM	19.5	305.4	1.7	305.8	1.6
9/2/2022	11:25:00 PM	19.7	293.7	2	291	2
9/2/2022	11:30:00 PM	21.4	259.2	1.4	257.8	1.4
9/2/2022	11:35:00 PM	17	237.4	2.9	236.4	2.8
9/2/2022	11:40:00 PM	18.6	263.3	2.4	263.4	2.3
9/2/2022	11:45:00 PM	18.3	242.3	1.8	247.1	1.6
9/2/2022	11:50:00 PM	12.8	212.3	1.7	202.6	1.6
9/2/2022	11:55:00 PM	16.3	235.2	0.9	236	0.8

Site: Dysart						
Date	Time	PM_{10} ($\mu g/m_3$)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
	Average	206.7	329	4.2	8.5	0.3
	Max	3996.9	358.8	12.5	359.2	12.2
	Max Hour	379001	12424.33415	5.303559693	12404.69484	5.237909287
	Min	5.5	0.9	0.3	0.6	0.3
	Count	288	288	288	288	288
	Total	59543.7	54968.9	1228.1	54018.6	1153.7
	Date Printed:		9/30/2024 11:13			

Site: West 43rd Avenue						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	12:00:00 AM	51.2	255.5	3.1	255.7	3.1
7/21/2023	12:05:00 AM	52.3	258.6	2.2	258.1	2.2
7/21/2023	12:10:00 AM	52.1	287	1.1	285.8	1.1
7/21/2023	12:15:00 AM	51.1	287.6	1.1	287.5	1.1
7/21/2023	12:20:00 AM	50.4	255.8	1.3	256.3	1.2
7/21/2023	12:25:00 AM	45	259.5	1.6	260	1.6
7/21/2023	12:30:00 AM	40.4	252.6	1.5	250.6	1.5
7/21/2023	12:35:00 AM	42.1	301.5	0	305.1	0.6
7/21/2023	12:40:00 AM	41.1	325.8	1.8	326.6	1.8
7/21/2023	12:45:00 AM	40	7.9	2	8.3	1.9
7/21/2023	12:50:00 AM	40.4	11.2	1.7	12.5	1.6
7/21/2023	12:55:00 AM	44.1	334	1.7	334.3	1.7
7/21/2023	1:00:00 AM	47.6	343.3	2.4	343.3	2.4
7/21/2023	1:05:00 AM	48	331.7	2.6	331.3	2.6
7/21/2023	1:10:00 AM	49.2	331	2.9	330.9	2.9
7/21/2023	1:15:00 AM	52	316.5	3	316.7	3
7/21/2023	1:20:00 AM	55	301.3	3.1	301.2	3.1
7/21/2023	1:25:00 AM	56.4	295.1	2.8	295.2	2.8
7/21/2023	1:30:00 AM	57.4	291.5	3	291.4	3
7/21/2023	1:35:00 AM	57.7	281.9	3.5	282.1	3.5
7/21/2023	1:40:00 AM	56.8	282.2	4.3	282.3	4.2
7/21/2023	1:45:00 AM	54.4	278.8	3.7	279	3.7
7/21/2023	1:50:00 AM	50.8	265.1	2.7	266.4	2.7
7/21/2023	1:55:00 AM	45.2	233.1	2.1	233.3	2
7/21/2023	2:00:00 AM	49.9	218.9	1.8	219.1	1.8
7/21/2023	2:05:00 AM	70.6	227.9	2.9	228.8	2.9
7/21/2023	2:10:00 AM	74.3	238.6	3.4	238.7	3.4
7/21/2023	2:15:00 AM	62.1	234.3	3.7	234.3	3.7
7/21/2023	2:20:00 AM	53.2	240	3.1	240.3	3.1
7/21/2023	2:25:00 AM	49.2	240	2.6	240.3	2.5
7/21/2023	2:30:00 AM	56.4	248.5	2.1	248.8	2.1
7/21/2023	2:35:00 AM	70.9	232.4	1.9	233	1.8
7/21/2023	2:40:00 AM	86.3	198	2.1	199.6	2
7/21/2023	2:45:00 AM	85.6	195.2	1.3	194.3	1.3
7/21/2023	2:50:00 AM	79.3	176.6	1	178.2	0.9
7/21/2023	2:55:00 AM	71.7	170	1	171.7	0.9
7/21/2023	3:00:00 AM	64.1	227.6	1.3	228.9	1.3
7/21/2023	3:05:00 AM	56.5	244	2.3	243.5	2.2
7/21/2023	3:10:00 AM	60	249.8	3.3	249.9	3.2
7/21/2023	3:15:00 AM	76.4	260.3	3.7	260.5	3.7
7/21/2023	3:20:00 AM	82.8	262.4	4.2	262.5	4.2
7/21/2023	3:25:00 AM	74.2	260.8	4.3	260.8	4.3
7/21/2023	3:30:00 AM	61.9	262.4	4.4	262.6	4.4
7/21/2023	3:35:00 AM	54.1	256.6	3.7	256.7	3.6
7/21/2023	3:40:00 AM	54.9	242	2.5	242.7	2.5
7/21/2023	3:45:00 AM	57.4	201.3	0	204.3	0.7
7/21/2023	3:50:00 AM	68.9	151.5	0	157.7	0.4
7/21/2023	3:55:00 AM	100.1	202.4	0	192.9	0.4
7/21/2023	4:00:00 AM	106.3	44.1	1.7	43	1.6
7/21/2023	4:05:00 AM	104.1	37.9	2.7	37.6	2.7
7/21/2023	4:10:00 AM	105	50.6	3.1	50.7	3
7/21/2023	4:15:00 AM	107.4	27.2	1.8	33.5	1.7
7/21/2023	4:20:00 AM	102.2	286	2.9	277.4	2.7

Site: West 43rd Avenue						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	4:25:00 AM	98.7	240	6.3	240.1	6.1
7/21/2023	4:30:00 AM	120.5	241.6	13.3	241.5	13.1
7/21/2023	4:35:00 AM	192.6	241.1	11.4	241.3	11.3
7/21/2023	4:40:00 AM	285.3	243.2	9.2	243	9.1
7/21/2023	4:45:00 AM	330.3	243.6	9.2	243.5	9
7/21/2023	4:50:00 AM	343.1	252.5	12.7	252.7	12.5
7/21/2023	4:55:00 AM	359	256.1	14.2	256.3	14
7/21/2023	5:00:00 AM	388	253.2	16.7	253.1	16.5
7/21/2023	5:05:00 AM	439.9	257.4	13.3	257.4	13
7/21/2023	5:10:00 AM	456.6	262.8	12.9	263.2	12.8
7/21/2023	5:15:00 AM	445.8	269.6	14.1	269.8	13.9
7/21/2023	5:20:00 AM	424.9	272.8	13.5	272.8	13.4
7/21/2023	5:25:00 AM	398.4	271.7	14.1	272	13.9
7/21/2023	5:30:00 AM	383.8	269.2	14.9	269.5	14.8
7/21/2023	5:35:00 AM	376.8	267.2	14.5	267.5	14.3
7/21/2023	5:40:00 AM	378.4	268.7	14.4	268.8	14.2
7/21/2023	5:45:00 AM	377.4	268.8	14.3	269.2	14.2
7/21/2023	5:50:00 AM	374.2	269.1	14.9	269.5	14.8
7/21/2023	5:55:00 AM	372.6	268.8	15.7	269	15.6
7/21/2023	6:00:00 AM	373	263.6	15.7	263.9	15.5
7/21/2023	6:05:00 AM	394.8	265.9	16	266.1	15.9
7/21/2023	6:10:00 AM	425.4	263.3	17	263.5	16.8
7/21/2023	6:15:00 AM	476.6	268.2	17.8	268.3	17.6
7/21/2023	6:20:00 AM	509.8	267.1	16	267.6	15.8
7/21/2023	6:25:00 AM	495.2	270.1	14.5	270.3	14.3
7/21/2023	6:30:00 AM	463	270.6	14.4	271	14.3
7/21/2023	6:35:00 AM	425.7	264.2	12.3	264.1	12
7/21/2023	6:40:00 AM	393.9	274.9	12.9	275	12.8
7/21/2023	6:45:00 AM	370.7	267	11.7	267.3	11.5
7/21/2023	6:50:00 AM	353	270.9	13	271	12.9
7/21/2023	6:55:00 AM	336.3	268.2	13.3	268.3	13.1
7/21/2023	7:00:00 AM	320.1	270.7	13	270.8	12.9
7/21/2023	7:05:00 AM	311.2	271.5	13.4	271.8	13.3
7/21/2023	7:10:00 AM	300.8	272.9	14.3	273.3	14.2
7/21/2023	7:15:00 AM	291.7	274.5	14.4	274.7	14.3
7/21/2023	7:20:00 AM	284.7	277.3	12.8	277.5	12.6
7/21/2023	7:25:00 AM	273.5	273.3	14	273.8	13.8
7/21/2023	7:30:00 AM	261.9	273.7	14	273.7	13.8
7/21/2023	7:35:00 AM	252.2	274	15.1	274.4	14.9
7/21/2023	7:40:00 AM	240.2	273.2	13.7	273.7	13.6
7/21/2023	7:45:00 AM	224.5	272.5	13	272.2	12.8
7/21/2023	7:50:00 AM	212.2	279.1	13.2	279	13
7/21/2023	7:55:00 AM	203.8	274.4	13.2	274.3	13.1
7/21/2023	8:00:00 AM	198.8	279.8	12.5	279.6	12.4
7/21/2023	8:05:00 AM	190.1	279.2	12.3	279.6	12.1
7/21/2023	8:10:00 AM	181.7	286.9	11.2	286.2	11.1
7/21/2023	8:15:00 AM	176.5	288.7	14.5	288.8	14.3
7/21/2023	8:20:00 AM	170.2	289.6	12.6	289.5	12.5
7/21/2023	8:25:00 AM	169.7	294.2	14.1	294.4	14
7/21/2023	8:30:00 AM	169.1	292	11.8	291.1	11.6
7/21/2023	8:35:00 AM	167	288.2	13	288.3	12.8
7/21/2023	8:40:00 AM	161.6	288.7	12.9	288.8	12.7
7/21/2023	8:45:00 AM	156.1	279	11.3	279.5	11.1

Site: West 43rd Avenue						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	8:50:00 AM	146.1	276	12.5	276	12.4
7/21/2023	8:55:00 AM	135.5	277.8	12.5	277.8	12.4
7/21/2023	9:00:00 AM	130.9	272	12.5	272.5	12.4
7/21/2023	9:05:00 AM	128	273.3	10.9	273.7	10.8
7/21/2023	9:10:00 AM	125.7	265.6	8.9	266.7	8.6
7/21/2023	9:15:00 AM	120.9	258.8	8.4	258.6	8.2
7/21/2023	9:20:00 AM	118.5	257.3	8.2	257.1	8
7/21/2023	9:25:00 AM	121.6	260.1	6.2	258.9	5.9
7/21/2023	9:30:00 AM	122.4	272.8	8.4	273.6	8.2
7/21/2023	9:35:00 AM	123.9	240.2	7.2	240.4	7.1
7/21/2023	9:40:00 AM	120.1	242.8	8.6	242.9	8.3
7/21/2023	9:45:00 AM	132.3	255.1	8.4	257	7.8
7/21/2023	9:50:00 AM	144.4	270.6	8.2	271.2	8
7/21/2023	9:55:00 AM	141.7	239.4	6.1	239.8	5.7
7/21/2023	10:00:00 AM	132.7	224.2	5.7	233.4	5.3
7/21/2023	10:05:00 AM	141.1	258.4	8.7	258.4	8.5
7/21/2023	10:10:00 AM	148.2	253	5.5	250	5
7/21/2023	10:15:00 AM	146.4	264.6	5.5	264.8	5.3
7/21/2023	10:20:00 AM	142.4	266	5.2	267.5	4.9
7/21/2023	10:25:00 AM	136.5	272.2	5.8	273.3	5.5
7/21/2023	10:30:00 AM	132.4	293.6	5	292.4	4.9
7/21/2023	10:35:00 AM	128.6	274.2	5.4	274.3	5
7/21/2023	10:40:00 AM	125.9	236.4	5.1	233.1	4.7
7/21/2023	10:45:00 AM	126.2	242.3	3.5	254	2.7
7/21/2023	10:50:00 AM	128.1	275.9	6.6	276.6	6.5
7/21/2023	10:55:00 AM	131.5	279	8.6	278.8	8.3
7/21/2023	11:00:00 AM	132.5	263.2	7.2	263.6	7
7/21/2023	11:05:00 AM	130.3	233.7	3.7	243.2	3.2
7/21/2023	11:10:00 AM	127.2	207	2.1	214.6	1.5
7/21/2023	11:15:00 AM	125.4	244.7	3.4	249.2	3
7/21/2023	11:20:00 AM	129.8	213.5	3.9	225.1	2.2
7/21/2023	11:25:00 AM	129.2	273.4	3.3	275.1	0.9
7/21/2023	11:30:00 AM	121.8	203.5	4.2	191	3.3
7/21/2023	11:35:00 AM	126.4	257.4	6.9	254.3	6.3
7/21/2023	11:40:00 AM	131.4	224.7	4.9	220.4	3.9
7/21/2023	11:45:00 AM	133.5	208.1	5.3	203.9	4.4
7/21/2023	11:50:00 AM	133.7	283.7	6.6	283.9	6.4
7/21/2023	11:55:00 AM	129	309.1	4.1	309.2	4
7/21/2023	12:00:00 PM	125.3	339.4	2.4	321	1.8
7/21/2023	12:05:00 PM	120.4	175.5	5.3	175.5	5
7/21/2023	12:10:00 PM	118.5	166.5	4.7	170.7	4.2
7/21/2023	12:15:00 PM	120.8	241.9	2.8	239.2	2.4
7/21/2023	12:20:00 PM	121.2	254.4	5.2	252.6	3.5
7/21/2023	12:25:00 PM	122.6	191.7	5.7	190.9	5.4
7/21/2023	12:30:00 PM	123.4	169.6	4.9	171.6	4.7
7/21/2023	12:35:00 PM	122.1	92	3.7	91.8	3.5
7/21/2023	12:40:00 PM	124.9	176.9	3.7	188.7	3.2
7/21/2023	12:45:00 PM	130.8	241.6	7.3	239.2	7
7/21/2023	12:50:00 PM	131	200.9	2.7	223.5	1.1
7/21/2023	12:55:00 PM	133	264.6	3.5	256.2	2.6
7/21/2023	1:00:00 PM	130.2	257.9	9	258.6	8.8
7/21/2023	1:05:00 PM	121	252.7	6.8	252	6.4
7/21/2023	1:10:00 PM	115.9	268	8.6	268	8.2

Site: West 43rd Avenue						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	1:15:00 PM	116.6	287.2	9.5	286.3	8.9
7/21/2023	1:20:00 PM	115.2	251.1	7	258.1	6.5
7/21/2023	1:25:00 PM	112.5	261.9	7.8	265	7.5
7/21/2023	1:30:00 PM	98.5	258.5	6.2	257.4	6
7/21/2023	1:35:00 PM	90.7	281.2	6.3	281.9	5.9
7/21/2023	1:40:00 PM	85.8	238.6	10	238.7	9.7
7/21/2023	1:45:00 PM	85.7	273	9.5	271.9	9.1
7/21/2023	1:50:00 PM	90.3	261.8	9.8	263	9.5
7/21/2023	1:55:00 PM	88	264.4	10.1	265.6	9.8
7/21/2023	2:00:00 PM	85	271.5	11.8	272.6	11.2
7/21/2023	2:05:00 PM	78.5	265.3	13.8	265.2	13.6
7/21/2023	2:10:00 PM	83.4	261	9.4	263.1	9
7/21/2023	2:15:00 PM	91.6	262.2	9.3	262.5	8.6
7/21/2023	2:20:00 PM	96.9	276	12.6	276.8	12.4
7/21/2023	2:25:00 PM	97.7	255.4	10.6	252.2	9.6
7/21/2023	2:30:00 PM	92.7	263.6	10.8	263.9	10.5
7/21/2023	2:35:00 PM	91.9	263.7	9.3	264.3	9.1
7/21/2023	2:40:00 PM	88	270.7	12	271.5	11.8
7/21/2023	2:45:00 PM	81.5	262.1	10.1	262.5	9.8
7/21/2023	2:50:00 PM	81.4	261.9	10.7	260.8	10.3
7/21/2023	2:55:00 PM	80.8	260.3	11.9	260.3	11.7
7/21/2023	3:00:00 PM	80.5	267	11.5	267.4	11.2
7/21/2023	3:05:00 PM	75.4	268.2	11.2	268	10.9
7/21/2023	3:10:00 PM	78.1	254.6	9.4	254.1	9
7/21/2023	3:15:00 PM	84.1	267.2	13.4	268.3	13
7/21/2023	3:20:00 PM	81.7	259.1	10.4	260.5	10
7/21/2023	3:25:00 PM	78.7	274.9	13.5	274.3	13.2
7/21/2023	3:30:00 PM	70.1	259.1	11.7	259.6	11.3
7/21/2023	3:35:00 PM	68.5	258.3	9.8	257.3	9.3
7/21/2023	3:40:00 PM	60.4	270.9	12.9	270.8	12.4
7/21/2023	3:45:00 PM	52.1	256.4	12.6	256.2	12.4
7/21/2023	3:50:00 PM	53.1	263.8	11.3	265.7	10.9
7/21/2023	3:55:00 PM	51.2	257.2	11.2	257.3	10.7
7/21/2023	4:00:00 PM	49	256.7	13.4	256.8	13
7/21/2023	4:05:00 PM	53.6	243.5	13.6	243.5	13.4
7/21/2023	4:10:00 PM	66.4	254.5	13.3	255.8	12.8
7/21/2023	4:15:00 PM	73.6	261.8	13	262.2	12.7
7/21/2023	4:20:00 PM	74.3	259.8	14.2	260.5	14
7/21/2023	4:25:00 PM	65.7	247.1	13.2	247.5	13
7/21/2023	4:30:00 PM	59	261.2	12.3	261.3	12
7/21/2023	4:35:00 PM	53.8	265.4	12.6	265.6	12.4
7/21/2023	4:40:00 PM	59.1	275.8	15.1	276.3	15
7/21/2023	4:45:00 PM	57.1	262.9	13.4	262.5	13.2
7/21/2023	4:50:00 PM	56.3	266	12.2	265.9	11.9
7/21/2023	4:55:00 PM	55.3	276.2	13.2	276.1	13
7/21/2023	5:00:00 PM	42.5	268.5	12.3	268.5	12.1
7/21/2023	5:05:00 PM	28.6	266.4	12.6	267.4	12.4
7/21/2023	5:10:00 PM	31.9	265.5	13.2	265.6	13
7/21/2023	5:15:00 PM	39.7	255.2	12.3	254.8	12
7/21/2023	5:20:00 PM	47.5	254.3	11.9	254.1	11.8
7/21/2023	5:25:00 PM	55.4	257.4	11.7	257.4	11.5
7/21/2023	5:30:00 PM	58.4	255.8	9.8	256.5	9.6
7/21/2023	5:35:00 PM	56.3	249	10.5	248.7	10.3

Site: West 43rd Avenue						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	5:40:00 PM	55.5	253.2	10	252.4	9.9
7/21/2023	5:45:00 PM	59.8	253	10.9	252.8	10.8
7/21/2023	5:50:00 PM	63.2	258.4	11.5	258.7	11.4
7/21/2023	5:55:00 PM	67.8	251.1	10.9	251.4	10.7
7/21/2023	6:00:00 PM	67.8	250.1	10.9	249.8	10.7
7/21/2023	6:05:00 PM	64.7	258.3	9.7	258.7	9.5
7/21/2023	6:10:00 PM	59.2	254.6	9.7	254.7	9.6
7/21/2023	6:15:00 PM	54.2	254.5	9.1	254.3	9
7/21/2023	6:20:00 PM	49.9	255.1	8.9	254.9	8.8
7/21/2023	6:25:00 PM	46.5	257.3	9.5	257.6	9.3
7/21/2023	6:30:00 PM	44.9	252.6	10.1	251.9	10
7/21/2023	6:35:00 PM	42	254.7	9.6	254.8	9.4
7/21/2023	6:40:00 PM	41.5	253.7	9	253.3	8.8
7/21/2023	6:45:00 PM	41.8	252.2	7.1	252.5	6.9
7/21/2023	6:50:00 PM	43.9	262.5	8	262.6	7.8
7/21/2023	6:55:00 PM	46.6	270.3	7.7	270.7	7.6
7/21/2023	7:00:00 PM	46.5	272.1	7.8	272.3	7.8
7/21/2023	7:05:00 PM	44.5	284.9	8.2	285.4	8
7/21/2023	7:10:00 PM	45.1	308.8	8.4	307.7	8.3
7/21/2023	7:15:00 PM	46.3	332.9	9	333.2	8.9
7/21/2023	7:20:00 PM	48.3	346.2	9.4	346.1	9.1
7/21/2023	7:25:00 PM	56.3	346.5	13	346.9	12.8
7/21/2023	7:30:00 PM	70.9	353.9	9.4	354.8	9.1
7/21/2023	7:35:00 PM	81.8	349.4	10.6	349.3	10.4
7/21/2023	7:40:00 PM	84.4	358.1	7.8	357.8	7.5
7/21/2023	7:45:00 PM	83.4	349.9	6.1	350.6	6
7/21/2023	7:50:00 PM	81.7	350	5.2	350.2	5
7/21/2023	7:55:00 PM	77.9	351.4	4.4	352.4	4.3
7/21/2023	8:00:00 PM	74.5	335.4	4.4	337.2	4.3
7/21/2023	8:05:00 PM	70.4	9	5.2	6.6	4.7
7/21/2023	8:10:00 PM	65.4	358.6	5.1	358.7	4.9
7/21/2023	8:15:00 PM	64.2	0.3	3.5	359.5	3.4
7/21/2023	8:20:00 PM	61.1	4.3	4.5	4.3	4.4
7/21/2023	8:25:00 PM	60.1	5	5.2	4.6	5.1
7/21/2023	8:30:00 PM	60	21.1	7.9	21.3	7.8
7/21/2023	8:35:00 PM	58.7	46.3	13.4	47.1	13.1
7/21/2023	8:40:00 PM	71.4	45.5	15.1	45.2	15
7/21/2023	8:45:00 PM	159.7	44.7	13.6	44.6	13.4
7/21/2023	8:50:00 PM	313.6	53.3	12.6	52.9	12.4
7/21/2023	8:55:00 PM	364.6	73.1	9.1	72.3	9
7/21/2023	9:00:00 PM	364.6	70.3	9.1	70	8.9
7/21/2023	9:05:00 PM	345.4	69.2	10.7	69.5	10.6
7/21/2023	9:10:00 PM	319	61.8	8.3	62.3	8.2
7/21/2023	9:15:00 PM	290.2	65.6	8.3	65.7	8.2
7/21/2023	9:20:00 PM	258.9	70.6	7.8	70.6	7.7
7/21/2023	9:25:00 PM	226.8	72.3	6.1	72.5	5.9
7/21/2023	9:30:00 PM	197.5	86.4	6.3	85.7	6.1
7/21/2023	9:35:00 PM	170.2	86.6	6.5	86.9	6.3
7/21/2023	9:40:00 PM	149.4	81.3	6.3	81.7	6.2
7/21/2023	9:45:00 PM	135.1	83.4	6.2	83.8	6.1
7/21/2023	9:50:00 PM	125.3	69.4	6.6	69.7	6.5
7/21/2023	9:55:00 PM	119.1	62.6	7	62.8	6.9
7/21/2023	10:00:00 PM	116.3	72.3	6.3	72	6.3

Site: West 43rd Avenue						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	10:05:00 PM	113.4	82	6.5	82	6.4
7/21/2023	10:10:00 PM	107.9	106.2	5.4	105.1	5.2
7/21/2023	10:15:00 PM	103.8	123.4	5.3	123.2	5.2
7/21/2023	10:20:00 PM	98.2	116.2	5.8	116.3	5.6
7/21/2023	10:25:00 PM	91.7	134.3	6.4	134.2	6.1
7/21/2023	10:30:00 PM	83.3	148.1	8.6	147.8	8.4
7/21/2023	10:35:00 PM	72.6	145.8	10.1	145.6	10
7/21/2023	10:40:00 PM	64.9	145.1	10.9	144	10.8
7/21/2023	10:45:00 PM	83.2	156.7	21.1	156.2	20.5
7/21/2023	10:50:00 PM	217.6	159.5	18.6	159.6	18.2
7/21/2023	10:55:00 PM	815.1	150.9	15.6	151	15.3
7/21/2023	11:00:00 PM	1711.9	155.6	16.8	155.9	16.4
7/21/2023	11:05:00 PM	2056.4	154	22.3	154	21.8
7/21/2023	11:10:00 PM	2443.5	156.1	21.3	155.5	20.9
7/21/2023	11:15:00 PM	2777.9	158	21.1	158.2	20.6
7/21/2023	11:20:00 PM	2825.8	162.3	21.2	162.3	20.8
7/21/2023	11:25:00 PM	2780.4	162.6	18.5	162.7	18.1
7/21/2023	11:30:00 PM	2463.4	176.9	19.2	176.5	18.7
7/21/2023	11:35:00 PM	2053.4	181.2	15.2	180.3	14.6
7/21/2023	11:40:00 PM	1650.7	180.9	18.4	179.9	17.9
7/21/2023	11:45:00 PM	1360.7	180.7	18.2	180.1	17.7
7/21/2023	11:50:00 PM	1151.2	179.1	18.2	178	17.8
7/21/2023	11:55:00 PM	995.8	182.8	16.9	181.9	16.4
	Average	216.9	261	8.8	259.3	5.4
	Max	2825.8	358.6	22.3	359.5	21.8
	Max Hour	171535.1092	5820.927452	23.87581446	5669.745795	23.59950784
	Min	28.6	0.3	0	4.3	0.4
	Count	288	288	288	288	288
	Total	62481.9	67031.4	2557.8	67459.3	2490.6

Site: Zuni Hills						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	12:00:00 AM	12.8	<	1.4	<	1.3
7/21/2023	12:05:00 AM	32.4	<	0.4	<	0.4
7/21/2023	12:10:00 AM	10.2	<	1.7	<	1.6
7/21/2023	12:15:00 AM	23.7	<	2.1	<	2
7/21/2023	12:20:00 AM	8.9	<	2.1	<	2
7/21/2023	12:25:00 AM	3.4	<	2.4	<	2.3
7/21/2023	12:30:00 AM	12.4	<	2.2	<	2
7/21/2023	12:35:00 AM	11.7	<	2.6	<	2.5
7/21/2023	12:40:00 AM	11.1	<	3.3	<	3.2
7/21/2023	12:45:00 AM	18.5	<	2.4	<	2.4
7/21/2023	12:50:00 AM	12.2	<	3	<	3
7/21/2023	12:55:00 AM	12	<	2.8	<	2.8
7/21/2023	1:00:00 AM	11.4	<	2.4	<	2.3
7/21/2023	1:05:00 AM	11.4	<	1.6	<	1.5
7/21/2023	1:10:00 AM	45.9	<	0	<	0
7/21/2023	1:15:00 AM	24.2	<	0.1	<	0
7/21/2023	1:20:00 AM	15.5	<	1.1	<	1
7/21/2023	1:25:00 AM	19.3	<	0.9	<	0.9
7/21/2023	1:30:00 AM	31.7	<	1	<	1
7/21/2023	1:35:00 AM	58.4	<	0.9	<	0.5
7/21/2023	1:40:00 AM	13.6	<	0.3	<	0.3
7/21/2023	1:45:00 AM	31.4	<	1.2	<	1.2
7/21/2023	1:50:00 AM	25.8	<	0.2	<	0.2
7/21/2023	1:55:00 AM	21.3	<	1.5	<	1.5
7/21/2023	2:00:00 AM	42.1	<	2.1	<	1.8
7/21/2023	2:05:00 AM	34.4	<	2.3	<	2.2
7/21/2023	2:10:00 AM	29.2	<	2.5	<	2.4
7/21/2023	2:15:00 AM	14.1	<	2.7	<	2.7
7/21/2023	2:20:00 AM	9.2	<	3	<	3
7/21/2023	2:25:00 AM	23.3	<	2.8	<	2.8
7/21/2023	2:30:00 AM	20.7	<	4.1	<	4.1
7/21/2023	2:35:00 AM	35.1	<	5.4	<	5.3
7/21/2023	2:40:00 AM	23.5	<	5	<	4.9
7/21/2023	2:45:00 AM	9	<	2.7	<	2.7
7/21/2023	2:50:00 AM	7.4	<	0.7	<	0.7
7/21/2023	2:55:00 AM	17.4	<	0.9	<	0.9
7/21/2023	3:00:00 AM	29.1	<	0.6	<	0.6
7/21/2023	3:05:00 AM	83	<	1.6	<	1.5
7/21/2023	3:10:00 AM	48.4	<	2.7	<	2.6
7/21/2023	3:15:00 AM	-1.2	<	4.2	<	4
7/21/2023	3:20:00 AM	-15.2	<	4.2	<	4.1
7/21/2023	3:25:00 AM	-3.5	<	5.3	<	5.3
7/21/2023	3:30:00 AM	11	<	5.4	<	5.4
7/21/2023	3:35:00 AM	21.7	<	5	<	5
7/21/2023	3:40:00 AM	35.7	<	4.1	<	4.1
7/21/2023	3:45:00 AM	22.6	<	3.8	<	3.8
7/21/2023	3:50:00 AM	28.9	<	2.9	<	2.9
7/21/2023	3:55:00 AM	32.9	<	4.3	<	4.3
7/21/2023	4:00:00 AM	47.1	<	5.9	<	5.8
7/21/2023	4:05:00 AM	48.8	<	4.8	<	4.7
7/21/2023	4:10:00 AM	59.4	<	5.2	<	5.1
7/21/2023	4:15:00 AM	50	<	5	<	4.9
7/21/2023	4:20:00 AM	40.2	<	3.8	<	3.7

Site: Zuni Hills						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	4:25:00 AM	45.8	<	4.5	<	4.3
7/21/2023	4:30:00 AM	45.1	<	6.4	<	6.3
7/21/2023	4:35:00 AM	49.9	<	14	<	13.8
7/21/2023	4:40:00 AM	62.7	<	9.1	<	9
7/21/2023	4:45:00 AM	54	<	6.3	<	6.2
7/21/2023	4:50:00 AM	55.9	<	7.4	<	7.2
7/21/2023	4:55:00 AM	70	<	2.8	<	2.6
7/21/2023	5:00:00 AM	67.7	<	2	<	1.9
7/21/2023	5:05:00 AM	75.8	<	4.4	<	4.3
7/21/2023	5:10:00 AM	84.2	<	1.7	<	1.7
7/21/2023	5:15:00 AM	82.8	<	2	<	1.8
7/21/2023	5:20:00 AM	131.6	<	2.8	<	2.7
7/21/2023	5:25:00 AM	139.5	<	4	<	2.1
7/21/2023	5:30:00 AM	72.5	<	1	<	0.8
7/21/2023	5:35:00 AM	82.7	<	1.3	<	1
7/21/2023	5:40:00 AM	160.6	<	4.6	<	4.4
7/21/2023	5:45:00 AM	265.2	<	6.1	<	5.9
7/21/2023	5:50:00 AM	277.8	<	4.9	<	4.7
7/21/2023	5:55:00 AM	246.6	<	2.8	<	2.6
7/21/2023	6:00:00 AM	238.6	<	2.9	<	2.4
7/21/2023	6:05:00 AM	246.9	<	2.7	<	2.2
7/21/2023	6:10:00 AM	288.3	<	0.5	<	0.4
7/21/2023	6:15:00 AM	280.5	<	1.1	<	1.1
7/21/2023	6:20:00 AM	296	<	2	<	1.9
7/21/2023	6:25:00 AM	307.3	<	2.1	<	2.1
7/21/2023	6:30:00 AM	353.6	<	2.5	<	2.5
7/21/2023	6:35:00 AM	358.1	<	2.9	<	2.8
7/21/2023	6:40:00 AM	324.7	<	3.4	<	3.3
7/21/2023	6:45:00 AM	230.7	<	4.2	<	4.2
7/21/2023	6:50:00 AM	229.8	<	3.8	<	3.6
7/21/2023	6:55:00 AM	246	<	1.2	<	0.5
7/21/2023	7:00:00 AM	316.6	<	1.9	<	0.8
7/21/2023	7:05:00 AM	318.5	<	4.2	<	3.6
7/21/2023	7:10:00 AM	342.4	<	10.3	<	10
7/21/2023	7:15:00 AM	323.8	<	7.9	<	7.7
7/21/2023	7:20:00 AM	306.8	<	11.7	<	11.4
7/21/2023	7:25:00 AM	291.2	<	10.5	<	10.3
7/21/2023	7:30:00 AM	285	<	10	<	9.8
7/21/2023	7:35:00 AM	283.2	<	14.6	<	14.5
7/21/2023	7:40:00 AM	278.4	<	10.8	<	10.7
7/21/2023	7:45:00 AM	274.9	<	12.4	<	12.2
7/21/2023	7:50:00 AM	261.9	<	9.8	<	9.6
7/21/2023	7:55:00 AM	252.5	<	7.9	<	7.4
7/21/2023	8:00:00 AM	261.7	<	4.7	<	4.6
7/21/2023	8:05:00 AM	264.2	<	5.8	<	5.2
7/21/2023	8:10:00 AM	251.2	<	3	<	2.8
7/21/2023	8:15:00 AM	246.8	<	4.6	<	4.3
7/21/2023	8:20:00 AM	272.8	<	7.9	<	7.5
7/21/2023	8:25:00 AM	274.3	<	4.5	<	4.2
7/21/2023	8:30:00 AM	277.4	<	9	<	8.7
7/21/2023	8:35:00 AM	291.7	<	8.1	<	7.8
7/21/2023	8:40:00 AM	293.6	<	7.6	<	7.4
7/21/2023	8:45:00 AM	284.3	<	8.2	<	7.9

Site: Zuni Hills						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	8:50:00 AM	277.9	<	7.1	<	6.9
7/21/2023	8:55:00 AM	270.2	<	7.7	<	7.5
7/21/2023	9:00:00 AM	265.7	<	7.6	<	7.4
7/21/2023	9:05:00 AM	262.6	<	8.5	<	8.4
7/21/2023	9:10:00 AM	256.6	<	7.7	<	7.5
7/21/2023	9:15:00 AM	255.7	<	8.1	<	7.9
7/21/2023	9:20:00 AM	250.3	<	7.8	<	7.5
7/21/2023	9:25:00 AM	250	<	8.6	<	8.4
7/21/2023	9:30:00 AM	259.2	<	7.5	<	7.3
7/21/2023	9:35:00 AM	230.9	<	4.8	<	4.2
7/21/2023	9:40:00 AM	222.7	<	6.8	<	6.5
7/21/2023	9:45:00 AM	213.4	<	6.7	<	6.3
7/21/2023	9:50:00 AM	222.9	<	7.6	<	7.3
7/21/2023	9:55:00 AM	214.3	<	6.4	<	6.2
7/21/2023	10:00:00 AM	195.4	<	7	<	6.2
7/21/2023	10:05:00 AM	214.5	<	7.5	<	7.4
7/21/2023	10:10:00 AM	207	<	8	<	7.7
7/21/2023	10:15:00 AM	183.8	<	5.6	<	5.1
7/21/2023	10:20:00 AM	203.1	<	8.2	<	7.9
7/21/2023	10:25:00 AM	208.8	<	7.5	<	7.3
7/21/2023	10:30:00 AM	196.4	<	8	<	7.3
7/21/2023	10:35:00 AM	194.5	<	6.6	<	6
7/21/2023	10:40:00 AM	186	<	6	<	5.9
7/21/2023	10:45:00 AM	184.7	<	7.4	<	7.1
7/21/2023	10:50:00 AM	202.2	<	7	<	6.9
7/21/2023	10:55:00 AM	179.3	<	6.8	<	6.5
7/21/2023	11:00:00 AM	167.2	<	5.1	<	4.9
7/21/2023	11:05:00 AM	170	<	7.3	<	7
7/21/2023	11:10:00 AM	179.4	<	4.5	<	4.1
7/21/2023	11:15:00 AM	202.9	<	7.9	<	7.6
7/21/2023	11:20:00 AM	186.1	<	7.5	<	7.3
7/21/2023	11:25:00 AM	189.5	<	8.6	<	8.3
7/21/2023	11:30:00 AM	179.2	<	8.6	<	8.4
7/21/2023	11:35:00 AM	183.7	<	7.1	<	6.7
7/21/2023	11:40:00 AM	168.4	<	5.9	<	4.7
7/21/2023	11:45:00 AM	140.8	<	5.6	<	5.4
7/21/2023	11:50:00 AM	134.5	<	5	<	4.3
7/21/2023	11:55:00 AM	163.7	<	5.4	<	4.7
7/21/2023	12:00:00 PM	140.9	<	8.3	<	7.9
7/21/2023	12:05:00 PM	155.2	<	6	<	4.3
7/21/2023	12:10:00 PM	145.3	<	3	<	2.5
7/21/2023	12:15:00 PM	166.5	<	6.1	<	5.3
7/21/2023	12:20:00 PM	155.9	<	8	<	7.7
7/21/2023	12:25:00 PM	141.3	<	8.6	<	8.5
7/21/2023	12:30:00 PM	150.4	<	6.8	<	6.6
7/21/2023	12:35:00 PM	158.3	<	5.3	<	4.4
7/21/2023	12:40:00 PM	166.2	<	4.5	<	4.2
7/21/2023	12:45:00 PM	158.7	<	7.4	<	7.1
7/21/2023	12:50:00 PM	149.7	<	5	<	4.3
7/21/2023	12:55:00 PM	155.6	<	4.2	<	3
7/21/2023	1:00:00 PM	168.5	<	4.8	<	4.6
7/21/2023	1:05:00 PM	149.9	<	5.4	<	5
7/21/2023	1:10:00 PM	140.6	<	3.8	<	3.5

Site: Zuni Hills						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	1:15:00 PM	147.7	<	3.5	<	3.2
7/21/2023	1:20:00 PM	168.1	<	5.3	<	5.2
7/21/2023	1:25:00 PM	144.5	<	7.8	<	6.9
7/21/2023	1:30:00 PM	150.8	<	5	<	4.7
7/21/2023	1:35:00 PM	196.7	<	3.9	<	2.9
7/21/2023	1:40:00 PM	166.5	<	6.8	<	6.4
7/21/2023	1:45:00 PM	144.1	<	6.1	<	5.2
7/21/2023	1:50:00 PM	143.4	<	5.9	<	5.7
7/21/2023	1:55:00 PM	139.6	<	4.9	<	4.1
7/21/2023	2:00:00 PM	125.4	<	8.3	<	7.7
7/21/2023	2:05:00 PM	106.5	<	7.7	<	7.4
7/21/2023	2:10:00 PM	120.9	<	4.5	<	4.3
7/21/2023	2:15:00 PM	124.8	<	9.7	<	9.3
7/21/2023	2:20:00 PM	110.7	<	5.6	<	5.2
7/21/2023	2:25:00 PM	113.7	<	6.6	<	6.4
7/21/2023	2:30:00 PM	107	<	6.9	<	6.7
7/21/2023	2:35:00 PM	117.7	<	9	<	8.2
7/21/2023	2:40:00 PM	113.7	<	10.8	<	10.3
7/21/2023	2:45:00 PM	101.4	<	9	<	7.9
7/21/2023	2:50:00 PM	102.7	<	7	<	6.5
7/21/2023	2:55:00 PM	104	<	8.8	<	8.3
7/21/2023	3:00:00 PM	85.9	<	4.3	<	4.1
7/21/2023	3:05:00 PM	83.8	<	10.6	<	10.2
7/21/2023	3:10:00 PM	75.4	<	6.8	<	6.4
7/21/2023	3:15:00 PM	75	<	4.7	<	4.5
7/21/2023	3:20:00 PM	58.3	<	6.9	<	6.7
7/21/2023	3:25:00 PM	23.3	<	7.8	<	7.5
7/21/2023	3:30:00 PM	-3.8	<	6.4	<	5.8
7/21/2023	3:35:00 PM	14.3	<	7.5	<	6.7
7/21/2023	3:40:00 PM	1.3	<	7.6	<	7.1
7/21/2023	3:45:00 PM	12	<	11.9	<	11.4
7/21/2023	3:50:00 PM	37.6	<	8.3	<	8.1
7/21/2023	3:55:00 PM	23.7	<	11.4	<	11
7/21/2023	4:00:00 PM	30.9	<	8.3	<	8.1
7/21/2023	4:05:00 PM	30.5	<	11.2	<	10.8
7/21/2023	4:10:00 PM	40.3	<	8	<	7.9
7/21/2023	4:15:00 PM	31.1	<	7	<	6.7
7/21/2023	4:20:00 PM	28.7	<	10.1	<	9.6
7/21/2023	4:25:00 PM	37.7	<	7.6	<	7.3
7/21/2023	4:30:00 PM	47.8	<	8.8	<	8.3
7/21/2023	4:35:00 PM	39.1	<	10.8	<	10
7/21/2023	4:40:00 PM	67.9	<	10.2	<	10
7/21/2023	4:45:00 PM	178.1	<	8	<	7.4
7/21/2023	4:50:00 PM	123.8	<	8	<	7.7
7/21/2023	4:55:00 PM	70.4	<	8.5	<	8.2
7/21/2023	5:00:00 PM	50.6	<	8.2	<	7.9
7/21/2023	5:05:00 PM	44.2	<	10.1	<	9.8
7/21/2023	5:10:00 PM	34	<	10	<	9.5
7/21/2023	5:15:00 PM	31.6	<	9	<	8.9
7/21/2023	5:20:00 PM	34.7	<	7.6	<	7.5
7/21/2023	5:25:00 PM	40.6	<	6.8	<	6.6
7/21/2023	5:30:00 PM	51.2	<	8.3	<	8.1
7/21/2023	5:35:00 PM	60.8	<	6.7	<	6.6

Site: Zuni Hills						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	5:40:00 PM	53.6	<	8.3	<	8.2
7/21/2023	5:45:00 PM	43.4	<	6.1	<	6
7/21/2023	5:50:00 PM	36.9	<	6.1	<	5.8
7/21/2023	5:55:00 PM	34.6	<	8.3	<	8
7/21/2023	6:00:00 PM	44.4	<	8.2	<	8.2
7/21/2023	6:05:00 PM	47.1	<	6	<	5.8
7/21/2023	6:10:00 PM	51.1	<	5.8	<	4.9
7/21/2023	6:15:00 PM	65.2	<	16	<	15.8
7/21/2023	6:20:00 PM	139.4	<	17.4	<	16.5
7/21/2023	6:25:00 PM	271	<	16.8	<	16.4
7/21/2023	6:30:00 PM	872.8	<	20.2	<	19.9
7/21/2023	6:35:00 PM	781.3	<	17.1	<	16.8
7/21/2023	6:40:00 PM	550.8	<	18	<	17.1
7/21/2023	6:45:00 PM	487.2	<	18.9	<	18.5
7/21/2023	6:50:00 PM	290	<	18.2	<	17.4
7/21/2023	6:55:00 PM	174.6	<	18.8	<	18.2
7/21/2023	7:00:00 PM	151.6	<	19.1	<	18.8
7/21/2023	7:05:00 PM	116.1	<	16.9	<	16.7
7/21/2023	7:10:00 PM	76.7	<	17.3	<	17
7/21/2023	7:15:00 PM	60.6	<	17	<	16.8
7/21/2023	7:20:00 PM	56.1	<	13.6	<	13.3
7/21/2023	7:25:00 PM	41.4	<	15.3	<	15
7/21/2023	7:30:00 PM	27.6	<	12.6	<	12.4
7/21/2023	7:35:00 PM	18.7	<	13	<	12.8
7/21/2023	7:40:00 PM	15.5	<	12.3	<	12
7/21/2023	7:45:00 PM	16.5	<	11.6	<	11.4
7/21/2023	7:50:00 PM	17.5	<	9.9	<	9.6
7/21/2023	7:55:00 PM	25.8	<	7.2	<	7
7/21/2023	8:00:00 PM	27.5	<	7	<	6.7
7/21/2023	8:05:00 PM	24.7	<	7.4	<	7.2
7/21/2023	8:10:00 PM	15.9	<	6.9	<	6.6
7/21/2023	8:15:00 PM	13.2	<	8.7	<	8.4
7/21/2023	8:20:00 PM	14.8	<	7.5	<	7.1
7/21/2023	8:25:00 PM	13	<	5.6	<	5.5
7/21/2023	8:30:00 PM	15.3	<	7	<	6.7
7/21/2023	8:35:00 PM	9	<	7	<	6.7
7/21/2023	8:40:00 PM	7.7	<	6.6	<	6.5
7/21/2023	8:45:00 PM	13	<	6.3	<	6.2
7/21/2023	8:50:00 PM	13.8	<	5.7	<	5.5
7/21/2023	8:55:00 PM	8.6	<	6.7	<	6.5
7/21/2023	9:00:00 PM	2.5	<	7.1	<	7
7/21/2023	9:05:00 PM	15.1	<	6.1	<	6
7/21/2023	9:10:00 PM	17.9	<	6.3	<	6.2
7/21/2023	9:15:00 PM	20.8	<	6.1	<	6
7/21/2023	9:20:00 PM	30.3	<	5.3	<	5.2
7/21/2023	9:25:00 PM	43	<	4.7	<	4.6
7/21/2023	9:30:00 PM	59.9	<	4.8	<	4.8
7/21/2023	9:35:00 PM	71.7	<	4.6	<	4.6
7/21/2023	9:40:00 PM	87.9	<	4	<	3.9
7/21/2023	9:45:00 PM	65.9	<	3.4	<	3.4
7/21/2023	9:50:00 PM	54	<	2.6	<	2.5
7/21/2023	9:55:00 PM	47.1	<	2.2	<	2.2
7/21/2023	10:00:00 PM	33.7	<	1.9	<	1.8

Site: Zuni Hills						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	10:05:00 PM	29.8	<	2.4	<	2.4
7/21/2023	10:10:00 PM	38.6	<	2.7	<	2.6
7/21/2023	10:15:00 PM	39.6	<	4.3	<	4.3
7/21/2023	10:20:00 PM	30.6	<	5.9	<	5.8
7/21/2023	10:25:00 PM	36.7	<	5.8	<	5.8
7/21/2023	10:30:00 PM	42.6	<	4.2	<	4.1
7/21/2023	10:35:00 PM	43.5	<	2.6	<	2.6
7/21/2023	10:40:00 PM	41.2	<	1.5	<	0.7
7/21/2023	10:45:00 PM	57.3	<	3.5	<	3.5
7/21/2023	10:50:00 PM	46.9	<	4.4	<	4.4
7/21/2023	10:55:00 PM	52.6	<	2.8	<	2.6
7/21/2023	11:00:00 PM	44.1	<	0.8	<	0.7
7/21/2023	11:05:00 PM	43.5	<	3	<	3
7/21/2023	11:10:00 PM	46.4	<	5.4	<	5.4
7/21/2023	11:15:00 PM	51.8	<	3.4	<	1.3
7/21/2023	11:20:00 PM	87.1	<	3.4	<	2.2
7/21/2023	11:25:00 PM	77.5	<	6	<	5.6
7/21/2023	11:30:00 PM	122.5	<	13	<	12.7
7/21/2023	11:35:00 PM	297.2	<	11.7	<	11.3
7/21/2023	11:40:00 PM	483.5	<	11.9	<	11.7
7/21/2023	11:45:00 PM	562.2	<	8	<	7.9
7/21/2023	11:50:00 PM	564.6	<	9.2	<	9
7/21/2023	11:55:00 PM	520.2	<	10.1	<	9.8
	Average	125.5		6.4		6.1
	Max	872.8	0	20.2	0	19.9
	Max Hour					
	Min	-15.2	0	0	0	0
	Count	288	0	288	0	288
	Total					

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	12:00:00 AM	47.8	-	3.9	176.1	2.6
7/21/2023	12:05:00 AM	47.1	-	-	145.7	2.1
7/21/2023	12:10:00 AM	50.6	-	-	133.5	1.4
7/21/2023	12:15:00 AM	51.9	-	-	136.1	1.1
7/21/2023	12:20:00 AM	50	-	-	162.7	1.4
7/21/2023	12:25:00 AM	47.8	-	-	158.1	1.9
7/21/2023	12:30:00 AM	50.7	-	-	161.1	0.6
7/21/2023	12:35:00 AM	73.2	-	-	122.7	2.1
7/21/2023	12:40:00 AM	100.1	-	-	108.4	1.7
7/21/2023	12:45:00 AM	110.1	-	-	120.4	1.5
7/21/2023	12:50:00 AM	108	-	-	148.6	1.5
7/21/2023	12:55:00 AM	102.5	-	-	183.2	1.5
7/21/2023	1:00:00 AM	94.3	-	4.5	192.6	0.5
7/21/2023	1:05:00 AM	86.4	-	-	95.2	0.6
7/21/2023	1:10:00 AM	79	-	-	85.3	2.2
7/21/2023	1:15:00 AM	76.5	-	-	90.9	2
7/21/2023	1:20:00 AM	73.8	-	-	113.4	2.3
7/21/2023	1:25:00 AM	68.6	-	-	117.2	2.6
7/21/2023	1:30:00 AM	64.1	-	-	112.7	3.1
7/21/2023	1:35:00 AM	61.8	-	-	99.9	2.1
7/21/2023	1:40:00 AM	57.5	-	-	113.9	2
7/21/2023	1:45:00 AM	52.7	-	-	141.3	2.7
7/21/2023	1:50:00 AM	49.2	-	-	137	2
7/21/2023	1:55:00 AM	50.4	-	-	137.7	2
7/21/2023	2:00:00 AM	55.1	-	11.3	141.7	2.6
7/21/2023	2:05:00 AM	57.8	-	-	170.4	1.2
7/21/2023	2:10:00 AM	58.2	-	-	208.4	0.6
7/21/2023	2:15:00 AM	59.1	-	-	226.5	0.8
7/21/2023	2:20:00 AM	60.9	-	-	205.5	1.1
7/21/2023	2:25:00 AM	58.4	-	-	169.6	0.8
7/21/2023	2:30:00 AM	55.6	-	-	80.5	2.6
7/21/2023	2:35:00 AM	53.8	-	-	64	7.8
7/21/2023	2:40:00 AM	57.4	-	-	70.5	5
7/21/2023	2:45:00 AM	59.8	-	-	75.6	3.6
7/21/2023	2:50:00 AM	58.9	-	-	72	2.3
7/21/2023	2:55:00 AM	54.5	-	-	69.5	4.2
7/21/2023	3:00:00 AM	48.2	-	6.6	81.7	4.4
7/21/2023	3:05:00 AM	46.3	-	-	92.3	3.3
7/21/2023	3:10:00 AM	47.5	-	-	99.8	3
7/21/2023	3:15:00 AM	48.4	-	-	110.6	3
7/21/2023	3:20:00 AM	48.6	-	-	108.7	3.2
7/21/2023	3:25:00 AM	47.3	-	-	100.7	3.3
7/21/2023	3:30:00 AM	50.2	-	-	112	2.3
7/21/2023	3:35:00 AM	55.6	-	-	120.5	2.8
7/21/2023	3:40:00 AM	59.1	-	-	115.9	3.1
7/21/2023	3:45:00 AM	61.7	-	-	103.4	1.5
7/21/2023	3:50:00 AM	63.7	-	-	129.9	3.4
7/21/2023	3:55:00 AM	77.8	-	-	141.6	1.5

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	4:00:00 AM	89.9	-	9	139	2.5
7/21/2023	4:05:00 AM	90.5	-	-	133.4	3.5
7/21/2023	4:10:00 AM	86.2	-	-	154.3	2.6
7/21/2023	4:15:00 AM	80.7	-	-	155.7	4.1
7/21/2023	4:20:00 AM	78.6	-	-	166.7	4.6
7/21/2023	4:25:00 AM	74.8	-	-	197.5	4
7/21/2023	4:30:00 AM	68.6	-	-	225.7	6.2
7/21/2023	4:35:00 AM	59.5	-	-	217.5	6.2
7/21/2023	4:40:00 AM	52	-	-	223.7	4.9
7/21/2023	4:45:00 AM	52.8	-	-	226.5	4.6
7/21/2023	4:50:00 AM	58.5	-	-	240.6	4.3
7/21/2023	4:55:00 AM	65.5	-	-	251.2	3.7
7/21/2023	5:00:00 AM	70.1	-	6.3	268.4	1.9
7/21/2023	5:05:00 AM	72.6	-	-	10.5	1.5
7/21/2023	5:10:00 AM	77.5	-	-	51.2	4.1
7/21/2023	5:15:00 AM	83	-	-	53.8	3.4
7/21/2023	5:20:00 AM	85.1	-	-	39.8	0.3
7/21/2023	5:25:00 AM	81	-	-	290.4	1.9
7/21/2023	5:30:00 AM	75.6	-	-	289.2	1.2
7/21/2023	5:35:00 AM	75.4	-	-	194.9	1.8
7/21/2023	5:40:00 AM	79.8	-	-	186.3	1.3
7/21/2023	5:45:00 AM	92.1	-	-	24.4	2.8
7/21/2023	5:50:00 AM	100.6	-	-	325.5	1.3
7/21/2023	5:55:00 AM	99.8	-	-	240.2	0.9
7/21/2023	6:00:00 AM	96.3	-	13	243.3	3
7/21/2023	6:05:00 AM	93.9	-	-	271.5	1.3
7/21/2023	6:10:00 AM	91.7	-	-	352.9	0.7
7/21/2023	6:15:00 AM	86.9	-	-	54.7	1.2
7/21/2023	6:20:00 AM	81.7	-	-	57.7	3
7/21/2023	6:25:00 AM	81.4	-	-	50.4	3
7/21/2023	6:30:00 AM	83.7	-	-	52.8	3.4
7/21/2023	6:35:00 AM	86.7	-	-	42.2	3.8
7/21/2023	6:40:00 AM	95.6	-	-	32.7	3.9
7/21/2023	6:45:00 AM	116.2	-	-	14.7	4.5
7/21/2023	6:50:00 AM	158.3	-	-	16.8	6.7
7/21/2023	6:55:00 AM	186.5	-	-	35.9	7.2
7/21/2023	7:00:00 AM	189.3	-	13.1	35.9	5.2
7/21/2023	7:05:00 AM	179.4	-	-	32.8	4.9
7/21/2023	7:10:00 AM	172.5	-	-	28.2	5.7
7/21/2023	7:15:00 AM	172.1	-	-	21	5.2
7/21/2023	7:20:00 AM	172.9	-	-	28.7	7.5
7/21/2023	7:25:00 AM	179.8	-	-	18.6	7.3
7/21/2023	7:30:00 AM	197.7	-	-	10.5	5.7
7/21/2023	7:35:00 AM	216.5	-	-	358.6	6.1
7/21/2023	7:40:00 AM	225.1	-	-	0.4	5.7
7/21/2023	7:45:00 AM	228.7	-	-	11	7.1
7/21/2023	7:50:00 AM	236.6	-	-	357.7	6
7/21/2023	7:55:00 AM	242.9	-	-	0	6

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	8:00:00 AM	243	-	11.4	351.4	4.8
7/21/2023	8:05:00 AM	239.1	-	-	354.4	4.4
7/21/2023	8:10:00 AM	237.5	-	-	347.9	4.3
7/21/2023	8:15:00 AM	235.4	-	-	1.6	4.1
7/21/2023	8:20:00 AM	227.8	-	-	1.1	6
7/21/2023	8:25:00 AM	221.2	-	-	352.2	3.6
7/21/2023	8:30:00 AM	218.5	-	-	2.9	3.3
7/21/2023	8:35:00 AM	212.5	-	-	345.3	2.5
7/21/2023	8:40:00 AM	200.1	-	-	291.4	4
7/21/2023	8:45:00 AM	192.6	-	-	288.7	6.3
7/21/2023	8:50:00 AM	192.1	-	-	305.1	2.7
7/21/2023	8:55:00 AM	185.7	-	-	280.6	5.3
7/21/2023	9:00:00 AM	177.7	-	9.2	280.8	5.4
7/21/2023	9:05:00 AM	175.7	-	-	301.8	4.4
7/21/2023	9:10:00 AM	173.6	-	-	278.8	4.6
7/21/2023	9:15:00 AM	168.1	-	-	346.3	2.7
7/21/2023	9:20:00 AM	163	-	-	318.6	3.7
7/21/2023	9:25:00 AM	163.2	-	-	306.8	2.6
7/21/2023	9:30:00 AM	162.1	-	-	314.6	2.5
7/21/2023	9:35:00 AM	156.1	-	-	320.2	2.6
7/21/2023	9:40:00 AM	152.7	-	-	276.5	3.1
7/21/2023	9:45:00 AM	154.9	-	-	267.6	2.3
7/21/2023	9:50:00 AM	153.5	-	-	348.6	2.9
7/21/2023	9:55:00 AM	147	-	-	351.8	2.3
7/21/2023	10:00:00 AM	146	-	9.4	287.6	3.2
7/21/2023	10:05:00 AM	145.6	-	-	294.8	2.4
7/21/2023	10:10:00 AM	141.5	-	-	231.2	4.2
7/21/2023	10:15:00 AM	138.9	-	-	208.2	3.5
7/21/2023	10:20:00 AM	141.5	-	-	291	2.1
7/21/2023	10:25:00 AM	138.4	-	-	287.4	1.7
7/21/2023	10:30:00 AM	129	-	-	269.6	2.4
7/21/2023	10:35:00 AM	129.7	-	-	281.1	4.7
7/21/2023	10:40:00 AM	135.4	-	-	334.5	1.3
7/21/2023	10:45:00 AM	132.4	-	-	313	1
7/21/2023	10:50:00 AM	124.8	-	-	330.5	1.2
7/21/2023	10:55:00 AM	127.4	-	-	287.5	1.3
7/21/2023	11:00:00 AM	132.7	-	7.4	356	1.9
7/21/2023	11:05:00 AM	128.8	-	-	276.3	2.4
7/21/2023	11:10:00 AM	125.4	-	-	271.8	3.7
7/21/2023	11:15:00 AM	129.2	-	-	237.2	0.9
7/21/2023	11:20:00 AM	127.4	-	-	322.3	2.1
7/21/2023	11:25:00 AM	120.7	-	-	311.8	1.5
7/21/2023	11:30:00 AM	115.5	-	-	347.7	2.8
7/21/2023	11:35:00 AM	113	-	-	339.7	2.8
7/21/2023	11:40:00 AM	112.5	-	-	295.8	1.3
7/21/2023	11:45:00 AM	110.9	-	-	330.5	1.1
7/21/2023	11:50:00 AM	114.8	-	-	234.2	1.9
7/21/2023	11:55:00 AM	116.4	-	-	170.2	2.7

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	12:00:00 PM	114	-	16.4	254.8	4.2
7/21/2023	12:05:00 PM	122.1	-	-	253.7	6
7/21/2023	12:10:00 PM	127.9	-	-	246.1	4.9
7/21/2023	12:15:00 PM	127.6	-	-	35.3	2.2
7/21/2023	12:20:00 PM	119.4	-	-	234.2	3.4
7/21/2023	12:25:00 PM	113.3	-	-	250.9	5.5
7/21/2023	12:30:00 PM	116.1	-	-	283.6	7.6
7/21/2023	12:35:00 PM	119.4	-	-	300.8	3.4
7/21/2023	12:40:00 PM	112	-	-	286.8	3.4
7/21/2023	12:45:00 PM	105.6	-	-	305.3	1.2
7/21/2023	12:50:00 PM	107.9	-	-	209.8	2.5
7/21/2023	12:55:00 PM	114	-	-	255.1	6.2
7/21/2023	1:00:00 PM	110.4	-	15	268.9	2.2
7/21/2023	1:05:00 PM	111.5	-	-	247.9	5
7/21/2023	1:10:00 PM	111.7	-	-	216.2	5.9
7/21/2023	1:15:00 PM	106.1	-	-	271.3	4.8
7/21/2023	1:20:00 PM	104	-	-	294.4	6.9
7/21/2023	1:25:00 PM	109.7	-	-	287.1	4.2
7/21/2023	1:30:00 PM	108.3	-	-	224.4	4.2
7/21/2023	1:35:00 PM	102.1	-	-	243.8	2.8
7/21/2023	1:40:00 PM	98.2	-	-	266	4.9
7/21/2023	1:45:00 PM	102.8	-	-	267.5	9
7/21/2023	1:50:00 PM	104.7	-	-	278.7	7.6
7/21/2023	1:55:00 PM	99.8	-	-	283	2.1
7/21/2023	2:00:00 PM	93.9	-	16	257.9	5.8
7/21/2023	2:05:00 PM	98.6	-	-	275	7.7
7/21/2023	2:10:00 PM	103.5	-	-	270.7	5.5
7/21/2023	2:15:00 PM	103.8	-	-	250.1	9.3
7/21/2023	2:20:00 PM	106.8	-	-	251.4	5.4
7/21/2023	2:25:00 PM	109.4	-	-	210.9	3.8
7/21/2023	2:30:00 PM	107.6	-	-	289.4	3.9
7/21/2023	2:35:00 PM	105.5	-	-	288.6	5
7/21/2023	2:40:00 PM	106.5	-	-	262.5	7.6
7/21/2023	2:45:00 PM	106.1	-	-	281.3	2.6
7/21/2023	2:50:00 PM	102.2	-	-	333	2.4
7/21/2023	2:55:00 PM	100.4	-	-	273.7	4.6
7/21/2023	3:00:00 PM	102.6	-	18.2	298.6	5.3
7/21/2023	3:05:00 PM	100.9	-	-	295.9	2.6
7/21/2023	3:10:00 PM	97.5	-	-	255.7	4.5
7/21/2023	3:15:00 PM	98.3	-	-	237.6	9.1
7/21/2023	3:20:00 PM	100.5	-	-	267.9	7.9
7/21/2023	3:25:00 PM	95.8	-	-	286	6.8
7/21/2023	3:30:00 PM	93.1	-	-	290.3	8.5
7/21/2023	3:35:00 PM	95.2	-	-	270	9.6
7/21/2023	3:40:00 PM	97	-	-	251.4	9.9
7/21/2023	3:45:00 PM	95.6	-	-	259.5	6.2
7/21/2023	3:50:00 PM	93.6	-	-	285	4.3
7/21/2023	3:55:00 PM	96.4	-	-	254.3	6.1

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	4:00:00 PM	93.4	-	17.5	299.8	4.3
7/21/2023	4:05:00 PM	80.5	-	-	290	9.7
7/21/2023	4:10:00 PM	61.8	-	-	282.4	8.5
7/21/2023	4:15:00 PM	53.2	-	-	275.2	7
7/21/2023	4:20:00 PM	47.1	-	-	308.4	4.8
7/21/2023	4:25:00 PM	39.4	-	-	296.7	4.6
7/21/2023	4:30:00 PM	40.8	-	-	287.2	10
7/21/2023	4:35:00 PM	46.8	-	-	292.2	7.8
7/21/2023	4:40:00 PM	47.5	-	-	291.1	6.6
7/21/2023	4:45:00 PM	46.5	-	-	304.9	3.5
7/21/2023	4:50:00 PM	49.2	-	-	302.2	7.4
7/21/2023	4:55:00 PM	50.2	-	-	307.5	6.9
7/21/2023	5:00:00 PM	50.4	-	17.7	288.2	8.7
7/21/2023	5:05:00 PM	40.8	-	-	277.6	9.3
7/21/2023	5:10:00 PM	35.5	-	-	293.8	8.5
7/21/2023	5:15:00 PM	36.5	-	-	304.2	6.1
7/21/2023	5:20:00 PM	33	-	-	301.7	10.2
7/21/2023	5:25:00 PM	31.7	-	-	305.4	6.1
7/21/2023	5:30:00 PM	30.8	-	-	322.5	6.1
7/21/2023	5:35:00 PM	25.7	-	-	306.1	6.1
7/21/2023	5:40:00 PM	20.9	-	-	304.3	5.8
7/21/2023	5:45:00 PM	22.5	-	-	305.3	4.8
7/21/2023	5:50:00 PM	27.4	-	-	303.7	3.8
7/21/2023	5:55:00 PM	31.3	-	-	295	9.7
7/21/2023	6:00:00 PM	32.9	-	13.8	290.8	9.5
7/21/2023	6:05:00 PM	37.1	-	-	290	7.7
7/21/2023	6:10:00 PM	40	-	-	284.7	8.5
7/21/2023	6:15:00 PM	37.7	-	-	297.2	6.9
7/21/2023	6:20:00 PM	36.4	-	-	290.4	8.2
7/21/2023	6:25:00 PM	40.3	-	-	303.2	3.5
7/21/2023	6:30:00 PM	40.6	-	-	305.6	3.3
7/21/2023	6:35:00 PM	35.1	-	-	298.4	5
7/21/2023	6:40:00 PM	34.7	-	-	336	2.3
7/21/2023	6:45:00 PM	40.4	-	-	352.5	3.6
7/21/2023	6:50:00 PM	41.5	-	-	352.2	4.5
7/21/2023	6:55:00 PM	39.3	-	-	350.7	4.4
7/21/2023	7:00:00 PM	37.8	-	6.4	346.5	0.9
7/21/2023	7:05:00 PM	37.7	-	-	12.3	2.9
7/21/2023	7:10:00 PM	39.1	-	-	27.8	2.1
7/21/2023	7:15:00 PM	40.7	-	-	32.3	1.8
7/21/2023	7:20:00 PM	43.6	-	-	37.5	2.1
7/21/2023	7:25:00 PM	47.4	-	-	31.4	2.6
7/21/2023	7:30:00 PM	49.7	-	-	34.7	2.4
7/21/2023	7:35:00 PM	50.4	-	-	53.8	2.5
7/21/2023	7:40:00 PM	52.9	-	-	69.9	2.6
7/21/2023	7:45:00 PM	53.3	-	-	63.4	3.8
7/21/2023	7:50:00 PM	51.5	-	-	65.7	3.7
7/21/2023	7:55:00 PM	51.2	-	-	65.9	3.8

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/21/2023	8:00:00 PM	53	-	14.3	70.3	3.1
7/21/2023	8:05:00 PM	53.1	-	-	77.8	3.9
7/21/2023	8:10:00 PM	51.6	-	-	74.9	4
7/21/2023	8:15:00 PM	52.4	-	-	71.9	4.9
7/21/2023	8:20:00 PM	55.4	-	-	70.8	7.6
7/21/2023	8:25:00 PM	60	-	-	36.2	8.8
7/21/2023	8:30:00 PM	77.4	-	-	53.3	8.6
7/21/2023	8:35:00 PM	104.6	-	-	63.5	6.9
7/21/2023	8:40:00 PM	124.8	-	-	52.6	7.4
7/21/2023	8:45:00 PM	135.9	-	-	67.9	6.5
7/21/2023	8:50:00 PM	132.3	-	-	86.2	4
7/21/2023	8:55:00 PM	123.3	-	-	107	3.5
7/21/2023	9:00:00 PM	113.3	-	14.4	126.8	3.4
7/21/2023	9:05:00 PM	103.9	-	-	113.9	3.7
7/21/2023	9:10:00 PM	96	-	-	97.3	3.9
7/21/2023	9:15:00 PM	91.5	-	-	88.6	3.7
7/21/2023	9:20:00 PM	88.1	-	-	81.7	1.3
7/21/2023	9:25:00 PM	85.1	-	-	185.3	0.6
7/21/2023	9:30:00 PM	81	-	-	72.2	2.9
7/21/2023	9:35:00 PM	82.7	-	-	85.1	5.9
7/21/2023	9:40:00 PM	86.7	-	-	96.1	8.8
7/21/2023	9:45:00 PM	88.2	-	-	105.8	7.7
7/21/2023	9:50:00 PM	87.1	-	-	106.9	8.6
7/21/2023	9:55:00 PM	89.2	-	-	89.1	7.8
7/21/2023	10:00:00 PM	89	-	33.9	73.7	8
7/21/2023	10:05:00 PM	83.2	-	-	89.5	6.8
7/21/2023	10:10:00 PM	72.4	-	-	106.8	8.5
7/21/2023	10:15:00 PM	69.6	-	-	123.7	9.3
7/21/2023	10:20:00 PM	80.3	-	-	146	16.2
7/21/2023	10:25:00 PM	114.8	-	-	157.1	19.1
7/21/2023	10:30:00 PM	279.9	-	-	168.8	16.5
7/21/2023	10:35:00 PM	614.5	-	-	183	14.7
7/21/2023	10:40:00 PM	745.7	-	-	196.9	12.6
7/21/2023	10:45:00 PM	742.2	-	-	188.5	11.1
7/21/2023	10:50:00 PM	693.9	-	-	181.3	11.9
7/21/2023	10:55:00 PM	675.2	-	-	206.1	12.9
7/21/2023	11:00:00 PM	651.9	-	24.1	203	12.6
7/21/2023	11:05:00 PM	575.5	-	-	204.9	13.2
7/21/2023	11:10:00 PM	476	-	-	202.3	13.4
7/21/2023	11:15:00 PM	386.9	-	-	191	8.3
7/21/2023	11:20:00 PM	310.6	-	-	175.8	8.6
7/21/2023	11:25:00 PM	239.5	-	-	174.5	7.8
7/21/2023	11:30:00 PM	183.8	-	-	171.2	11.2
7/21/2023	11:35:00 PM	145.7	-	-	165.4	10.7
7/21/2023	11:40:00 PM	118.7	-	-	170.9	11.3
7/21/2023	11:45:00 PM	99	-	-	182.3	12.3
7/21/2023	11:50:00 PM	89.2	-	-	176.1	12.3
7/21/2023	11:55:00 PM	82.4	-	-	164.4	8.1

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (hourly, MPH)	Wind Direction (Degree)	Windspeed (MPH)
	Average	114.6586806	#DIV/0!	13.03333333	195.9385417	4.747916667
	Max	745.7	#DIV/0!	33.9	358.6	19.1
	Max Hour	360257.3448	6592.675765	24.36151846	6493.778775	23.67709337
	Min	20.9	0	3.9	0	0.3
	Count	288	288	288	288	288
	Total					

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/26/2023	12:00:00 AM	71.7	142.6	3.4	142.7	3.4
7/26/2023	12:05:00 AM	66.2	145.2	3.2	145.8	3.2
7/26/2023	12:10:00 AM	61.4	161	2.6	160.7	2.6
7/26/2023	12:15:00 AM	56	169.6	3.2	169.8	3.2
7/26/2023	12:20:00 AM	48.8	180.7	2.4	180.6	2.3
7/26/2023	12:25:00 AM	42.1	186.8	2.3	186.5	2.3
7/26/2023	12:30:00 AM	39.2	194.7	3.5	194.8	3.4
7/26/2023	12:35:00 AM	39.5	197.4	2.5	197.2	2.4
7/26/2023	12:40:00 AM	38.4	169.9	1.8	171	1.8
7/26/2023	12:45:00 AM	36.5	129.6	2.1	129.3	2
7/26/2023	12:50:00 AM	36.2	90.5	3.2	89.7	3.2
7/26/2023	12:55:00 AM	38.2	84.8	4.7	84.4	4.6
7/26/2023	1:00:00 AM	39.1	82.5	5.3	82.4	5.2
7/26/2023	1:05:00 AM	37.5	116.8	2.7	118	2.6
7/26/2023	1:10:00 AM	34.9	141.8	2.3	142.6	2.3
7/26/2023	1:15:00 AM	35.5	110.6	1.6	109.1	1.5
7/26/2023	1:20:00 AM	37.9	149.1	1.4	148.7	1.3
7/26/2023	1:25:00 AM	37.4	139.5	1.7	138.8	1.7
7/26/2023	1:30:00 AM	35.7	120.1	2.8	120.1	2.8
7/26/2023	1:35:00 AM	36.2	138.4	3.8	138.6	3.8
7/26/2023	1:40:00 AM	39.6	91.3	2.8	89.3	2.7
7/26/2023	1:45:00 AM	41.5	128.3	3.9	130.3	3.8
7/26/2023	1:50:00 AM	40	133.6	4.4	133.5	4.4
7/26/2023	1:55:00 AM	38.5	158.7	3.1	158	3.1
7/26/2023	2:00:00 AM	39.9	176.1	3.3	175.4	3.3
7/26/2023	2:05:00 AM	42.4	171.9	2.7	172.2	2.7
7/26/2023	2:10:00 AM	42	156.9	1.4	158.6	1.4
7/26/2023	2:15:00 AM	39.5	139	1.1	139.2	1.1
7/26/2023	2:20:00 AM	38.9	138.7	1.8	138.4	1.8
7/26/2023	2:25:00 AM	41.1	152.7	2	153.6	1.9
7/26/2023	2:30:00 AM	41.9	163.6	2.8	163.9	2.8
7/26/2023	2:35:00 AM	40.1	156.5	2	157.5	2
7/26/2023	2:40:00 AM	38	168.9	1.5	172.7	1.3
7/26/2023	2:45:00 AM	38.3	216.1	2.4	216.5	2.4
7/26/2023	2:50:00 AM	39	215.2	2.6	215.3	2.6
7/26/2023	2:55:00 AM	37.7	200.8	1.9	209.4	1.9
7/26/2023	3:00:00 AM	35.5	138.7	1.3	138.4	1.2
7/26/2023	3:05:00 AM	35.4	154.2	1.7	154.3	1.6
7/26/2023	3:10:00 AM	36.9	180.6	1.3	177.8	1.3
7/26/2023	3:15:00 AM	36.8	203.4	0	198.2	0.3
7/26/2023	3:20:00 AM	34.9	185.5	1	191.2	1
7/26/2023	3:25:00 AM	33.1	185.1	0	214.1	0.4
7/26/2023	3:30:00 AM	34.5	47.3	1.3	38.5	1.2
7/26/2023	3:35:00 AM	36.6	32	3.6	32.6	3.6
7/26/2023	3:40:00 AM	36.7	38.7	4.2	38.5	4.2
7/26/2023	3:45:00 AM	37.2	47.4	2.8	47.4	2.7
7/26/2023	3:50:00 AM	41.6	63.3	2.8	64	2.8
7/26/2023	3:55:00 AM	47.8	80.5	2.1	79.8	2
7/26/2023	4:00:00 AM	51.9	87.6	1.3	87.7	1.2
7/26/2023	4:05:00 AM	53.2	34.3	1.6	31.4	1.5
7/26/2023	4:10:00 AM	53.8	35.9	2.7	36.1	2.7
7/26/2023	4:15:00 AM	55.2	55.4	3.3	55.8	3.3
7/26/2023	4:20:00 AM	59.6	65.9	3.6	64.6	3.6

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/26/2023	4:25:00 AM	62.5	80.1	2.8	81.4	2.7
7/26/2023	4:30:00 AM	60.4	82.8	4.3	83.9	4.3
7/26/2023	4:35:00 AM	57	91.6	5.1	91.3	5
7/26/2023	4:40:00 AM	55.5	84.3	5	83.8	4.9
7/26/2023	4:45:00 AM	54.6	86.9	4.7	86.4	4.6
7/26/2023	4:50:00 AM	54.5	107.1	5	107.8	4.9
7/26/2023	4:55:00 AM	52.5	113.9	6.5	113.3	6.4
7/26/2023	5:00:00 AM	49.3	111	7.5	111	7.3
7/26/2023	5:05:00 AM	54.1	107.7	6.6	107.6	6.6
7/26/2023	5:10:00 AM	66.2	108.4	6.1	108.5	6
7/26/2023	5:15:00 AM	79.6	106.2	4.2	107.1	4.2
7/26/2023	5:20:00 AM	86.5	124.1	3.1	123.8	3
7/26/2023	5:25:00 AM	98	119	3.4	118.9	3.3
7/26/2023	5:30:00 AM	106.7	96.5	2.1	97.7	2
7/26/2023	5:35:00 AM	114.7	75.6	2.6	75.8	2.5
7/26/2023	5:40:00 AM	116.7	66.6	2.1	66.4	2.1
7/26/2023	5:45:00 AM	113.6	60.9	4	60.9	4
7/26/2023	5:50:00 AM	113.7	63.7	4.5	63.6	4.5
7/26/2023	5:55:00 AM	111.4	68	4.8	68.8	4.7
7/26/2023	6:00:00 AM	109.1	71.6	4	71.4	3.9
7/26/2023	6:05:00 AM	128.5	82.1	4.9	82.4	4.8
7/26/2023	6:10:00 AM	134.5	84.6	4.4	84.5	4.3
7/26/2023	6:15:00 AM	130.3	92.5	4.8	93	4.7
7/26/2023	6:20:00 AM	126.3	94.5	5.7	95	5.6
7/26/2023	6:25:00 AM	131.2	93.7	6.1	94	6
7/26/2023	6:30:00 AM	140.9	97.3	5.8	97.8	5.7
7/26/2023	6:35:00 AM	141.1	96.3	8.2	96.5	8.1
7/26/2023	6:40:00 AM	143.5	104	7.5	104.2	7.4
7/26/2023	6:45:00 AM	150.8	105.3	7.5	105.4	7.4
7/26/2023	6:50:00 AM	154.8	113.3	6.8	113.3	6.7
7/26/2023	6:55:00 AM	149.5	112.8	6.3	112.5	6.2
7/26/2023	7:00:00 AM	140.2	109.6	6	109.8	5.9
7/26/2023	7:05:00 AM	134.5	113.7	6.2	113.5	6.1
7/26/2023	7:10:00 AM	141.9	109.9	7	109.7	6.9
7/26/2023	7:15:00 AM	177	109.4	7.3	109.4	7.2
7/26/2023	7:20:00 AM	193	115.3	7.2	115.4	7.1
7/26/2023	7:25:00 AM	183.4	120.4	7.6	120.5	7.5
7/26/2023	7:30:00 AM	170.7	120.5	7.9	120.7	7.9
7/26/2023	7:35:00 AM	154.7	117.7	7.1	118.9	7
7/26/2023	7:40:00 AM	133.9	122.7	4.5	122.8	4.4
7/26/2023	7:45:00 AM	115.3	125	4.3	126.1	4.1
7/26/2023	7:50:00 AM	104.9	116.7	5.4	116.9	5.1
7/26/2023	7:55:00 AM	97.8	139.5	5.2	138.9	5.1
7/26/2023	8:00:00 AM	88.3	128.7	4.5	128.4	4.4
7/26/2023	8:05:00 AM	80.6	118.7	3.4	118	3.2
7/26/2023	8:10:00 AM	80.1	140.7	2.6	140.8	2.4
7/26/2023	8:15:00 AM	79.6	151.4	3.6	151.2	3.5
7/26/2023	8:20:00 AM	74.4	185.9	3.2	184.9	3.1
7/26/2023	8:25:00 AM	69.8	163.3	2.3	161	2.2
7/26/2023	8:30:00 AM	74	146.7	2.8	147.3	2.6
7/26/2023	8:35:00 AM	75.4	139	2.7	139.3	2.7
7/26/2023	8:40:00 AM	73.4	177.7	2.7	182.5	2.4
7/26/2023	8:45:00 AM	70.7	199.6	2.6	202.4	2.4

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/26/2023	8:50:00 AM	73.4	220.8	1.6	216.1	1.4
7/26/2023	8:55:00 AM	74.4	210.2	3.6	210.1	3.3
7/26/2023	9:00:00 AM	70.3	191.9	2.6	190.8	2.5
7/26/2023	9:05:00 AM	68.9	228.3	4.6	227.7	4.4
7/26/2023	9:10:00 AM	74.3	232.9	4.1	234.7	4
7/26/2023	9:15:00 AM	73.2	217.4	3.2	221.6	2.8
7/26/2023	9:20:00 AM	65	231.4	5.6	230.8	5.4
7/26/2023	9:25:00 AM	60.7	231.6	6.2	231.1	6.1
7/26/2023	9:30:00 AM	61.1	233.8	6.5	233.7	6.3
7/26/2023	9:35:00 AM	57.2	224.1	6.4	225.9	6.1
7/26/2023	9:40:00 AM	51.1	228	6.7	228.8	6.6
7/26/2023	9:45:00 AM	50.6	228.7	6.6	229.9	6.4
7/26/2023	9:50:00 AM	51.5	186.2	4.1	189.4	3.8
7/26/2023	9:55:00 AM	46.5	181.7	4.1	174.2	3.7
7/26/2023	10:00:00 AM	44.1	212.4	6	214	5.5
7/26/2023	10:05:00 AM	47.3	231.1	7.9	230.3	7.7
7/26/2023	10:10:00 AM	47.9	235.5	5.7	234.5	5.6
7/26/2023	10:15:00 AM	45.5	225	4.2	224.4	4
7/26/2023	10:20:00 AM	47.7	200.5	5.7	203.3	5.5
7/26/2023	10:25:00 AM	55.6	157.2	3.2	162.8	2.8
7/26/2023	10:30:00 AM	57.8	202.7	5.5	205.2	5.2
7/26/2023	10:35:00 AM	56.7	213.3	4.1	215.7	3.6
7/26/2023	10:40:00 AM	61	216.4	4.6	216.3	4
7/26/2023	10:45:00 AM	65.9	210.1	5.5	209.8	5.3
7/26/2023	10:50:00 AM	64.3	180.1	5.7	182.9	5
7/26/2023	10:55:00 AM	62.1	200.1	4.8	196	4.3
7/26/2023	11:00:00 AM	65.3	181.3	4.2	176	3.3
7/26/2023	11:05:00 AM	65.4	132.7	3.2	131.7	2.9
7/26/2023	11:10:00 AM	59.4	231.9	7.7	234.6	7.5
7/26/2023	11:15:00 AM	56.8	242.8	4.8	242.9	4.5
7/26/2023	11:20:00 AM	59.7	192.3	4.1	225.3	3.5
7/26/2023	11:25:00 AM	59.5	200.7	2.8	228.8	2.5
7/26/2023	11:30:00 AM	56.3	233.7	1.6	242.1	1.1
7/26/2023	11:35:00 AM	56.6	252.9	5.7	250.6	5.4
7/26/2023	11:40:00 AM	61.6	229	5.2	229	5
7/26/2023	11:45:00 AM	56.9	240.2	5.4	238.1	5.2
7/26/2023	11:50:00 AM	51.1	239.8	7.6	237.6	6.9
7/26/2023	11:55:00 AM	54.3	216.3	6.1	216.8	6
7/26/2023	12:00:00 PM	54.2	250.4	7.5	249.8	7
7/26/2023	12:05:00 PM	49.1	290	8.7	290.3	8.6
7/26/2023	12:10:00 PM	47	308.5	4.5	306.4	4.3
7/26/2023	12:15:00 PM	47.1	241.5	7.3	236.5	6
7/26/2023	12:20:00 PM	45.2	256.6	4.8	249.6	2.7
7/26/2023	12:25:00 PM	40.6	277.3	5.2	277	4.8
7/26/2023	12:30:00 PM	44	250.2	6.7	252.4	6.1
7/26/2023	12:35:00 PM	49.1	270.6	7.2	274.7	6.9
7/26/2023	12:40:00 PM	46.6	233.5	6.8	234.1	6.6
7/26/2023	12:45:00 PM	43.5	244.1	6.8	241.2	6.3
7/26/2023	12:50:00 PM	46.2	287.9	5.6	287.9	5.3
7/26/2023	12:55:00 PM	46.3	297.8	4.1	296.8	3.7
7/26/2023	1:00:00 PM	40.3	301.3	4.5	297.7	3.4
7/26/2023	1:05:00 PM	40.9	287.7	4.5	281.4	4
7/26/2023	1:10:00 PM	44.7	302.2	4.2	300.9	3.6

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/26/2023	1:15:00 PM	42.2	294.3	7	283.4	6.6
7/26/2023	1:20:00 PM	39.4	282.8	7.6	277.3	7.1
7/26/2023	1:25:00 PM	44.4	252.5	6.4	257.7	5.7
7/26/2023	1:30:00 PM	47.4	286.1	6.8	283.6	6.6
7/26/2023	1:35:00 PM	44.4	285.2	9.2	286.6	8.8
7/26/2023	1:40:00 PM	44.4	300.6	6.3	299.1	6.1
7/26/2023	1:45:00 PM	48.6	256.6	7.9	255.2	7.6
7/26/2023	1:50:00 PM	47	258.5	6.9	258.2	6.6
7/26/2023	1:55:00 PM	42.1	300.2	7.3	291.5	6.9
7/26/2023	2:00:00 PM	42.8	315.8	7.7	304.2	6.8
7/26/2023	2:05:00 PM	47.3	286.3	8.8	285	8.2
7/26/2023	2:10:00 PM	46.7	308.7	8.7	304.1	8.4
7/26/2023	2:15:00 PM	45.2	294.3	9.1	293.8	8.9
7/26/2023	2:20:00 PM	45.9	286.5	8.9	285	8.5
7/26/2023	2:25:00 PM	45.8	283	10.1	284.1	9.9
7/26/2023	2:30:00 PM	41.7	283.9	7	283.6	6.8
7/26/2023	2:35:00 PM	41	279.9	8.3	282.8	7.9
7/26/2023	2:40:00 PM	44.1	304.7	6.6	300	6.4
7/26/2023	2:45:00 PM	42.7	291.7	5.8	288.4	5.4
7/26/2023	2:50:00 PM	38.8	289.4	10.2	290.8	10
7/26/2023	2:55:00 PM	42.1	282.2	7.8	278.6	7.6
7/26/2023	3:00:00 PM	44.8	275.2	10.6	276.5	10
7/26/2023	3:05:00 PM	41.7	280.6	10.8	281.2	10.3
7/26/2023	3:10:00 PM	40.4	287.5	11.4	287.8	11.2
7/26/2023	3:15:00 PM	48.7	257.9	9.2	262.4	8.8
7/26/2023	3:20:00 PM	64.4	265.6	11.1	266	10.4
7/26/2023	3:25:00 PM	64	269.5	10.2	269.2	9.9
7/26/2023	3:30:00 PM	61.3	276.2	10.7	275.4	10.5
7/26/2023	3:35:00 PM	58.8	278.2	7.8	278	7.6
7/26/2023	3:40:00 PM	52.4	259.5	7.4	257.4	7.1
7/26/2023	3:45:00 PM	44.9	279.4	9.2	282.2	8.7
7/26/2023	3:50:00 PM	44	285.1	12.5	283.3	12.3
7/26/2023	3:55:00 PM	44.6	289.3	8.8	287.1	8.5
7/26/2023	4:00:00 PM	40.6	305.2	8.8	300.2	8.4
7/26/2023	4:05:00 PM	38.8	281.4	9.3	283.4	9
7/26/2023	4:10:00 PM	39.9	283.6	11	283.2	10.5
7/26/2023	4:15:00 PM	39.8	304	7.3	296.3	6.9
7/26/2023	4:20:00 PM	34.7	281.1	10.2	280.6	9.9
7/26/2023	4:25:00 PM	33.6	274.3	9	275.4	8.5
7/26/2023	4:30:00 PM	34.9	273.8	9.3	274.5	8.8
7/26/2023	4:35:00 PM	32.6	273.1	8.9	274.7	8.4
7/26/2023	4:40:00 PM	29.2	292.7	11.1	291.5	10.8
7/26/2023	4:45:00 PM	31.5	317.8	4.6	304.7	4
7/26/2023	4:50:00 PM	32.1	315.1	6.9	301.3	6.4
7/26/2023	4:55:00 PM	27.3	289.4	8.3	288.6	8
7/26/2023	5:00:00 PM	24.6	300.8	8.9	299.3	8.7
7/26/2023	5:05:00 PM	26.7	273.3	9.3	274.5	9
7/26/2023	5:10:00 PM	27.8	290.4	8.1	290.7	8
7/26/2023	5:15:00 PM	25	276	7.5	278.9	7
7/26/2023	5:20:00 PM	24.9	265.2	7.2	265.4	6.9
7/26/2023	5:25:00 PM	28	293.8	7.4	292.3	7.2
7/26/2023	5:30:00 PM	27.5	308.3	7.9	302.6	7.6
7/26/2023	5:35:00 PM	24.7	305.5	5.4	302.8	5.2

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/26/2023	5:40:00 PM	26.1	293.2	6.1	289.5	5.9
7/26/2023	5:45:00 PM	28.6	293.5	6.9	290.9	6.7
7/26/2023	5:50:00 PM	26.2	287.4	7	285.6	6.8
7/26/2023	5:55:00 PM	24	282.9	9.8	282.8	9.6
7/26/2023	6:00:00 PM	25.8	294	8.9	294.1	8.8
7/26/2023	6:05:00 PM	26.9	292.3	8.4	292.5	8.3
7/26/2023	6:10:00 PM	24.4	288.1	8	288.4	7.9
7/26/2023	6:15:00 PM	23.9	302.6	6	301.7	5.7
7/26/2023	6:20:00 PM	26.4	295.6	8.6	295.7	8.5
7/26/2023	6:25:00 PM	26.6	290.6	7.1	290.8	7
7/26/2023	6:30:00 PM	24.1	285	6.5	285.6	6.4
7/26/2023	6:35:00 PM	25.1	289.2	8.3	288.2	8.2
7/26/2023	6:40:00 PM	28.4	281.1	6.6	281.3	6.4
7/26/2023	6:45:00 PM	27.8	284.3	6.9	284.8	6.8
7/26/2023	6:50:00 PM	25.1	280	7.1	279.6	7
7/26/2023	6:55:00 PM	25.5	277.6	7.3	277.4	7.3
7/26/2023	7:00:00 PM	28.6	282.9	7.2	283.1	7
7/26/2023	7:05:00 PM	27.3	276	5.7	275.9	5.6
7/26/2023	7:10:00 PM	25.2	271.8	6.3	271.5	6.3
7/26/2023	7:15:00 PM	26.5	274.1	5.9	274	5.8
7/26/2023	7:20:00 PM	28.5	277.7	5.6	278.3	5.5
7/26/2023	7:25:00 PM	27	279.6	5.7	279.3	5.6
7/26/2023	7:30:00 PM	24.9	280.6	6.2	280.3	6.1
7/26/2023	7:35:00 PM	27.4	277.6	5	277.6	4.9
7/26/2023	7:40:00 PM	29.7	275	5.1	274.8	5
7/26/2023	7:45:00 PM	28	273.5	5.8	273.6	5.7
7/26/2023	7:50:00 PM	25.5	272.5	5.3	272.3	5.3
7/26/2023	7:55:00 PM	27.2	265.2	5.4	266.1	5.3
7/26/2023	8:00:00 PM	31.2	255.2	6.3	255.3	6.3
7/26/2023	8:05:00 PM	32.1	260.3	6.9	260.4	6.7
7/26/2023	8:10:00 PM	32	261.4	5.7	261	5.6
7/26/2023	8:15:00 PM	35.8	265.6	3.8	265.9	3.7
7/26/2023	8:20:00 PM	39.4	262.7	3.9	262.6	3.9
7/26/2023	8:25:00 PM	38.1	257	4	258.1	3.9
7/26/2023	8:30:00 PM	36	228.6	3.7	230.6	3.3
7/26/2023	8:35:00 PM	40.2	240.1	4	240.1	3.9
7/26/2023	8:40:00 PM	46	242.6	4.9	242	4.8
7/26/2023	8:45:00 PM	44.1	245.2	5.2	245.9	5.1
7/26/2023	8:50:00 PM	40.2	247.5	4.6	248	4.5
7/26/2023	8:55:00 PM	40.8	238.9	5.2	238.9	5.1
7/26/2023	9:00:00 PM	42.4	230.9	5.5	231	5.4
7/26/2023	9:05:00 PM	40.7	205.1	3.7	205.2	3.7
7/26/2023	9:10:00 PM	39.8	198.4	5.4	198.6	5.3
7/26/2023	9:15:00 PM	43	182.2	3.9	183.4	3.7
7/26/2023	9:20:00 PM	48.1	163.3	8.7	164.4	8.4
7/26/2023	9:25:00 PM	54.5	172.2	16.8	171	16
7/26/2023	9:30:00 PM	93.9	175.3	16.4	176.1	15.8
7/26/2023	9:35:00 PM	293.3	141	16.3	140.5	15.9
7/26/2023	9:40:00 PM	1169.5	141.8	23.8	141.5	23
7/26/2023	9:45:00 PM	2894.2	127.6	31.1	128.1	30.5
7/26/2023	9:50:00 PM	4555	130	29.1	130	28.8
7/26/2023	9:55:00 PM	5125	130.4	29.5	129.9	29.2
7/26/2023	10:00:00 PM	4617.3	126.8	27.1	126.7	26.7

Site: Higley						
Date	Time	PM_{10} (µg/m_3)	Sustained Wind Direction (Degree)	Sustained Windspeed (MPH)	Wind Direction (Degree)	Windspeed (MPH)
7/26/2023	10:05:00 PM	3766.2	118.3	27.8	118.4	27.4
7/26/2023	10:10:00 PM	2893.5	118.5	26.4	118.4	25.9
7/26/2023	10:15:00 PM	2135.7	129.7	21.2	130.2	20.7
7/26/2023	10:20:00 PM	1550	139.1	19.3	139.2	19
7/26/2023	10:25:00 PM	1107.5	150.5	10.5	147.4	9.9
7/26/2023	10:30:00 PM	786.5	154.6	9.3	156	8.7
7/26/2023	10:35:00 PM	555.4	124.6	16.2	124.3	15.8
7/26/2023	10:40:00 PM	388.7	119.7	19.1	119.6	18.7
7/26/2023	10:45:00 PM	274	123.8	14.6	122.9	14.2
7/26/2023	10:50:00 PM	194.5	119	5.5	122.7	0.6
7/26/2023	10:55:00 PM	142.3	4.2	6.4	1.9	5.9
7/26/2023	11:00:00 PM	115.8	12.6	13.1	12.2	11.9
7/26/2023	11:05:00 PM	106.6	24.1	14.5	24.5	14.1
7/26/2023	11:10:00 PM	99	44.6	9.9	41.4	9.4
7/26/2023	11:15:00 PM	77.3	334.1	3.2	324.4	1.1
7/26/2023	11:20:00 PM	68.8	63.6	5.3	95	3.2
7/26/2023	11:25:00 PM	50.8	135.8	13.5	136.7	13
7/26/2023	11:30:00 PM	33.1	121.6	18.6	122.2	18.4
7/26/2023	11:35:00 PM	24.1	108.5	13.6	109	13.4
7/26/2023	11:40:00 PM	22.1	116.5	12.1	116.5	11.9
7/26/2023	11:45:00 PM	17.4	100.3	15.3	100.6	15
7/26/2023	11:50:00 PM	10.6	87.7	20.1	87.5	19.3
7/26/2023	11:55:00 PM	20.4	68.6	20.4	68.8	20.1
	Average	165.3	207	6.6	205.2	1.4
	Max	5125	334.1	31.1	324.4	30.5
	Max Hour	360257.3448	6592.675765	24.36151846	6493.778775	23.67709337
	Min	10.6	4.2	0	1.9	0.3
	Count	288	288	288	288	288
	Total	47622.7	55860.8	1919.5	55872.7	1844.3

Site: Higley				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	12:00:00 AM	50	218.5	1.1
7/14/2024	12:05:00 AM	45.8	203.2	0.4
7/14/2024	12:10:00 AM	43.3	197.8	2.3
7/14/2024	12:15:00 AM	51	187.2	2.9
7/14/2024	12:20:00 AM	51.9	196.7	2.8
7/14/2024	12:25:00 AM	44.8	204.5	3.4
7/14/2024	12:30:00 AM	52.1	216.6	3.5
7/14/2024	12:35:00 AM	58.8	215.3	3.9
7/14/2024	12:40:00 AM	52.2	219.6	4.8
7/14/2024	12:45:00 AM	53.8	202.2	4.1
7/14/2024	12:50:00 AM	59	192.7	4.3
7/14/2024	12:55:00 AM	60	194.3	4.4
7/14/2024	1:00:00 AM	71.5	193.1	3.2
7/14/2024	1:05:00 AM	77.9	185	2
7/14/2024	1:10:00 AM	73.6	161.6	1.6
7/14/2024	1:15:00 AM	73.7	158	2.6
7/14/2024	1:20:00 AM	79.1	161.9	2.6
7/14/2024	1:25:00 AM	72.4	159.8	3.6
7/14/2024	1:30:00 AM	65.9	170.9	3.3
7/14/2024	1:35:00 AM	64.7	188.2	2.9
7/14/2024	1:40:00 AM	61	194.5	3.3
7/14/2024	1:45:00 AM	52	196.5	2.9
7/14/2024	1:50:00 AM	53.9	170.7	3.3
7/14/2024	1:55:00 AM	57.9	168.6	3.7
7/14/2024	2:00:00 AM	52	158.7	4.3
7/14/2024	2:05:00 AM	59	167.1	4.1
7/14/2024	2:10:00 AM	65.8	180.3	3.7
7/14/2024	2:15:00 AM	63.2	195.1	5
7/14/2024	2:20:00 AM	64.8	193.8	5.9
7/14/2024	2:25:00 AM	65.7	187.2	6.1
7/14/2024	2:30:00 AM	56.2	187.1	7
7/14/2024	2:35:00 AM	49	193.3	8.7
7/14/2024	2:40:00 AM	46.1	204.1	8.8
7/14/2024	2:45:00 AM	38.6	203	8.4
7/14/2024	2:50:00 AM	42.3	209.5	10.9
7/14/2024	2:55:00 AM	49.4	215.2	11.3
7/14/2024	3:00:00 AM	46.7	226.5	11.6
7/14/2024	3:05:00 AM	62.2	226.5	10.9
7/14/2024	3:10:00 AM	68.9	219.3	9.5
7/14/2024	3:15:00 AM	59.8	222.9	8
7/14/2024	3:20:00 AM	55.8	214.6	7.5
7/14/2024	3:25:00 AM	54	191.6	6
7/14/2024	3:30:00 AM	45.4	199.8	7.3

Site: Higley				
Date	Time	PM_{10} ($\mu g/m_3$)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	3:35:00 AM	58.8	198.2	6.2
7/14/2024	3:40:00 AM	73.6	202.4	6
7/14/2024	3:45:00 AM	84.2	200.3	5.2
7/14/2024	3:50:00 AM	91.9	199.2	5.8
7/14/2024	3:55:00 AM	97.5	197.3	5.2
7/14/2024	4:00:00 AM	100.2	200.3	4.5
7/14/2024	4:05:00 AM	95.7	200.5	5.6
7/14/2024	4:10:00 AM	98.2	203.8	5.4
7/14/2024	4:15:00 AM	95.6	219.3	4.9
7/14/2024	4:20:00 AM	85.6	208.4	4.8
7/14/2024	4:25:00 AM	83.9	187.6	3.6
7/14/2024	4:30:00 AM	81.3	198.4	3.5
7/14/2024	4:35:00 AM	67	177.1	3.1
7/14/2024	4:40:00 AM	64.7	202.2	4
7/14/2024	4:45:00 AM	63.6	203.8	4.2
7/14/2024	4:50:00 AM	56.3	199.1	3.8
7/14/2024	4:55:00 AM	48.2	196.8	4.3
7/14/2024	5:00:00 AM	44.8	195.1	5.7
7/14/2024	5:05:00 AM	43.2	197.1	4.4
7/14/2024	5:10:00 AM	35.3	193.7	3.4
7/14/2024	5:15:00 AM	36.3	209.4	4
7/14/2024	5:20:00 AM	40.3	209.6	3.8
7/14/2024	5:25:00 AM	30.9	283.9	2.1
7/14/2024	5:30:00 AM	35.6	282.7	2
7/14/2024	5:35:00 AM	39.5	235.4	3.7
7/14/2024	5:40:00 AM	35.4	263.7	1.7
7/14/2024	5:45:00 AM	30.2	345.7	1.1
7/14/2024	5:50:00 AM	32	357.8	1.4
7/14/2024	5:55:00 AM	33.9	171.4	0.7
7/14/2024	6:00:00 AM	25.4	164.1	4.9
7/14/2024	6:05:00 AM	39	169.7	4.9
7/14/2024	6:10:00 AM	48.4	209	3.3
7/14/2024	6:15:00 AM	31.9	210.8	2.9
7/14/2024	6:20:00 AM	29.1	218.7	2.9
7/14/2024	6:25:00 AM	35	211.8	2.5
7/14/2024	6:30:00 AM	31.4	197.6	2
7/14/2024	6:35:00 AM	33.3	224.3	2.7
7/14/2024	6:40:00 AM	40.1	225.5	4.4
7/14/2024	6:45:00 AM	35.4	207.7	2.9
7/14/2024	6:50:00 AM	29.8	203.5	2.7
7/14/2024	6:55:00 AM	36.2	200.5	1.5
7/14/2024	7:00:00 AM	39.3	202.1	1.9
7/14/2024	7:05:00 AM	32.5	199.2	2

Site: Higley				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	7:10:00 AM	37.7	216.5	1.3
7/14/2024	7:15:00 AM	43.7	142.1	1
7/14/2024	7:20:00 AM	38.7	181.5	0.7
7/14/2024	7:25:00 AM	47.8	124.9	1.2
7/14/2024	7:30:00 AM	52.1	55.2	1.1
7/14/2024	7:35:00 AM	48.3	18.2	1.9
7/14/2024	7:40:00 AM	52	29.2	2.7
7/14/2024	7:45:00 AM	62.6	350.6	4.1
7/14/2024	7:50:00 AM	44.6	333.7	2
7/14/2024	7:55:00 AM	35.8	20.5	1.3
7/14/2024	8:00:00 AM	36.7	5.9	2.2
7/14/2024	8:05:00 AM	33.5	9.6	1.2
7/14/2024	8:10:00 AM	31	14.2	2.1
7/14/2024	8:15:00 AM	40.6	64	2.7
7/14/2024	8:20:00 AM	48.7	64.2	4.4
7/14/2024	8:25:00 AM	33.8	70.8	3.6
7/14/2024	8:30:00 AM	33.1	112.3	0.4
7/14/2024	8:35:00 AM	40.5	55.4	5
7/14/2024	8:40:00 AM	35.8	37.3	1.2
7/14/2024	8:45:00 AM	36.1	28.9	1.6
7/14/2024	8:50:00 AM	45.6	53.8	1
7/14/2024	8:55:00 AM	46.5	329.8	1
7/14/2024	9:00:00 AM	37	351.1	1.3
7/14/2024	9:05:00 AM	43.3	97.1	2.9
7/14/2024	9:10:00 AM	45.1	139.2	2.8
7/14/2024	9:15:00 AM	37.7	254.5	1
7/14/2024	9:20:00 AM	39.2	122.3	1.8
7/14/2024	9:25:00 AM	48.3	83.4	2.3
7/14/2024	9:30:00 AM	38.5	110.5	4.5
7/14/2024	9:35:00 AM	25.6	144.3	3
7/14/2024	9:40:00 AM	41.4	188	5.5
7/14/2024	9:45:00 AM	39.7	195.8	1.9
7/14/2024	9:50:00 AM	32.6	209.9	2.7
7/14/2024	9:55:00 AM	29.2	197.6	5.5
7/14/2024	10:00:00 AM	37	224.4	9.3
7/14/2024	10:05:00 AM	26.1	249.6	6.3
7/14/2024	10:10:00 AM	37.4	233.1	1.7
7/14/2024	10:15:00 AM	44	205.8	3.5
7/14/2024	10:20:00 AM	31.7	194.3	2.2
7/14/2024	10:25:00 AM	25	232.2	8
7/14/2024	10:30:00 AM	36	197.8	6.2
7/14/2024	10:35:00 AM	32.9	180.7	2.9
7/14/2024	10:40:00 AM	17.1	211.8	5.6

Site: Higley				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	10:45:00 AM	27	212.5	2.2
7/14/2024	10:50:00 AM	27.8	234.9	4.4
7/14/2024	10:55:00 AM	16.6	220.7	8.3
7/14/2024	11:00:00 AM	26.6	226	5.3
7/14/2024	11:05:00 AM	32	198.6	2.3
7/14/2024	11:10:00 AM	24.6	184.3	4.2
7/14/2024	11:15:00 AM	28.1	253.3	4.7
7/14/2024	11:20:00 AM	46.6	169.3	1.8
7/14/2024	11:25:00 AM	37.1	350.1	1
7/14/2024	11:30:00 AM	24.3	230.7	5.4
7/14/2024	11:35:00 AM	37.9	228.2	6.5
7/14/2024	11:40:00 AM	32.6	195.3	5.1
7/14/2024	11:45:00 AM	22.7	139.8	1.6
7/14/2024	11:50:00 AM	34.9	190.1	3.3
7/14/2024	11:55:00 AM	34.9	239.7	7.3
7/14/2024	12:00:00 PM	25.8	233.7	6.7
7/14/2024	12:05:00 PM	35.2	199.7	7.4
7/14/2024	12:10:00 PM	38.6	171.3	4.1
7/14/2024	12:15:00 PM	24.2	264.6	6.2
7/14/2024	12:20:00 PM	25	247.3	6
7/14/2024	12:25:00 PM	42.6	234.9	5.6
7/14/2024	12:30:00 PM	31	218.7	2.1
7/14/2024	12:35:00 PM	25.2	234.3	4.6
7/14/2024	12:40:00 PM	38.2	231.4	4.4
7/14/2024	12:45:00 PM	36.9	298.9	4
7/14/2024	12:50:00 PM	27.4	292.9	10.7
7/14/2024	12:55:00 PM	41.4	265.5	5.4
7/14/2024	1:00:00 PM	44.7	301.4	5.8
7/14/2024	1:05:00 PM	29.9	317.3	3.8
7/14/2024	1:10:00 PM	31.5	291.2	4.2
7/14/2024	1:15:00 PM	41.3	332.5	2.6
7/14/2024	1:20:00 PM	31.7	251.8	4.1
7/14/2024	1:25:00 PM	30.5	278.3	8.2
7/14/2024	1:30:00 PM	45.9	282.2	9.5
7/14/2024	1:35:00 PM	40.5	282.5	5.4
7/14/2024	1:40:00 PM	21.1	280.3	4.9
7/14/2024	1:45:00 PM	30.6	198.9	2.5
7/14/2024	1:50:00 PM	37.6	242.4	2.7
7/14/2024	1:55:00 PM	23.3	292.8	6.4
7/14/2024	2:00:00 PM	29.9	306.9	3.9
7/14/2024	2:05:00 PM	39.7	334.8	2.6
7/14/2024	2:10:00 PM	33.4	325.9	2.1
7/14/2024	2:15:00 PM	27.2	283.4	7

Site: Higley				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	2:20:00 PM	36	278.5	2.7
7/14/2024	2:25:00 PM	30.1	219	7.9
7/14/2024	2:30:00 PM	19.7	220.6	7
7/14/2024	2:35:00 PM	35	255.3	7.7
7/14/2024	2:40:00 PM	35.6	283.4	9.2
7/14/2024	2:45:00 PM	19.8	262.8	5.9
7/14/2024	2:50:00 PM	31.5	276.5	7.4
7/14/2024	2:55:00 PM	36.6	299.9	4
7/14/2024	3:00:00 PM	26.4	224.1	6.2
7/14/2024	3:05:00 PM	25.4	214.1	6.2
7/14/2024	3:10:00 PM	32.3	228.4	4
7/14/2024	3:15:00 PM	21.2	285.5	6.1
7/14/2024	3:20:00 PM	19.8	291.5	5.8
7/14/2024	3:25:00 PM	30.6	268	7.4
7/14/2024	3:30:00 PM	22.7	266.6	3.2
7/14/2024	3:35:00 PM	17.8	244.2	7.6
7/14/2024	3:40:00 PM	34.7	241.4	10.4
7/14/2024	3:45:00 PM	35.3	243.9	9.4
7/14/2024	3:50:00 PM	23.8	280	7
7/14/2024	3:55:00 PM	34.1	263.3	8.7
7/14/2024	4:00:00 PM	36.6	244.1	8
7/14/2024	4:05:00 PM	28.3	268.6	8.7
7/14/2024	4:10:00 PM	31.3	267.6	9.7
7/14/2024	4:15:00 PM	35.7	277.9	7.7
7/14/2024	4:20:00 PM	26.1	280	6.5
7/14/2024	4:25:00 PM	23.8	298.8	3.4
7/14/2024	4:30:00 PM	34	290.5	7.8
7/14/2024	4:35:00 PM	36.6	281.7	10
7/14/2024	4:40:00 PM	29.3	268.5	5.2
7/14/2024	4:45:00 PM	31.9	274	7.8
7/14/2024	4:50:00 PM	36.5	277.5	10.1
7/14/2024	4:55:00 PM	28.3	256.3	9.7
7/14/2024	5:00:00 PM	30.9	282.4	8.6
7/14/2024	5:05:00 PM	36.3	269.7	5.6
7/14/2024	5:10:00 PM	33.2	259.6	5.7
7/14/2024	5:15:00 PM	41.5	290.6	7.4
7/14/2024	5:20:00 PM	45.6	284.3	9.1
7/14/2024	5:25:00 PM	38.9	282.7	7.2
7/14/2024	5:30:00 PM	27.2	249	7.6
7/14/2024	5:35:00 PM	32.5	244.5	9.5
7/14/2024	5:40:00 PM	34.9	249.8	9.4
7/14/2024	5:45:00 PM	28.3	270	9
7/14/2024	5:50:00 PM	33.7	272.9	9

Site: Higley				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	5:55:00 PM	37.4	287.7	7.1
7/14/2024	6:00:00 PM	26.5	258.9	10.1
7/14/2024	6:05:00 PM	23	270.4	9.8
7/14/2024	6:10:00 PM	29.8	271.5	11.7
7/14/2024	6:15:00 PM	30.1	256.8	8.7
7/14/2024	6:20:00 PM	28.2	275.5	8.1
7/14/2024	6:25:00 PM	30	241.6	9.8
7/14/2024	6:30:00 PM	28.5	252.8	7.4
7/14/2024	6:35:00 PM	28.3	244.7	8.1
7/14/2024	6:40:00 PM	28.6	267.4	8.8
7/14/2024	6:45:00 PM	31.2	247.5	8.8
7/14/2024	6:50:00 PM	28.8	238	7.6
7/14/2024	6:55:00 PM	27.3	251.4	8.2
7/14/2024	7:00:00 PM	31.6	251.2	7.2
7/14/2024	7:05:00 PM	40.2	253.2	6.5
7/14/2024	7:10:00 PM	33.7	256.3	7.2
7/14/2024	7:15:00 PM	37.7	251	7.2
7/14/2024	7:20:00 PM	31.4	248.2	6.2
7/14/2024	7:25:00 PM	26.3	241.5	7.5
7/14/2024	7:30:00 PM	32.6	237.8	6.5
7/14/2024	7:35:00 PM	31.9	238	7.7
7/14/2024	7:40:00 PM	26.4	246.3	8.2
7/14/2024	7:45:00 PM	32.6	232.7	7.6
7/14/2024	7:50:00 PM	38.4	240.4	6.2
7/14/2024	7:55:00 PM	35.6	235.9	10
7/14/2024	8:00:00 PM	44.7	226.3	6.4
7/14/2024	8:05:00 PM	45.2	215.6	8
7/14/2024	8:10:00 PM	34.1	221	8.1
7/14/2024	8:15:00 PM	37.4	207.2	11.9
7/14/2024	8:20:00 PM	104.9	197.9	15.8
7/14/2024	8:25:00 PM	1699.3	204.8	12.3
7/14/2024	8:30:00 PM	3244.8	196.1	13.9
7/14/2024	8:35:00 PM	3102.1	197.4	17.8
7/14/2024	8:40:00 PM	2864	200.6	13.9
7/14/2024	8:45:00 PM	2402.5	202	21.7
7/14/2024	8:50:00 PM	1972.5	208.4	19.8
7/14/2024	8:55:00 PM	1529.6	208.6	22.2
7/14/2024	9:00:00 PM	1611.2	205.4	19.2
7/14/2024	9:05:00 PM	1221.4	209	16
7/14/2024	9:10:00 PM	821.9	212.6	20.4
7/14/2024	9:15:00 PM	656.1	213.4	18
7/14/2024	9:20:00 PM	678.8	217.7	18.9
7/14/2024	9:25:00 PM	579.9	218.9	17.7

Site: Higley				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	9:30:00 PM	407.4	220.3	16.7
7/14/2024	9:35:00 PM	270.5	219.4	15.3
7/14/2024	9:40:00 PM	173.3	219.9	15.3
7/14/2024	9:45:00 PM	138.3	232.3	14.4
7/14/2024	9:50:00 PM	138.5	231.1	13.1
7/14/2024	9:55:00 PM	128.3	245.6	10.2
7/14/2024	10:00:00 PM	116.3	245.6	11
7/14/2024	10:05:00 PM	105.6	257	9.5
7/14/2024	10:10:00 PM	95	262	8.5
7/14/2024	10:15:00 PM	91.2	273.1	6.9
7/14/2024	10:20:00 PM	95.4	277.5	7.8
7/14/2024	10:25:00 PM	106.4	295.4	6.2
7/14/2024	10:30:00 PM	128.7	342.6	6.4
7/14/2024	10:35:00 PM	297.8	352	12.3
7/14/2024	10:40:00 PM	558.2	338.8	5.1
7/14/2024	10:45:00 PM	620.4	349.6	11
7/14/2024	10:50:00 PM	571.8	340.5	3.6
7/14/2024	10:55:00 PM	453	333.9	2.3
7/14/2024	11:00:00 PM	375.3	342.2	3.9
7/14/2024	11:05:00 PM	364.1	325.3	3.1
7/14/2024	11:10:00 PM	378.2	312.8	4.6
7/14/2024	11:15:00 PM	359.8	337.6	4.7
7/14/2024	11:20:00 PM	327.8	348	8
7/14/2024	11:25:00 PM	304.5	350	7.5
7/14/2024	11:30:00 PM	282.1	347.5	10.1
7/14/2024	11:35:00 PM	280.7	355.3	10.9
7/14/2024	11:40:00 PM	299	352.1	10.4
7/14/2024	11:45:00 PM	306.6	352.5	10.1
7/14/2024	11:50:00 PM	286.4	312.3	2.8
7/14/2024	11:55:00 PM	299.8	203.4	7.9
	Average	142.0569444	225.9451389	6.127430556
	Max	3244.8	357.8	22.2
	Min	16.6	5.9	0.4

Site: Durango Complex				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	12:00:00 AM	39.6	267.8	9.7
7/14/2024	12:05:00 AM	38.9	259.2	8.6
7/14/2024	12:10:00 AM	37.8	255.3	10
7/14/2024	12:15:00 AM	35.7	255.5	8.3
7/14/2024	12:20:00 AM	33.7	253.9	9.4
7/14/2024	12:25:00 AM	32.4	255.6	9.5
7/14/2024	12:30:00 AM	31.4	259.3	10.1
7/14/2024	12:35:00 AM	30.7	263.4	8.6
7/14/2024	12:40:00 AM	30.7	267.5	9.6
7/14/2024	12:45:00 AM	31.3	267.7	7.8
7/14/2024	12:50:00 AM	30.9	266.7	8.2
7/14/2024	12:55:00 AM	30.1	262.8	6.9
7/14/2024	1:00:00 AM	29.3	268.2	9.1
7/14/2024	1:05:00 AM	28.7	267.1	9.3
7/14/2024	1:10:00 AM	28.6	267.1	9.2
7/14/2024	1:15:00 AM	28.8	271.9	10.9
7/14/2024	1:20:00 AM	28.8	271.6	10.5
7/14/2024	1:25:00 AM	28.7	271.5	11.9
7/14/2024	1:30:00 AM	28.5	274.7	10.7
7/14/2024	1:35:00 AM	28.2	278.4	8.8
7/14/2024	1:40:00 AM	27.6	291.2	9.4
7/14/2024	1:45:00 AM	25.9	290.3	8.9
7/14/2024	1:50:00 AM	25.3	285.4	11.1
7/14/2024	1:55:00 AM	25.6	284.5	10.9
7/14/2024	2:00:00 AM	26.2	283.8	12.3
7/14/2024	2:05:00 AM	26.9	280.1	13.5
7/14/2024	2:10:00 AM	27.4	275.5	13.1
7/14/2024	2:15:00 AM	28	275.5	14.4
7/14/2024	2:20:00 AM	29	274.2	14.7
7/14/2024	2:25:00 AM	31.3	269.8	16.8
7/14/2024	2:30:00 AM	35.1	263.5	11.1
7/14/2024	2:35:00 AM	39.4	262.6	12.7
7/14/2024	2:40:00 AM	43.4	258	13.8
7/14/2024	2:45:00 AM	47.8	262.8	12.7
7/14/2024	2:50:00 AM	54.2	258.2	16.4
7/14/2024	2:55:00 AM	62.7	263.8	15.5
7/14/2024	3:00:00 AM	71	264	12.9
7/14/2024	3:05:00 AM	77.9	268.6	11.6
7/14/2024	3:10:00 AM	84.1	270.1	9.9
7/14/2024	3:15:00 AM	89.7	271.9	13.8
7/14/2024	3:20:00 AM	92.3	271	12.9
7/14/2024	3:25:00 AM	93.1	273	12
7/14/2024	3:30:00 AM	92.3	276.9	12
7/14/2024	3:35:00 AM	90.3	277	12.6

Site: Durango Complex				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	3:40:00 AM	88.5	273	11.2
7/14/2024	3:45:00 AM	85.6	272.8	10.4
7/14/2024	3:50:00 AM	79.5	271.8	12.9
7/14/2024	3:55:00 AM	70.6	270.2	11
7/14/2024	4:00:00 AM	61.8	269.6	13.3
7/14/2024	4:05:00 AM	54.6	272.4	13.4
7/14/2024	4:10:00 AM	48.6	272.8	14.2
7/14/2024	4:15:00 AM	42.4	270.7	12.9
7/14/2024	4:20:00 AM	38.4	281.3	10.9
7/14/2024	4:25:00 AM	35.7	279	9.9
7/14/2024	4:30:00 AM	33.9	288.8	8.2
7/14/2024	4:35:00 AM	33	286	7.1
7/14/2024	4:40:00 AM	33.7	290.7	9.2
7/14/2024	4:45:00 AM	37.9	291.3	9.6
7/14/2024	4:50:00 AM	41.4	293.3	10.7
7/14/2024	4:55:00 AM	45.1	293.7	10.2
7/14/2024	5:00:00 AM	47.7	294.8	10.4
7/14/2024	5:05:00 AM	49.4	292.1	8.6
7/14/2024	5:10:00 AM	50.1	283.6	9.6
7/14/2024	5:15:00 AM	50.7	295.4	11.6
7/14/2024	5:20:00 AM	51	290.2	10.9
7/14/2024	5:25:00 AM	50.8	298.8	11.4
7/14/2024	5:30:00 AM	50.2	305	10.2
7/14/2024	5:35:00 AM	49	295.6	10.8
7/14/2024	5:40:00 AM	46.5	301.9	10.2
7/14/2024	5:45:00 AM	41.5	306.5	7.6
7/14/2024	5:50:00 AM	37.4	310.5	7.5
7/14/2024	5:55:00 AM	33.8	314.8	7.1
7/14/2024	6:00:00 AM	31.2	308.2	10.3
7/14/2024	6:05:00 AM	29.7	312.5	10.9
7/14/2024	6:10:00 AM	29.1	304.7	11.2
7/14/2024	6:15:00 AM	28.4	308.4	9
7/14/2024	6:20:00 AM	27.8	303.8	10.3
7/14/2024	6:25:00 AM	27.1	298.3	9.5
7/14/2024	6:30:00 AM	26.4	300	9
7/14/2024	6:35:00 AM	25.9	303.1	9.1
7/14/2024	6:40:00 AM	25.6	294.5	8.9
7/14/2024	6:45:00 AM	25.3	305.6	6.7
7/14/2024	6:50:00 AM	24.9	299.7	9
7/14/2024	6:55:00 AM	24.6	298.3	9.9
7/14/2024	7:00:00 AM	24.2	302.7	7.9
7/14/2024	7:05:00 AM	23.7	296.3	8.1
7/14/2024	7:10:00 AM	23.1	294.2	7.3
7/14/2024	7:15:00 AM	22.7	281.6	5.4

Site: Durango Complex				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	7:20:00 AM	23	282.1	7.9
7/14/2024	7:25:00 AM	23.3	280.8	8.5
7/14/2024	7:30:00 AM	23.5	283.6	7.1
7/14/2024	7:35:00 AM	23.7	289.5	8.1
7/14/2024	7:40:00 AM	23.7	291.9	8.3
7/14/2024	7:45:00 AM	23.3	282.5	8
7/14/2024	7:50:00 AM	23	284	8.5
7/14/2024	7:55:00 AM	22.8	273.5	7.9
7/14/2024	8:00:00 AM	22.6	273.2	7.3
7/14/2024	8:05:00 AM	22.2	282.5	7.3
7/14/2024	8:10:00 AM	21.9	270.3	5.7
7/14/2024	8:15:00 AM	21.5	279.2	6.2
7/14/2024	8:20:00 AM	21.1	277.2	6.5
7/14/2024	8:25:00 AM	21	282.5	7.2
7/14/2024	8:30:00 AM	20.9	274.4	7.6
7/14/2024	8:35:00 AM	20.6	282.4	7.5
7/14/2024	8:40:00 AM	20.2	256.7	5.6
7/14/2024	8:45:00 AM	19.4	302.3	7
7/14/2024	8:50:00 AM	18.6	266.2	6.2
7/14/2024	8:55:00 AM	18	297	7.8
7/14/2024	9:00:00 AM	17.5	285.6	6.3
7/14/2024	9:05:00 AM	17.2	254	6
7/14/2024	9:10:00 AM	17.4	257.5	5.4
7/14/2024	9:15:00 AM	17.5	274.1	4.7
7/14/2024	9:20:00 AM	17.6	278	7.1
7/14/2024	9:25:00 AM	17.6	268.6	6.5
7/14/2024	9:30:00 AM	17.9	275.9	3.7
7/14/2024	9:35:00 AM	18.4	320.9	4.3
7/14/2024	9:40:00 AM	19.1	264	3.9
7/14/2024	9:45:00 AM	19.8	266.7	5.9
7/14/2024	9:50:00 AM	20.5	228.1	2.3
7/14/2024	9:55:00 AM	21.6	301.4	5.1
7/14/2024	10:00:00 AM	22.8	264	3.9
7/14/2024	10:05:00 AM	23.9	294.8	2.4
7/14/2024	10:10:00 AM	24.8	295	6.9
7/14/2024	10:15:00 AM	25.3	305.9	7.6
7/14/2024	10:20:00 AM	25.6	293.5	9.4
7/14/2024	10:25:00 AM	25.5	291.7	7.9
7/14/2024	10:30:00 AM	25.1	304	6.8
7/14/2024	10:35:00 AM	24.6	283.5	5.9
7/14/2024	10:40:00 AM	24.2	286.6	11.5
7/14/2024	10:45:00 AM	23.7	295.6	11.7
7/14/2024	10:50:00 AM	23.2	280.7	10
7/14/2024	10:55:00 AM	22.4	272	8.4

Site: Durango Complex				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	11:00:00 AM	21.3	262.5	3.7
7/14/2024	11:05:00 AM	19.7	257.8	6.6
7/14/2024	11:10:00 AM	18.3	302.3	13.2
7/14/2024	11:15:00 AM	17.5	293.9	10.4
7/14/2024	11:20:00 AM	17.1	267.8	7.6
7/14/2024	11:25:00 AM	16.7	276.4	8.7
7/14/2024	11:30:00 AM	16.7	286.3	9.5
7/14/2024	11:35:00 AM	17.2	270.9	6.8
7/14/2024	11:40:00 AM	17.8	282.7	9.2
7/14/2024	11:45:00 AM	17.9	273.6	10.1
7/14/2024	11:50:00 AM	17.9	278.8	7.9
7/14/2024	11:55:00 AM	18.2	248.3	5.9
7/14/2024	12:00:00 PM	18.7	270.3	8.9
7/14/2024	12:05:00 PM	19.4	277.2	7.7
7/14/2024	12:10:00 PM	19.8	284.2	6.8
7/14/2024	12:15:00 PM	19.9	268.8	7.8
7/14/2024	12:20:00 PM	20.1	316.5	5.4
7/14/2024	12:25:00 PM	20.4	291.5	5.3
7/14/2024	12:30:00 PM	20.4	255.4	6
7/14/2024	12:35:00 PM	19.7	308	10.4
7/14/2024	12:40:00 PM	18.8	290.2	5.9
7/14/2024	12:45:00 PM	18.8	269.9	7.8
7/14/2024	12:50:00 PM	19.2	299	11.3
7/14/2024	12:55:00 PM	19.5	292.7	6.7
7/14/2024	1:00:00 PM	19.9	261.3	7
7/14/2024	1:05:00 PM	20.4	297.2	11.9
7/14/2024	1:10:00 PM	21.3	273.4	9.2
7/14/2024	1:15:00 PM	21.6	281.5	7.6
7/14/2024	1:20:00 PM	21.3	259	9.1
7/14/2024	1:25:00 PM	21.1	296.4	9
7/14/2024	1:30:00 PM	21.2	293.7	8.4
7/14/2024	1:35:00 PM	21.7	295.3	9.9
7/14/2024	1:40:00 PM	22.2	279.8	7.9
7/14/2024	1:45:00 PM	22	284.5	6.6
7/14/2024	1:50:00 PM	21.4	270.8	7.1
7/14/2024	1:55:00 PM	21	257.4	8.6
7/14/2024	2:00:00 PM	20.8	268.4	7.3
7/14/2024	2:05:00 PM	20.7	239.7	5.2
7/14/2024	2:10:00 PM	20.7	307.6	8.8
7/14/2024	2:15:00 PM	21	292	10.1
7/14/2024	2:20:00 PM	21.6	264.4	5.2
7/14/2024	2:25:00 PM	21.9	274.1	7.9
7/14/2024	2:30:00 PM	22.1	257	6.2
7/14/2024	2:35:00 PM	22.1	256.8	7.6

Site: Durango Complex				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	2:40:00 PM	22.2	291	7.5
7/14/2024	2:45:00 PM	22.4	280.4	10.4
7/14/2024	2:50:00 PM	23.1	275.6	10
7/14/2024	2:55:00 PM	24	242.8	8.6
7/14/2024	3:00:00 PM	24.7	249.2	7.3
7/14/2024	3:05:00 PM	24.8	263.5	10.4
7/14/2024	3:10:00 PM	24.5	263.5	7.4
7/14/2024	3:15:00 PM	23.8	265.1	9.5
7/14/2024	3:20:00 PM	23.4	281.9	9.5
7/14/2024	3:25:00 PM	23.8	280.8	10.2
7/14/2024	3:30:00 PM	24.2	265.8	11.1
7/14/2024	3:35:00 PM	24.4	274.3	8.2
7/14/2024	3:40:00 PM	24.2	268.4	9.2
7/14/2024	3:45:00 PM	24	268.2	9.2
7/14/2024	3:50:00 PM	23.5	276.7	10.3
7/14/2024	3:55:00 PM	22.9	289.4	11.8
7/14/2024	4:00:00 PM	22.2	273.9	9.7
7/14/2024	4:05:00 PM	21.6	276.5	9
7/14/2024	4:10:00 PM	20.8	291.6	12.3
7/14/2024	4:15:00 PM	21	291.3	10.6
7/14/2024	4:20:00 PM	21.4	280.6	8.8
7/14/2024	4:25:00 PM	21.6	287.6	9.9
7/14/2024	4:30:00 PM	21.6	296.6	11.1
7/14/2024	4:35:00 PM	21.6	265.7	9.5
7/14/2024	4:40:00 PM	21.7	266.1	10.6
7/14/2024	4:45:00 PM	21.9	264.1	12.6
7/14/2024	4:50:00 PM	22.1	286.1	11.6
7/14/2024	4:55:00 PM	22.5	281.3	11.6
7/14/2024	5:00:00 PM	23.1	286.7	12.6
7/14/2024	5:05:00 PM	24.2	269.6	11.5
7/14/2024	5:10:00 PM	25.5	272.9	11.1
7/14/2024	5:15:00 PM	25.6	277.4	11
7/14/2024	5:20:00 PM	25.1	263.2	10.6
7/14/2024	5:25:00 PM	24.7	264.8	11.7
7/14/2024	5:30:00 PM	24.4	271.1	11.7
7/14/2024	5:35:00 PM	24.6	264.1	12.5
7/14/2024	5:40:00 PM	25.6	286.2	11.3
7/14/2024	5:45:00 PM	27.2	270.2	10
7/14/2024	5:50:00 PM	27.3	268.7	9.4
7/14/2024	5:55:00 PM	26.7	276.8	12.4
7/14/2024	6:00:00 PM	25.7	265	11.5
7/14/2024	6:05:00 PM	24.7	273.3	11.2
7/14/2024	6:10:00 PM	24.2	268.7	12.8
7/14/2024	6:15:00 PM	24.9	270.6	12.7

Site: Durango Complex				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	6:20:00 PM	25.5	275.8	13.2
7/14/2024	6:25:00 PM	25.4	269.6	11.7
7/14/2024	6:30:00 PM	25	267.8	8.7
7/14/2024	6:35:00 PM	24.2	265	9.8
7/14/2024	6:40:00 PM	23.1	280	11.2
7/14/2024	6:45:00 PM	21.5	269.6	9.1
7/14/2024	6:50:00 PM	21	267.6	9.9
7/14/2024	6:55:00 PM	21.3	259.7	9.1
7/14/2024	7:00:00 PM	22.2	273.7	10.4
7/14/2024	7:05:00 PM	23.1	264.7	8.9
7/14/2024	7:10:00 PM	23.6	256.1	9
7/14/2024	7:15:00 PM	22.9	256.1	7.1
7/14/2024	7:20:00 PM	21.9	240.7	6.8
7/14/2024	7:25:00 PM	21.1	240	7.3
7/14/2024	7:30:00 PM	20.5	241.8	6.8
7/14/2024	7:35:00 PM	20	244.2	6.3
7/14/2024	7:40:00 PM	19.6	241.7	6.7
7/14/2024	7:45:00 PM	19	243.2	8.1
7/14/2024	7:50:00 PM	18.5	241	7.9
7/14/2024	7:55:00 PM	17.6	245.7	8.5
7/14/2024	8:00:00 PM	16.5	246	8.9
7/14/2024	8:05:00 PM	15	249.5	11.9
7/14/2024	8:10:00 PM	13.9	244.7	12.5
7/14/2024	8:15:00 PM	15.6	239.8	11.4
7/14/2024	8:20:00 PM	19.2	242.5	10.8
7/14/2024	8:25:00 PM	22.3	235.8	11.4
7/14/2024	8:30:00 PM	25	227	13.2
7/14/2024	8:35:00 PM	27.3	229.4	14
7/14/2024	8:40:00 PM	29.8	238.3	11.5
7/14/2024	8:45:00 PM	32.6	229.9	12.2
7/14/2024	8:50:00 PM	34.3	204.7	15.2
7/14/2024	8:55:00 PM	35.6	187.9	15.7
7/14/2024	9:00:00 PM	118.1	189.3	13.2
7/14/2024	9:05:00 PM	323.2	178.1	13
7/14/2024	9:10:00 PM	652	166.5	14.1
7/14/2024	9:15:00 PM	969	164.3	12.5
7/14/2024	9:20:00 PM	1148.2	170.8	12.7
7/14/2024	9:25:00 PM	1297.4	184.8	13.3
7/14/2024	9:30:00 PM	1416.6	192.5	10.8
7/14/2024	9:35:00 PM	1510.5	203.2	8.8
7/14/2024	9:40:00 PM	1608	197.7	6.4
7/14/2024	9:45:00 PM	1717	168.4	5.9
7/14/2024	9:50:00 PM	1793.6	191.3	4.7
7/14/2024	9:55:00 PM	1869.7	212.4	3.3

Site: Durango Complex				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	10:00:00 PM	1867.6	267.8	1.5
7/14/2024	10:05:00 PM	1743.2	1.4	1.8
7/14/2024	10:10:00 PM	1500	41.1	1.4
7/14/2024	10:15:00 PM	1286	358.1	4.2
7/14/2024	10:20:00 PM	1186	3.8	5.8
7/14/2024	10:25:00 PM	1114.2	14.7	3.4
7/14/2024	10:30:00 PM	1070.2	12	3.6
7/14/2024	10:35:00 PM	1045.5	38.6	2.1
7/14/2024	10:40:00 PM	1018	51.7	1.9
7/14/2024	10:45:00 PM	986.1	47.8	1.9
7/14/2024	10:50:00 PM	961	49.6	1.2
7/14/2024	10:55:00 PM	938.8	57.5	1.2
7/14/2024	11:00:00 PM	913.2	216.3	1.2
7/14/2024	11:05:00 PM	881.4	194	7
7/14/2024	11:10:00 PM	843	184	6.5
7/14/2024	11:15:00 PM	787	207.6	6
7/14/2024	11:20:00 PM	736.6	198	12.4
7/14/2024	11:25:00 PM	678.4	207.3	6.5
7/14/2024	11:30:00 PM	611.2	231.1	7.7
7/14/2024	11:35:00 PM	539.2	242.4	7
7/14/2024	11:40:00 PM	472	279.3	8.2
7/14/2024	11:45:00 PM	396	300.7	8.5
7/14/2024	11:50:00 PM	342.4	310.6	7.2
7/14/2024	11:55:00 PM	295.5	326.6	4.2
	Average	152.4847222	261.6413194	9.00625
	Max	1869.7	358.1	16.8
	Max Hour	64260.54842	4934.090461	11.61828966
	Min	16.6	5.9	0.4

Site: West Chandler				
Date	Time	PM_{10} ($\mu g/m_3$)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	12:00:00 AM	43.8	253	4.3
7/14/2024	12:05:00 AM	42.9	247	5.3
7/14/2024	12:10:00 AM	41.7	240.5	5.4
7/14/2024	12:15:00 AM	43.2	243.3	4
7/14/2024	12:20:00 AM	40.3	241	4.1
7/14/2024	12:25:00 AM	37.8	242.8	5.7
7/14/2024	12:30:00 AM	37	252.1	6
7/14/2024	12:35:00 AM	37.1	254.2	5.9
7/14/2024	12:40:00 AM	37.4	243.9	6.7
7/14/2024	12:45:00 AM	39.7	199.8	4.8
7/14/2024	12:50:00 AM	41.5	219.1	4
7/14/2024	12:55:00 AM	40.2	216	3.6
7/14/2024	1:00:00 AM	39.4	215.1	2.9
7/14/2024	1:05:00 AM	37	205.8	3.3
7/14/2024	1:10:00 AM	36.1	215.5	3.8
7/14/2024	1:15:00 AM	33.5	218.7	3.3
7/14/2024	1:20:00 AM	36	212	2.9
7/14/2024	1:25:00 AM	38.1	198.7	2.4
7/14/2024	1:30:00 AM	40.3	187.8	2.6
7/14/2024	1:35:00 AM	39.8	190.9	1.6
7/14/2024	1:40:00 AM	40.5	190.9	1.9
7/14/2024	1:45:00 AM	39.7	188.1	2.8
7/14/2024	1:50:00 AM	41.3	171.7	2.3
7/14/2024	1:55:00 AM	40.4	182.8	3.4
7/14/2024	2:00:00 AM	38	168	2.2
7/14/2024	2:05:00 AM	38.6	169.1	2.2
7/14/2024	2:10:00 AM	39.5	166.5	2.4
7/14/2024	2:15:00 AM	38.7	165.4	2.3
7/14/2024	2:20:00 AM	41.4	161	1.8
7/14/2024	2:25:00 AM	46.7	181.6	2.5
7/14/2024	2:30:00 AM	54.7	169.8	2.3
7/14/2024	2:35:00 AM	70.1	177.2	3.9
7/14/2024	2:40:00 AM	80.3	187.3	6.7
7/14/2024	2:45:00 AM	71.7	189.2	8
7/14/2024	2:50:00 AM	87.6	198.1	7.6
7/14/2024	2:55:00 AM	105.8	205.9	5.6
7/14/2024	3:00:00 AM	96.2	213.3	5.8
7/14/2024	3:05:00 AM	73.5	207.3	6.4
7/14/2024	3:10:00 AM	66.1	208.3	5
7/14/2024	3:15:00 AM	81	204.8	4.7
7/14/2024	3:20:00 AM	114	207.4	5
7/14/2024	3:25:00 AM	134.5	194.1	6.3
7/14/2024	3:30:00 AM	137	198.9	6.5

Site: West Chandler				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	3:35:00 AM	116.2	197.5	4.5
7/14/2024	3:40:00 AM	87.4	201.5	4
7/14/2024	3:45:00 AM	68.4	194.8	3.3
7/14/2024	3:50:00 AM	64.5	197.8	4.9
7/14/2024	3:55:00 AM	74.7	204	3
7/14/2024	4:00:00 AM	75.5	217.9	3
7/14/2024	4:05:00 AM	68.5	204.5	2.8
7/14/2024	4:10:00 AM	67.2	232.9	2.3
7/14/2024	4:15:00 AM	69.4	252.9	0.9
7/14/2024	4:20:00 AM	67.9	163.6	1.8
7/14/2024	4:25:00 AM	62	158.9	1.2
7/14/2024	4:30:00 AM	54.7	41.5	1.5
7/14/2024	4:35:00 AM	53.1	62.6	3.1
7/14/2024	4:40:00 AM	47.4	68.8	3.7
7/14/2024	4:45:00 AM	44.9	163.4	2.5
7/14/2024	4:50:00 AM	42	172.8	4
7/14/2024	4:55:00 AM	37.7	166.7	3.3
7/14/2024	5:00:00 AM	35.2	142.6	3.2
7/14/2024	5:05:00 AM	36.8	58.6	4.3
7/14/2024	5:10:00 AM	42.1	73.2	5.5
7/14/2024	5:15:00 AM	41.8	109.4	4.1
7/14/2024	5:20:00 AM	37	98.8	3.6
7/14/2024	5:25:00 AM	33.1	93.8	3.8
7/14/2024	5:30:00 AM	37.1	81.5	4.5
7/14/2024	5:35:00 AM	40.3	60.4	4.4
7/14/2024	5:40:00 AM	38	82.1	3.7
7/14/2024	5:45:00 AM	34.8	88.7	3.5
7/14/2024	5:50:00 AM	35	60.6	3.5
7/14/2024	5:55:00 AM	35.9	49.9	4.2
7/14/2024	6:00:00 AM	37.2	75.5	2.7
7/14/2024	6:05:00 AM	35.6	46.3	3.1
7/14/2024	6:10:00 AM	34.5	49.6	4.3
7/14/2024	6:15:00 AM	60.4	20.2	4
7/14/2024	6:20:00 AM	78.7	22.9	3.6
7/14/2024	6:25:00 AM	73.2	356.2	3.8
7/14/2024	6:30:00 AM	62.8	12	3.1
7/14/2024	6:35:00 AM	54.1	358.9	3.6
7/14/2024	6:40:00 AM	48.6	7.5	3.2
7/14/2024	6:45:00 AM	44.6	22.6	2.7
7/14/2024	6:50:00 AM	41.4	21.2	3.5
7/14/2024	6:55:00 AM	37	341.1	4.3
7/14/2024	7:00:00 AM	33.9	339.4	4.7
7/14/2024	7:05:00 AM	31.2	340.1	5.3
7/14/2024	7:10:00 AM	36.3	334.4	4.4

Site: West Chandler				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	7:15:00 AM	38.9	1.4	3.2
7/14/2024	7:20:00 AM	35.8	335.3	2.6
7/14/2024	7:25:00 AM	35.6	355.6	3.2
7/14/2024	7:30:00 AM	36.2	13.6	4.1
7/14/2024	7:35:00 AM	34.7	6.4	4.2
7/14/2024	7:40:00 AM	30.6	7.4	2.8
7/14/2024	7:45:00 AM	34.2	1	3.5
7/14/2024	7:50:00 AM	29.4	347	3.7
7/14/2024	7:55:00 AM	27.8	355.6	4.1
7/14/2024	8:00:00 AM	32.1	27.4	4.2
7/14/2024	8:05:00 AM	37.5	24.7	4.1
7/14/2024	8:10:00 AM	36.7	359.2	2.2
7/14/2024	8:15:00 AM	36	30.9	3.8
7/14/2024	8:20:00 AM	35.2	29.2	4.5
7/14/2024	8:25:00 AM	29.7	27.9	2.7
7/14/2024	8:30:00 AM	26.2	10.1	1.1
7/14/2024	8:35:00 AM	28	53.6	4.2
7/14/2024	8:40:00 AM	28.1	68.3	3.3
7/14/2024	8:45:00 AM	28.6	77.2	5.7
7/14/2024	8:50:00 AM	31.6	67.9	3.7
7/14/2024	8:55:00 AM	28.2	98.3	2.7
7/14/2024	9:00:00 AM	24.4	65.8	2.1
7/14/2024	9:05:00 AM	22.9	36.3	1
7/14/2024	9:10:00 AM	22.1	129.7	4.8
7/14/2024	9:15:00 AM	22.3	126.3	2.6
7/14/2024	9:20:00 AM	26.5	66.5	1.8
7/14/2024	9:25:00 AM	22	344.9	1.3
7/14/2024	9:30:00 AM	27.9	192.9	2.7
7/14/2024	9:35:00 AM	27.4	162.8	4.1
7/14/2024	9:40:00 AM	25.6	239	3.3
7/14/2024	9:45:00 AM	32.4	89.3	3.3
7/14/2024	9:50:00 AM	29.9	101.7	2.1
7/14/2024	9:55:00 AM	20.1	197.8	4.3
7/14/2024	10:00:00 AM	19.4	193	4.1
7/14/2024	10:05:00 AM	23.2	188.4	2.7
7/14/2024	10:10:00 AM	26	233.7	4.1
7/14/2024	10:15:00 AM	24.8	215.5	2.7
7/14/2024	10:20:00 AM	23.8	182.2	1.8
7/14/2024	10:25:00 AM	22.2	163.8	2.2
7/14/2024	10:30:00 AM	24.2	185.4	2.7
7/14/2024	10:35:00 AM	28	263.9	5.1
7/14/2024	10:40:00 AM	31.5	274.8	4.2
7/14/2024	10:45:00 AM	25.8	216.9	2.7
7/14/2024	10:50:00 AM	31.4	278	3.5

Site: West Chandler				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	10:55:00 AM	33.3	294.5	4.9
7/14/2024	11:00:00 AM	30.2	246.3	4.5
7/14/2024	11:05:00 AM	30.7	269.5	3.7
7/14/2024	11:10:00 AM	35.9	243.3	6.2
7/14/2024	11:15:00 AM	35.5	261.1	2.4
7/14/2024	11:20:00 AM	33	279.8	1.7
7/14/2024	11:25:00 AM	32.4	101.1	0.3
7/14/2024	11:30:00 AM	31.2	82.2	2
7/14/2024	11:35:00 AM	30.1	287.3	1.5
7/14/2024	11:40:00 AM	28.8	252.9	3.6
7/14/2024	11:45:00 AM	27.3	269.8	3.3
7/14/2024	11:50:00 AM	28.3	300.2	1.1
7/14/2024	11:55:00 AM	28.4	7.3	2.4
7/14/2024	12:00:00 PM	34.3	12.2	2.2
7/14/2024	12:05:00 PM	24.2	109.1	3.6
7/14/2024	12:10:00 PM	28.5	55.4	0.9
7/14/2024	12:15:00 PM	34.9	289.5	3.8
7/14/2024	12:20:00 PM	32.3	256.1	3.7
7/14/2024	12:25:00 PM	35	248.9	5.1
7/14/2024	12:30:00 PM	37.4	347.7	2.2
7/14/2024	12:35:00 PM	38.2	337.9	4.6
7/14/2024	12:40:00 PM	37.5	318.6	3.4
7/14/2024	12:45:00 PM	33.5	31.3	3.7
7/14/2024	12:50:00 PM	33.5	12.7	5.3
7/14/2024	12:55:00 PM	31.5	30.8	4.2
7/14/2024	1:00:00 PM	32.1	5.2	2.1
7/14/2024	1:05:00 PM	29.5	44.4	4.2
7/14/2024	1:10:00 PM	28.8	32.2	5
7/14/2024	1:15:00 PM	34.9	326.7	3.6
7/14/2024	1:20:00 PM	36.7	318	4.8
7/14/2024	1:25:00 PM	31.5	326.7	6.1
7/14/2024	1:30:00 PM	31.3	16	3.7
7/14/2024	1:35:00 PM	27.4	37.7	4.2
7/14/2024	1:40:00 PM	29.2	330	3.6
7/14/2024	1:45:00 PM	21.9	244.2	4
7/14/2024	1:50:00 PM	17.6	238.5	6.6
7/14/2024	1:55:00 PM	17.1	245.1	8
7/14/2024	2:00:00 PM	21.2	251.7	6.4
7/14/2024	2:05:00 PM	22	305.8	2.9
7/14/2024	2:10:00 PM	22.6	264.3	6.5
7/14/2024	2:15:00 PM	20.7	295.5	4.8
7/14/2024	2:20:00 PM	21	333.9	5.8
7/14/2024	2:25:00 PM	24.4	276.2	3.2
7/14/2024	2:30:00 PM	22.4	296.3	5.1

Site: West Chandler				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	2:35:00 PM	24.3	287.9	1.4
7/14/2024	2:40:00 PM	22.1	219.2	5.7
7/14/2024	2:45:00 PM	25.8	225.1	8.6
7/14/2024	2:50:00 PM	31.4	259.5	7.7
7/14/2024	2:55:00 PM	31.9	286	1.7
7/14/2024	3:00:00 PM	25.5	265.6	5.2
7/14/2024	3:05:00 PM	23.2	243.3	4.6
7/14/2024	3:10:00 PM	21.1	235.2	2.4
7/14/2024	3:15:00 PM	22.5	291.2	3.3
7/14/2024	3:20:00 PM	28.2	265.6	5.4
7/14/2024	3:25:00 PM	28.7	278.2	4.6
7/14/2024	3:30:00 PM	26.4	271.2	5.3
7/14/2024	3:35:00 PM	27.7	282	7.5
7/14/2024	3:40:00 PM	34.7	272.1	3.6
7/14/2024	3:45:00 PM	32.5	249.7	5.9
7/14/2024	3:50:00 PM	45.9	259.1	6.1
7/14/2024	3:55:00 PM	39.1	262.7	6.5
7/14/2024	4:00:00 PM	32.6	249.7	5.2
7/14/2024	4:05:00 PM	32.8	284.2	5.2
7/14/2024	4:10:00 PM	30.1	282.8	5.1
7/14/2024	4:15:00 PM	25.7	225.8	5.2
7/14/2024	4:20:00 PM	27.5	243.5	7.7
7/14/2024	4:25:00 PM	29.8	234.4	7
7/14/2024	4:30:00 PM	26.6	215.3	6
7/14/2024	4:35:00 PM	30.2	277.6	6.5
7/14/2024	4:40:00 PM	30	282.6	6.1
7/14/2024	4:45:00 PM	29	272.6	6.2
7/14/2024	4:50:00 PM	32.9	256.2	6.2
7/14/2024	4:55:00 PM	34.2	255.2	6.2
7/14/2024	5:00:00 PM	29.7	233.7	7.3
7/14/2024	5:05:00 PM	23.3	247.7	8.3
7/14/2024	5:10:00 PM	26.1	246.3	7.8
7/14/2024	5:15:00 PM	24.9	238.6	4
7/14/2024	5:20:00 PM	32.3	274	7.1
7/14/2024	5:25:00 PM	30.2	242.5	6.8
7/14/2024	5:30:00 PM	27.7	241.7	6.5
7/14/2024	5:35:00 PM	29.4	249.1	9.4
7/14/2024	5:40:00 PM	27	243.7	8
7/14/2024	5:45:00 PM	31.9	233.5	5.8
7/14/2024	5:50:00 PM	29.7	232.2	8.2
7/14/2024	5:55:00 PM	31.3	243.3	7.9
7/14/2024	6:00:00 PM	29.5	247.9	8.4
7/14/2024	6:05:00 PM	28.4	250.8	9.1
7/14/2024	6:10:00 PM	35.2	258.8	6.2

Site: West Chandler				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	6:15:00 PM	32.8	255.8	7.9
7/14/2024	6:20:00 PM	28.1	245.8	6.9
7/14/2024	6:25:00 PM	30.9	230.1	6.1
7/14/2024	6:30:00 PM	33.4	246	6.6
7/14/2024	6:35:00 PM	32.9	246.8	5.5
7/14/2024	6:40:00 PM	38.7	251.4	6
7/14/2024	6:45:00 PM	28.9	259.6	7.4
7/14/2024	6:50:00 PM	27.5	241.8	7.5
7/14/2024	6:55:00 PM	27.7	249.7	5.9
7/14/2024	7:00:00 PM	33.8	263	5.6
7/14/2024	7:05:00 PM	23.4	244.9	5.4
7/14/2024	7:10:00 PM	26.1	256.7	7.5
7/14/2024	7:15:00 PM	37.6	262.7	7.2
7/14/2024	7:20:00 PM	34.3	265.5	6.6
7/14/2024	7:25:00 PM	33.8	254.7	6.2
7/14/2024	7:30:00 PM	21.5	251.8	6.7
7/14/2024	7:35:00 PM	21.1	242.2	6.6
7/14/2024	7:40:00 PM	26.4	241	6.8
7/14/2024	7:45:00 PM	27.7	228.5	5.4
7/14/2024	7:50:00 PM	30.1	222.3	5.6
7/14/2024	7:55:00 PM	28.9	223.4	4.4
7/14/2024	8:00:00 PM	27	223.6	6.4
7/14/2024	8:05:00 PM	25.4	217.1	6.5
7/14/2024	8:10:00 PM	26	203.9	5.3
7/14/2024	8:15:00 PM	30.1	196.6	7.2
7/14/2024	8:20:00 PM	29.9	200.4	9.9
7/14/2024	8:25:00 PM	94.8	190.6	14.4
7/14/2024	8:30:00 PM	1702.6	187.2	14.8
7/14/2024	8:35:00 PM	3826.5	186.6	16.4
7/14/2024	8:40:00 PM	4264.8	186.6	13.6
7/14/2024	8:45:00 PM	3454.6	184.9	14.5
7/14/2024	8:50:00 PM	3235.7	186.1	10.7
7/14/2024	8:55:00 PM	3141.4	187.6	14.7
7/14/2024	9:00:00 PM	4130.5	188.8	14.8
7/14/2024	9:05:00 PM	5165.6	189.1	17.8
7/14/2024	9:10:00 PM	4360.9	188.5	13.6
7/14/2024	9:15:00 PM	3149.1	187.4	11.8
7/14/2024	9:20:00 PM	2127.5	194.2	11.3
7/14/2024	9:25:00 PM	1433.5	210	9
7/14/2024	9:30:00 PM	1086.3	221.9	13.8
7/14/2024	9:35:00 PM	821.8	220.7	10.8
7/14/2024	9:40:00 PM	527.2	219.1	9
7/14/2024	9:45:00 PM	320.2	224.6	8.4
7/14/2024	9:50:00 PM	258.5	224.7	6.3

Site: West Chandler				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	9:55:00 PM	294.9	221.7	6.9
7/14/2024	10:00:00 PM	292.9	231.9	7.1
7/14/2024	10:05:00 PM	234.3	246.7	9.1
7/14/2024	10:10:00 PM	158.6	245.8	6.1
7/14/2024	10:15:00 PM	104.2	250.5	5.2
7/14/2024	10:20:00 PM	83.6	241.2	4.4
7/14/2024	10:25:00 PM	76.5	266.3	2.8
7/14/2024	10:30:00 PM	77.5	313.8	6.5
7/14/2024	10:35:00 PM	100	336.9	8.5
7/14/2024	10:40:00 PM	128.5	352	8.1
7/14/2024	10:45:00 PM	159.9	295.8	4.9
7/14/2024	10:50:00 PM	211.2	256.6	8.9
7/14/2024	10:55:00 PM	220.2	256.5	14
7/14/2024	11:00:00 PM	157.7	276.8	11.2
7/14/2024	11:05:00 PM	152	296.8	14
7/14/2024	11:10:00 PM	121.5	308.7	11.8
7/14/2024	11:15:00 PM	64.8	334.3	11.5
7/14/2024	11:20:00 PM	20.5	301.6	5.4
7/14/2024	11:25:00 PM	34.8	327.6	4.6
7/14/2024	11:30:00 PM	6.8	351.9	5.2
7/14/2024	11:35:00 PM	12.6	327.6	0.7
7/14/2024	11:40:00 PM	1.5	2.4	3.8
7/14/2024	11:45:00 PM	19.3	15.9	5.3
7/14/2024	11:50:00 PM	70.7	351.6	2.7
7/14/2024	11:55:00 PM	106	288	0.8
	Average	191.8274306	202.6184028	5.144097222
	Max	5165.6	359.2	17.8
	Max Hour	64260.54842	4934.090461	11.61828966
	Min	16.6	5.9	0.4

Site: South Scottsdale				
Date	Time	PM_{10} ($\mu g/m_3$)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	12:00:00 AM	46	263.1	9.4
7/14/2024	12:05:00 AM	44.5	263.8	11.4
7/14/2024	12:10:00 AM	44.3	266.3	8.9
7/14/2024	12:15:00 AM	45.4	266.7	10
7/14/2024	12:20:00 AM	43.6	274.4	11.3
7/14/2024	12:25:00 AM	42.4	272.6	8.4
7/14/2024	12:30:00 AM	40.8	271.5	9
7/14/2024	12:35:00 AM	40.4	274.2	11.4
7/14/2024	12:40:00 AM	40.5	276.3	10.6
7/14/2024	12:45:00 AM	39.7	272.5	12.1
7/14/2024	12:50:00 AM	40.9	275.7	12.4
7/14/2024	12:55:00 AM	41.9	273.2	11.7
7/14/2024	1:00:00 AM	42.1	275.9	10.7
7/14/2024	1:05:00 AM	41.4	275.9	7.4
7/14/2024	1:10:00 AM	40.9	274.5	7.5
7/14/2024	1:15:00 AM	38.4	278.4	8.9
7/14/2024	1:20:00 AM	38.4	275.3	8
7/14/2024	1:25:00 AM	39.3	275.9	9.2
7/14/2024	1:30:00 AM	38.4	275.9	7.4
7/14/2024	1:35:00 AM	35.6	274.6	8.3
7/14/2024	1:40:00 AM	34	270	7.5
7/14/2024	1:45:00 AM	33.2	272.2	9
7/14/2024	1:50:00 AM	33.6	272.4	9.1
7/14/2024	1:55:00 AM	32.1	267.1	9.1
7/14/2024	2:00:00 AM	31.6	262.3	8.7
7/14/2024	2:05:00 AM	31.4	265.2	9.7
7/14/2024	2:10:00 AM	31.9	266.2	8.6
7/14/2024	2:15:00 AM	28	262.3	10.7
7/14/2024	2:20:00 AM	26.8	265.3	10.2
7/14/2024	2:25:00 AM	28.5	261.8	9.8
7/14/2024	2:30:00 AM	28	261.5	9.8
7/14/2024	2:35:00 AM	27.9	266.5	9.8
7/14/2024	2:40:00 AM	28.1	259.8	11.9
7/14/2024	2:45:00 AM	30.7	258.8	10
7/14/2024	2:50:00 AM	34.4	257.3	11.4
7/14/2024	2:55:00 AM	41.8	259.7	9.7
7/14/2024	3:00:00 AM	48.1	251.1	11.1
7/14/2024	3:05:00 AM	51.2	256.9	11.6
7/14/2024	3:10:00 AM	53.2	253.2	10.2
7/14/2024	3:15:00 AM	55.8	258.8	9.7
7/14/2024	3:20:00 AM	62	262.8	11.1
7/14/2024	3:25:00 AM	75.1	263.4	9.3
7/14/2024	3:30:00 AM	90.9	264.9	9.9

Site: South Scottsdale				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	3:35:00 AM	94.7	270.7	10.2
7/14/2024	3:40:00 AM	108.7	273.3	9.9
7/14/2024	3:45:00 AM	113.9	266.7	10.7
7/14/2024	3:50:00 AM	100.4	270.7	10.5
7/14/2024	3:55:00 AM	87.4	270.7	10
7/14/2024	4:00:00 AM	76.1	272.5	10.6
7/14/2024	4:05:00 AM	68.8	269.1	12.2
7/14/2024	4:10:00 AM	60.5	266.8	11.9
7/14/2024	4:15:00 AM	50.8	269.8	10.2
7/14/2024	4:20:00 AM	47	272	11.6
7/14/2024	4:25:00 AM	43	274.1	8.7
7/14/2024	4:30:00 AM	42.6	275.4	9.7
7/14/2024	4:35:00 AM	45.2	288.6	7
7/14/2024	4:40:00 AM	49.2	295	6.2
7/14/2024	4:45:00 AM	51.6	297.5	5.1
7/14/2024	4:50:00 AM	49.7	312.1	5.6
7/14/2024	4:55:00 AM	52.3	306.9	6.9
7/14/2024	5:00:00 AM	52.7	315.7	4.3
7/14/2024	5:05:00 AM	59.1	313.1	4.7
7/14/2024	5:10:00 AM	67.5	306	5.8
7/14/2024	5:15:00 AM	73.4	295	5.9
7/14/2024	5:20:00 AM	70.2	297.7	5.8
7/14/2024	5:25:00 AM	61.3	304.8	4.5
7/14/2024	5:30:00 AM	57.6	308.6	4.5
7/14/2024	5:35:00 AM	52.5	305.5	7.1
7/14/2024	5:40:00 AM	50.6	297.8	6.5
7/14/2024	5:45:00 AM	39.2	279.8	6.7
7/14/2024	5:50:00 AM	29.6	285.8	5.2
7/14/2024	5:55:00 AM	29.8	278.5	4.1
7/14/2024	6:00:00 AM	31.9	299.9	4.2
7/14/2024	6:05:00 AM	32.9	306	4.4
7/14/2024	6:10:00 AM	33.6	307.5	5.4
7/14/2024	6:15:00 AM	33.5	304.4	5.4
7/14/2024	6:20:00 AM	33.5	315.3	6
7/14/2024	6:25:00 AM	35.2	309.3	5.3
7/14/2024	6:30:00 AM	35.6	286.9	6
7/14/2024	6:35:00 AM	34.1	293	6.3
7/14/2024	6:40:00 AM	34	301.3	4.9
7/14/2024	6:45:00 AM	33.9	302.3	4.9
7/14/2024	6:50:00 AM	33.3	300.3	4.1
7/14/2024	6:55:00 AM	33.3	308	4.3
7/14/2024	7:00:00 AM	35.6	300.1	3.8
7/14/2024	7:05:00 AM	33.4	302.1	4.1
7/14/2024	7:10:00 AM	32.9	300.4	6.8

Site: South Scottsdale				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	7:15:00 AM	29.6	296	5.2
7/14/2024	7:20:00 AM	28	296.1	5.7
7/14/2024	7:25:00 AM	30	300.1	6.3
7/14/2024	7:30:00 AM	28.1	300.9	6.9
7/14/2024	7:35:00 AM	26.4	292.4	6.7
7/14/2024	7:40:00 AM	27.6	291.5	4.9
7/14/2024	7:45:00 AM	27.3	278.1	4.2
7/14/2024	7:50:00 AM	27.4	254.3	5.4
7/14/2024	7:55:00 AM	26.9	296	4.1
7/14/2024	8:00:00 AM	28.1	295.9	4.7
7/14/2024	8:05:00 AM	29.5	308.9	2.9
7/14/2024	8:10:00 AM	28.2	310.7	4.4
7/14/2024	8:15:00 AM	28.6	287.9	3.7
7/14/2024	8:20:00 AM	24.7	261.2	4.7
7/14/2024	8:25:00 AM	24.4	264.8	3.7
7/14/2024	8:30:00 AM	25.4	290.9	4.1
7/14/2024	8:35:00 AM	24.2	257.3	4.2
7/14/2024	8:40:00 AM	24.8	223.1	3.7
7/14/2024	8:45:00 AM	26	309.3	4.4
7/14/2024	8:50:00 AM	25.7	255.7	5
7/14/2024	8:55:00 AM	27.8	235.4	4.8
7/14/2024	9:00:00 AM	29	223.9	5.2
7/14/2024	9:05:00 AM	29.8	249.4	4.5
7/14/2024	9:10:00 AM	29.7	298.4	4.1
7/14/2024	9:15:00 AM	30.7	279.2	5.2
7/14/2024	9:20:00 AM	28.3	245.1	4.7
7/14/2024	9:25:00 AM	27.1	237.5	0.9
7/14/2024	9:30:00 AM	26	223.5	5.3
7/14/2024	9:35:00 AM	26.7	199.6	1.9
7/14/2024	9:40:00 AM	26.9	248.5	6.3
7/14/2024	9:45:00 AM	19	246.5	5.7
7/14/2024	9:50:00 AM	19.6	221	3.8
7/14/2024	9:55:00 AM	26.8	262.4	1.7
7/14/2024	10:00:00 AM	27.8	275.5	3.3
7/14/2024	10:05:00 AM	25.3	221.4	4.7
7/14/2024	10:10:00 AM	23	259.4	5
7/14/2024	10:15:00 AM	21.9	218.8	7.6
7/14/2024	10:20:00 AM	29.7	254.9	6.1
7/14/2024	10:25:00 AM	28.4	178.3	3.4
7/14/2024	10:30:00 AM	33.1	185.7	5.1
7/14/2024	10:35:00 AM	22.5	230.7	5.6
7/14/2024	10:40:00 AM	14.6	240.4	6.8
7/14/2024	10:45:00 AM	17.4	274.2	5.2
7/14/2024	10:50:00 AM	22.3	245.1	5.7

Site: South Scottsdale				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	10:55:00 AM	23	310.2	5.1
7/14/2024	11:00:00 AM	22.7	251.9	6.5
7/14/2024	11:05:00 AM	16.4	248.9	6.1
7/14/2024	11:10:00 AM	17.4	249.2	8.5
7/14/2024	11:15:00 AM	19	228.6	5.8
7/14/2024	11:20:00 AM	24.2	244.6	7.5
7/14/2024	11:25:00 AM	28.1	218.7	2.2
7/14/2024	11:30:00 AM	29.8	262.2	8.3
7/14/2024	11:35:00 AM	25.8	294.1	8.7
7/14/2024	11:40:00 AM	21.1	301.9	8.5
7/14/2024	11:45:00 AM	24.8	286.1	8.9
7/14/2024	11:50:00 AM	25.7	298.3	3.9
7/14/2024	11:55:00 AM	23.2	282.8	8.1
7/14/2024	12:00:00 PM	22.6	291.2	6.8
7/14/2024	12:05:00 PM	21.5	311.5	10.7
7/14/2024	12:10:00 PM	22.2	286.4	4.9
7/14/2024	12:15:00 PM	28.3	253.4	6.5
7/14/2024	12:20:00 PM	24.9	252.2	9.7
7/14/2024	12:25:00 PM	21.5	283.9	5.7
7/14/2024	12:30:00 PM	21.6	222.7	6.3
7/14/2024	12:35:00 PM	11.8	236.8	5.3
7/14/2024	12:40:00 PM	29.4	283.5	7
7/14/2024	12:45:00 PM	35.7	300.7	5.7
7/14/2024	12:50:00 PM	35	284.3	8.8
7/14/2024	12:55:00 PM	30.8	269.6	6.5
7/14/2024	1:00:00 PM	27	273.8	11.6
7/14/2024	1:05:00 PM	24.6	274.6	5.5
7/14/2024	1:10:00 PM	24.2	251.9	7.4
7/14/2024	1:15:00 PM	22.2	258.5	5.9
7/14/2024	1:20:00 PM	27.1	249.6	7.1
7/14/2024	1:25:00 PM	28.4	288.8	7.8
7/14/2024	1:30:00 PM	28.6	265.3	10.4
7/14/2024	1:35:00 PM	28.3	281.2	6.5
7/14/2024	1:40:00 PM	28.1	280.6	10.7
7/14/2024	1:45:00 PM	26.5	295.9	7.2
7/14/2024	1:50:00 PM	27.2	260	5.9
7/14/2024	1:55:00 PM	28.1	268.9	10.1
7/14/2024	2:00:00 PM	29.3	253	5.2
7/14/2024	2:05:00 PM	29.1	237.5	7.4
7/14/2024	2:10:00 PM	29.5	265.1	5.2
7/14/2024	2:15:00 PM	31.7	239.1	5.3
7/14/2024	2:20:00 PM	33.9	263.1	6.5
7/14/2024	2:25:00 PM	30.7	295.6	7
7/14/2024	2:30:00 PM	31.2	286.9	6.2

Site: South Scottsdale				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	2:35:00 PM	30.7	257.3	10.9
7/14/2024	2:40:00 PM	29	237.8	8.3
7/14/2024	2:45:00 PM	30.6	264.1	11.2
7/14/2024	2:50:00 PM	31	284	10.4
7/14/2024	2:55:00 PM	28.6	277.4	7.4
7/14/2024	3:00:00 PM	31.7	276.2	10.4
7/14/2024	3:05:00 PM	33.9	275.5	8.7
7/14/2024	3:10:00 PM	31.8	295	5.4
7/14/2024	3:15:00 PM	32	259.6	7.9
7/14/2024	3:20:00 PM	31.2	260.9	6.5
7/14/2024	3:25:00 PM	30.8	257.6	8.4
7/14/2024	3:30:00 PM	32.8	259	8.4
7/14/2024	3:35:00 PM	30.7	266.5	9.1
7/14/2024	3:40:00 PM	34.5	249.1	10
7/14/2024	3:45:00 PM	39	268.6	7
7/14/2024	3:50:00 PM	35.1	278.8	7.2
7/14/2024	3:55:00 PM	30.8	270.1	11.6
7/14/2024	4:00:00 PM	30.4	249.2	8.1
7/14/2024	4:05:00 PM	29	251.1	10.3
7/14/2024	4:10:00 PM	27.4	256.6	11
7/14/2024	4:15:00 PM	25.7	239.2	9.1
7/14/2024	4:20:00 PM	28.8	269.3	11.2
7/14/2024	4:25:00 PM	29.7	261.7	9.7
7/14/2024	4:30:00 PM	30.1	256.7	7.6
7/14/2024	4:35:00 PM	31.9	252	10.3
7/14/2024	4:40:00 PM	32.5	258.8	9.6
7/14/2024	4:45:00 PM	32.5	241.7	11.2
7/14/2024	4:50:00 PM	31.2	254.8	7.3
7/14/2024	4:55:00 PM	29.2	266.6	8
7/14/2024	5:00:00 PM	27.4	297.7	9.5
7/14/2024	5:05:00 PM	25.9	271.1	7.6
7/14/2024	5:10:00 PM	27	268.1	9.5
7/14/2024	5:15:00 PM	28.8	268.9	9
7/14/2024	5:20:00 PM	29.1	251.6	9.1
7/14/2024	5:25:00 PM	30.6	262.2	8.6
7/14/2024	5:30:00 PM	32.2	244.4	9
7/14/2024	5:35:00 PM	33.5	250.3	8.7
7/14/2024	5:40:00 PM	36.7	263.8	9.4
7/14/2024	5:45:00 PM	37	269.7	9.4
7/14/2024	5:50:00 PM	35.8	260.8	11
7/14/2024	5:55:00 PM	35	266.6	11.5
7/14/2024	6:00:00 PM	34.3	269.6	9.5
7/14/2024	6:05:00 PM	34	253.5	7.6
7/14/2024	6:10:00 PM	35	264.5	10.6

Site: South Scottsdale				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	6:15:00 PM	36.6	246.9	9
7/14/2024	6:20:00 PM	34.6	255.6	8.4
7/14/2024	6:25:00 PM	34.4	255.1	9.5
7/14/2024	6:30:00 PM	34.6	259.5	11.5
7/14/2024	6:35:00 PM	33.5	262.4	9.1
7/14/2024	6:40:00 PM	33.6	267.2	9.4
7/14/2024	6:45:00 PM	32.1	244.2	8.9
7/14/2024	6:50:00 PM	30.8	251.1	9.4
7/14/2024	6:55:00 PM	29.9	254.7	7.3
7/14/2024	7:00:00 PM	28.8	252.6	6.4
7/14/2024	7:05:00 PM	31.4	251.8	6.5
7/14/2024	7:10:00 PM	32.1	233.5	7.8
7/14/2024	7:15:00 PM	34.7	236.5	8.1
7/14/2024	7:20:00 PM	34.5	245.4	7.8
7/14/2024	7:25:00 PM	33.3	255.9	6.6
7/14/2024	7:30:00 PM	30.6	253.6	6.6
7/14/2024	7:35:00 PM	32.4	258.4	5.9
7/14/2024	7:40:00 PM	36.8	248.5	7.6
7/14/2024	7:45:00 PM	37.9	237.9	8.6
7/14/2024	7:50:00 PM	37.8	237.3	7.1
7/14/2024	7:55:00 PM	35.6	247.9	9
7/14/2024	8:00:00 PM	32.8	241.1	9.9
7/14/2024	8:05:00 PM	31.4	237.8	7.8
7/14/2024	8:10:00 PM	32.5	233.3	8.9
7/14/2024	8:15:00 PM	30.1	226.9	9.9
7/14/2024	8:20:00 PM	30.7	224.9	8.7
7/14/2024	8:25:00 PM	32.8	224.3	8.5
7/14/2024	8:30:00 PM	33.3	229	10.6
7/14/2024	8:35:00 PM	34.7	232.9	13.2
7/14/2024	8:40:00 PM	54.8	236.2	15.9
7/14/2024	8:45:00 PM	71.1	224.2	18.8
7/14/2024	8:50:00 PM	225.1	196	22.9
7/14/2024	8:55:00 PM	2262.8	200.3	21
7/14/2024	9:00:00 PM	3321.5	188.5	17.8
7/14/2024	9:05:00 PM	3379.7	193.7	15
7/14/2024	9:10:00 PM	3345.2	207.7	19
7/14/2024	9:15:00 PM	3060.1	197.8	19.7
7/14/2024	9:20:00 PM	2638.8	205.3	17
7/14/2024	9:25:00 PM	2358.1	194.9	13.5
7/14/2024	9:30:00 PM	1986.1	195.6	10.7
7/14/2024	9:35:00 PM	1690	194.3	11.2
7/14/2024	9:40:00 PM	1505.5	203.7	10.4
7/14/2024	9:45:00 PM	1324	211.1	11.7
7/14/2024	9:50:00 PM	1125.1	213.2	8.1

Site: South Scottsdale				
Date	Time	PM_{10} (µg/m_3)	Wind Direction (Degree)	Windspeed (MPH)
7/14/2024	9:55:00 PM	912.8	219.9	8
7/14/2024	10:00:00 PM	742.6	267.3	5.7
7/14/2024	10:05:00 PM	636.2	355.5	8.9
7/14/2024	10:10:00 PM	647.8	0.4	10.8
7/14/2024	10:15:00 PM	650.6	350.3	8.6
7/14/2024	10:20:00 PM	583.4	354.5	8.4
7/14/2024	10:25:00 PM	516.5	352	10.7
7/14/2024	10:30:00 PM	441.6	348.3	7.1
7/14/2024	10:35:00 PM	390.2	347.3	11.4
7/14/2024	10:40:00 PM	335.2	7.6	9.1
7/14/2024	10:45:00 PM	281.6	4.9	7.9
7/14/2024	10:50:00 PM	227.4	6.1	8.7
7/14/2024	10:55:00 PM	164.1	16.2	6.3
7/14/2024	11:00:00 PM	115.7	20.1	5.2
7/14/2024	11:05:00 PM	104.6	3.9	4.7
7/14/2024	11:10:00 PM	109.7	349.3	5.6
7/14/2024	11:15:00 PM	99.2	339.5	4.5
7/14/2024	11:20:00 PM	106.4	324.7	4.2
7/14/2024	11:25:00 PM	139.6	291	4.7
7/14/2024	11:30:00 PM	158.1	303.2	4.5
7/14/2024	11:35:00 PM	203.4	307.6	6.1
7/14/2024	11:40:00 PM	321.4	318.2	6.2
7/14/2024	11:45:00 PM	419.3	325.4	6.3
7/14/2024	11:50:00 PM	488.3	338.8	7.5
7/14/2024	11:55:00 PM	564.6	350.2	7.9
	Average	161.1430556	261.3579861	7.986805556
	Max	3379.7	355.5	22.9
	Max Hour	64260.54842	4934.090461	11.61828966
	Min	16.6	5.9	0.4

Appendix B: NOAA Phoenix Sky Harbor Airport Station Data

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
9/2/2022	11:55 pm	WNW	9			10	
9/2/2022	11:51 pm	WNW	10			10	
9/2/2022	11:50 pm	W	10			10	
9/2/2022	11:45 pm	W	10			10	
9/2/2022	11:40 pm	WNW	5			10	
9/2/2022	11:35 pm	N	0			10	
9/2/2022	11:30 pm	N	0			10	
9/2/2022	11:25 pm	N	0			10	
9/2/2022	11:20 pm	N	0			10	
9/2/2022	11:15 pm	N	0			10	
9/2/2022	11:10 pm	SE	5			10	
9/2/2022	11:05 pm	SE	6			10	
9/2/2022	11:00 pm	SE	8			10	
9/2/2022	10:55 pm	SE	8			10	
9/2/2022	10:51 pm	ESE	7			10	
9/2/2022	10:50 pm	ESE	7			10	
9/2/2022	10:45 pm	SE	7			10	
9/2/2022	10:40 pm	SE	6			10	
9/2/2022	10:35 pm	ESE	7			10	
9/2/2022	10:30 pm	SSE	8			10	
9/2/2022	10:25 pm	SE	8			10	
9/2/2022	10:20 pm	ESE	8			10	
9/2/2022	10:15 pm	E	9			10	
9/2/2022	10:10 pm	E	7			10	
9/2/2022	10:05 pm	E	7			10	
9/2/2022	10:00 pm	E	8			10	
9/2/2022	9:55 pm	E	8			10	
9/2/2022	9:51 pm	E	8			10	
9/2/2022	9:50 pm	E	8			10	
9/2/2022	9:45 pm	ESE	7			10	
9/2/2022	9:40 pm	E	7			10	
9/2/2022	9:35 pm	E	8			10	
9/2/2022	9:30 pm	E	10			10	
9/2/2022	9:25 pm	E	7			10	
9/2/2022	9:20 pm	E	6			10	
9/2/2022	9:15 pm	ESE	7			10	
9/2/2022	9:10 pm	ENE	5			10	
9/2/2022	9:05 pm	NNE	8			10	
9/2/2022	9:00 pm	NE	6			10	
9/2/2022	8:55 pm	E	5			10	
9/2/2022	8:51 pm	E	7			10	
9/2/2022	8:50 pm	E	7			10	
9/2/2022	8:45 pm	E	9			10	
9/2/2022	8:40 pm	NE	7			10	
9/2/2022	8:35 pm	N	7			10	
9/2/2022	8:30 pm	NW	12			10	
9/2/2022	8:25 pm	NNW	13			10	
9/2/2022	8:20 pm	NW	10			10	
9/2/2022	8:15 pm	NW	8			10	
9/2/2022	8:10 pm	NW	9			10	
9/2/2022	8:05 pm	NNW	9			10	
9/2/2022	8:00 pm	NNW	7			10	
9/2/2022	7:55 pm	N	0			10	
9/2/2022	7:51 pm	N	0			10	
9/2/2022	7:50 pm	N	0			10	
9/2/2022	7:45 pm	N	0			10	
9/2/2022	7:40 pm	NNE	3			10	
9/2/2022	7:35 pm	ENE	3			10	
9/2/2022	7:30 pm	ESE	6			10	
9/2/2022	7:29 pm	SE	6			10	
9/2/2022	7:25 pm	ESE	9			10	
9/2/2022	7:20 pm	E	9			10	
9/2/2022	7:15 pm	NE	10			10	

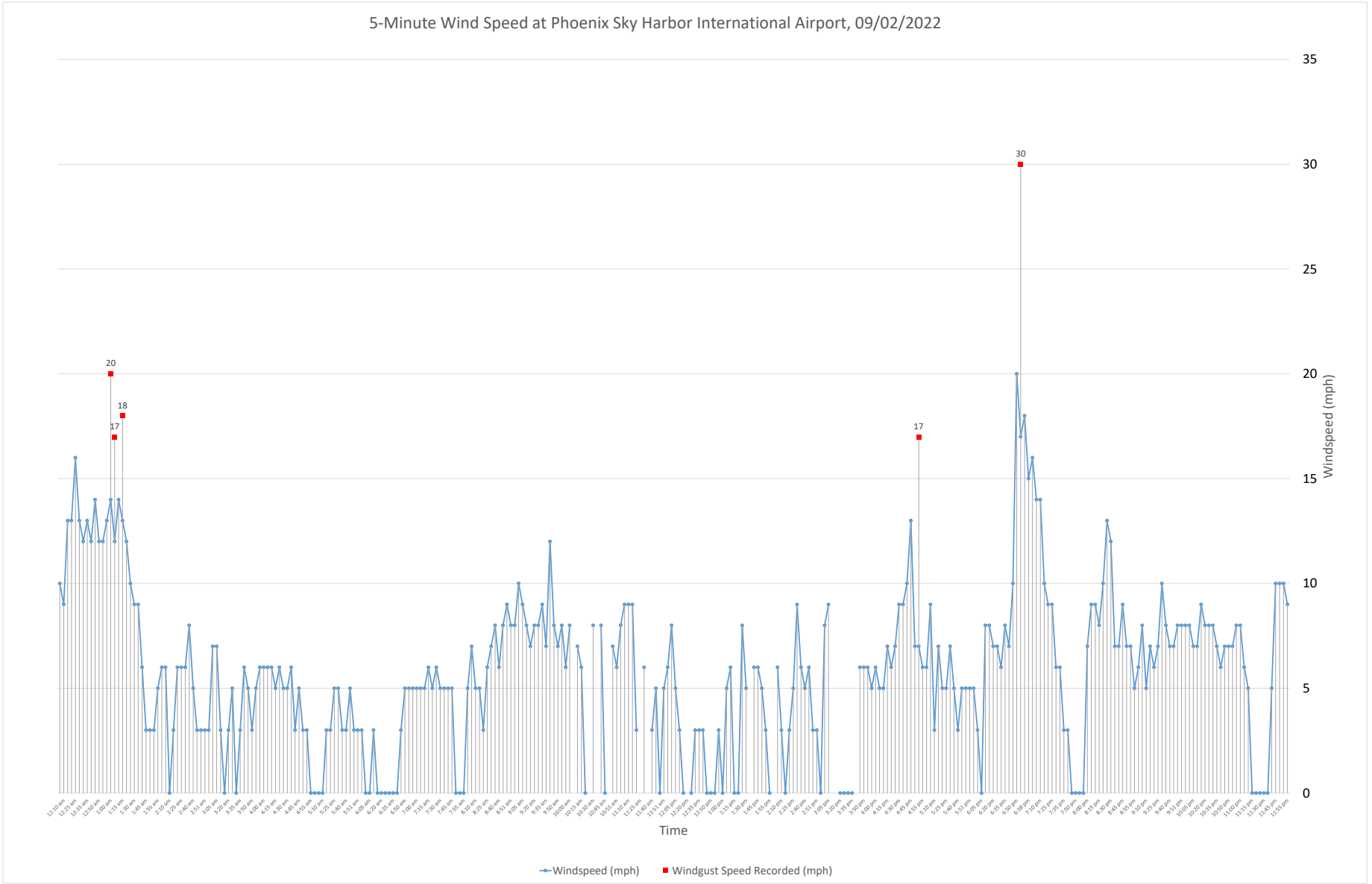
Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
9/2/2022	7:10 pm	ENE	14			10	
9/2/2022	7:05 pm	ENE	14			10	
9/2/2022	7:00 pm	E	16			10	
9/2/2022	6:58 pm	ENE	15			10	Thunder
9/2/2022	6:55 pm	NE	18			10	
9/2/2022	6:51 pm	ENE	17	G	30	10	
9/2/2022	6:50 pm	ENE	20			10	
9/2/2022	6:45 pm	ENE	10			10	
9/2/2022	6:40 pm	ESE	7			10	
9/2/2022	6:35 pm	E	8			10	
9/2/2022	6:30 pm	E	6			10	
9/2/2022	6:25 pm	ENE	7			10	
9/2/2022	6:20 pm	E	7			10	
9/2/2022	6:15 pm	ENE	8			10	
9/2/2022	6:10 pm	ENE	8			10	
9/2/2022	6:05 pm	N	0			10	
9/2/2022	6:00 pm	SW	3			10	
9/2/2022	5:55 pm	S	5			10	
9/2/2022	5:51 pm	SSW	5			10	
9/2/2022	5:50 pm	S	5			10	
9/2/2022	5:45 pm	SSE	5			10	
9/2/2022	5:40 pm	E	3			10	
9/2/2022	5:35 pm	E	5			10	
9/2/2022	5:30 pm	E	7			10	
9/2/2022	5:25 pm	ENE	5			10	
9/2/2022	5:20 pm	S	5			10	
9/2/2022	5:15 pm	SSE	7			10	
9/2/2022	5:10 pm	S	3			10	
9/2/2022	5:05 pm	SSE	9			10	
9/2/2022	5:00 pm	S	6			10	
9/2/2022	4:55 pm	SSE	6			10	
9/2/2022	4:51 pm	ENE	7	G	17	10	
9/2/2022	4:50 pm	ESE	7			10	
9/2/2022	4:45 pm	SSE	13			10	
9/2/2022	4:40 pm	SSE	10			10	
9/2/2022	4:35 pm	SE	9			10	
9/2/2022	4:30 pm	SSE	9			10	
9/2/2022	4:25 pm	S	7			10	
9/2/2022	4:20 pm	SE	6			10	
9/2/2022	4:15 pm	SE	7			10	
9/2/2022	4:10 pm	E	5			10	
9/2/2022	4:05 pm	NNW	5			10	
9/2/2022	4:00 pm	WSW	6			10	
9/2/2022	3:55 pm	W	5			10	
9/2/2022	3:51 pm	WSW	6			10	
9/2/2022	3:50 pm	SW	6			10	
9/2/2022	3:45 pm	SSW	6			10	
9/2/2022	3:40 pm					10	
9/2/2022	3:35 pm	N	0			10	
9/2/2022	3:30 pm	N	0			10	
9/2/2022	3:25 pm	N	0			10	
9/2/2022	3:20 pm	N	0			10	
9/2/2022	3:15 pm					10	
9/2/2022	3:10 pm					10	
9/2/2022	3:05 pm	SW	9			10	
9/2/2022	3:00 pm	SSW	8			10	
9/2/2022	2:55 pm	N	0			10	
9/2/2022	2:51 pm	SE	3			10	
9/2/2022	2:50 pm	SE	3			10	
9/2/2022	2:45 pm	SE	6			10	
9/2/2022	2:40 pm	S	5			10	
9/2/2022	2:35 pm	SW	6			10	
9/2/2022	2:30 pm	S	9			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
9/2/2022	2:25 pm	S	5			10	
9/2/2022	2:20 pm	SE	3			10	
9/2/2022	2:15 pm	N	0			10	
9/2/2022	2:10 pm	SW	3			10	
9/2/2022	2:05 pm	S	6			10	
9/2/2022	2:00 pm					10	
9/2/2022	1:55 pm	N	0			10	
9/2/2022	1:51 pm		3			10	
9/2/2022	1:50 pm	SW	5			10	
9/2/2022	1:45 pm	SW	6			10	
9/2/2022	1:40 pm	SW	6			10	
9/2/2022	1:35 pm					10	
9/2/2022	1:30 pm	SW	5			10	
9/2/2022	1:25 pm	SSW	8			10	
9/2/2022	1:20 pm	N	0			10	
9/2/2022	1:15 pm	N	0			10	
9/2/2022	1:10 pm	NNW	6			10	
9/2/2022	1:05 pm	WNW	5			10	
9/2/2022	1:00 pm	N	0			10	
9/2/2022	12:55 pm	S	3			10	
9/2/2022	12:51 pm	N	0			10	
9/2/2022	12:50 pm	N	0			10	
9/2/2022	12:45 pm	N	0			10	
9/2/2022	12:40 pm	SSW	3			10	
9/2/2022	12:35 pm	SSW	3			10	
9/2/2022	12:30 pm	SW	3			10	
9/2/2022	12:25 pm	N	0			10	
9/2/2022	12:20 pm					10	
9/2/2022	12:15 pm	N	0			10	
9/2/2022	12:10 pm	SE	3			10	
9/2/2022	12:05 pm	ESE	5			10	
9/2/2022	12:00 pm	SE	8			10	
9/2/2022	11:55 am	SSE	6			10	
9/2/2022	11:51 am		5			10	
9/2/2022	11:50 am	N	0			10	
9/2/2022	11:45 am	W	5			10	
9/2/2022	11:40 am	ESE	3			10	
9/2/2022	11:35 am					10	
9/2/2022	11:30 am	ESE	6			10	
9/2/2022	11:25 am					10	
9/2/2022	11:20 am	SSE	3			10	
9/2/2022	11:15 am	S	9			10	
9/2/2022	11:10 am	SSE	9			10	
9/2/2022	11:05 am	SE	9			10	
9/2/2022	11:00 am	ESE	8			10	
9/2/2022	10:55 am	S	6			10	
9/2/2022	10:51 am		7			10	
9/2/2022	10:50 am					10	
9/2/2022	10:45 am	N	0			10	
9/2/2022	10:40 am	E	8			10	
9/2/2022	10:35 am					10	
9/2/2022	10:30 am	SE	8			10	
9/2/2022	10:25 am					10	
9/2/2022	10:20 am	N	0			10	
9/2/2022	10:15 am	SE	6			10	
9/2/2022	10:10 am	SE	7			10	
9/2/2022	10:05 am					10	
9/2/2022	10:00 am	SSE	8			10	
9/2/2022	9:55 am	SE	6			10	
9/2/2022	9:51 am	SSE	8			10	
9/2/2022	9:50 am	SSE	7			10	
9/2/2022	9:45 am	SSE	8			10	
9/2/2022	9:40 am	ESE	12			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
9/2/2022	9:35 am	ESE	7			10	
9/2/2022	9:30 am	ESE	9			10	
9/2/2022	9:25 am	SE	8			10	
9/2/2022	9:20 am	SE	8			10	
9/2/2022	9:15 am	E	7			10	
9/2/2022	9:10 am	SSE	8			10	
9/2/2022	9:05 am	SE	9			10	
9/2/2022	9:00 am	SE	10			10	
9/2/2022	8:55 am	ESE	8			10	
9/2/2022	8:51 am	E	8			10	
9/2/2022	8:50 am	ESE	9			10	
9/2/2022	8:45 am	SSE	8			10	
9/2/2022	8:40 am	SE	6			10	
9/2/2022	8:35 am	SSE	8			10	
9/2/2022	8:30 am	SE	7			10	
9/2/2022	8:25 am	SSE	6			10	
9/2/2022	8:20 am	ESE	3			10	
9/2/2022	8:15 am	ESE	5			10	
9/2/2022	8:10 am	S	5			10	
9/2/2022	8:05 am	ESE	7			10	
9/2/2022	8:00 am	ESE	5			10	
9/2/2022	7:55 am	N	0			10	
9/2/2022	7:51 am	N	0			10	
9/2/2022	7:50 am	N	0			10	
9/2/2022	7:45 am	ESE	5			10	
9/2/2022	7:40 am	E	5			10	
9/2/2022	7:35 am	E	5			10	
9/2/2022	7:30 am	E	5			10	
9/2/2022	7:25 am	ESE	6			10	
9/2/2022	7:20 am	E	5			10	
9/2/2022	7:15 am	ENE	6			10	
9/2/2022	7:10 am	ENE	5			10	
9/2/2022	7:05 am	NE	5			10	
9/2/2022	7:00 am	E	5			10	
9/2/2022	6:55 am	ENE	5			10	
9/2/2022	6:51 am	ENE	5			10	
9/2/2022	6:50 am	NE	5			10	
9/2/2022	6:45 am	ENE	3			10	
9/2/2022	6:40 am	N	0			10	
9/2/2022	6:35 am	N	0			10	
9/2/2022	6:30 am	N	0			10	
9/2/2022	6:25 am	N	0			10	
9/2/2022	6:20 am	N	0			10	
9/2/2022	6:15 am	N	0			10	
9/2/2022	6:10 am	E	3			10	
9/2/2022	6:05 am	N	0			10	
9/2/2022	6:00 am	N	0			10	
9/2/2022	5:55 am	ESE	3			10	
9/2/2022	5:51 am	ESE	3			10	
9/2/2022	5:50 am	ESE	3			10	
9/2/2022	5:45 am	ESE	5			10	
9/2/2022	5:40 am	E	3			10	
9/2/2022	5:35 am	E	3			10	
9/2/2022	5:30 am	E	5			10	
9/2/2022	5:25 am	E	5			10	
9/2/2022	5:20 am	E	3			10	
9/2/2022	5:15 am	E	3			10	
9/2/2022	5:10 am	N	0			10	
9/2/2022	5:05 am	N	0			10	
9/2/2022	5:00 am	N	0			10	
9/2/2022	4:55 am	N	0			10	
9/2/2022	4:51 am	ESE	3			10	
9/2/2022	4:50 am	ESE	3			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
9/2/2022	4:45 am	ESE	5			10	
9/2/2022	4:40 am	SE	3			10	
9/2/2022	4:35 am	ESE	6			10	
9/2/2022	4:30 am	SSE	5			10	
9/2/2022	4:25 am	SSE	5			10	
9/2/2022	4:20 am	SE	6			10	
9/2/2022	4:15 am	SE	5			10	
9/2/2022	4:10 am	ESE	6			10	
9/2/2022	4:05 am	ESE	6			10	
9/2/2022	4:00 am	E	6			10	
9/2/2022	3:55 am	ESE	6			10	
9/2/2022	3:51 am	E	5			10	
9/2/2022	3:50 am	E	3			10	
9/2/2022	3:45 am	ESE	5			10	
9/2/2022	3:40 am	E	6			10	
9/2/2022	3:35 am	E	3			10	
9/2/2022	3:30 am	N	0			10	
9/2/2022	3:25 am	E	5			10	
9/2/2022	3:20 am	E	3			10	
9/2/2022	3:15 am	N	0			10	
9/2/2022	3:10 am	E	3			10	
9/2/2022	3:05 am	E	7			10	
9/2/2022	3:00 am	E	7			10	
9/2/2022	2:55 am	E	3			10	
9/2/2022	2:51 am	E	3			10	
9/2/2022	2:50 am	E	3			10	
9/2/2022	2:45 am	E	3			10	
9/2/2022	2:40 am	E	5			10	
9/2/2022	2:35 am	E	8			10	
9/2/2022	2:30 am	E	6			10	
9/2/2022	2:25 am	E	6			10	
9/2/2022	2:20 am	E	6			10	
9/2/2022	2:15 am	ENE	3			10	
9/2/2022	2:10 am	N	0			10	
9/2/2022	2:05 am	E	6			10	
9/2/2022	2:00 am	ENE	6			10	
9/2/2022	1:55 am	NE	5			10	
9/2/2022	1:51 am		3			10	
9/2/2022	1:50 am	ENE	3			10	
9/2/2022	1:45 am	E	3			10	
9/2/2022	1:40 am	ESE	6			10	
9/2/2022	1:35 am	ESE	9			10	
9/2/2022	1:30 am	SE	9			10	
9/2/2022	1:25 am	ESE	10			10	
9/2/2022	1:20 am	ESE	12			10	
9/2/2022	1:15 am	ESE	13	G	18	10	
9/2/2022	1:10 am	ESE	14			10	
9/2/2022	1:05 am	ESE	12	G	17	10	
9/2/2022	1:00 am	ESE	14	G	20	10	
9/2/2022	12:55 am	E	13			10	
9/2/2022	12:51 am	E	12			10	
9/2/2022	12:50 am	E	12			10	
9/2/2022	12:45 am	E	14			10	
9/2/2022	12:40 am	E	12			10	
9/2/2022	12:35 am	E	13			10	
9/2/2022	12:33 am	E	12			10	
9/2/2022	12:30 am	E	13			10	
9/2/2022	12:25 am	E	16			10	
9/2/2022	12:20 am	E	13			10	
9/2/2022	12:15 am	E	13			10	
9/2/2022	12:10 am	SE	9			10	
9/2/2022	12:05 am	SSE	10			10	
9/2/2022	12:00 am	SE	15			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
9/2/2022	11:55 pm	SE	15			10	
9/1/2024	11:51 pm	SE	13	G	25	10	
9/1/2024	11:50 pm	SE	15			10	
9/1/2024	11:45 pm	SSE	9			10	
9/1/2024	11:40 pm	SE	10			10	
9/1/2024	11:35 pm	SSE	7			9	
9/1/2024	11:30 pm	SSE	12			6	Haze, Blowing dust
9/1/2024	11:25 pm	SSE	14	G	20	5	Haze, Blowing dust
9/1/2024	11:22 pm	SSE	13	G	24	5	Haze, Blowing dust
9/1/2024	11:20 pm	SE	13			4	Haze, Blowing dust
9/1/2024	11:15 pm	SE	18	G	24	2.5	Haze, Blowing dust
9/1/2024	11:10 pm	SE	14			2	Haze, Blowing dust
9/1/2024	11:05 pm	SE	16			2	Haze, Blowing dust
9/1/2024	11:02 pm	SSE	13			2	Haze, Blowing dust
9/1/2024	11:00 pm	SSE	14			2.5	Haze, Blowing dust
9/1/2024	10:55 pm	SSE	10			3	Haze, Blowing dust
9/1/2024	10:51 pm	SE	13	G	23	3	Haze, Blowing dust
9/1/2024	10:50 pm	SE	15			4	Haze, Blowing dust
9/1/2024	10:45 pm	SE	16	G	22	7	
9/1/2024	10:40 pm	SE	23	G	33	10	
9/1/2024	10:35 pm	SSE	10			10	
9/1/2024	10:30 pm	SSE	9			10	
9/1/2024	10:25 pm	SSE	7			10	
9/1/2024	10:20 pm	SSE	5			10	
9/1/2024	10:15 pm	N	0			10	
9/1/2024	10:10 pm	S	3			10	
9/1/2024	10:05 pm	S	3			10	
9/1/2024	10:00 pm	S	5			10	
9/1/2024	9:55 pm	SSW	6			10	
9/1/2024	9:51 pm	S	5			10	
9/1/2024	9:50 pm	S	6			10	
9/1/2024	9:45 pm	SSW	7			10	
9/1/2024	9:40 pm	SSW	6			10	
9/1/2024	9:35 pm	S	5			10	
9/1/2024	9:30 pm	S	6			10	
9/1/2024	9:25 pm	S	7			10	
9/1/2024	9:20 pm	S	7			10	
9/1/2024	9:15 pm	S	7			10	
9/1/2024	9:10 pm	S	6			10	
9/1/2024	9:05 pm	S	5			10	
9/1/2024	9:00 pm	S	5			10	
9/1/2024	8:55 pm	S	6			10	
9/1/2024	8:51 pm	SSW	5			10	
9/1/2024	8:50 pm	SSW	5			10	



NOAA Phoenix Sky Harbor International Airport Station, Time Series Viewer - Weather Conditions for 09/02/2022

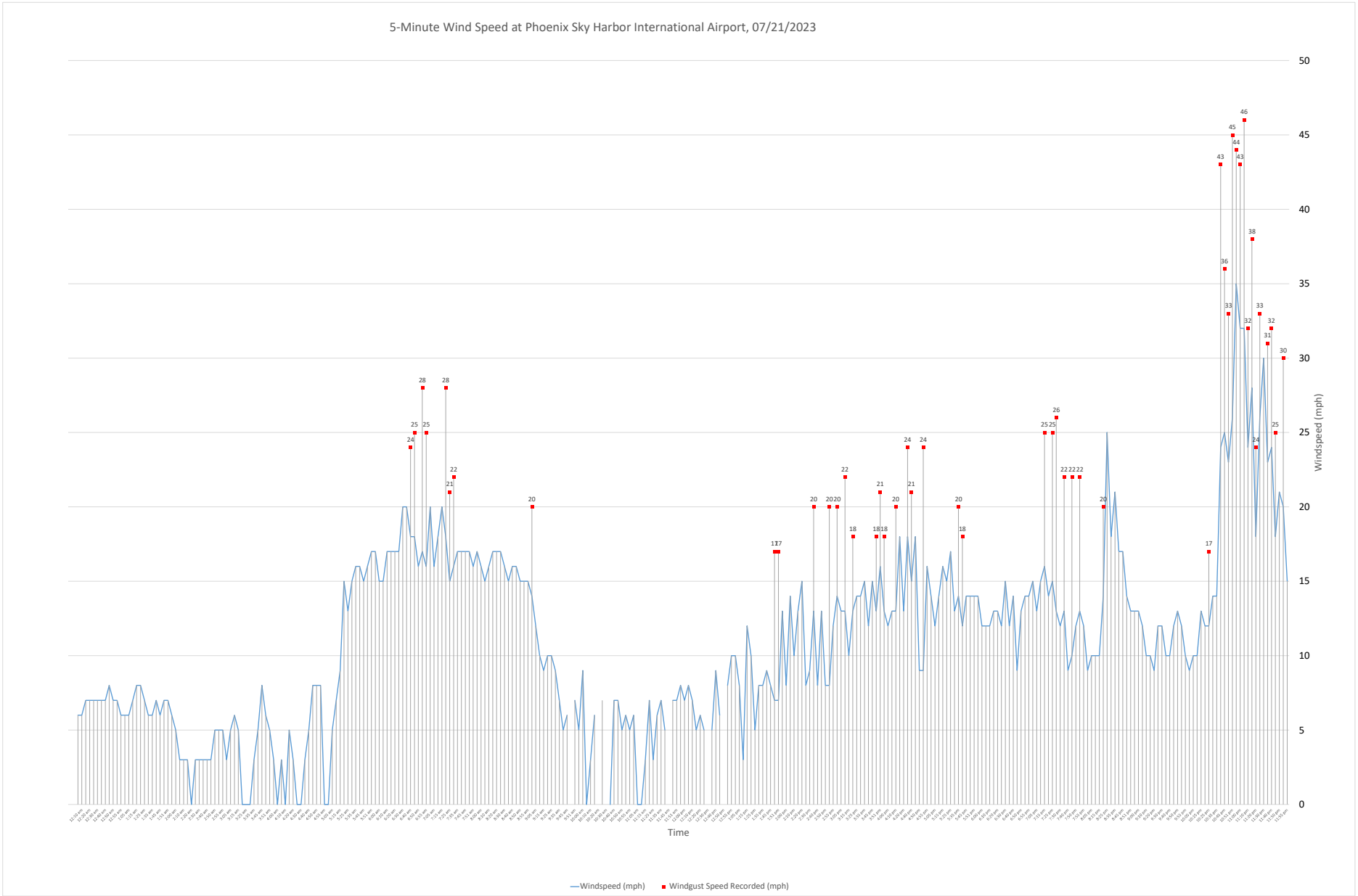
Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather condtions
7/21/2023	11:55 pm	SSW	15			10	
7/21/2023	11:51 pm	SSW	20	G	30	10	
7/21/2023	11:50 pm	S	21			10	
7/21/2023	11:45 pm	S	18	G	25	8	
7/21/2023	11:40 pm	SSW	24	G	32	7	
7/21/2023	11:35 pm	S	23	G	31	7	
7/21/2023	11:30 pm	S	30			7	
7/21/2023	11:25 pm	S	26	G	33	7	
7/21/2023	11:20 pm	S	18	G	24	6	Haze
7/21/2023	11:15 pm	S	28	G	38	5	Haze
7/21/2023	11:10 pm	S	24	G	32	4	Haze
7/21/2023	11:05 pm	S	32	G	46	4	Haze
7/21/2023	11:00 pm	S	32	G	43	4	Blowing dust
7/21/2023	10:55 pm	S	35	G	44	3	Blowing dust
7/21/2023	10:51 pm	SSE	26	G	45	3	Blowing dust
7/21/2023	10:50 pm	SSE	23	G	33	3	Blowing dust
7/21/2023	10:45 pm	SSE	25	G	36	5	Haze
7/21/2023	10:40 pm	S	24	G	43	10	
7/21/2023	10:35 pm	SSE	14			10	
7/21/2023	10:30 pm	SSE	14			10	
7/21/2023	10:25 pm	S	12	G	17	10	
7/21/2023	10:20 pm	SSE	12			10	
7/21/2023	10:15 pm	SSE	13			10	
7/21/2023	10:10 pm	SSE	10			10	
7/21/2023	10:05 pm	SSE	10			10	
7/21/2023	10:00 pm	SE	9			10	
7/21/2023	9:55 pm	ESE	10			10	
7/21/2023	9:51 pm	ESE	12			10	
7/21/2023	9:50 pm	ESE	13			10	
7/21/2023	9:45 pm	ESE	12			10	
7/21/2023	9:40 pm	E	10			10	
7/21/2023	9:35 pm	E	10			10	
7/21/2023	9:30 pm	E	12			10	
7/21/2023	9:25 pm	E	12			10	
7/21/2023	9:20 pm	E	9			10	
7/21/2023	9:15 pm	E	10			10	
7/21/2023	9:10 pm	E	10			10	
7/21/2023	9:05 pm	E	12			10	
7/21/2023	9:00 pm	E	13			10	
7/21/2023	8:55 pm	E	13			10	
7/21/2023	8:51 pm	E	13			10	
7/21/2023	8:50 pm	E	14			10	
7/21/2023	8:45 pm	ENE	17			8	
7/21/2023	8:40 pm	E	17			7	
7/21/2023	8:35 pm	ENE	21			7	
7/21/2023	8:30 pm	ENE	18			8	
7/21/2023	8:25 pm	ENE	25			9	
7/21/2023	8:20 pm	NNE	14	G	20	10	
7/21/2023	8:15 pm	NE	10			10	
7/21/2023	8:10 pm	NNE	10			10	
7/21/2023	8:05 pm	NNE	10			10	
7/21/2023	8:00 pm	NNE	9			10	
7/21/2023	7:55 pm	N	12			10	
7/21/2023	7:51 pm	N	13	G	22	10	
7/21/2023	7:50 pm	N	12			10	
7/21/2023	7:45 pm	NNW	10	G	22	10	
7/21/2023	7:40 pm	NNW	9			10	
7/21/2023	7:35 pm	NNW	13	G	22	10	
7/21/2023	7:30 pm	NW	12			9	
7/21/2023	7:26 pm	NNW	13	G	26	10	
7/21/2023	7:25 pm	NNW	15	G	25	10	
7/21/2023	7:20 pm	NNW	14			10	
7/21/2023	7:15 pm	NW	16	G	25	10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather condtions
7/21/2023	7:10 pm	WNW	15			10	
7/21/2023	7:05 pm	W	13			10	
7/21/2023	7:00 pm	W	15			10	
7/21/2023	6:55 pm	W	14			10	
7/21/2023	6:51 pm	W	14			10	
7/21/2023	6:50 pm	W	13			10	
7/21/2023	6:45 pm	WSW	9			10	
7/21/2023	6:40 pm	WSW	14			10	
7/21/2023	6:35 pm	WSW	12			10	
7/21/2023	6:30 pm	W	15			10	
7/21/2023	6:25 pm	W	12			10	
7/21/2023	6:20 pm	WSW	13			10	
7/21/2023	6:15 pm	W	13			10	
7/21/2023	6:10 pm	WSW	12			10	
7/21/2023	6:05 pm	WSW	12			10	
7/21/2023	6:00 pm	W	12			10	
7/21/2023	5:55 pm	W	14			10	
7/21/2023	5:51 pm	W	14			10	
7/21/2023	5:50 pm	W	14			10	
7/21/2023	5:45 pm	WSW	14			10	
7/21/2023	5:40 pm	WSW	12	G	18	10	
7/21/2023	5:35 pm	W	14	G	20	10	
7/21/2023	5:30 pm	W	13			10	
7/21/2023	5:25 pm	W	17			10	
7/21/2023	5:20 pm	WNW	15			10	
7/21/2023	5:15 pm	W	16			10	
7/21/2023	5:10 pm	WNW	14			10	
7/21/2023	5:05 pm	W	12			10	
7/21/2023	5:00 pm	W	14			10	
7/21/2023	4:55 pm	W	16			10	
7/21/2023	4:51 pm	WSW	9	G	24	10	
7/21/2023	4:50 pm	W	9			10	
7/21/2023	4:45 pm	WNW	18			10	
7/21/2023	4:40 pm	W	15	G	21	10	
7/21/2023	4:30 pm	WNW	18	G	24	10	
7/21/2023	4:20 pm	WNW	13			10	
7/21/2023	4:15 pm	W	18			10	
7/21/2023	4:10 pm	W	13	G	20	10	
7/21/2023	4:05 pm	W	13			10	
7/21/2023	4:00 pm	WSW	12			10	
7/21/2023	3:55 pm	W	13	G	18	10	
7/21/2023	3:51 pm	WNW	16	G	21	10	
7/21/2023	3:50 pm	WNW	13	G	18	10	
7/21/2023	3:45 pm	WNW	15			10	
7/21/2023	3:40 pm	W	12			10	
7/21/2023	3:35 pm	WNW	15			10	
7/21/2023	3:30 pm	WNW	14			10	
7/21/2023	3:25 pm	WNW	14			10	
7/21/2023	3:20 pm	W	13	G	18	10	
7/21/2023	3:15 pm	WSW	10			10	
7/21/2023	3:10 pm	WNW	13	G	22	10	
7/21/2023	3:05 pm	WSW	13			10	
7/21/2023	3:00 pm	W	14	G	20	10	
7/21/2023	2:55 pm	W	12			10	
7/21/2023	2:51 pm	WSW	8	G	20	10	
7/21/2023	2:50 pm	WSW	8			10	
7/21/2023	2:45 pm	W	13			10	
7/21/2023	2:40 pm	WSW	8			10	
7/21/2023	2:35 pm	W	13	G	20	10	
7/21/2023	2:30 pm	WSW	9			10	
7/21/2023	2:25 pm	W	8			10	
7/21/2023	2:20 pm	W	15			10	
7/21/2023	2:15 pm	W	13			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather condtions
7/21/2023	2:10 pm	WSW	10			10	
7/21/2023	2:05 pm	W	14			8	
7/21/2023	2:00 pm	SW	8			8	
7/21/2023	1:55 pm	SSW	13			9	
7/21/2023	1:51 pm	W	7	G	17	10	
7/21/2023	1:50 pm	W	7	G	17	10	
7/21/2023	1:45 pm	WNW	8			10	
7/21/2023	1:40 pm	W	9			10	
7/21/2023	1:35 pm	NW	8			10	
7/21/2023	1:30 pm	WSW	8			10	
7/21/2023	1:25 pm	WSW	5			9	
7/21/2023	1:20 pm	W	10			9	
7/21/2023	1:15 pm	W	12			10	
7/21/2023	1:10 pm	W	3			10	
7/21/2023	1:05 pm	WNW	8			10	
7/21/2023	1:00 pm	W	10			10	
7/21/2023	12:55 pm	W	10			10	
7/21/2023	12:51 pm	W	8			10	
7/21/2023	12:50 pm					10	
7/21/2023	12:45 pm	SSE	6			10	
7/21/2023	12:40 pm	S	9			10	
7/21/2023	12:35 pm	S	5			8	
7/21/2023	12:30 pm					8	
7/21/2023	12:25 pm	WSW	5			9	
7/21/2023	12:20 pm	NW	6			10	
7/21/2023	12:15 pm	WNW	5			10	
7/21/2023	12:10 pm	W	7			10	
7/21/2023	12:05 pm	WSW	8			10	
7/21/2023	12:00 pm	SSW	7			10	
7/21/2023	11:55 am	SW	8			10	
7/21/2023	11:51 am		7			10	
7/21/2023	11:50 am	W	7			10	
7/21/2023	11:45 am					10	
7/21/2023	11:40 am	S	5			9	
7/21/2023	11:35 am	SSW	7			9	
7/21/2023	11:30 am	W	6			9	
7/21/2023	11:25 am	SSW	3			9	
7/21/2023	11:20 am	S	7			9	
7/21/2023	11:15 am	ESE	3			9	
7/21/2023	11:10 am	N	0			10	
7/21/2023	11:05 am	N	0			10	
7/21/2023	11:00 am	SSW	6			9	
7/21/2023	10:55 am	S	5			9	
7/21/2023	10:51 am	WSW	6			10	
7/21/2023	10:50 am	SW	5			10	
7/21/2023	10:45 am	SW	7			10	
7/21/2023	10:40 am	S	7			9	
7/21/2023	10:35 am	N	0			9	
7/21/2023	10:30 am					9	
7/21/2023	10:25 am	W	7			10	
7/21/2023	10:20 am					10	
7/21/2023	10:15 am	SW	6			10	
7/21/2023	10:10 am	NNW	3			10	
7/21/2023	10:05 am	N	0			10	
7/21/2023	10:00 am	WNW	9			10	
7/21/2023	9:55 am	NNW	5			10	
7/21/2023	9:51 am	NW	7			10	
7/21/2023	9:50 am					10	
7/21/2023	9:45 am	NW	6			10	
7/21/2023	9:40 am	NW	5			10	
7/21/2023	9:35 am	NW	7			10	
7/21/2023	9:30 am	NW	9			10	
7/21/2023	9:25 am	NW	10			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather condtions
7/21/2023	9:20 am	WNW	10			9	
7/21/2023	9:15 am	WNW	9			9	
7/21/2023	9:10 am	WNW	10			9	
7/21/2023	9:05 am	WNW	12			8	
7/21/2023	9:00 am	WNW	14	G	20	8	
7/21/2023	8:55 am	NW	15			9	
7/21/2023	8:51 am	NW	15			10	
7/21/2023	8:50 am	NW	15			10	
7/21/2023	8:45 am	NW	16			10	
7/21/2023	8:40 am	WNW	16			10	
7/21/2023	8:35 am	NW	15			10	
7/21/2023	8:30 am	NW	16			10	
7/21/2023	8:25 am	NW	17			10	
7/21/2023	8:20 am	WNW	17			10	
7/21/2023	8:15 am	WNW	17			10	
7/21/2023	8:10 am	WNW	16			10	
7/21/2023	8:05 am	W	15			10	
7/21/2023	8:00 am	WNW	16			8	
7/21/2023	7:55 am	WNW	17			8	
7/21/2023	7:51 am	W	16			10	
7/21/2023	7:50 am	W	17			10	
7/21/2023	7:45 am	WNW	17			10	
7/21/2023	7:40 am	WNW	17			10	
7/21/2023	7:35 am	WNW	17			10	
7/21/2023	7:30 am	WNW	16	G	22	10	
7/21/2023	7:25 am	NW	15	G	21	10	
7/21/2023	7:20 am	NW	18	G	28	10	
7/21/2023	7:15 am	WNW	20			10	
7/21/2023	7:10 am	NW	18			10	
7/21/2023	7:05 am	WNW	16			6	Haze
7/21/2023	7:00 am	WNW	20			6	Haze
7/21/2023	6:55 am	NW	16	G	25	6	Haze
7/21/2023	6:51 am	NW	17	G	28	10	
7/21/2023	6:50 am	NW	16			10	
7/21/2023	6:45 am	WNW	18	G	25	10	
7/21/2023	6:40 am	WNW	18	G	24	10	
7/21/2023	6:35 am	WNW	20			10	
7/21/2023	6:30 am	WNW	20			10	
7/21/2023	6:25 am	WNW	17			10	
7/21/2023	6:20 am	W	17			10	
7/21/2023	6:15 am	W	17			10	
7/21/2023	6:10 am	WNW	17			10	
7/21/2023	6:05 am	WNW	15			10	
7/21/2023	6:00 am	WNW	15			10	
7/21/2023	5:55 am	W	17			6	Haze
7/21/2023	5:51 am	W	17			10	
7/21/2023	5:50 am	W	16			10	
7/21/2023	5:45 am	WNW	15			10	
7/21/2023	5:40 am	WNW	16			7	
7/21/2023	5:35 am	WNW	16			8	
7/21/2023	5:30 am	WNW	15			10	
7/21/2023	5:25 am	NW	13			10	
7/21/2023	5:20 am	WNW	15			10	
7/21/2023	5:15 am	WNW	9			10	
7/21/2023	5:10 am	NW	7			10	
7/21/2023	5:05 am	W	5			10	
7/21/2023	5:00 am	N	0			10	
7/21/2023	4:55 am	N	0			10	
7/21/2023	4:51 am	SSE	8			10	
7/21/2023	4:50 am	SSE	8			10	
7/21/2023	4:45 am	S	8			10	
7/21/2023	4:40 am	SSW	5			10	
7/21/2023	4:35 am	WSW	3			9	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather condtions
7/21/2023	4:30 am	N	0			9	
7/21/2023	4:25 am	N	0			9	
7/21/2023	4:20 am	E	3			10	
7/21/2023	4:15 am	ESE	5			10	
7/21/2023	4:10 am	N	0			10	
7/21/2023	4:05 am	N	3			10	
7/21/2023	4:00 am	N	0			10	
7/21/2023	3:55 am	NE	3			10	
7/21/2023	3:51 am	ENE	5			10	
7/21/2023	3:50 am	ENE	6			10	
7/21/2023	3:45 am	E	8			10	
7/21/2023	3:40 am	ENE	5			10	
7/21/2023	3:35 am	NE	3			10	
7/21/2023	3:30 am	N	0			10	
7/21/2023	3:25 am	N	0			10	
7/21/2023	3:20 am	N	0			10	
7/21/2023	3:15 am	NW	5			10	
7/21/2023	3:10 am	NW	6			10	
7/21/2023	3:05 am	NW	5			10	
7/21/2023	3:00 am	NW	3			10	
7/21/2023	2:55 am	NNW	5			10	
7/21/2023	2:51 am	NNW	5			10	
7/21/2023	2:50 am	N	5			10	
7/21/2023	2:45 am	N	3			10	
7/21/2023	2:40 am	W	3			10	
7/21/2023	2:35 am	WSW	3			10	
7/21/2023	2:30 am	SW	3			10	
7/21/2023	2:25 am	SW	3			10	
7/21/2023	2:20 am	N	0			10	
7/21/2023	2:15 am	W	3			10	
7/21/2023	2:10 am	WSW	3			10	
7/21/2023	2:05 am	WSW	3			10	
7/21/2023	2:00 am	WSW	5			10	
7/21/2023	1:55 am	WSW	6			10	
7/21/2023	1:51 am	WSW	7			10	
7/21/2023	1:50 am	WSW	7			10	
7/21/2023	1:45 am	WSW	6			10	
7/21/2023	1:40 am	SW	7			10	
7/21/2023	1:35 am	SW	6			10	
7/21/2023	1:30 am	W	6			10	
7/21/2023	1:25 am	W	7			10	
7/21/2023	1:20 am	W	8			10	
7/21/2023	1:15 am	W	8			10	
7/21/2023	1:10 am	W	7			10	
7/21/2023	1:05 am	W	6			10	
7/21/2023	1:00 am	W	6			10	
7/21/2023	12:55 am	W	6			10	
7/21/2023	12:51 am	W	7			10	
7/21/2023	12:50 am	W	7			10	
7/21/2023	12:45 am	W	8			10	
7/21/2023	12:40 am	WNW	7			10	
7/21/2023	12:35 am	W	7			10	
7/21/2023	12:30 am	W	7			10	
7/21/2023	12:25 am	W	7			10	
7/21/2023	12:20 am	W	7			10	
7/21/2023	12:15 am	W	7			10	
7/21/2023	12:10 am	W	6			10	
7/21/2023	12:05 am	W	6			10	



NOAA Phoenix Sky Harbor International Airport Station, Time Series Viewer - Weather Conditions for 07/21/2023

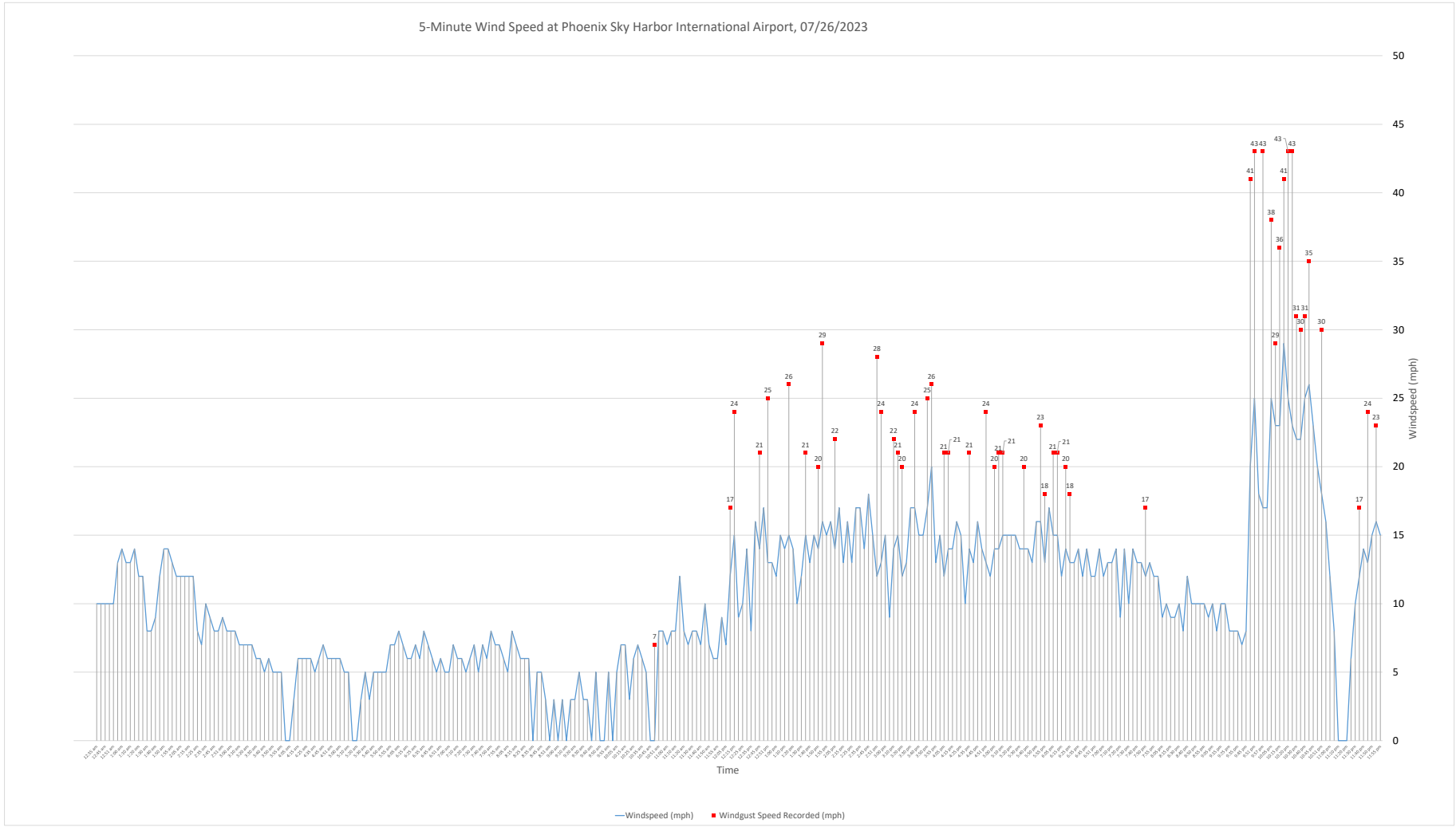
Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
7/26/2023	11:55 pm	SSE	15			10	
7/26/2023	11:51 pm	SSE	16	G	23	10	
7/26/2023	11:50 pm	SSE	15			10	
7/26/2023	11:45 pm	SE	13	G	24	10	
7/26/2023	11:40 pm	SSE	14			10	
7/26/2023	11:35 pm	SSE	12	G	17	10	
7/26/2023	11:30 pm	SSE	10			10	
7/26/2023	11:25 pm	E	6			10	
7/26/2023	11:20 pm	N	0			10	
7/26/2023	11:15 pm	N	0			10	
7/26/2023	11:10 pm	N	0			10	
7/26/2023	11:05 pm	SSE	8			10	
7/26/2023	11:00 pm	SE	12			10	
7/26/2023	10:55 pm	E	16			10	
7/26/2023	10:51 pm	E	18	G	30	9	Thunder
7/26/2023	10:50 pm	E	20			9	
7/26/2023	10:45 pm	E	23			8	
7/26/2023	10:43 pm	E	26	G	35	8	Thunder
7/26/2023	10:40 pm	ENE	25	G	31	8	
7/26/2023	10:35 pm	E	22	G	30	6	Blowing dust
7/26/2023	10:30 pm	E	22	G	31	3	Blowing dust
7/26/2023	10:25 pm	ESE	23	G	43	2.5	Blowing dust
7/26/2023	10:20 pm	SE	25	G	43	2	Blowing dust
7/26/2023	10:18 pm	SE	29	G	41	0.5	
7/26/2023	10:15 pm	SSE	23	G	36	0.5	
7/26/2023	10:10 pm	SSE	23	G	29	0.5	
7/26/2023	10:05 pm	SSE	25	G	38	0.5	
7/26/2023	10:00 pm	S	17			0.5	
7/26/2023	9:57 pm	S	17	G	43	0.5	
7/26/2023	9:55 pm	SSE	18			1.75	Blowing dust
7/26/2023	9:51 pm	SSE	25	G	43	3	Blowing dust
7/26/2023	9:50 pm	SSE	20	G	41	6	Blowing dust
7/26/2023	9:45 pm	S	8			10	
7/26/2023	9:40 pm	WSW	7			10	
7/26/2023	9:35 pm	WSW	8			10	
7/26/2023	9:30 pm	WSW	8			10	
7/26/2023	9:25 pm	WSW	8			10	
7/26/2023	9:20 pm	WSW	10			10	
7/26/2023	9:15 pm	W	10			10	
7/26/2023	9:10 pm	WSW	8			10	
7/26/2023	9:05 pm	WSW	10			10	
7/26/2023	9:00 pm	WSW	9			10	
7/26/2023	8:55 pm	WSW	10			10	
7/26/2023	8:51 pm	WSW	10			10	
7/26/2023	8:50 pm	WSW	10			10	
7/26/2023	8:45 pm	WSW	10			10	
7/26/2023	8:40 pm	W	12			10	
7/26/2023	8:35 pm	W	8			10	
7/26/2023	8:30 pm	WSW	10			10	
7/26/2023	8:25 pm	WSW	9			10	
7/26/2023	8:15 pm	W	9			10	
7/26/2023	8:10 pm	W	10			10	
7/26/2023	8:05 pm	W	9			10	
7/26/2023	8:00 pm	W	12			10	
7/26/2023	7:55 pm	W	12			10	
7/26/2023	7:51 pm	W	13			10	
7/26/2023	7:50 pm	W	12	G	17	10	
7/26/2023	7:45 pm	W	13			10	
7/26/2023	7:40 pm	W	13			10	
7/26/2023	7:35 pm	W	14			10	
7/26/2023	7:30 pm	W	10			10	
7/26/2023	7:25 pm	W	14			10	
7/26/2023	7:20 pm	WSW	9			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
7/26/2023	7:15 pm	WSW	14			10	
7/26/2023	7:10 pm	WSW	13			10	
7/26/2023	7:05 pm	W	13			10	
7/26/2023	7:00 pm	W	12			10	
7/26/2023	6:55 pm	WSW	14			10	
7/26/2023	6:51 pm	W	12			10	
7/26/2023	6:50 pm	W	12			10	
7/26/2023	6:45 pm	W	14			10	
7/26/2023	6:40 pm	WSW	12			10	
7/26/2023	6:35 pm	W	14			10	
7/26/2023	6:30 pm	WSW	13			10	
7/26/2023	6:25 pm	W	13	G	18	10	
7/26/2023	6:20 pm	WSW	14	G	20	10	
7/26/2023	6:15 pm	WSW	12			10	
7/26/2023	6:10 pm	WSW	15	G	21	10	
7/26/2023	6:05 pm	W	15	G	21	10	
7/26/2023	6:00 pm	W	17			10	
7/26/2023	5:55 pm	W	13	G	18	10	
7/26/2023	5:51 pm	WSW	16	G	23	10	
7/26/2023	5:50 pm	WSW	16			10	
7/26/2023	5:45 pm	W	13			10	
7/26/2023	5:40 pm	W	14			10	
7/26/2023	5:35 pm	W	14	G	20	10	
7/26/2023	5:30 pm	W	14			10	
7/26/2023	5:25 pm	WSW	15			10	
7/26/2023	5:20 pm	W	15			10	
7/26/2023	5:15 pm	W	15			10	
7/26/2023	5:10 pm	W	15	G	21	10	
7/26/2023	5:05 pm	W	14	G	21	10	
7/26/2023	5:00 pm	WSW	14	G	20	10	
7/26/2023	4:55 pm	W	12			10	
7/26/2023	4:51 pm	WSW	13	G	24	10	
7/26/2023	4:50 pm	W	14			10	
7/26/2023	4:45 pm	W	16			10	
7/26/2023	4:40 pm	W	13			10	
7/26/2023	4:35 pm	W	14	G	21	10	
7/26/2023	4:30 pm	WNW	10			10	
7/26/2023	4:25 pm	W	15			10	
7/26/2023	4:20 pm	W	16			10	
7/26/2023	4:15 pm	WSW	14			10	
7/26/2023	4:10 pm	W	14	G	21	10	
7/26/2023	4:05 pm	WSW	12	G	21	10	
7/26/2023	4:00 pm	W	15			10	
7/26/2023	3:55 pm	W	13			10	
7/26/2023	3:51 pm	W	20	G	26	10	
7/26/2023	3:50 pm	W	17	G	25	10	
7/26/2023	3:45 pm	W	15			10	
7/26/2023	3:40 pm	WSW	15			10	
7/26/2023	3:35 pm	W	17	G	24	10	
7/26/2023	3:30 pm	W	17			10	
7/26/2023	3:25 pm	W	13			10	
7/26/2023	3:20 pm	W	12	G	20	10	
7/26/2023	3:15 pm	WNW	15	G	21	10	
7/26/2023	3:10 pm	WNW	14	G	22	10	
7/26/2023	3:05 pm	W	9			10	
7/26/2023	3:00 pm	W	15			10	
7/26/2023	2:55 pm	W	13	G	24	10	
7/26/2023	2:51 pm	W	12	G	28	10	
7/26/2023	2:50 pm	W	15			10	
7/26/2023	2:45 pm	W	18			10	
7/26/2023	2:40 pm	W	14			10	
7/26/2023	2:35 pm	W	17			10	
7/26/2023	2:30 pm	W	17			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
7/26/2023	2:25 pm	WNW	13			10	
7/26/2023	2:20 pm	W	16			10	
7/26/2023	2:15 pm	WSW	13			10	
7/26/2023	2:10 pm	W	17			10	
7/26/2023	2:05 pm	WSW	14	G	22	10	
7/26/2023	2:00 pm	WNW	16			10	
7/26/2023	1:55 pm	WSW	15			10	
7/26/2023	1:51 pm	WSW	16	G	29	10	
7/26/2023	1:50 pm	WSW	14	G	20	10	
7/26/2023	1:45 pm	W	15			10	
7/26/2023	1:40 pm	WSW	13			10	
7/26/2023	1:35 pm	WSW	15	G	21	10	
7/26/2023	1:30 pm	W	12			10	
7/26/2023	1:25 pm	WSW	10			10	
7/26/2023	1:20 pm	W	14			10	
7/26/2023	1:15 pm	W	15	G	26	10	
7/26/2023	1:10 pm	W	14			10	
7/26/2023	1:05 pm	W	15			10	
7/26/2023	1:00 pm	WSW	12			10	
7/26/2023	12:55 pm	WSW	13			10	
7/26/2023	12:51 pm	W	13	G	25	10	
7/26/2023	12:50 pm	W	17			10	
7/26/2023	12:45 pm	WNW	14	G	21	10	
7/26/2023	12:40 pm	WNW	16			10	
7/26/2023	12:35 pm	W	8			10	
7/26/2023	12:30 pm	W	14			9	
7/26/2023	12:25 pm	W	10			9	
7/26/2023	12:20 pm	W	9			9	
7/26/2023	12:15 pm	W	15	G	24	10	
7/26/2023	12:10 pm	W	12	G	17	10	
7/26/2023	12:05 pm	NW	7			10	
7/26/2023	12:00 pm	W	9			10	
7/26/2023	11:55 am	NW	6			10	
7/26/2023	11:51 am		6			10	
7/26/2023	11:50 am	W	7			10	
7/26/2023	11:45 am	WNW	10			8	
7/26/2023	11:40 am	SW	7			9	
7/26/2023	11:35 am	SW	8			10	
7/26/2023	11:30 am	WSW	8			10	
7/26/2023	11:25 am	WSW	7			10	
7/26/2023	11:20 am	WNW	8			10	
7/26/2023	11:15 am	WNW	12			10	
7/26/2023	11:10 am	W	8			10	
7/26/2023	11:05 am	SW	8			10	
7/26/2023	11:00 am	SW	7			10	
7/26/2023	10:55 am	W	8			10	
7/26/2023	10:51 am	SW	8			10	
7/26/2023	10:50 am	SW	8G	1	7	10	
7/26/2023	10:45 am	N	0			10	
7/26/2023	10:40 am	W	5			10	
7/26/2023	10:35 am	SW	6			10	
7/26/2023	10:30 am	WSW	7			10	
7/26/2023	10:25 am	SW	6			10	
7/26/2023	10:20 am	W	3			10	
7/26/2023	10:15 am	NW	7			10	
7/26/2023	10:10 am	WNW	7			10	
7/26/2023	10:05 am	WSW	5			10	
7/26/2023	10:00 am	N	0			10	
7/26/2023	9:55 am	WNW	5			10	
7/26/2023	9:51 am	N	0			10	
7/26/2023	9:50 am	N	0			10	
7/26/2023	9:45 am	W	5			10	
7/26/2023	9:40 am	N	0			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
7/26/2023	9:35 am	ESE	3			10	
7/26/2023	9:30 am	S	3			10	
7/26/2023	9:25 am	S	5			10	
7/26/2023	9:20 am	ENE	3			10	
7/26/2023	9:15 am	SSE	3			10	
7/26/2023	9:10 am	N	0			10	
7/26/2023	9:05 am	SE	3			10	
7/26/2023	9:00 am	N	0			10	
7/26/2023	8:55 am	ENE	3			10	
7/26/2023	8:51 am	N	0			9	
7/26/2023	8:50 am	SE	3			9	
7/26/2023	8:45 am	E	5			10	
7/26/2023	8:40 am	ESE	5			10	
7/26/2023	8:35 am	N	0			10	
7/26/2023	8:30 am	E	6			10	
7/26/2023	8:25 am	E	6			10	
7/26/2023	8:20 am	E	6			10	
7/26/2023	8:15 am	ESE	7			10	
7/26/2023	8:10 am	E	8			10	
7/26/2023	8:05 am	E	5			10	
7/26/2023	8:00 am	E	6			9	
7/26/2023	7:55 am	E	7			9	
7/26/2023	7:51 am	E	7			10	
7/26/2023	7:50 am	E	8			10	
7/26/2023	7:45 am	E	6			10	
7/26/2023	7:40 am	ESE	7			10	
7/26/2023	7:35 am	ESE	5			10	
7/26/2023	7:30 am	SE	7			10	
7/26/2023	7:25 am	ESE	6			10	
7/26/2023	7:20 am	ESE	5			10	
7/26/2023	7:15 am	E	6			7	
7/26/2023	7:10 am	E	6			8	
7/26/2023	7:05 am	E	7			9	
7/26/2023	7:00 am	E	5			10	
7/26/2023	6:55 am	E	5			10	
7/26/2023	6:51 am	E	6			10	
7/26/2023	6:50 am	E	5			10	
7/26/2023	6:45 am	ESE	6			10	
7/26/2023	6:40 am	E	7			10	
7/26/2023	6:35 am	ESE	8			7	
7/26/2023	6:30 am	ESE	6			7	
7/26/2023	6:25 am	E	7			10	
7/26/2023	6:20 am	E	6			10	
7/26/2023	6:15 am	E	6			10	
7/26/2023	6:10 am	E	7			10	
7/26/2023	6:05 am	E	8			10	
7/26/2023	6:00 am	ENE	7			10	
7/26/2023	5:55 am	ENE	7			10	
7/26/2023	5:51 am	ENE	5			10	
7/26/2023	5:50 am	ENE	5			10	
7/26/2023	5:45 am	ENE	5			10	
7/26/2023	5:40 am	NE	5			10	
7/26/2023	5:35 am	ENE	3			10	
7/26/2023	5:30 am	ENE	5			10	
7/26/2023	5:25 am	NE	3			10	
7/26/2023	5:20 am	N	0			10	
7/26/2023	5:15 am	N	0			10	
7/26/2023	5:10 am	NNE	5			10	
7/26/2023	5:05 am	N	5			10	
7/26/2023	5:00 am	NNW	6			10	
7/26/2023	4:55 am	NW	6			10	
7/26/2023	4:51 am	NW	6			10	
7/26/2023	4:50 am	NW	6			10	

Date	Time	Wind Direction	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather Condition
7/26/2023	4:45 am	NW	7			10	
7/26/2023	4:40 am	NW	6			10	
7/26/2023	4:35 am	NW	5			10	
7/26/2023	4:30 am	NW	6			10	
7/26/2023	4:25 am	WNW	6			10	
7/26/2023	4:20 am	WNW	6			10	
7/26/2023	4:15 am	W	6			10	
7/26/2023	4:10 am	WSW	3			10	
7/26/2023	4:05 am	N	0			10	
7/26/2023	4:00 am	N	0			10	
7/26/2023	3:55 am	SW	5			10	
7/26/2023	3:51 am	WSW	5			10	
7/26/2023	3:50 am	W	5			10	
7/26/2023	3:45 am	W	6			10	
7/26/2023	3:40 am	WNW	5			10	
7/26/2023	3:35 am	W	6			10	
7/26/2023	3:30 am	W	6			10	
7/26/2023	3:25 am	W	7			10	
7/26/2023	3:20 am	W	7			10	
7/26/2023	3:15 am	W	7			10	
7/26/2023	3:10 am	W	7			9	
7/26/2023	3:05 am	W	8			9	
7/26/2023	3:00 am	W	8			10	
7/26/2023	2:55 am	W	8			10	
7/26/2023	2:51 am	WNW	9			10	
7/26/2023	2:50 am	W	8			10	
7/26/2023	2:45 am	WNW	8			10	
7/26/2023	2:40 am	W	9			10	
7/26/2023	2:35 am	W	10			10	
7/26/2023	2:30 am	W	7			10	
7/26/2023	2:25 am	W	8			10	
7/26/2023	2:20 am	W	12			10	
7/26/2023	2:15 am	W	12			10	
7/26/2023	2:10 am	W	12			10	
7/26/2023	2:05 am	W	12			10	
7/26/2023	2:00 am	W	12			10	
7/26/2023	1:55 am	W	13			10	
7/26/2023	1:51 am	W	14			10	
7/26/2023	1:50 am	W	14			10	
7/26/2023	1:45 am	W	12			10	
7/26/2023	1:40 am	W	9			10	
7/26/2023	1:35 am	WSW	8			10	
7/26/2023	1:30 am	W	8			10	
7/26/2023	1:25 am	W	12			10	
7/26/2023	1:20 am	W	12			10	
7/26/2023	1:15 am	W	14			10	
7/26/2023	1:10 am	W	13			10	
7/26/2023	1:05 am	W	13			10	
7/26/2023	1:00 am	W	14			10	
7/26/2023	12:55 am	W	13			10	
7/26/2023	12:51 am	W	10			10	
7/26/2023	12:50 am	W	10			10	
7/26/2023	12:45 am	W	10			10	
7/26/2023	12:40 am	W	10			10	
7/26/2023	12:35 am	W	10			10	



NOAA Phoenix Sky Harbor International Airport Station, Time Series Viewer - Weather Conditions for 7/26/2023

Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	11:55 pm	90	63	41	90	NNW	15	G	25	10		SCT018 BKN110		28.72	29.91				
Jul 14,2024	11:51 pm	89	63	42	90	NNW	16	G	26	10	Thunder	SCT018 BKN110 OVC21(	1010.9	28.73	29.92			109	84
Jul 14,2024	11:50 pm	90	63	41	90	NW	17			10		SCT018 BKN110		28.73	29.92				
Jul 14,2024	11:45 pm	90	63	41	90	W	16			10		SCT018 BKN110		28.74	29.93				
Jul 14,2024	11:40 pm	91	63	39	92	W	17			10		SCT018 BKN050 OVC110		28.75	29.94				
Jul 14,2024	11:35 pm	91	63	39	92	W	17			9	Blowing dust	SCT018 BKN050 OVC110		28.75	29.94				
Jul 14,2024	11:30 pm	90	66	46	92	W	17			5	Blowing dust	SCT018 BKN050 OVC110		28.76	29.95				
Jul 14,2024	11:25 pm	90	72	56	96	W	14	G	21	3.5	Blowing dust	SCT018 BKN050 OVC110		28.77	29.96				
Jul 14,2024	11:20 pm	90	72	56	96	WSW	8			4	Blowing dust	SCT018 BKN050 OVC110		28.78	29.97				
Jul 14,2024	11:15 pm	90	72	56	96	WSW	9			4	Blowing dust	SCT018 BKN050 OVC110		28.79	29.98				
Jul 14,2024	11:10 pm	90	72	56	96	S	10			4	Blowing dust	SCT018 BKN050 OVC110		28.79	29.98				
Jul 14,2024	11:05 pm	90	70	52	95	N	0			4	Blowing dust	SCT018 BKN050 OVC110		28.78	29.97				
Jul 14,2024	11:03 pm	89	71	56	95	NNE	5			4	Thunder, Blowing dust	SCT018 BKN050 OVC110		28.77	29.96				
Jul 14,2024	11:00 pm	90	70	52	95	NNE	8			4	Blowing dust	SCT018 BKN050 OVC110		28.77	29.96				
Jul 14,2024	10:55 pm	90	70	52	95	N	8			4	Blowing dust	SCT018 BKN050 OVC110		28.76	29.95				
Jul 14,2024	10:51 pm	89	71	56	95	N	8	G	29	4	Blowing dust	SCT018 BKN050 OVC11(	1012.1	28.76	29.95	108	84		
Jul 14,2024	10:50 pm	90	72	56	96	N	8			4	Blowing dust	SCT018 BKN050 OVC110		28.76	29.95				
Jul 14,2024	10:45 pm	90	72	56	96	N	13	G	28	4	Blowing dust	SCT018 BKN050 OVC110		28.76	29.95				
Jul 14,2024	10:40 pm	90	72	56	96	N	10	G	18	4	Blowing dust	SCT018 BKN050 OVC110		28.76	29.95				
Jul 14,2024	10:35 pm	90	72	56	96	N	13			4	Blowing dust	SCT018 BKN050 OVC110		28.76	29.95				
Jul 14,2024	10:31 pm	89	72	57	96	N	16			4	Blowing dust	SCT018 BKN050 OVC110		28.77	29.96				
Jul 14,2024	10:30 pm	90	72	56	96	N	16			4	Blowing dust	SCT025 BKN050 OVC110		28.77	29.96				
Jul 14,2024	10:25 pm	88	73	63	96	N	15			4	Blowing dust	SCT025 BKN050 OVC110		28.78	29.97				
Jul 14,2024	10:20 pm	88	73	63	96	N	18			4	Blowing dust	SCT025 BKN050 OVC110		28.78	29.97				
Jul 14,2024	10:15 pm	90	72	56	96	N	22	G	28	5	Blowing dust	SCT025 BKN050 OVC110		28.78	29.97				
Jul 14,2024	10:10 pm	91	72	53	99	NW	9			6	Blowing dust	SCT025 BKN050 OVC110		28.78	29.97				
Jul 14,2024	10:05 pm	90	72	56	96	WSW	7			5	Blowing dust	SCT025 BKN050 OVC110		28.77	29.96				
Jul 14,2024	10:00 pm	90	72	56	96	SSW	8			5	Blowing dust	SCT025 BKN050 OVC110		28.76	29.95				
Jul 14,2024	9:55 pm	90	72	56	96	SSW	7			5	Blowing dust	SCT025 BKN050 OVC110		28.76	29.95				
Jul 14,2024	9:51 pm	89	73	59	97	S	7			4	Blowing dust	SCT025 BKN050 OVC11(	1011.8	28.75	29.94				
Jul 14,2024	9:50 pm	88	73	63	96	S	7			4	Blowing dust	SCT025 BKN050 OVC110		28.75	29.94				
Jul 14,2024	9:45 pm	88	73	63	96	SSW	7			4	Blowing dust	SCT032 BKN050 OVC110		28.75	29.94				
Jul 14,2024	9:40 pm	88	73	63	96	SSW	9			4	Blowing dust	SCT032 BKN050 OVC110		28.75	29.94				
Jul 14,2024	9:37 pm	86	73	65	93	SW	14			4	Thunder, Blowing dust	SCT032 BKN050 OVC110		28.74	29.93				
Jul 14,2024	9:35 pm	84	73	70	91	SW	14			4	Lt rain, Blowing dust	SCT032 BKN050 OVC110		28.74	29.93				
Jul 14,2024	9:30 pm	84	73	70	91	SSW	16	G	22	3	Lt rain, Blowing dust	BKN019 OVC110		28.73	29.92				
Jul 14,2024	9:28 pm	84	73	70	90	SSW	15	G	21	3	Lt thunder shwr, Blowing dust	BKN019 OVC110		28.73	29.92				
Jul 14,2024	9:25 pm	84	72	66	90	S	7	G	36	1.75	Lt rain, Blowing dust	BKN019 OVC110		28.74	29.93				
Jul 14,2024	9:20 pm	84	70	62	88	S	7	G	36	1	Hvy rain, Blowing dust	BKN017 OVC110		28.75	29.94				
Jul 14,2024	9:15 pm	84	70	62	88	W	10	G	16	0.75	Hvy rain, Blowing dust	BKN017 OVC110		28.78	29.97				
Jul 14,2024	9:13 pm	85	71	63	90	S	16	G	36	0.75	Hvy thunder shwr, Blowing dust	BKN017 OVC110		28.78	29.97				
Jul 14,2024	9:10 pm	86	72	62	92	S	21	G	30	1	Lt rain, Blowing dust	BKN010 BKN110		28.76	29.95				
Jul 14,2024	9:08 pm	89	69	52	94	S	25	G	35	1	Thunder shwr, Blowing dust	BKN010 BKN110		28.75	29.94				
Jul 14,2024	9:05 pm	91	65	41	93	S	23	G	31	1	Blowing dust	BKN010 BKN110		28.75	29.94				
Jul 14,2024	9:01 pm	92	65	41	94	S	24	G	33	1	Thunder, Blowing dust	SCT010 BKN110		28.74	29.93				

Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	9:00 pm	91	65	41	93	S	22	G	31	1	Blowing dust	SCT010 BKN110		28.74	29.93				
Jul 14,2024	8:55 pm	93	65	39	95	S	22	G	29	1	Blowing dust	SCT010 BKN110		28.73	29.92				
Jul 14,2024	8:51 pm	95	65	37	98	SSW	24	G	41	1	Blowing dust	FEW010 BKN090 BKN17(	1010.8	28.73	29.92				
Jul 14,2024	8:50 pm	97	65	35	99	S	25	G	36	1	Blowing dust	SCT090		28.72	29.91				
Jul 14,2024	8:49 pm	99	65	33	102	S	26	G	41	1	Blowing dust	SCT090 BKN170 BKN250		28.72	29.91				
Jul 14,2024	8:45 pm	100	65	31	104	SSW	18	G	24	10		FEW090		28.71	29.9				
Jul 14,2024	8:40 pm	100	65	31	104	SW	24	G	30	10		FEW090		28.7	29.89				
Jul 14,2024	8:35 pm	102	63	28	105	SW	23			10		FEW090		28.7	29.89				
Jul 14,2024	8:30 pm	102	63	28	105	SW	23	G	30	10		FEW090		28.69	29.88				
Jul 14,2024	8:25 pm	102	59	24	103	SW	17	G	26	10		FEW090		28.69	29.88				
Jul 14,2024	8:20 pm	102	58	23	102	WSW	15			10		FEW090		28.69	29.87				
Jul 14,2024	8:15 pm	104	58	22	104	WSW	13			10		FEW090		28.68	29.86				
Jul 14,2024	8:10 pm	104	58	22	104	WSW	12	G	17	10		FEW090		28.68	29.86				
Jul 14,2024	8:05 pm	104	58	22	104	SW	14			10		FEW090		28.69	29.87				
Jul 14,2024	8:00 pm	104	58	22	104	SW	13			10		FEW090		28.68	29.86				
Jul 14,2024	7:55 pm	104	58	22	104	SW	12			10		FEW090		28.68	29.86				
Jul 14,2024	7:51 pm	104	58	22	104	SW	13			10		FEW090 SCT170 SCT25(	1008.9	28.68	29.86				
Jul 14,2024	7:50 pm	104	58	22	104	SW	12			10		FEW090		28.68	29.86				
Jul 14,2024	7:45 pm	104	58	22	104	SW	13			10		FEW090		28.67	29.85				
Jul 14,2024	7:40 pm	104	58	22	104	SW	15			10		FEW090		28.67	29.85				
Jul 14,2024	7:35 pm	106	58	21	106	WSW	10			10		FEW090		28.67	29.85				
Jul 14,2024	7:30 pm	106	58	21	106	WSW	12			10		FEW090		28.67	29.85				
Jul 14,2024	7:25 pm	106	58	21	106	WSW	9			10		FEW090		28.67	29.85				
Jul 14,2024	7:20 pm	106	58	21	106	W	13			10		FEW090		28.66	29.84				
Jul 14,2024	7:15 pm	106	58	21	106	W	15			10		FEW090		28.66	29.84				
Jul 14,2024	7:10 pm	106	58	21	106	W	14			10		FEW090		28.66	29.84				
Jul 14,2024	7:05 pm	106	58	21	106	W	15			10		FEW090		28.66	29.84				
Jul 14,2024	7:00 pm	108	58	20	108	W	15	G	21	10		FEW090		28.66	29.84				
Jul 14,2024	6:55 pm	108	58	20	108	W	18			10		FEW090		28.66	29.84				
Jul 14,2024	6:51 pm	106	59	21	106	W	17	G	23	10		FEW090 FEW170 SCT25(	1008.2	28.66	29.84				
Jul 14,2024	6:50 pm	106	58	21	106	W	15			10		FEW090		28.66	29.84				
Jul 14,2024	6:45 pm	106	58	21	106	WSW	15			10		CLR		28.66	29.84				
Jul 14,2024	6:40 pm	108	58	20	108	W	14	G	20	10		CLR		28.66	29.84				
Jul 14,2024	6:35 pm	108	58	20	108	WSW	14			10		CLR		28.66	29.84				
Jul 14,2024	6:30 pm	108	60	21	109	W	17			10		CLR		28.66	29.84				
Jul 14,2024	6:25 pm	106	60	22	107	WSW	15			10		CLR		28.66	29.84				
Jul 14,2024	6:20 pm	108	58	20	108	W	16			10		CLR		28.66	29.84				
Jul 14,2024	6:15 pm	108	58	20	108	W	15			10		CLR		28.66	29.84				
Jul 14,2024	6:10 pm	108	58	20	108	W	20	G	25	10		CLR		28.65	29.83				
Jul 14,2024	6:05 pm	108	58	20	108	WSW	17			10		CLR		28.65	29.83				
Jul 14,2024	6:00 pm	108	58	20	108	WSW	13			10		CLR		28.65	29.83				
Jul 14,2024	5:55 pm	108	60	21	109	W	17			10		CLR		28.65	29.83				
Jul 14,2024	5:51 pm	108	60	21	109	W	15	G	23	10		FEW090 FEW180 SCT25(	1007.7	28.65	29.83				
Jul 14,2024	5:50 pm	108	58	20	108	W	15			10		FEW090		28.65	29.83				
Jul 14,2024	5:45 pm	108	58	20	108	W	15	G	21	10		FEW090		28.65	29.83				

Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	5:40 pm	108	58	20	108	WSW	14			10		FEW090		28.65	29.83				
Jul 14,2024	5:35 pm	108	60	21	109	W	12			10		FEW090		28.64	29.82				
Jul 14,2024	5:30 pm	108	60	21	109	W	15			10		FEW090		28.64	29.82				
Jul 14,2024	5:25 pm	108	60	21	109	WSW	17			10		FEW090		28.64	29.82				
Jul 14,2024	5:20 pm	108	60	21	109	W	17	G	25	10		FEW090		28.64	29.82				
Jul 14,2024	5:15 pm	108	60	21	109	W	13			10		FEW090		28.65	29.83				
Jul 14,2024	5:10 pm	108	60	21	109	WSW	17	G	24	10		FEW090		28.65	29.83				
Jul 14,2024	5:05 pm	108	60	21	109	W	16			10		FEW090		28.65	29.83				
Jul 14,2024	5:00 pm	108	60	21	109	W	16			10		FEW090		28.65	29.83				
Jul 14,2024	4:55 pm	108	60	21	109	WNW	17			10		FEW090		28.65	29.83				
Jul 14,2024	4:51 pm	108	60	21	109	WSW	14	G	26	10		FEW090 FEW180 SCT25(	1007.9	28.65	29.83			109	98
Jul 14,2024	4:50 pm	108	61	22	110	WSW	14			10		FEW090		28.65	29.83				
Jul 14,2024	4:45 pm	108	60	21	109	W	18			10		FEW090		28.65	29.83				
Jul 14,2024	4:40 pm	108	60	21	109	W	18			10		CLR		28.66	29.84				
Jul 14,2024	4:35 pm	108	61	22	110	W	15	G	22	10		CLR		28.66	29.84				
Jul 14,2024	4:30 pm	108	61	22	110	W	16	G	22	10		CLR		28.66	29.84				
Jul 14,2024	4:25 pm	108	60	21	109	NW	15			10		CLR		28.66	29.84				
Jul 14,2024	4:20 pm	109	61	21	112	W	15	G	22	10		CLR		28.66	29.84				
Jul 14,2024	4:15 pm	108	61	22	110	WNW	15			10		CLR		28.66	29.84				
Jul 14,2024	4:10 pm	108	61	22	110	WSW	15			10		CLR		28.67	29.85				
Jul 14,2024	4:05 pm	108	61	22	110	W	13	G	20	10		CLR		28.67	29.85				
Jul 14,2024	4:00 pm	109	61	21	112	W	17			10		CLR		28.67	29.85				
Jul 14,2024	3:55 pm	108	61	22	110	W	14	G	24	9		CLR		28.67	29.85				
Jul 14,2024	3:51 pm	107	61	22	109	WNW	12	G	24	10		FEW090 FEW180 SCT25(	1008.6	28.67	29.85				
Jul 14,2024	3:50 pm	108	61	22	110	WNW	12			10		FEW090		28.68	29.86				
Jul 14,2024	3:45 pm	108	61	22	110	W	13	G	20	10		FEW090		28.68	29.86				
Jul 14,2024	3:40 pm	108	61	22	110	WSW	9			10		CLR		28.68	29.86				
Jul 14,2024	3:35 pm	108	61	22	110	W	14	G	20	10		CLR		28.68	29.86				
Jul 14,2024	3:30 pm	108	61	22	110	W	13			10		CLR		28.69	29.87				
Jul 14,2024	3:25 pm	108	61	22	110	WNW	17			10		CLR		28.69	29.87				
Jul 14,2024	3:20 pm	106	63	25	109	WNW	14	G	21	10		CLR		28.69	29.88				
Jul 14,2024	3:15 pm	106	63	25	109	W	14	G	22	10		CLR		28.69	29.88				
Jul 14,2024	3:10 pm	106	63	25	109	W	7			10		CLR		28.69	29.88				
Jul 14,2024	3:05 pm	108	63	24	111	SW	13			10		CLR		28.7	29.89				
Jul 14,2024	3:00 pm	106	61	23	108	NW	14			10		CLR		28.7	29.89				
Jul 14,2024	2:55 pm	106	61	23	108	WNW	16			10		CLR		28.7	29.89				
Jul 14,2024	2:51 pm	106	63	24	109	WNW	13	G	20	10		FEW090 FEW180 FEW25	1009.9	28.7	29.89				
Jul 14,2024	2:50 pm	106	63	25	109	W	9			10		FEW090		28.7	29.89				
Jul 14,2024	2:45 pm	106	63	25	109	W	10			10		CLR		28.71	29.9				
Jul 14,2024	2:40 pm	106	63	25	109	SW	13			10		CLR		28.71	29.9				
Jul 14,2024	2:35 pm	106	63	25	109	WSW	14			10		CLR		28.71	29.9				
Jul 14,2024	2:30 pm	106	61	23	108	W	13			10		CLR		28.72	29.91				
Jul 14,2024	2:25 pm	106	61	23	108	W	10	G	16	10		CLR		28.72	29.91				
Jul 14,2024	2:20 pm	106	61	23	108	W	8			10		CLR		28.72	29.91				
Jul 14,2024	2:15 pm	106	61	23	108	W	18			10		CLR		28.72	29.91				

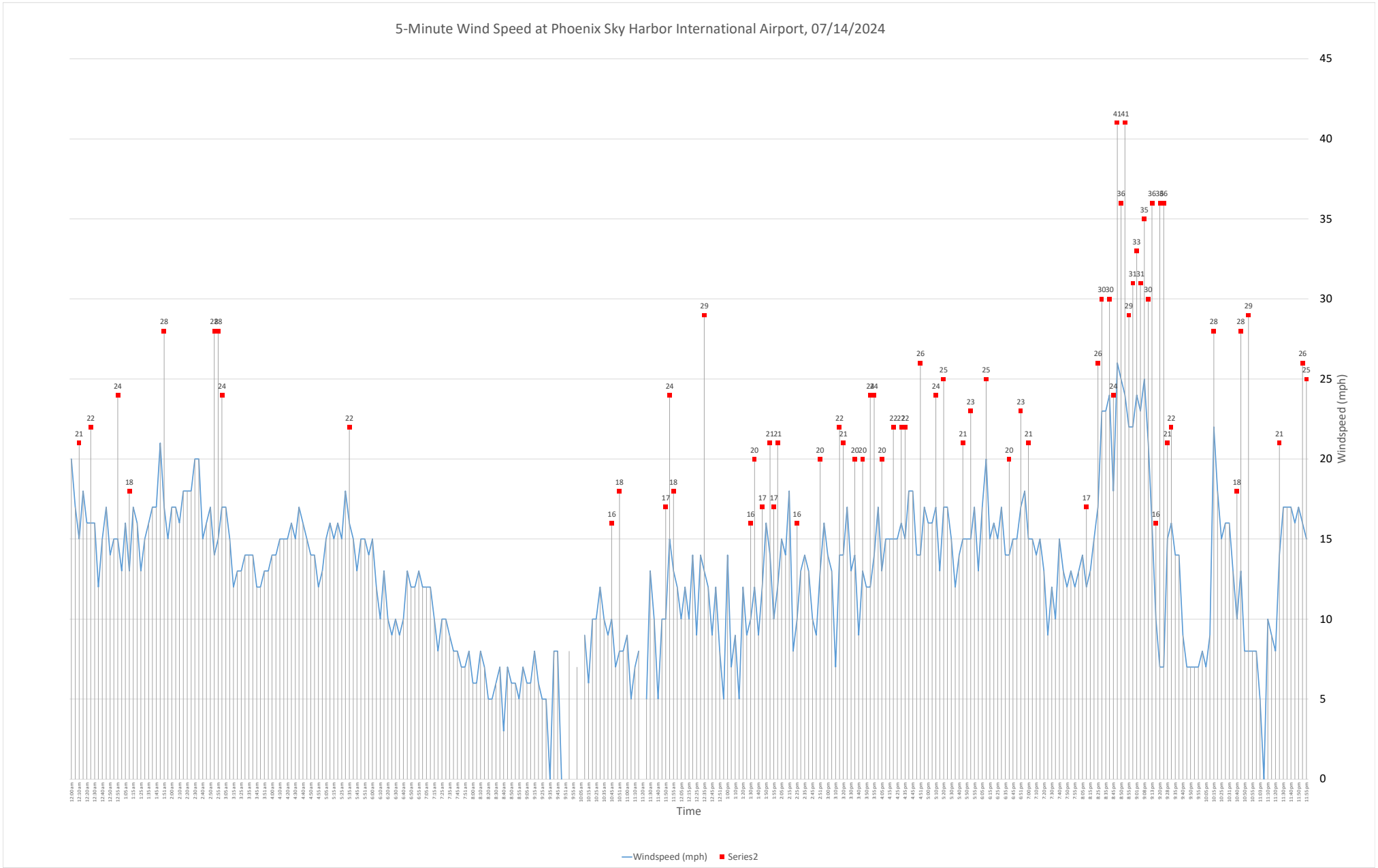
Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	2:10 pm	106	61	23	108	NW	14			10		CLR		28.73	29.92				
Jul 14,2024	2:05 pm	104	61	25	106	NW	15			10		CLR		28.73	29.92				
Jul 14,2024	2:00 pm	106	63	25	109	SW	12	G	21	10		CLR		28.73	29.92				
Jul 14,2024	1:55 pm	106	61	23	108	W	10	G	17	10		CLR		28.73	29.92				
Jul 14,2024	1:51 pm	105	61	24	107	W	14	G	21	10		FEW090 FEW180 FEW25	1011	28.74	29.93				
Jul 14,2024	1:50 pm	106	61	23	108	W	16			10		FEW090		28.74	29.93				
Jul 14,2024	1:45 pm	106	63	25	109	W	12	G	17	10		FEW090		28.74	29.93				
Jul 14,2024	1:40 pm	108	63	24	111	SW	9			10		FEW090		28.74	29.93				
Jul 14,2024	1:35 pm	106	63	25	109	WSW	12	G	20	10		FEW090		28.74	29.93				
Jul 14,2024	1:30 pm	106	63	25	109	WNW	10	G	16	10		FEW090		28.74	29.93				
Jul 14,2024	1:25 pm	104	63	26	107	W	9			10		FEW090		28.75	29.94				
Jul 14,2024	1:20 pm	104	63	26	107	WSW	12			10		FEW090		28.75	29.94				
Jul 14,2024	1:15 pm	102	63	28	105	SSW	5			10		FEW090		28.75	29.94				
Jul 14,2024	1:10 pm	102	63	28	105	W	9			10		FEW090		28.75	29.94				
Jul 14,2024	1:05 pm	102	63	28	105	WSW	7			10		FEW090		28.75	29.94				
Jul 14,2024	1:00 pm	104	63	26	107	W	14			10		FEW090		28.76	29.95				
Jul 14,2024	12:55 pm	102	61	26	104	NW	5			10		FEW090		28.76	29.95				
Jul 14,2024	12:51 pm	104	61	24	105	W	8			10		FEW090 FEW180 BKN25	1011.9	28.76	29.95				
Jul 14,2024	12:50 pm	102	61	26	104	W	12			10		FEW090		28.76	29.95				
Jul 14,2024	12:45 pm	102	61	26	104	WSW	9			10		FEW090		28.76	29.95				
Jul 14,2024	12:40 pm	102	61	26	104	W	12			10		FEW090		28.77	29.96				
Jul 14,2024	12:35 pm	102	61	26	104	NW	13	G	29	10		FEW090		28.77	29.96				
Jul 14,2024	12:30 pm	104	63	26	107	W	14			10		FEW090		28.77	29.96				
Jul 14,2024	12:25 pm	102	61	26	104	WSW	9			10		FEW090		28.77	29.96				
Jul 14,2024	12:20 pm	104	63	26	107	WNW	14			10		FEW090		28.77	29.96				
Jul 14,2024	12:15 pm	102	63	28	105	WSW	10			10		FEW090		28.78	29.97				
Jul 14,2024	12:10 pm	100	63	29	103	W	12			10		FEW090		28.78	29.97				
Jul 14,2024	12:05 pm	100	63	29	103	WNW	10			10		FEW090		28.78	29.97				
Jul 14,2024	12:00 pm	102	63	28	105	W	12			10		FEW090		28.78	29.97				
Jul 14,2024	11:55 am	102	63	28	105	W	13	G	18	10		FEW090		28.78	29.97				
Jul 14,2024	11:51 am	103	63	28	106	WNW	15	G	24	10		FEW090 BKN250	1012.7	28.78	29.97				
Jul 14,2024	11:50 am	102	63	28	105	WNW	10	G	17	10		FEW090		28.78	29.97				
Jul 14,2024	11:45 am	102	63	28	105	W	10			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:40 am	102	65	30	106	WSW	5			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:35 am	102	65	30	106	WSW	10			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:30 am	100	65	31	104	W	13			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:25 am	100	65	31	104	W	5			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:20 am	99	65	33	102					10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:15 am	102	65	30	106	SSW	8			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:10 am	100	65	31	104	SSW	7			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:05 am	99	65	33	102	WSW	5			10		FEW090 FEW120		28.79	29.98				
Jul 14,2024	11:00 am	100	65	31	104	WSW	9			10		FEW090 FEW120		28.8	29.99				
Jul 14,2024	10:55 am	99	65	33	102	WSW	8			10		FEW090 FEW120		28.8	29.99				
Jul 14,2024	10:51 am	98	65	34	101	WNW	8	G	18	10		FEW090 FEW120 SCT25	1013.2	28.8	29.99			100	89
Jul 14,2024	10:50 am	99	65	33	102	W	7			10		FEW090 FEW120		28.8	29.99				

Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	10:45 am	99	65	33	102	W	10	G	16	10		FEW090 FEW120		28.8	29.99				
Jul 14,2024	10:40 am	100	65	31	104	WNW	9			10		FEW090 FEW120		28.8	29.99				
Jul 14,2024	10:35 am	99	65	33	102	W	10			10		FEW090 FEW120		28.8	29.99				
Jul 14,2024	10:30 am	99	65	33	102	W	12			10		FEW090 FEW120		28.81	30				
Jul 14,2024	10:25 am	99	65	33	102	NW	10			10		FEW090 FEW120		28.81	30				
Jul 14,2024	10:20 am	99	66	35	103	W	10			10		FEW090 FEW120		28.81	30				
Jul 14,2024	10:15 am	99	66	35	103	WSW	6			10		FEW090 FEW120		28.81	30				
Jul 14,2024	10:10 am	99	66	35	103	SW	9			10		FEW090 FEW120		28.81	30				
Jul 14,2024	10:05 am	97	66	37	101					10		FEW090 FEW120		28.81	30				
Jul 14,2024	10:00 am	97	66	37	101	WNW	7			10		FEW090 FEW120		28.81	30				
Jul 14,2024	9:55 am	99	66	35	103					10		FEW090 FEW120		28.81	30				
Jul 14,2024	9:53 am	97	67	38	101	SW	8			10		FEW090 FEW120 SCT250		28.81	30				
Jul 14,2024	9:51 am	97	67	38	101					10		FEW090 FEW120 SCT25(	1013.6	28.81	30				
Jul 14,2024	9:50 am	97	66	37	101	N	0			10		FEW090 FEW120		28.81	30				
Jul 14,2024	9:45 am	97	66	37	101	SW	8			10		FEW090 FEW120		28.81	30				
Jul 14,2024	9:40 am	97	66	37	101	WSW	8			10		FEW090 FEW120		28.81	30				
Jul 14,2024	9:35 am	97	66	37	101	N	0			10		FEW090 FEW120		28.81	30				
Jul 14,2024	9:30 am	97	66	37	101	S	5			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	9:25 am	95	66	39	99	SW	5			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	9:20 am	95	66	39	99	WNW	6			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	9:15 am	95	66	39	99	W	8			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	9:10 am	93	66	41	96	W	6			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	9:05 am	93	66	41	96	SW	6			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	9:00 am	93	66	41	96	SW	7			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	8:55 am	93	68	44	98	WSW	5			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	8:51 am	94	67	41	98	WSW	6			10		FEW090 FEW120 BKN25(	1013.9	28.82	30.01				
Jul 14,2024	8:50 am	93	66	41	96	WSW	6			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	8:45 am	93	66	41	96	W	7			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	8:40 am	93	66	41	96	W	3			10		FEW090 FEW120		28.82	30.01				
Jul 14,2024	8:35 am	93	68	44	98	WSW	7			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	8:30 am	93	68	44	98	W	6			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	8:25 am	93	68	44	98	W	5			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	8:20 am	91	68	47	96	W	5			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	8:15 am	91	68	47	96	WNW	7			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	8:10 am	91	68	47	96	WNW	8			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	8:05 am	91	68	47	96	WNW	6			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	8:00 am	91	70	49	97	W	6			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	7:55 am	91	70	49	97	WNW	8			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	7:51 am	91	69	49	96	WNW	7			10		FEW090 FEW120 BKN25(	1014.2	28.83	30.02				
Jul 14,2024	7:50 am	91	70	49	97	W	7			10		FEW090 FEW120		28.83	30.02				
Jul 14,2024	7:45 am	91	70	49	97	WNW	8			10		FEW090		28.83	30.02				
Jul 14,2024	7:40 am	90	70	52	95	W	8			10		FEW090		28.83	30.02				
Jul 14,2024	7:35 am	91	70	49	97	WNW	9			10		FEW090		28.83	30.02				
Jul 14,2024	7:30 am	91	70	49	97	W	10			10		FEW090		28.82	30.01				
Jul 14,2024	7:25 am	90	70	52	95	W	10			10		FEW090		28.82	30.01				

Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	7:20 am	90	70	52	95	W	8			10		FEW090		28.82	30.01				
Jul 14,2024	7:15 am	90	70	52	95	WNW	10			10		FEW090		28.82	30.01				
Jul 14,2024	7:10 am	90	70	52	95	WNW	12			10		FEW090		28.82	30.01				
Jul 14,2024	7:05 am	90	70	52	95	WNW	12			10		FEW090		28.82	30.01				
Jul 14,2024	7:00 am	90	70	52	95	WNW	12			10		FEW090		28.81	30				
Jul 14,2024	6:55 am	90	70	52	95	WNW	13			10		FEW090		28.81	30				
Jul 14,2024	6:51 am	90	69	51	95	WNW	12			10		FEW090 FEW140 BKN25(	1013.4	28.81	30				
Jul 14,2024	6:50 am	90	70	52	95	WNW	12			10		FEW090		28.81	30				
Jul 14,2024	6:45 am	90	70	52	95	NW	13			10		CLR		28.81	30				
Jul 14,2024	6:40 am	90	70	52	95	NW	10			10		CLR		28.8	29.99				
Jul 14,2024	6:35 am	90	70	52	95	NW	9			10		CLR		28.81	30				
Jul 14,2024	6:30 am	90	70	52	95	NW	10			10		CLR		28.8	29.99				
Jul 14,2024	6:25 am	90	70	52	95	NW	9			10		CLR		28.8	29.99				
Jul 14,2024	6:20 am	90	68	49	94	NW	10			10		CLR		28.8	29.99				
Jul 14,2024	6:15 am	90	68	49	94	NW	13			10		CLR		28.8	29.99				
Jul 14,2024	6:10 am	90	68	49	94	WNW	10			10		CLR		28.79	29.98				
Jul 14,2024	6:05 am	90	68	49	94	WNW	12			10		CLR		28.79	29.98				
Jul 14,2024	6:00 am	90	68	49	94	WNW	15			10		CLR		28.79	29.98				
Jul 14,2024	5:55 am	90	68	49	94	WNW	14			10		CLR		28.79	29.98				
Jul 14,2024	5:51 am	90	68	49	94	WNW	15			10		FEW100 SCT150 BKN25(	1012.8	28.79	29.98				
Jul 14,2024	5:50 am	90	68	49	94	NW	15			10		FEW100		28.79	29.98				
Jul 14,2024	5:45 am	90	68	49	94	WNW	13			10		FEW100		28.79	29.98				
Jul 14,2024	5:40 am	90	68	49	94	WNW	15			10		FEW100		28.79	29.98				
Jul 14,2024	5:35 am	90	68	49	94	WNW	16	G	22	10		CLR		28.78	29.97				
Jul 14,2024	5:30 am	90	68	49	94	WNW	18			10		CLR		28.78	29.97				
Jul 14,2024	5:25 am	90	68	49	94	WNW	15			10		CLR		28.78	29.97				
Jul 14,2024	5:20 am	90	66	46	92	WNW	16			10		CLR		28.78	29.97				
Jul 14,2024	5:15 am	90	66	46	92	WNW	15			10		CLR		28.78	29.97				
Jul 14,2024	5:10 am	90	66	46	92	WNW	16			10		CLR		28.77	29.96				
Jul 14,2024	5:05 am	90	66	46	92	WNW	15			10		CLR		28.78	29.97				
Jul 14,2024	5:00 am	90	66	46	92	WNW	13			10		CLR		28.77	29.96				
Jul 14,2024	4:55 am	90	66	46	92	WNW	12			10		CLR		28.77	29.96				
Jul 14,2024	4:51 am	91	66	44	94	WNW	14			10		FEW100 FEW170 FEW25	1012.1	28.77	29.96			103	91
Jul 14,2024	4:50 am	91	66	44	94	WNW	14			10		FEW100		28.77	29.96				
Jul 14,2024	4:45 am	91	66	44	94	WNW	15			10		CLR		28.76	29.95				
Jul 14,2024	4:40 am	91	65	41	93	WNW	16			10		CLR		28.76	29.95				
Jul 14,2024	4:35 am	91	65	41	93	WNW	17			10		CLR		28.76	29.95				
Jul 14,2024	4:30 am	91	65	41	93	WNW	15			10		CLR		28.75	29.94				
Jul 14,2024	4:25 am	91	65	41	93	WNW	16			10		CLR		28.75	29.94				
Jul 14,2024	4:20 am	91	65	41	93	WNW	15			10		CLR		28.75	29.94				
Jul 14,2024	4:15 am	91	65	41	93	WNW	15			10		CLR		28.75	29.94				
Jul 14,2024	4:10 am	91	65	41	93	WNW	15			10		CLR		28.75	29.94				
Jul 14,2024	4:05 am	91	65	41	93	W	14			10		CLR		28.75	29.94				
Jul 14,2024	4:00 am	93	63	36	94	W	14			10		CLR		28.75	29.94				
Jul 14,2024	3:55 am	93	63	36	94	WNW	13			10		CLR		28.74	29.93				

Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	3:51 am	93	63	37	94	WNW	13			10		FEW170	1011.4	28.75	29.94				
Jul 14,2024	3:50 am	93	63	36	94	WNW	12			10				28.75	29.94				
Jul 14,2024	3:45 am	93	63	36	94	WNW	12			10				28.74	29.93				
Jul 14,2024	3:40 am	93	63	36	94	WNW	14			10		CLR		28.74	29.93				
Jul 14,2024	3:35 am	93	63	36	94	W	14			10		CLR		28.74	29.93				
Jul 14,2024	3:30 am	93	61	34	93	W	14			10		CLR		28.74	29.93				
Jul 14,2024	3:25 am	93	61	34	93	WSW	13			10		CLR		28.74	29.93				
Jul 14,2024	3:20 am	93	61	34	93	W	13			10		CLR		28.73	29.92				
Jul 14,2024	3:15 am	95	61	32	95	WSW	12			10		CLR		28.73	29.92				
Jul 14,2024	3:10 am	95	61	32	95	WSW	15			10		CLR		28.73	29.92				
Jul 14,2024	3:05 am	95	61	32	95	WSW	17			10		CLR		28.73	29.92				
Jul 14,2024	3:00 am	95	61	32	95	WSW	17	G	24	10		CLR		28.73	29.92				
Jul 14,2024	2:55 am	95	61	32	95	WSW	15	G	28	10		CLR		28.72	29.91				
Jul 14,2024	2:51 am	95	61	33	95	WSW	14	G	28	10		BKN170	1010.3	28.72	29.91				
Jul 14,2024	2:50 am	95	61	32	95	WSW	17			10				28.72	29.91				
Jul 14,2024	2:45 am	95	61	32	95	W	16			10		CLR		28.71	29.9				
Jul 14,2024	2:40 am	97	61	31	97	W	15			10		CLR		28.71	29.9				
Jul 14,2024	2:35 am	97	61	31	97	W	20			10		CLR		28.71	29.9				
Jul 14,2024	2:30 am	97	61	31	97	W	20			10		CLR		28.71	29.9				
Jul 14,2024	2:25 am	97	61	31	97	W	18			10		CLR		28.7	29.89				
Jul 14,2024	2:20 am	97	61	31	97	W	18			10		CLR		28.7	29.89				
Jul 14,2024	2:15 am	97	59	29	97	W	18			10		CLR		28.7	29.89				
Jul 14,2024	2:10 am	99	61	29	99	W	16			10		CLR		28.7	29.89				
Jul 14,2024	2:05 am	99	61	29	99	W	17			10		CLR		28.7	29.89				
Jul 14,2024	2:00 am	99	61	29	99	W	17			10		CLR		28.7	29.89				
Jul 14,2024	1:55 am	99	61	29	99	W	15			10		CLR		28.7	29.89				
Jul 14,2024	1:51 am	98	60	29	98	W	17	G	28	10		SCT170	1009.6	28.7	29.89				
Jul 14,2024	1:50 am	99	61	29	99	W	21			10				28.7	29.89				
Jul 14,2024	1:45 am	99	61	29	99	W	17			10				28.7	29.89				
Jul 14,2024	1:40 am	99	61	29	99	WNW	17			10				28.7	29.89				
Jul 14,2024	1:35 am	99	61	29	99	WNW	16			10				28.7	29.89				
Jul 14,2024	1:30 am	99	61	29	99	W	15			10		CLR		28.7	29.89				
Jul 14,2024	1:25 am	99	61	29	99	W	13			10		CLR		28.7	29.89				
Jul 14,2024	1:20 am	99	61	29	99	W	16			10		CLR		28.7	29.89				
Jul 14,2024	1:15 am	99	61	29	99	W	17			10		CLR		28.7	29.89				
Jul 14,2024	1:10 am	99	61	29	99	W	13	G	18	10		CLR		28.7	29.89				
Jul 14,2024	1:05 am	99	61	29	99	W	16			10		CLR		28.69	29.88				
Jul 14,2024	1:00 am	99	61	29	99	W	13			10		CLR		28.69	29.88				
Jul 14,2024	12:55 am	99	61	29	99	W	15	G	24	10		CLR		28.69	29.88				
Jul 14,2024	12:51 am	99	61	29	100	W	15			10		BKN170	1009.4	28.69	29.88				
Jul 14,2024	12:50 am	99	61	29	99	W	14			10				28.69	29.88				
Jul 14,2024	12:45 am	99	61	29	99	W	17			10				28.69	29.88				
Jul 14,2024	12:40 am	100	63	29	103	W	15			10				28.69	29.88				
Jul 14,2024	12:35 am	100	63	29	103	W	12			10		CLR		28.69	29.88				
Jul 14,2024	12:30 am	100	63	29	103	W	16			10		CLR		28.69	29.88				

Date/Time (L)		Temp. (°F)	Dew (°F)	Relative (%)	Heat (°F)	Wind	Wind (mph)	Wind Gust Recorded?	Wind Gust (mph)	Visibility (miles)	Weather	Clouds (x100 ft)	Sea Level (mb)	Station (in Hg)	Altimeter (in Hg)	6 Hr (°F)	6 Hr (°F)	24 Hr (°F)	24 Hr (°F)
Jul 14,2024	12:25 am	100	63	29	103	W	16	G	22	10		CLR		28.69	29.88				
Jul 14,2024	12:20 am	100	63	29	103	W	16			10		CLR		28.69	29.88				
Jul 14,2024	12:15 am	100	63	29	103	W	18			10		CLR		28.69	29.88				
Jul 14,2024	12:10 am	100	63	29	103	W	15	G	21	10		CLR		28.69	29.88				
Jul 14,2024	12:05 am	100	63	29	103	W	17			10		CLR		28.69	29.88				
Jul 14,2024	12:00 am	100	63	29	103	W	20			10		CLR		28.69	29.88				

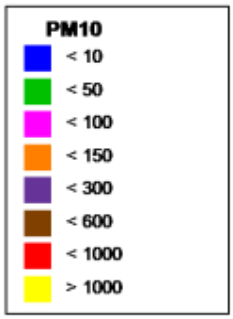


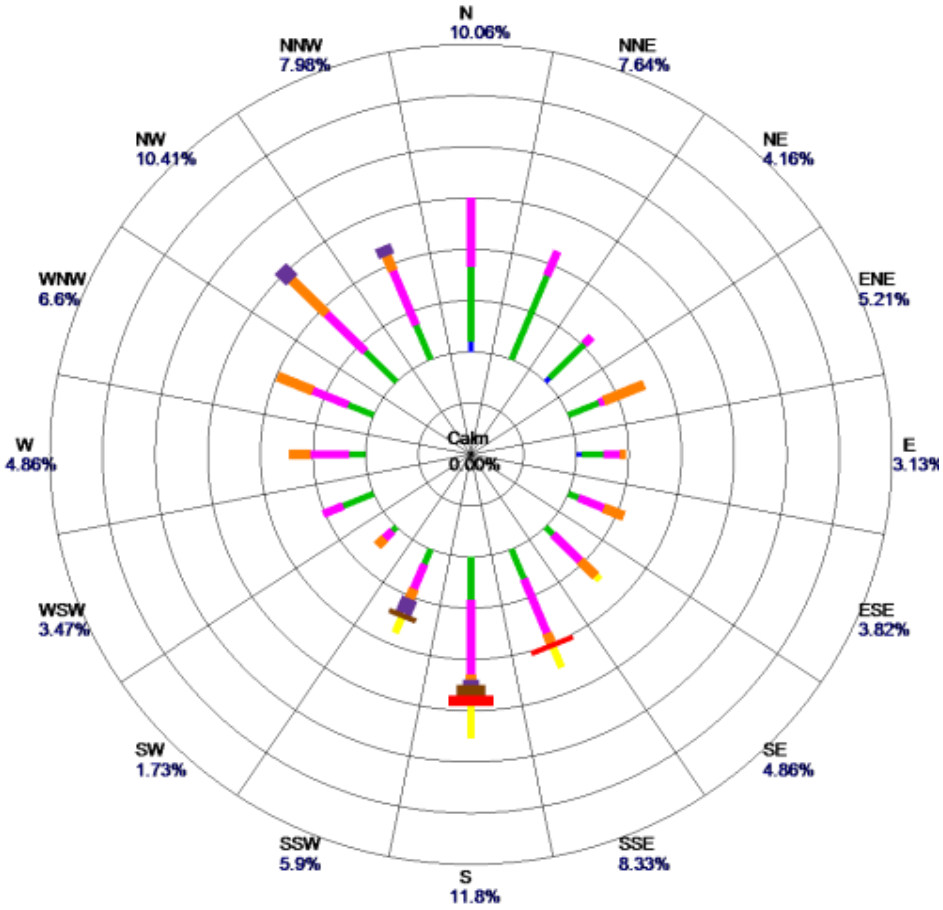
NOAA Phoenix Sky Harbor International Airport Station, Time Series Viewer - Weather Conditions for 07-14-2024

Appendix C: Maricopa County Air Quality Department Planning & Analysis Division – Air Quality Monitor Data 5-Minute and 1-Hour PM_{10} Wind Roses

5-Minute PM10 Wind Roses for MCAQD Air Quality Monitors

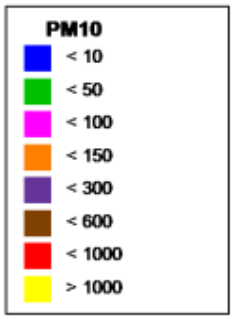
Site: Dysart
Parameter: PM10
Units: UG/M3
Direction: FROM Origin

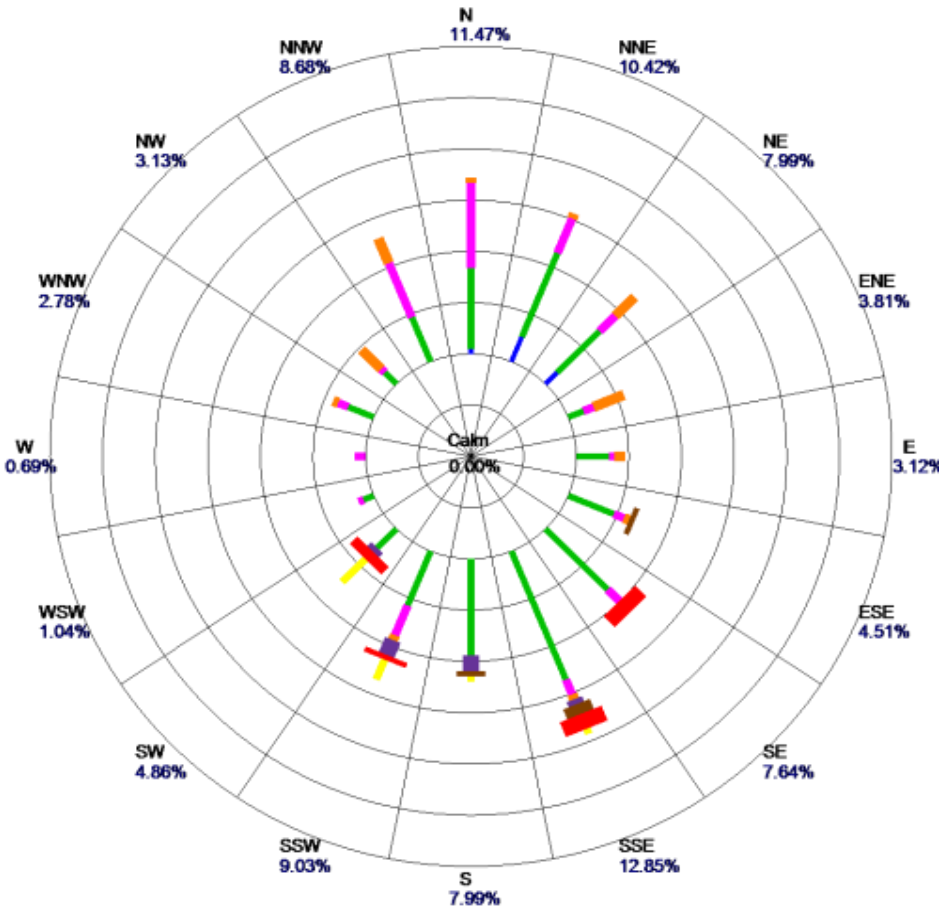




Period: 2022-09-02 00:00 - 2022-09-02 23:59

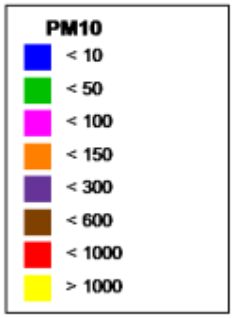
Site: Zuni Hills
Parameter: PM10
Units: UG/M3
Direction: FROM Origin

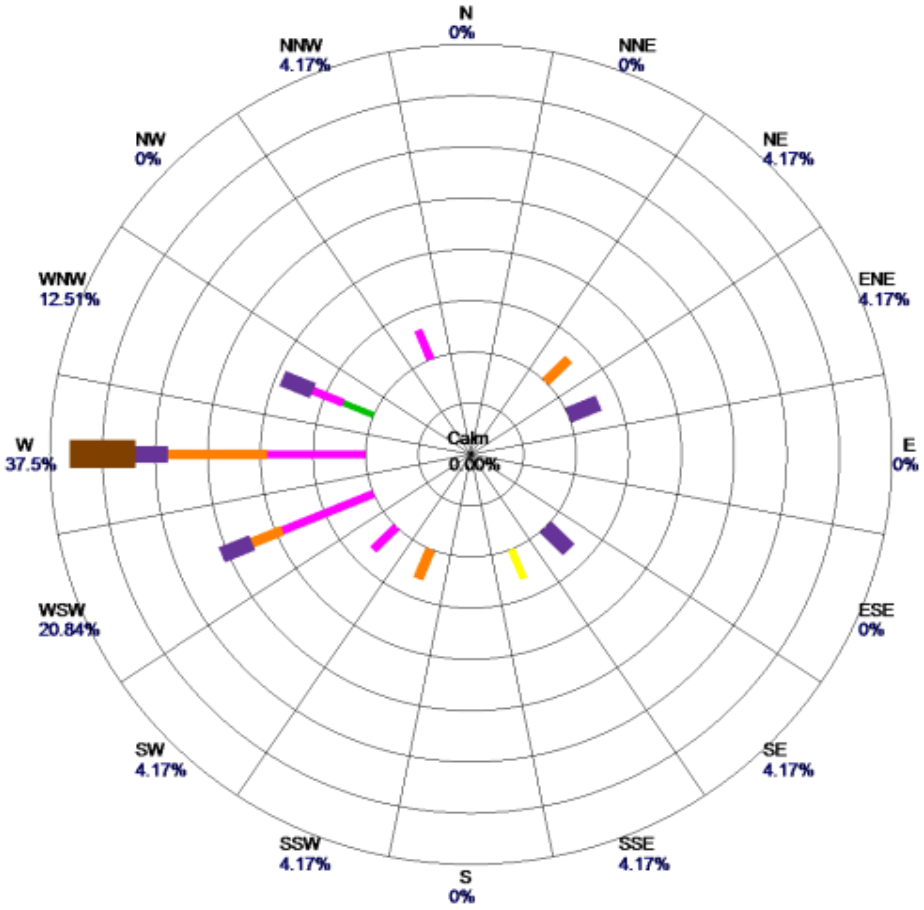




Period: 2022-09-02 00:00 - 2022-09-02 23:59

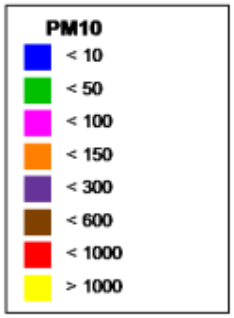
Site: West 43rd Ave
Parameter: PM10
Units: UG/M3
Direction: FROM Origin

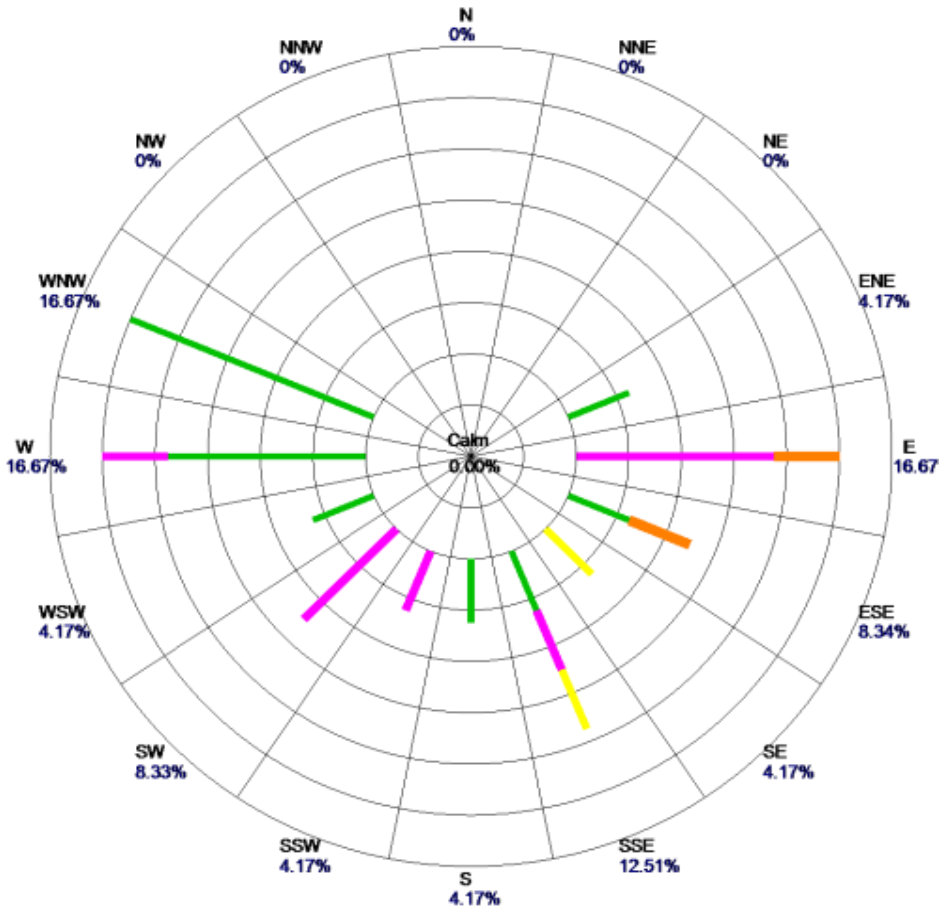




Period: 2023-07-21 00:00 - 2023-07-21 23:59

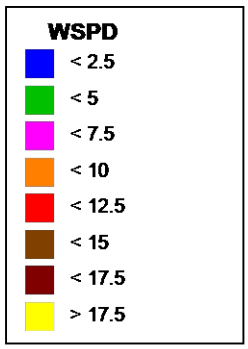
Site: Higley
Parameter: PM10
Units: UG/M3
Direction: FROM Origin

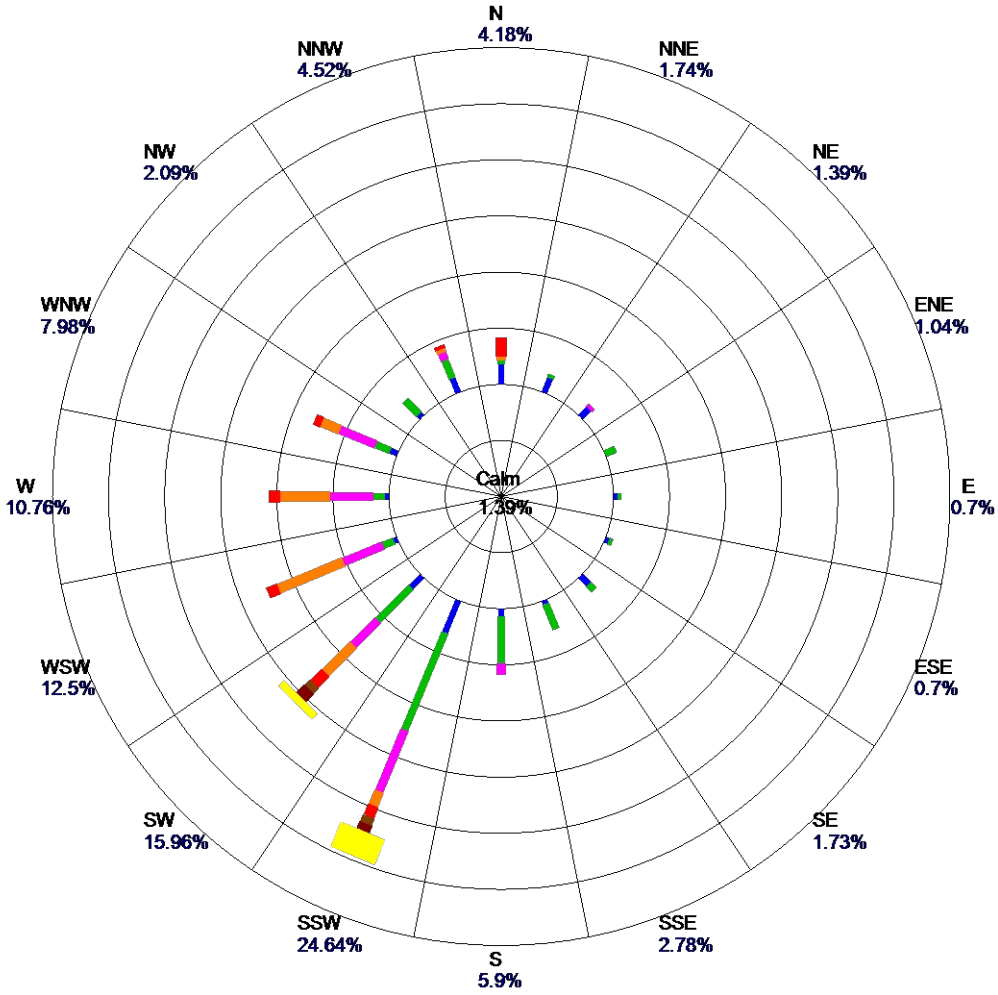




Period: 2023-07-26 00:00 - 2023-07-26 23:59

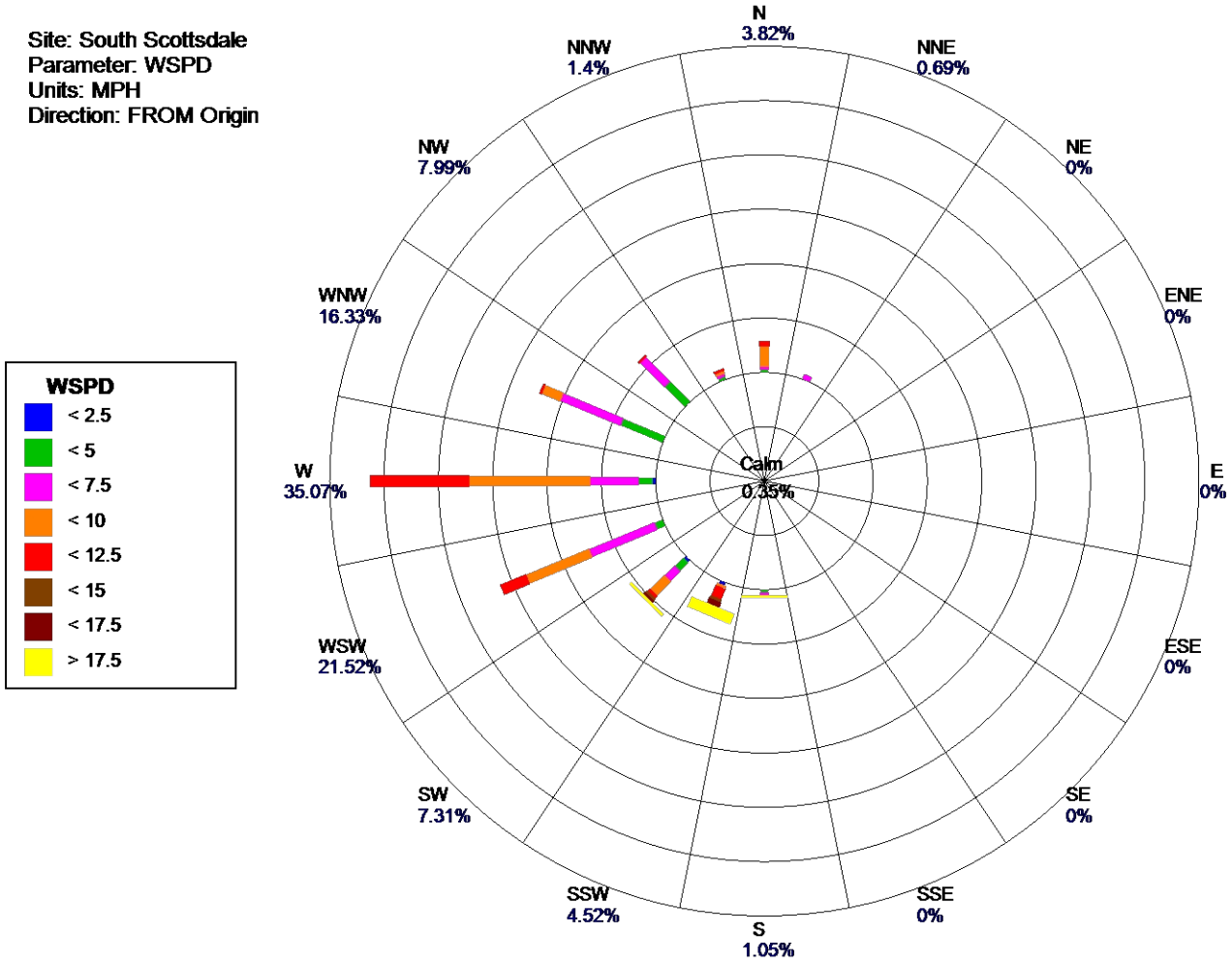
Site: Higley
Parameter: WSPD
Units: MPH
Direction: FROM Origin





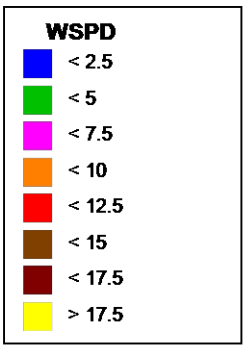
Period: 2024-07-14 00:00 - 2024-07-14 23:59

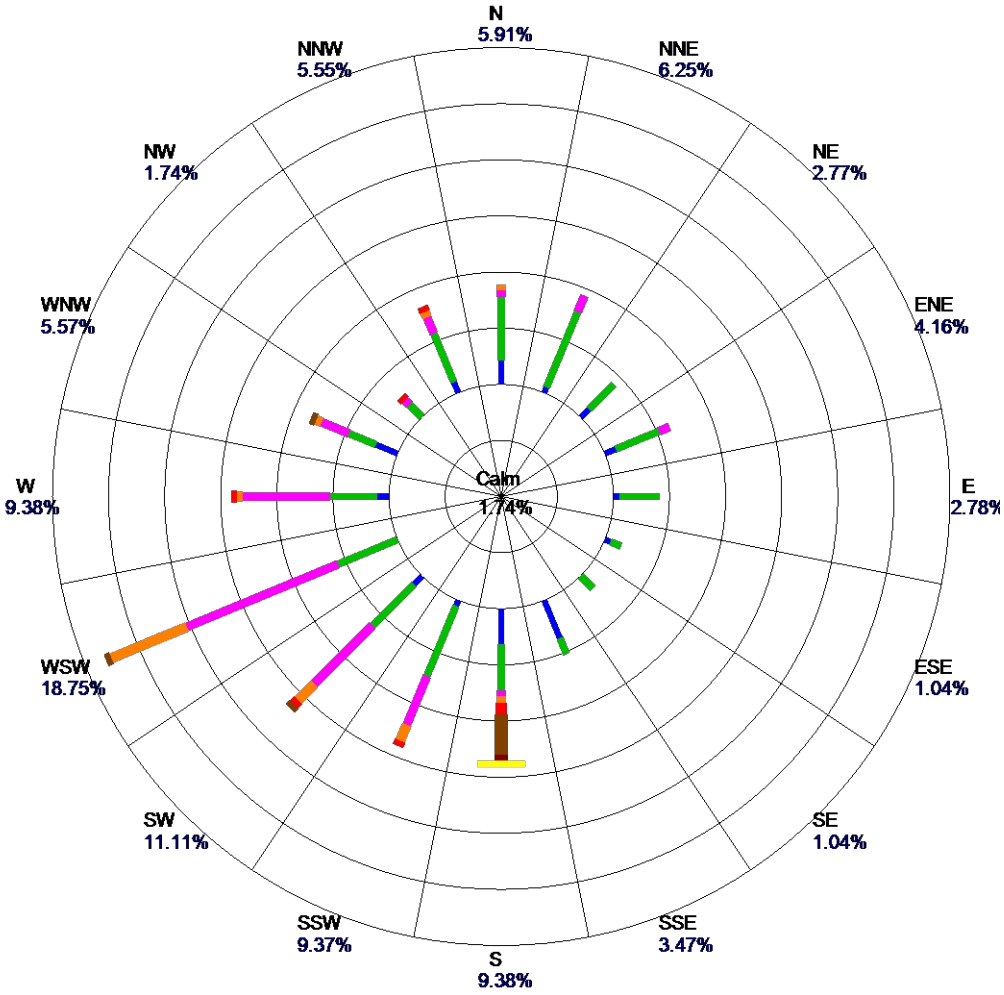
Site: South Scottsdale
Parameter: WSPD
Units: MPH
Direction: FROM Origin



Period: 2024-07-14 00:00 - 2024-07-14 23:59

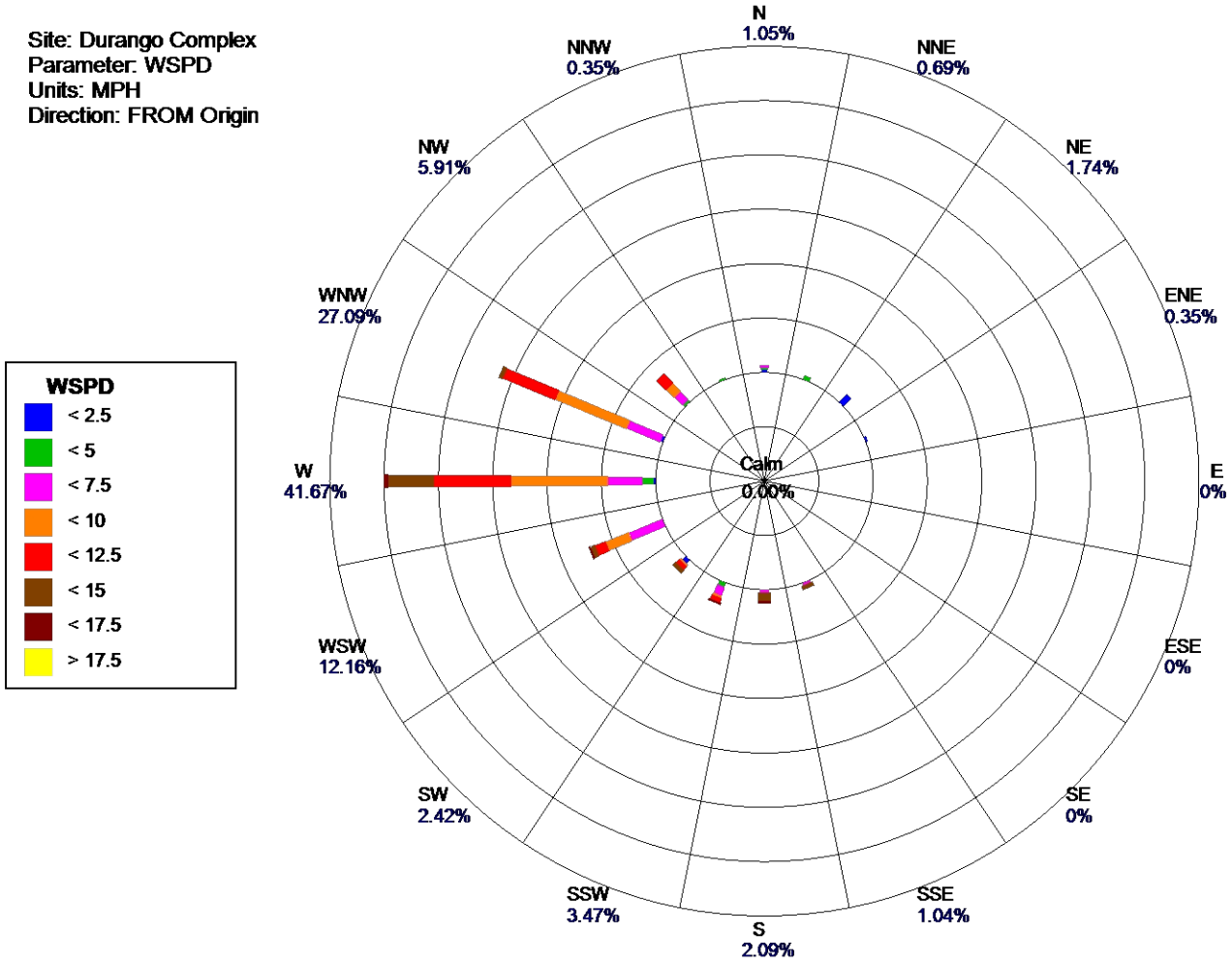
Site: West Chandler
Parameter: WSPD
Units: MPH
Direction: FROM Origin





Period: 2024-07-14 00:00 - 2024-07-14 23:59

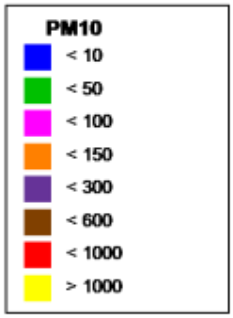
Site: Durango Complex
Parameter: WSPD
Units: MPH
Direction: FROM Origin

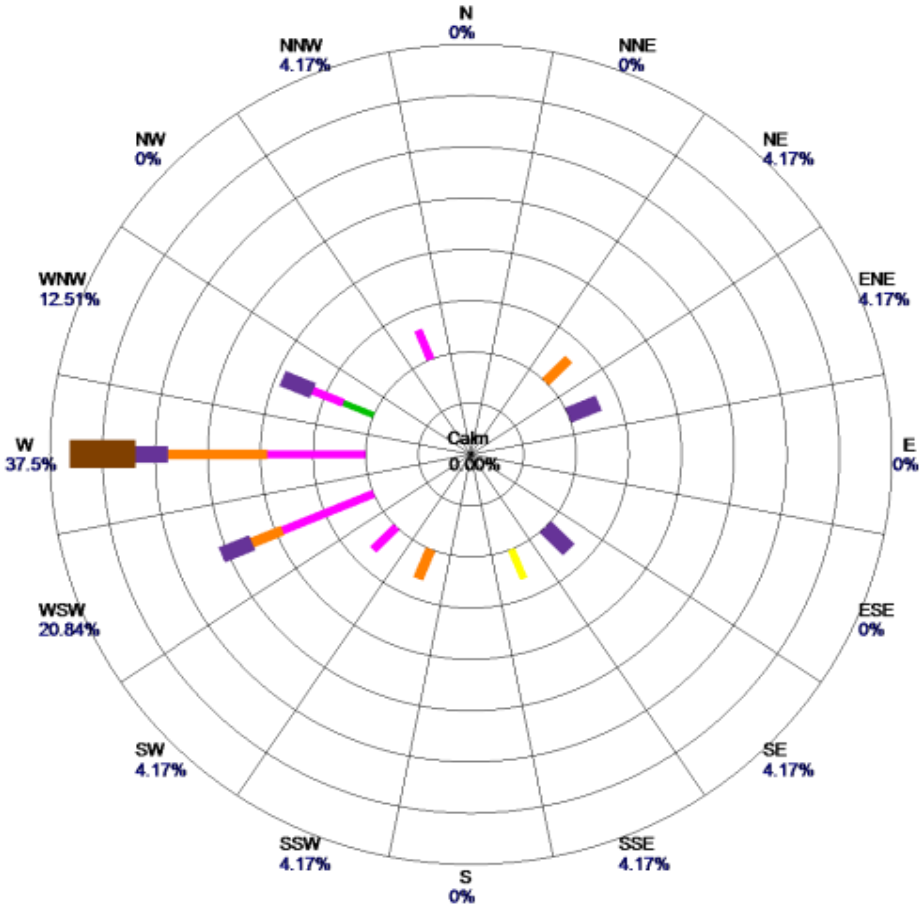


Period: 2024-07-14 00:00 - 2024-07-14 23:59

1-Hour PM10 Wind Roses for MCAQD Air Quality Monitors

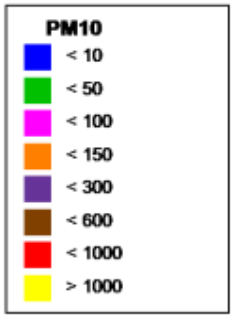
Site: West 43rd Ave
Parameter: PM10
Units: UG/M3
Direction: FROM Origin

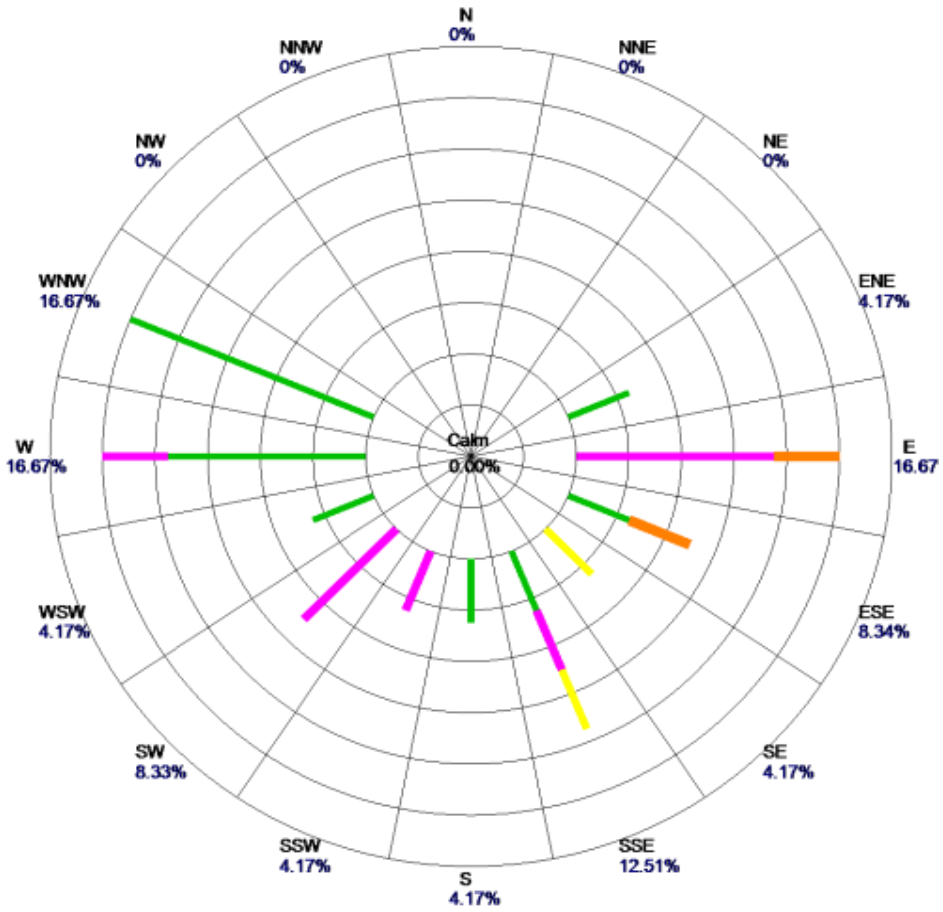




Period: 2023-07-21 00:00 - 2023-07-21 23:59

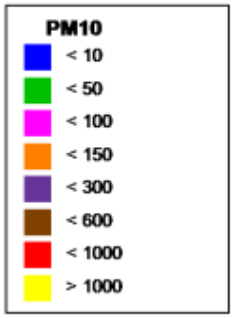
Site: Higley
Parameter: PM10
Units: UG/M3
Direction: FROM Origin

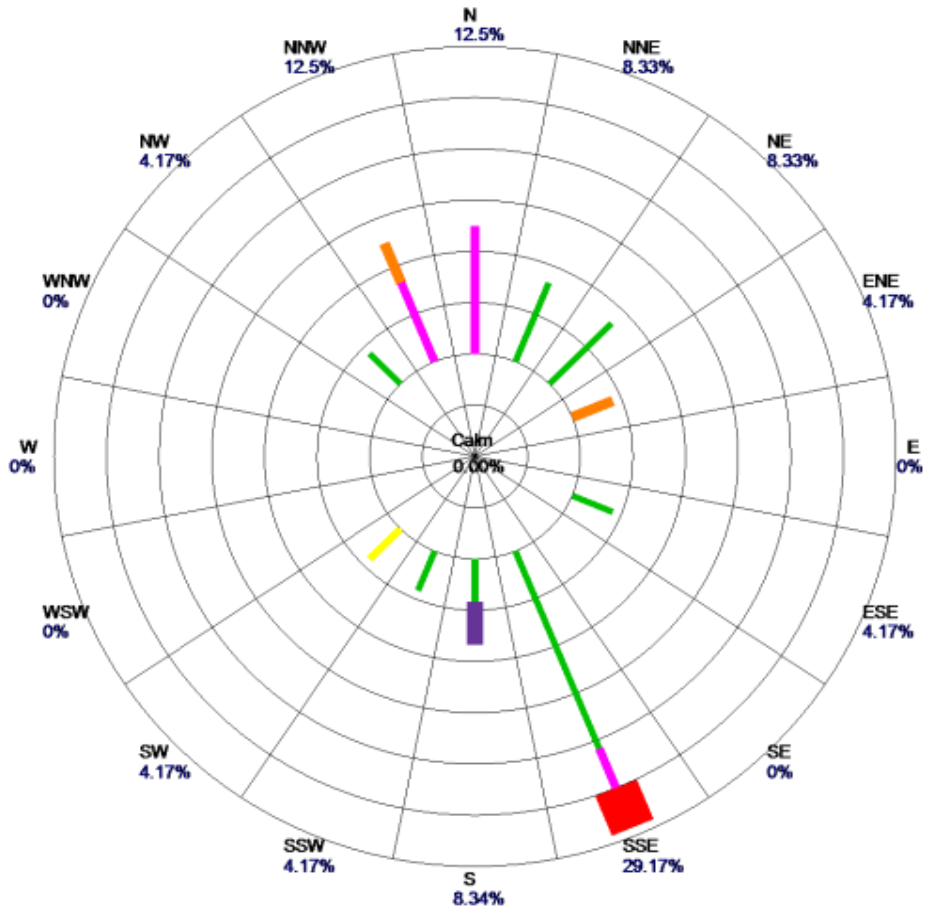




Period: 2023-07-26 00:00 - 2023-07-26 23:59

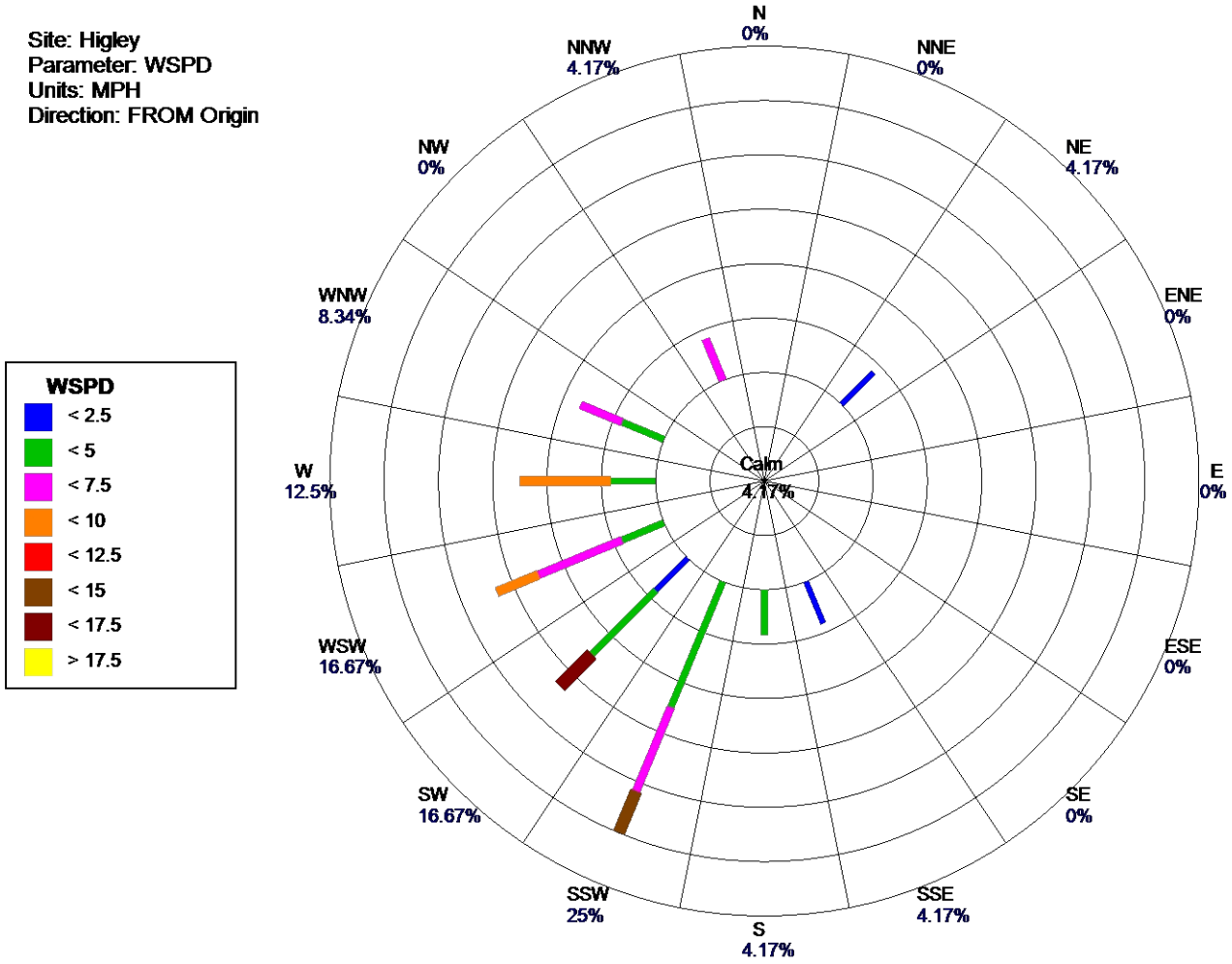
Site: Zuni Hills
Parameter: PM10
Units: UG/M3
Direction: FROM Origin





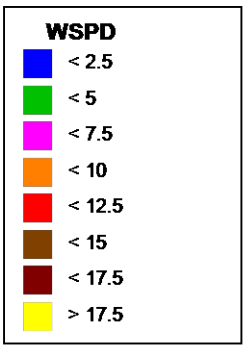
Period: 2022-09-02 00:00 - 2022-09-02 23:59

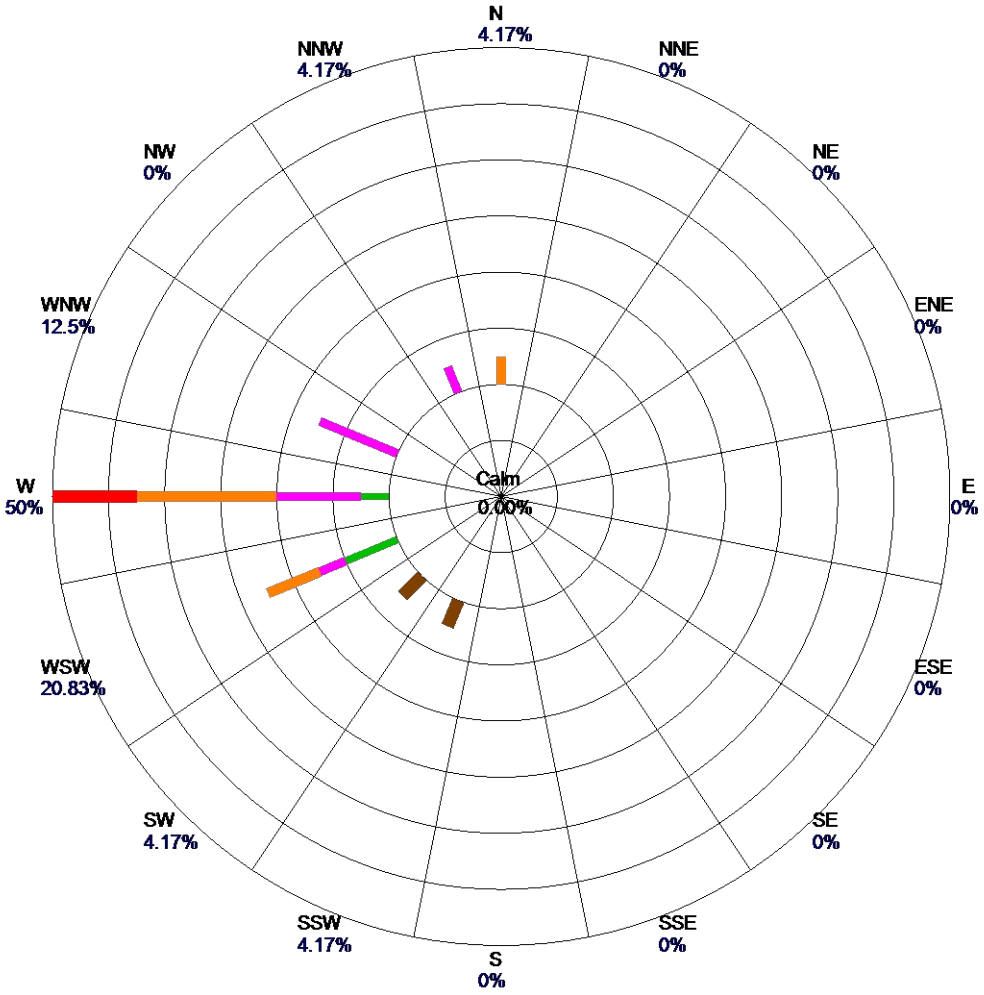
Site: Higley
Parameter: WSPD
Units: MPH
Direction: FROM Origin



Period: 2024-07-14 00:00 - 2024-07-14 23:59

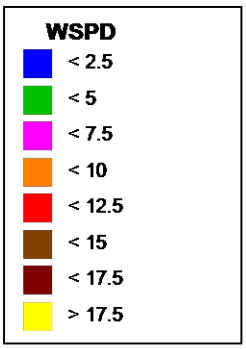
Site: South Scottsdale
Parameter: WSPD
Units: MPH
Direction: FROM Origin

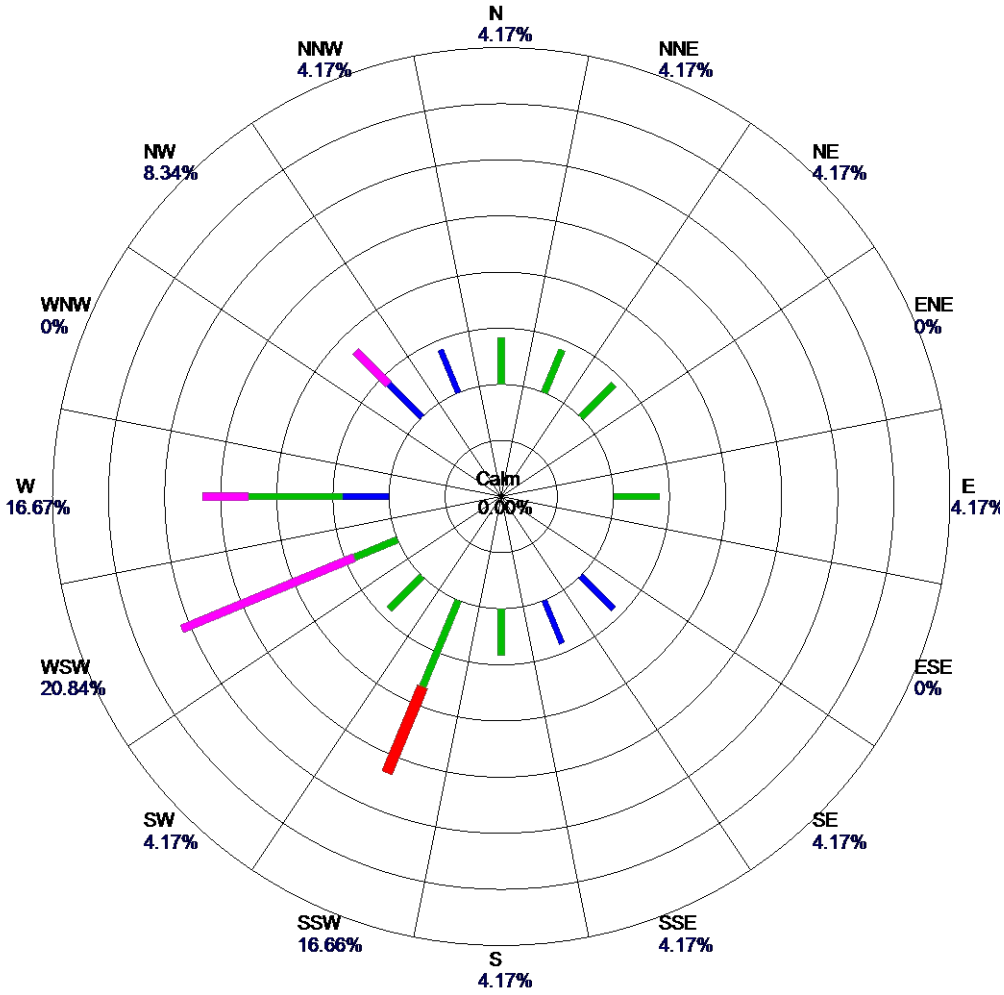




Period: 2024-07-14 00:00 - 2024-07-14 23:59

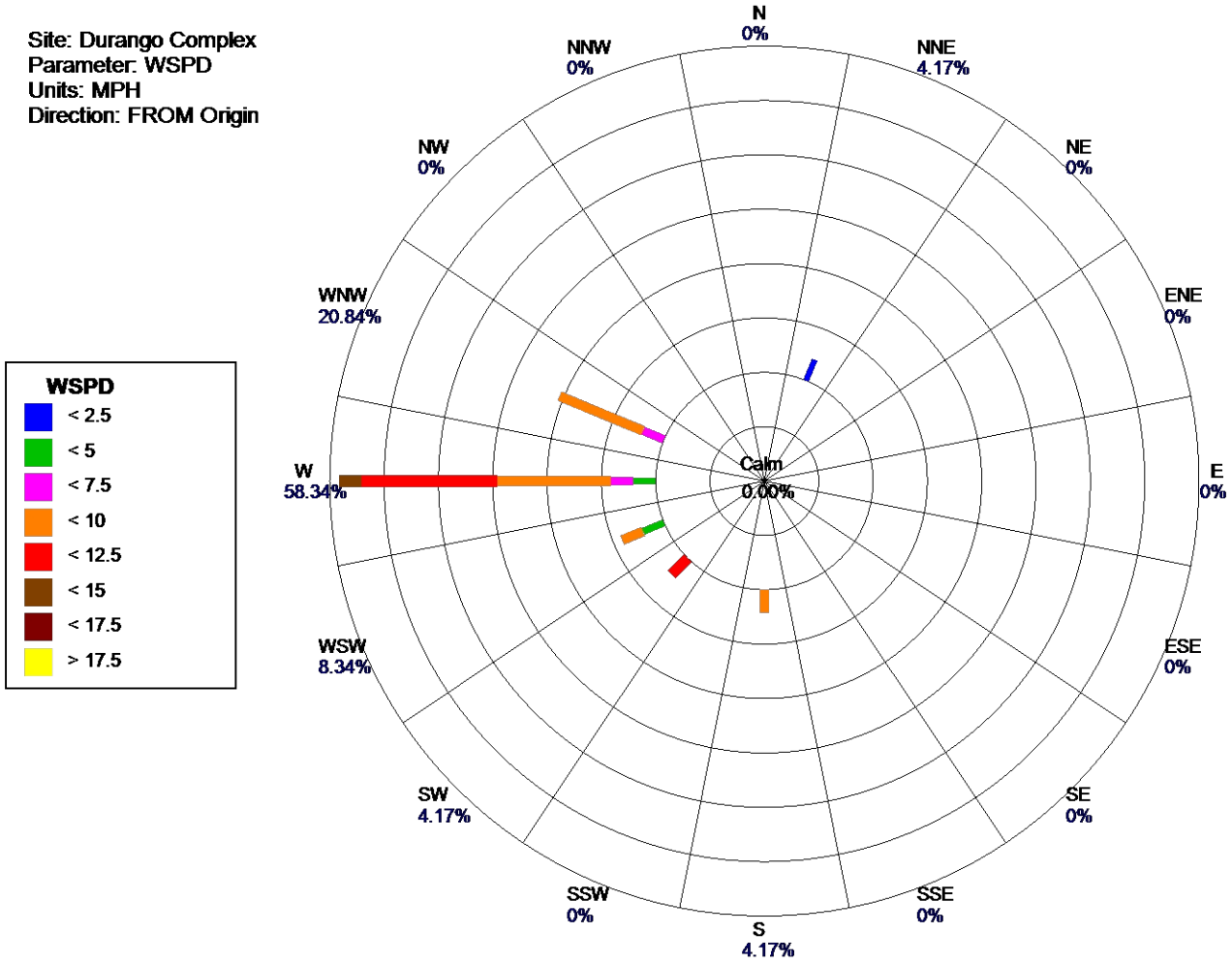
Site: West Chandler
Parameter: WSPD
Units: MPH
Direction: FROM Origin





Period: 2024-07-14 00:00 - 2024-07-14 23:59

Site: Durango Complex
Parameter: WSPD
Units: MPH
Direction: FROM Origin



Period: 2024-07-14 00:00 - 2024-07-14 23:59

ARIZONA
DEPARTMENT OF
TRANSPORTATION