

WaveEngineering

Acoustics, Noise & Vibration

December 11, 2023

Ms. Samantha Kepley, PE
Water Supply Engineer
Brown and Caldwell
1527 Cole Blvd. Suite 300
Lakewood, CO 80401

Re: South Adams IX Funding Support – Ambient Sound and Vibration Monitoring Report
Wave #3086

Dear Samantha,

We measured baseline ambient sound and vibration levels at two locations near the existing water treatment plant located at 7400 Quebec Street, Commerce City, Colorado. The intent of these measurements was to determine the ambient sound and vibration levels for approximately seven days.

We set up two sound meters and two vibration monitors on the afternoon of November 29, 2023, and picked up the equipment on the afternoon of December 6, 2023. We are presenting the sound level measurements first in this report and then the vibration level measurements second.

Acoustical Terminology

The following terminology is used in this report.

A-weighted Sound Level (measured in dBA): sound pressure levels determined by using the common A-weighting scale. The A-weighting scale is designed to approximate the response of the human ear by altering (weighting) the lower and higher frequencies. It is commonly used for the measurement of environmental noise and industrial noise. The effect of low frequency noise is reduced when using the A-weighting scale.

Ambient Sound: *all* sounds that exist in a particular area, regardless of source. Ambient sound Includes the sound to be measured.

Equivalent Sound Level (LEQ): The sound level which, in a stated period of time, would contain the same acoustical energy as the time varying sound during the same period. The actual instantaneous noise levels typically fluctuate above and below the measured LEQ during the

■
1100 W. Littleton Blvd. #420
Littleton, CO 80120
720-446-WAVE (9283)
www.WaveEngineering.US

measurement period. It is essentially the average sound level. The A-weighted L_{EQ} is a common descriptor for measuring environmental noise.

Percentile Sound Level (L_{NN}): the sound level that was exceeded NN% of the time over a given time period. For example, the L_{90} is the decibel level that is exceeded 90% of the time. The L_{90} is often used as a measure of the “residual” sound level, or the relatively steady sound level excluding short term events such as an occasional car passing or aircraft over flight.

Sound Level Measurements

Sound levels were measured at two locations on the site from Wednesday, November 29, through Wednesday, December 6, 2023. The measurements spanned 7 days. The test equipment, procedures, locations, weather conditions, and results are described below.

Measurement Procedures and Locations

Two sound meters were set up to continuously record a series of 15-minute duration measurements. The overall A-weighted equivalent sound level (average) was measured as well as the minimum, the maximum, and a series of statistical sound levels. Octave band and one-third octave band data are available if needed. The two meters were placed on the western side of the water treatment plant site, one near the existing plant and one near the existing property line. The approximate locations are shown in Figure 1 with a red X. This figure also shows the location of the vibration monitors. See below for more information on the vibration monitors.



Figure 1: Sound Level and Vibration Monitor Measurement Locations

The intent was to capture intermittent activity such as weekly generator testing and different traffic patterns (i.e., weekday vs. weekend) at these locations. This data can then be used to help judge the impact of future expansion.

Test Equipment

The following test equipment was used.

Meter M6 at Location 1

Larson Davis Model 831C sound level meter S/N 10951, Type 1 per ANSI S1.4
PCB preamp PRM831, S/N 63658
PCB ½" microphone Model 377B02, S/N 315212
Sierra Wireless Airlink RV50 cellular modem

Meter M5 at Location 2

Larson Davis Model 831C sound level meter S/N 10640, Type 1 per ANSI S1.4
PCB preamp PRM831, S/N 058373
PCB ½" microphone Model 377B02, S/N 310349
Sierra Wireless Airlink RV50 cellular modem

System calibration was checked in the field before and after the measurements with a Larson Davis CAL200 (S/N 17180) acoustic calibrator. Laboratory calibration certificates for the equipment are available upon request.

Windscreens and bird spikes were used on all microphones.

Weather Conditions

Weather and meteorological conditions can influence the transmission of sound outdoors and have a significant effect when sound travels distances greater than about 300 feet. Wind speed and direction, and the presence of a temperature lapse or inversion, have the most influence on sound transmission between distant points. Wind and rain can also have a significant effect on measured sound levels due to the sound from rustling leaves, grass, rainfall, etc.

Weather conditions were measured and logged with a Davis Instruments Vantage Vue Model 6250 Weather Station placed near Location 1. The sensors were mounted approximately 8' above the ground. Figure 2 shows the wind speed and wind direction data. Figure 3 shows the outdoor temperature and humidity data. There was no significant precipitation during the test period. We are only providing graphical data for Thursday, November 30th, through Wednesday, December 6th. Full tabulated weather data will be attached in Appendix B. Note that the time on the charts below is off by one hour as the charts do not account for the recent change due to daylight savings time, but the tabulated data is correct.

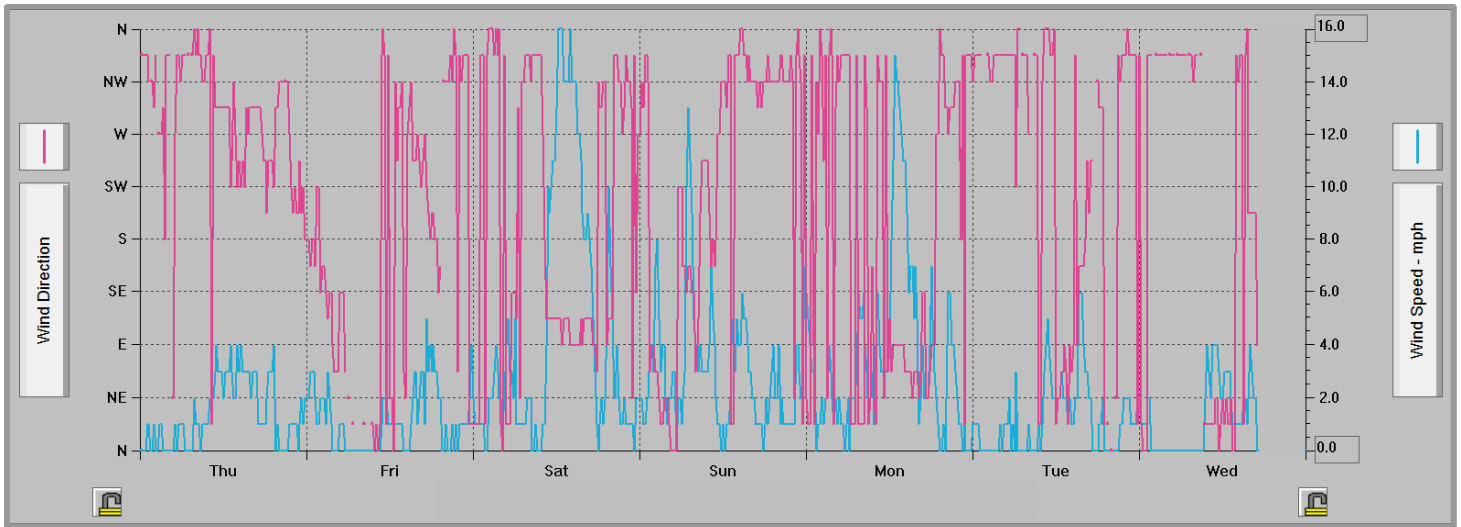


Figure 2: Wind speed (blue) and wind direction (pink) data

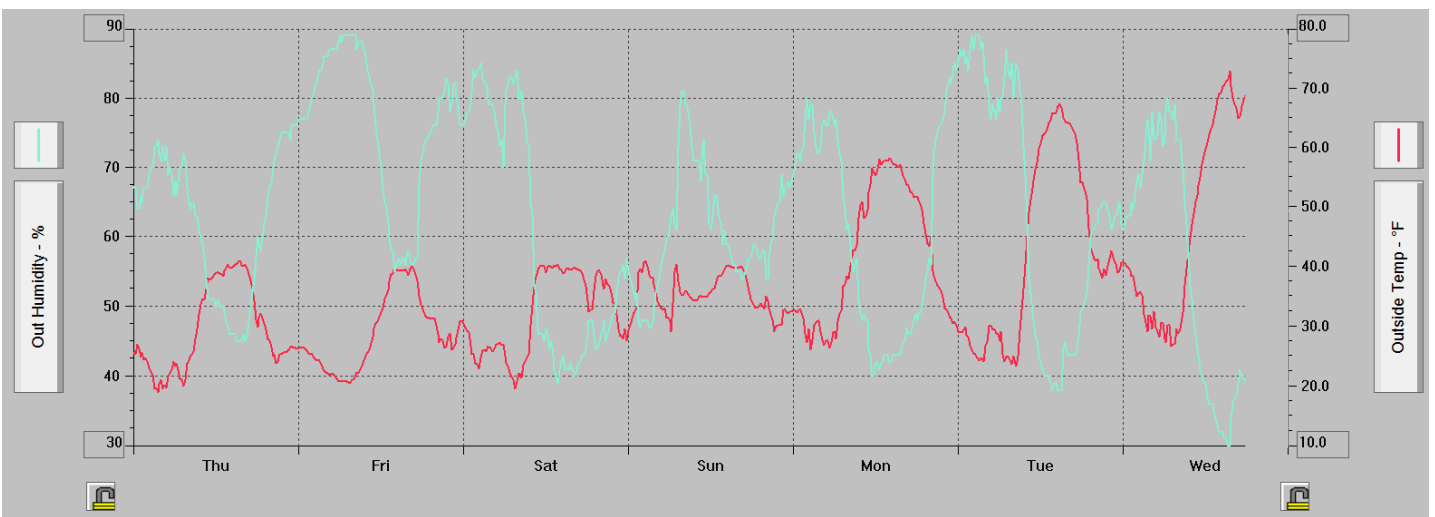


Figure 3: Temperature (red) and Humidity (teal) data

Sound levels that are measured when the wind is greater than 8 to 10 mph are more likely affected by the noise of wind blowing leaves, grass, and wind across the microphone. The wind speed was above 10 mph for certain periods. We will note these times with the sound data to let you know that the data may have been affected by the wind. Again, there was no significant rainfall during our measurements.

Applicable Sound Level Codes and Statutes

Commerce City

Based on the Commerce City GIS system, it appears that 7400 Quebec falls within the Commerce City city limits. Therefore, it is subject to the noise requirements in the Commerce City Municipal Code. The requirements are stated in Sec. 6-2011 of the Municipal Code.

This code is subjective and does not contain quantitative limits.

State of Colorado Noise Level Limits

The Colorado Noise Statute, Title 25 Article 12, includes maximum noise level limits.

CRS Section 25-12-103 sets the maximum permissible noise levels.

25-12-103. Maximum permissible noise levels.

(1) Every activity to which this article is applicable shall be conducted in a manner so that any noise produced is not objectionable due to intermittence, beat frequency, or shrillness. Sound levels of noise radiating from a property line at a distance of twenty-five feet or more therefrom in excess of the db(A) established for the following time periods and zones shall constitute prima facie evidence that such noise is a public nuisance:

<i>Zone</i>	<i>7:00 a.m. to next 7:00 p.m.</i>	<i>7:00 p.m. to next 7:00 a.m.</i>
<i>Residential</i>	<i>55 db(A)</i>	<i>50 db(A)</i>
<i>Commercial</i>	<i>60 db(A)</i>	<i>55 db(A)</i>
<i>Light industrial</i>	<i>70 db(A)</i>	<i>65 db(A)</i>
<i>Industrial</i>	<i>80 db(A)</i>	<i>75 db(A)</i>

(2) In the hours between 7:00 a.m. and the next 7:00 p.m., the noise levels permitted in subsection (1) of this section may be increased by ten db(A) for a period of not to exceed fifteen minutes in any one-hour period.

The State of Colorado statute states that the maximum permissible noise levels are enforced 25' beyond the radiating property's boundary. The treatment plant would likely be considered as Light Industrial use by the state. The state Light Industrial limits are 70 dBA during the day and 65 dBA at night. If the statute were to be enforced at the boundary, the steady treatment plant noise level, 25 feet from the boundary, must be no greater than 65 dBA (nighttime limit).

Measurement Results

Sound levels were measured at two locations over a span of seven days. We are providing the measured data in Figure 4 and Figure 5 below. The sound sources during this time typically consisted of vehicular traffic noise, aircraft noise (likely due to the nearby airport), and typical

noise from nature, i.e. birds, insects, etc. Noise from mechanical equipment, generators, fork lifts, etc., serving the water treatment plant also affected the sound levels, particularly at Location 1. Note that the sound level meter cannot discriminate between sound generated by the water treatment plant and other noise sources, such as aircraft or traffic noise.

Times when the wind speed was consistently over 10 mph are marked on the figures below. We also marked the possible source of some of the loudest noises that we measured. We were not present during the testing but tried to determine the noise source based on audio recordings taken during the measurement. In the figures, when we mention that the noise source was likely due to a loud truck, it appeared that the truck was located on the surrounding streets rather than the treatment plant.

Our understanding is that generator exercising occurs on the site on Wednesday mornings, but I do not know what time they turn on.

In the figures, each data point represents a 15-minute measurement. The figures show both the 15 minute LA_{EQ} data as well as the LAS₉₀ data.

Much of the water treatment plant noise is from mechanical equipment and is fairly steady. The LAS₉₀ data is the best indicator of steady noise since the LA_{EQ} levels are influenced more by aircraft, loud vehicles passing by, etc.



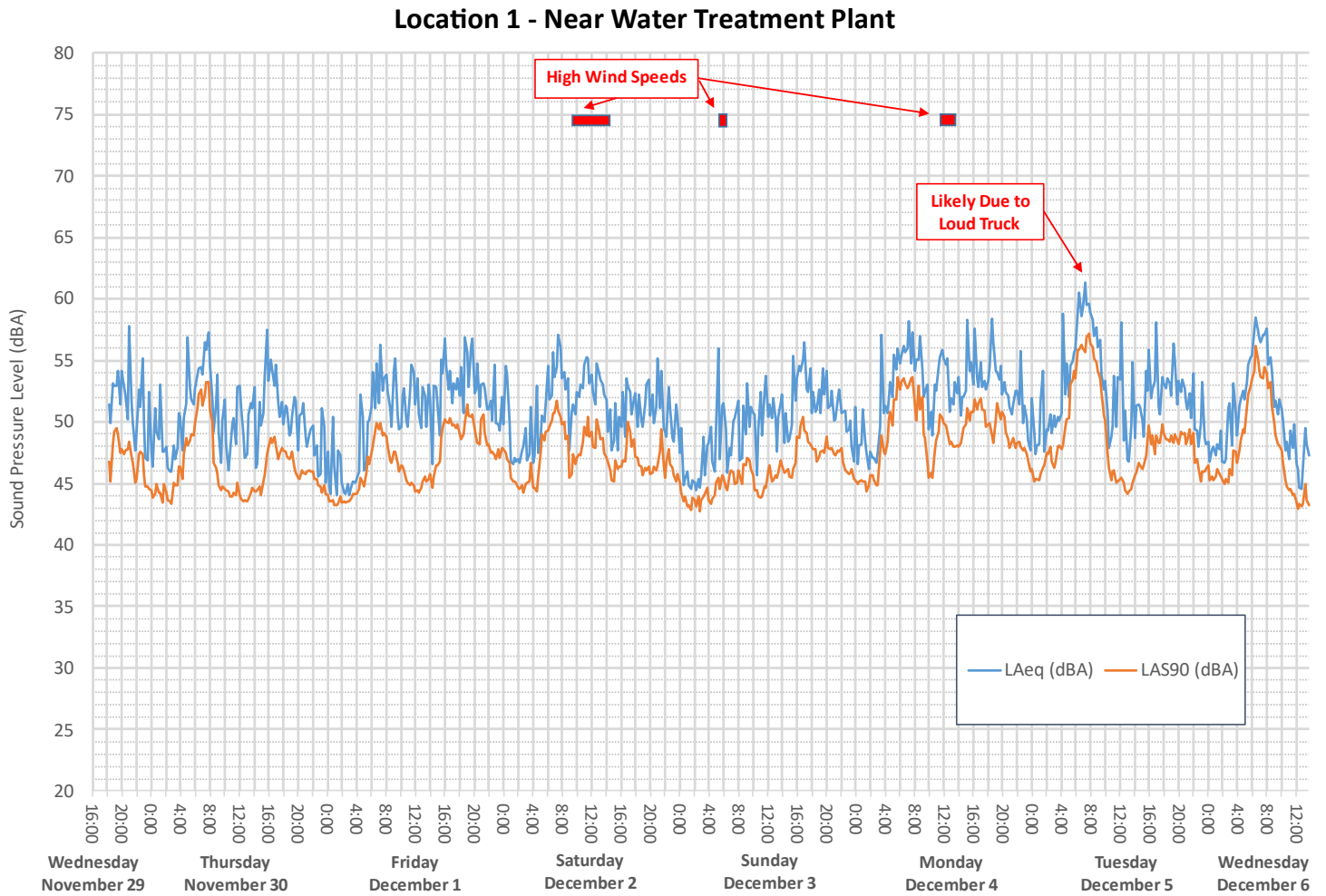


Figure 4: Sound Levels at Measurement Location 1

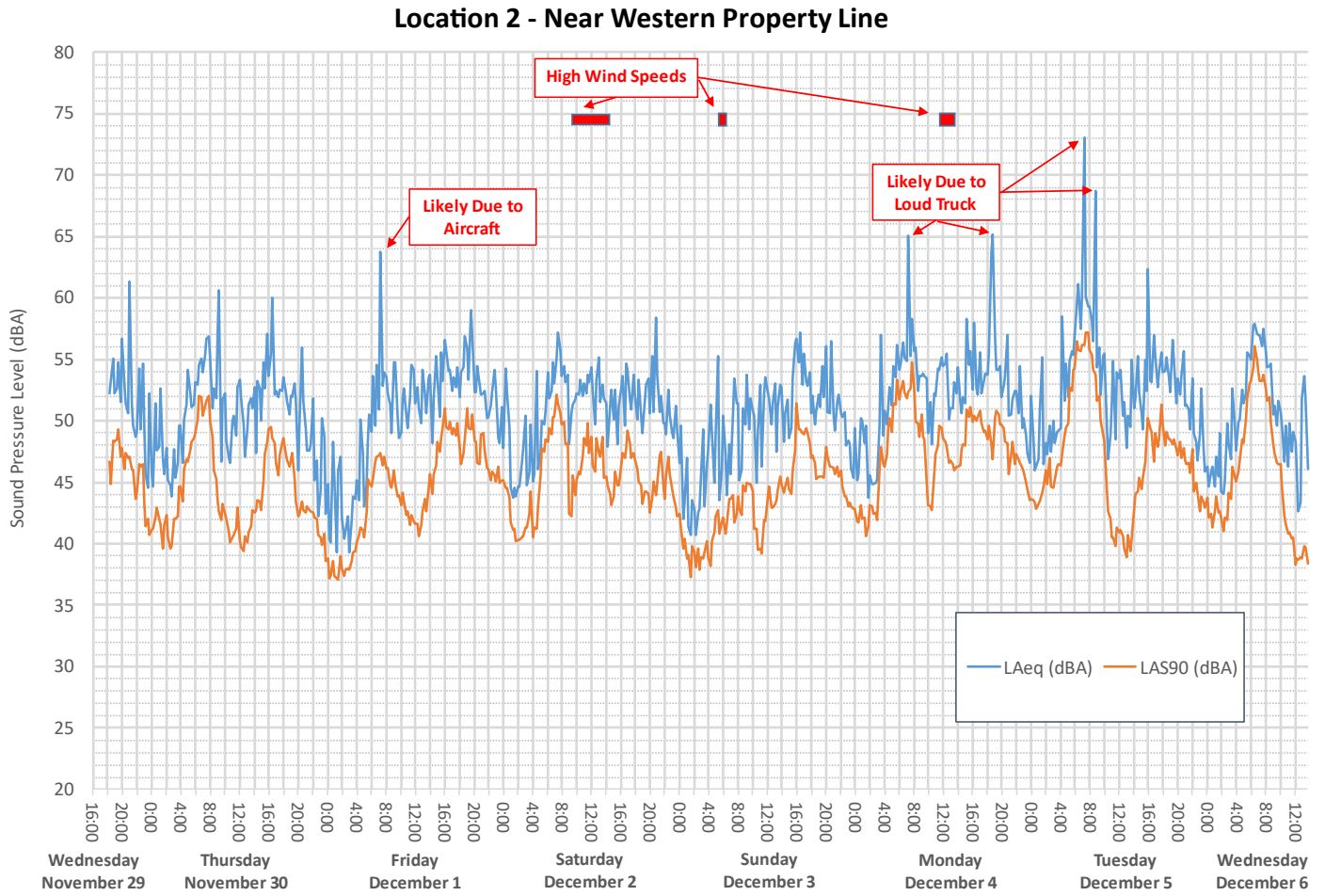


Figure 5: Sound Levels at Measurement Location 2

Vibration Measurements

Vibration levels were measured at two locations from Wednesday, November 29, through Wednesday, December 6, 2023. The measurements spanned 7 days. The test equipment, procedures, locations, and results are described below.

Test Equipment

Vibration levels were monitored with two Sigicom C22 monitors. These monitors have a tri-axial geophone sensor that simultaneously measures the velocity in the vertical, longitudinal, and transverse directions. The serial numbers for the monitors are listed on the attached weekly vibration reports. Laboratory calibration certificates for the equipment are available upon request.

Procedures and Measurement Locations

The monitors were mounted in the dirt with ground spikes in order to couple the sensor to the ground as much as possible. Sandbags were also placed on the monitors. Photo 1 shows Monitor M5 installed in the ground at Location 1 with the sandbag on top.



Photo 1: Installed Vibration Monitor

The monitors were installed next to the sound level meters. Vibration Monitor M5 (SN 107193) was installed at Location 1 and Monitor M6 (SN 107197) was installed at Location 2.

Please see Figure 1, in the sound measurement section above, for more information on the location of the monitors.

Vibration Criteria (for reference)

There are no applicable state or local codes for vibration limits. In the United States, construction vibration is often measured and compared to the US Bureau of Mines (USBM) RI 8507 criteria for damage from vibration. These criteria are based on extensive research on damage to structures from vibration, particularly from blasting from mining, although it is commonly applied to construction vibration as well. The allowable vibration level varies with frequency and is shown in Figure 6 below. Vibration levels below this line are unlikely to cause building damage. Vibration levels above this line do not guarantee damage to buildings, but it is possible. Occasional short-term vibration levels at or above this line have a small chance of causing cosmetic damage to buildings such as hairline cracks in plaster or masonry. Vibration must be much higher than these criteria, or occur for prolonged periods of time, to cause actual structural damage.

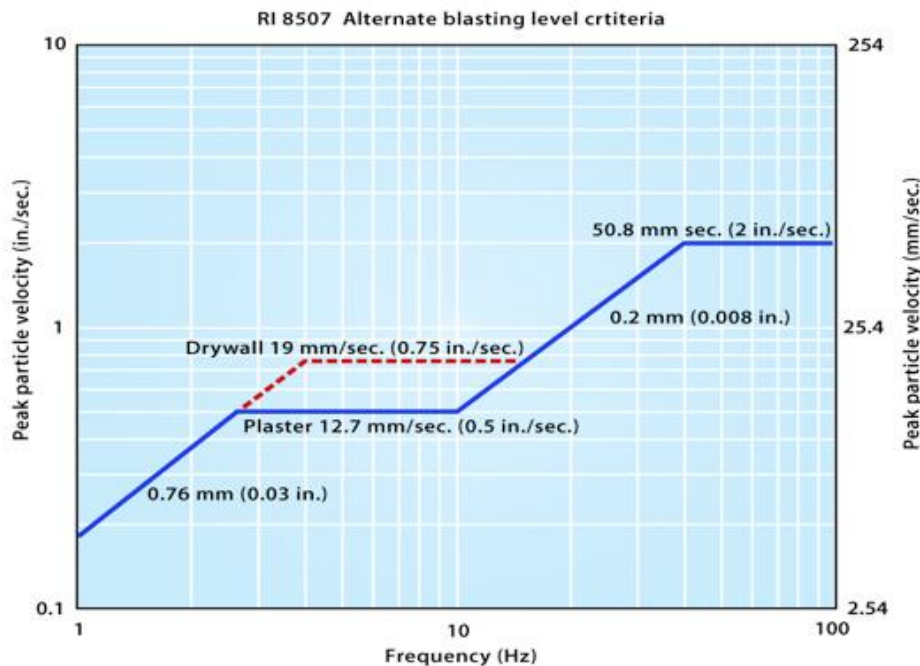


Figure 6: USBM vibration level criteria

Weekly Vibration Reports

The attached vibration reports show the maximum vibration levels in 1-minute intervals in Peak Particle Velocity (inches/second). The weekly vibration reports run from Wednesday, November 29, to Wednesday, December 6. The time and levels of the maximum PPV are listed for the week. The reports plot the vibration levels versus time, but it may be difficult to see some of the low level vibration data at this scale. If needed, we can revisit the data in more detail.

Overall, the vibration levels are very low and well below the USBM criteria for damage to structures.

Ms. Samantha Kepley, PE

December 11, 2023

Page 11

At Location 1, there is some measurable vibration activity from about 10 a.m. to 4 p.m. on Saturday December 2, and from 12:00 p.m. to 3 p.m. on Monday, December 4.

Please let me know if you have any questions or would like to discuss this report.

Sincerely,

Reviewed by,

Nathaniel Flanagin
Staff Consultant

Jeff Kwolkoski, P.E., INCE Bd. Cert.
Senior Acoustical Engineer

Encl: Appendix A: Vibration Data
Appendix B: Tabulated Weather Data



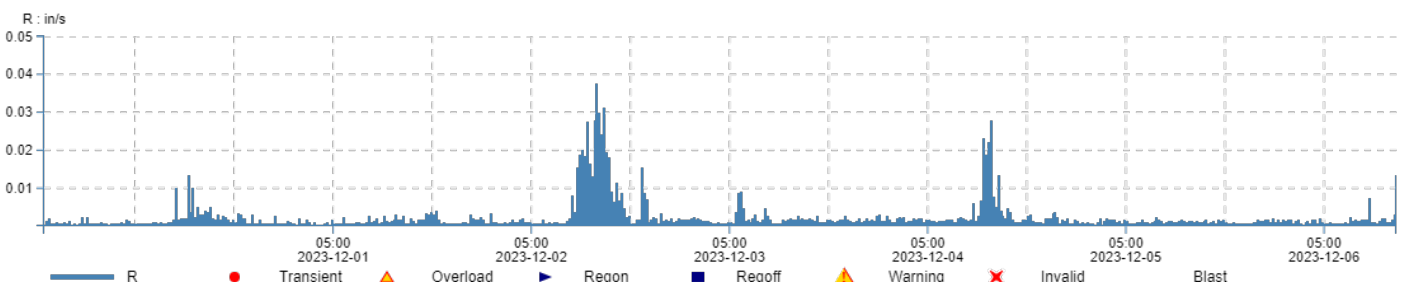
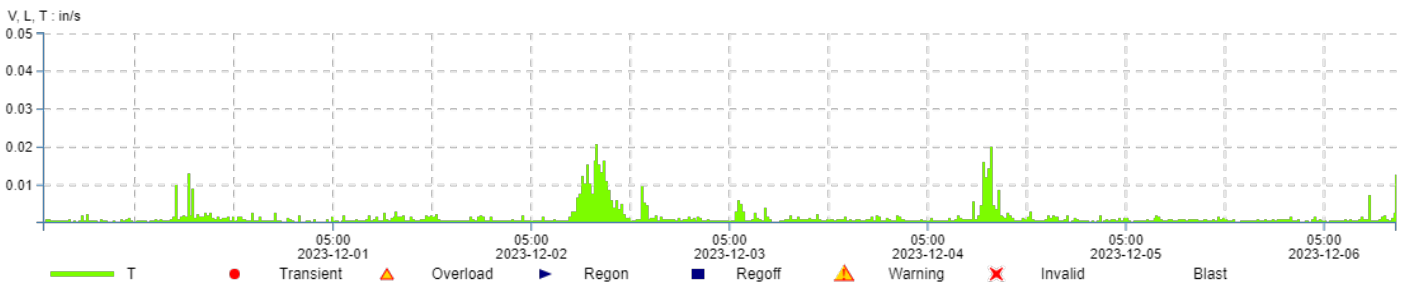
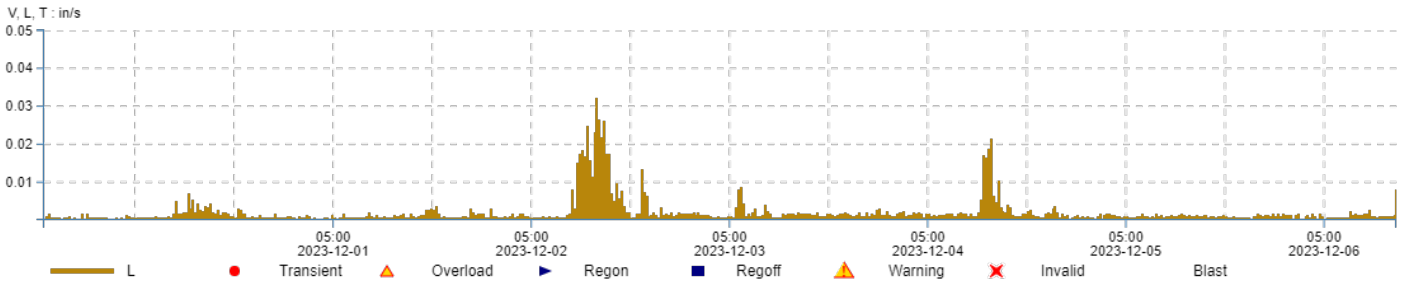
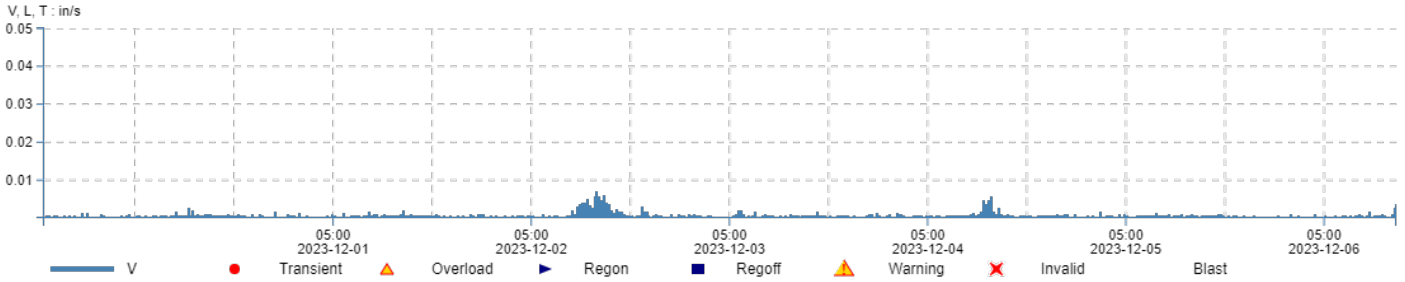
APPENDIX A

Vibration Data

Multi report

Project S Adams IX
 Project maintainer Nathaniel Flanagin
 Time frame 2023-11-29 18:00 - 2023-12-06 13:45 (America/Denver)

MP_1, M1, C22, S/N: 107193, Calibrated: 2023-06-12, (51B) ISEE Seismograph 1 in/s 2-250Hz



X-span 2023-11-29 18:00:00 - 2023-12-06 13:45:00

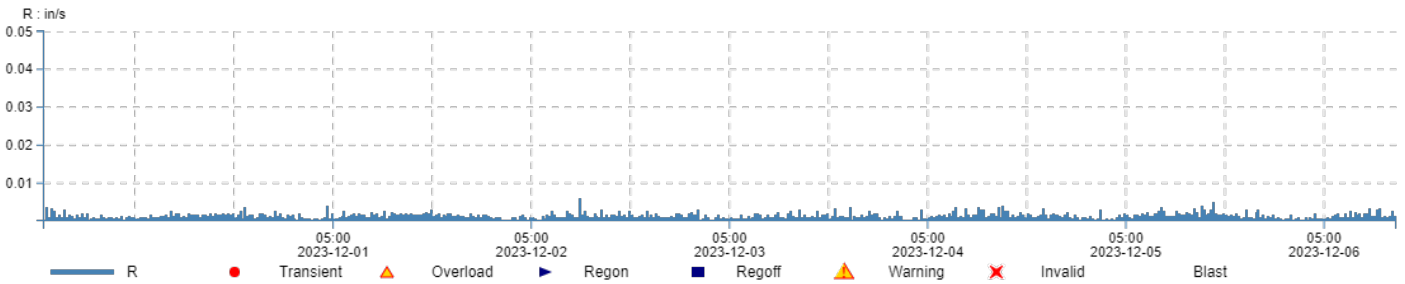
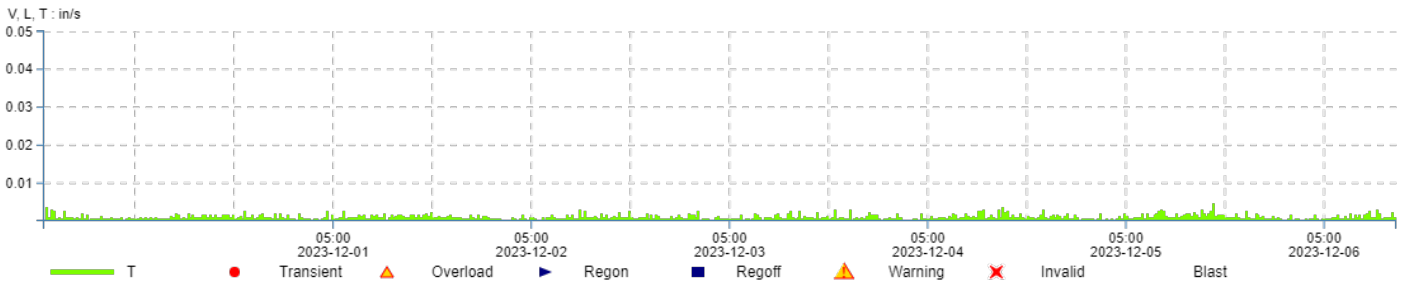
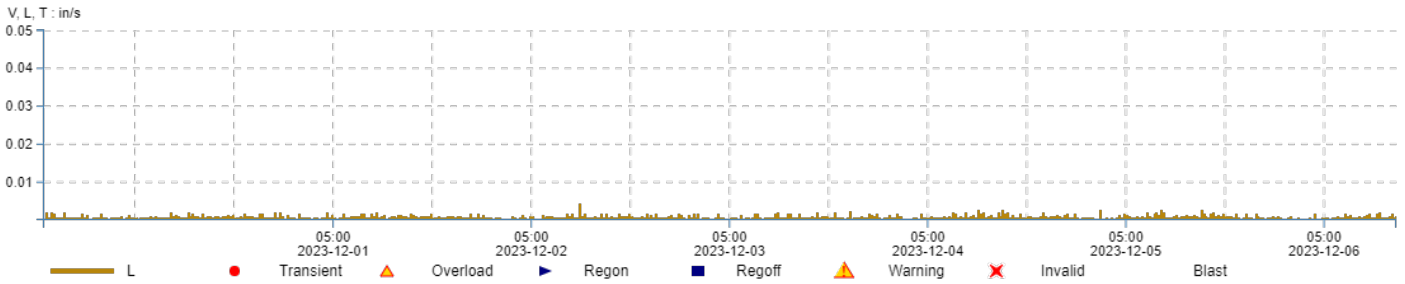
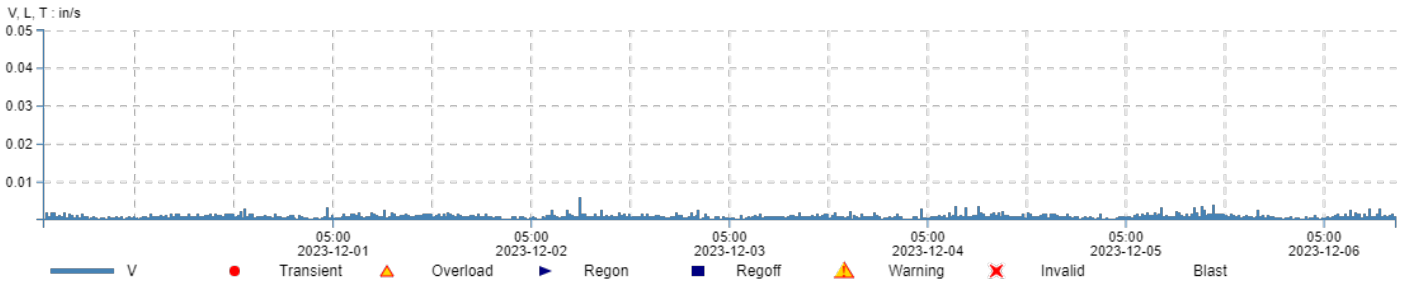
Y-span V, L, T : in/s: 0.0 - 0.050, R : in/s: 0.0 - 0.050

	V	L	T	R
Max	0.0068 in/s	0.032 in/s	0.021 in/s	0.037 in/s
Date	2023-12-02	2023-12-02	2023-12-02	2023-12-02
Time	12:49:00	12:49:00	12:49:00	12:49:00
Hz	43.6	41.8	39.4	-

Multi report

Project S Adams IX
 Project maintainer Nathaniel Flanagin
 Time frame 2023-11-29 18:00 - 2023-12-06 13:45 (America/Denver)

MP_2, M2, C22, S/N: 107197, Calibrated: 2023-06-16, (51B) ISEE Seismograph 1 in/s 2-250Hz



X-span 2023-11-29 18:00:00 - 2023-12-06 13:45:00
 Y-span V, L, T : in/s: 0.0 - 0.050, R : in/s: 0.0 - 0.050

	V	L	T	R
Max	0.0058 in/s	0.0042 in/s	0.0044 in/s	0.0060 in/s
Date	2023-12-02	2023-12-02	2023-12-05	2023-12-02
Time	10:33:00	10:33:00	15:21:00	10:33:00
Hz	11	11.4	13.5	-

APPENDIX B

Tabulated Weather Data

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
44	11/29/2023	6:00 PM	34.1	37.6	34	53	18.7	0	---	0	0	---	31.872	0	0
45	11/29/2023	6:15 PM	34.4	36	34.1	54	19.5	2	W	0.5	6	N	31.896	0	0
46	11/29/2023	6:30 PM	38.9	38.9	34.4	47	20.4	2	NNE	0.5	5	SSW	31.91	0	0
47	11/29/2023	6:45 PM	36.5	40.5	36.5	51	20.1	0	NNW	0	3	SSW	31.922	0	0
48	11/29/2023	7:00 PM	34.8	36.4	34.8	52	18.9	0	NW	0	1	NW	31.937	0	0
49	11/29/2023	7:15 PM	33	34.8	33	54	18.1	0	NW	0	1	NW	31.95	0	0
50	11/29/2023	7:30 PM	31.3	33	31.3	57	17.8	0	WNW	0	2	WNW	31.963	0	0
51	11/29/2023	7:45 PM	28.6	31.3	28.6	60	16.5	0	NW	0	1	NW	31.972	0	0
52	11/29/2023	8:00 PM	29.5	29.5	27	60	17.3	0	---	0	0	---	31.982	0	0
53	11/29/2023	8:15 PM	28.5	29.7	28.4	62	17.1	0	NNW	0	1	NW	31.993	0	0
54	11/29/2023	8:30 PM	26.6	28.5	26.5	64	16.1	0	NW	0	2	WNW	32	0	0
55	11/29/2023	8:45 PM	25.3	27	24.6	66	15.5	1	WNW	0.25	5	SW	32.014	0	0
56	11/29/2023	9:00 PM	25.8	26.4	25.3	65	15.6	1	NNW	0.25	5	N	32.027	0	0
57	11/29/2023	9:15 PM	27	27	25.8	64	16.4	0	WNW	0	3	WNW	32.032	0	0
58	11/29/2023	9:30 PM	25.9	27.2	25.9	66	16.1	0	NNW	0	1	NNW	32.039	0	0
59	11/29/2023	9:45 PM	26.3	26.5	25.9	65	16.1	0	NNW	0	1	NNW	32.045	0	0
60	11/29/2023	10:00 PM	25.5	26.2	25.1	67	16.1	0	---	0	0	---	32.049	0	0
61	11/29/2023	10:15 PM	24.8	25.5	24.7	67	15.4	0	NNW	0	1	NNW	32.063	0	0
62	11/29/2023	10:30 PM	25.2	25.2	24.5	68	16.1	0	NNW	0	1	NNW	32.074	0	0
63	11/29/2023	10:45 PM	26.6	26.8	25.1	66	16.8	0	NNW	0	1	NNW	32.082	0	0
64	11/30/2023	11:00 PM	25.7	26.6	25.4	67	16.3	0	NNW	0	1	NNW	32.084	0	0
65	11/30/2023	11:15 PM	25.4	25.9	25.1	67	16	0	NNW	0	1	NNW	32.092	0	0
66	11/30/2023	11:30 PM	27.1	27.1	24.9	64	16.5	0	NNW	0	1	NNW	32.099	0	0
67	11/30/2023	11:45 PM	26.3	27.6	26.3	64	15.8	0	NNW	0	2	NNW	32.108	0	0
68	11/30/2023	12:00 AM	24.9	26.3	24.9	66	15.1	1	NNW	0.25	2	NNW	32.112	0	0
69	11/30/2023	12:15 AM	25.7	25.7	24.6	65	15.6	1	NW	0.25	2	NW	32.12	0	0
70	11/30/2023	12:30 AM	24.5	25.7	24.5	67	15.1	0	---	0	0	---	32.137	0	0
71	11/30/2023	12:45 AM	24.8	25.1	24.5	67	15.4	0	NW	0	1	NNW	32.14	0	0
72	11/30/2023	1:00 AM	24.2	24.9	24.2	67	14.8	1	WNW	0.25	3	WNW	32.142	0	0
73	11/30/2023	1:15 AM	23.1	24.2	23.1	69	14.4	0	NNW	0	1	NNW	32.155	0	0
74	11/30/2023	1:30 AM	22.5	23.1	22.5	70	14.2	0	---	0	0	---	32.168	0	0
75	11/30/2023	1:45 AM	21.8	23.4	21.8	70	13.5	1	W	0.25	6	W	32.182	0	0
76	11/30/2023	2:00 AM	19.6	21.7	19.6	73	12.3	1	W	0.25	4	W	32.197	0	0
77	11/30/2023	2:15 AM	19.7	20.1	19.5	73	12.4	0	WNW	0	2	WNW	32.22	0	0
78	11/30/2023	2:30 AM	19	19.7	18.6	74	12.1	0	S	0	3	NNW	32.233	0	0
79	11/30/2023	2:45 AM	20.3	20.4	18.9	72	12.7	0	NNW	0	2	NNW	32.247	0	0
80	11/30/2023	3:00 AM	21.1	21.2	20	71	13.2	0	NNW	0	1	NNW	32.252	0	0
81	11/30/2023	3:15 AM	19.6	21.1	19.3	73	12.3	0	NNW	0	2	NNW	32.262	0	0
82	11/30/2023	3:30 AM	20.2	20.8	19.5	71	12.3	0	---	0	0	---	32.27	0	0
83	11/30/2023	3:45 AM	19.7	20.1	19.6	73	12.4	0	NE	0	2	NNW	32.274	0	0
84	11/30/2023	4:00 AM	21.7	22.2	19.7	69	13.1	1	W	0.25	4	W	32.278	0	0
85	11/30/2023	4:15 AM	22.1	22.1	21	70	13.8	0	NNW	0	2	NNW	32.29	0	0
86	11/30/2023	4:30 AM	22.8	22.8	21.8	69	14.1	1	NNW	0.25	3	NNW	32.305	0	0
87	11/30/2023	4:45 AM	24.2	24.8	22.8	66	14.5	1	NW	0.25	4	NW	32.318	0	0
88	11/30/2023	5:00 AM	23.4	24.2	23.4	68	14.4	1	NNW	0.25	2	NNW	32.324	0	0
89	11/30/2023	5:15 AM	23.9	23.9	23.3	66	14.2	1	NNW	0.25	4	NW	32.333	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
90	11/30/2023	5:30 AM	22.8	24	22.8	68	13.8	0	NNW	0	1	NNW	32.336	0	0
91	11/30/2023	5:45 AM	21.2	22.7	21	70	12.9	0	---	0	0	---	32.352	0	0
92	11/30/2023	6:00 AM	21.1	21.3	20.5	70	12.8	0	NNW	0	1	NNW	32.361	0	0
93	11/30/2023	6:15 AM	20	21.1	20	72	12.4	0	---	0	0	---	32.379	0	0
94	11/30/2023	6:30 AM	21.1	21.1	19.9	71	13.2	0	NNW	0	1	NNW	32.396	0	0
95	11/30/2023	6:45 AM	23.9	23.9	21	67	14.5	2	N	0.5	3	N	32.404	0	0
96	11/30/2023	7:00 AM	24.3	24.3	23.9	65	14.2	1	NNW	0.25	2	NNW	32.416	0	0
97	11/30/2023	7:15 AM	25.2	25.2	24.4	64	14.7	1	N	0.25	2	N	32.426	0	0
98	11/30/2023	7:30 AM	25.2	25.2	24.9	65	15.1	1	NNW	0.25	3	N	32.433	0	0
99	11/30/2023	7:45 AM	25.8	25.8	25	65	15.6	0	NNW	0	1	NNW	32.438	0	0
100	11/30/2023	8:00 AM	27.9	27.9	25.9	63	16.9	1	NW	0.25	3	NW	32.437	0	0
101	11/30/2023	8:15 AM	29.7	29.7	27.9	63	18.6	1	NW	0.25	3	NW	32.443	0	0
102	11/30/2023	8:30 AM	32.1	32.1	29.7	61	20.2	1	NNW	0.25	2	NW	32.449	0	0
103	11/30/2023	8:45 AM	33.8	34	32.2	60	21.4	1	NNW	0.25	3	N	32.449	0	0
104	11/30/2023	9:00 AM	34.6	34.8	33.8	59	21.7	2	N	0.5	4	N	32.451	0	0
105	11/30/2023	9:15 AM	34.5	34.6	34.4	57	20.8	2	NNE	0.5	4	N	32.457	0	0
106	11/30/2023	9:30 AM	36.3	36.3	34.5	54	21.2	2	NNW	0.5	7	WNW	32.455	0	0
107	11/30/2023	9:45 AM	38.1	38.1	36.4	51	21.5	3	WNW	0.75	7	WSW	32.458	0	0
108	11/30/2023	10:00 AM	37.8	38.4	37.8	51	21.3	4	WNW	1	8	WNW	32.451	0	0
109	11/30/2023	10:15 AM	38	38.2	37.8	51	21.5	3	WNW	0.75	9	WNW	32.45	0	0
110	11/30/2023	10:30 AM	38.3	38.3	38	51	21.7	3	WNW	0.75	10	SW	32.443	0	0
111	11/30/2023	10:45 AM	38.7	38.7	38.2	51	22.1	3	WNW	0.75	8	W	32.436	0	0
112	11/30/2023	11:00 AM	39.1	39.1	38.6	50	22	2	WNW	0.5	8	SW	32.429	0	0
113	11/30/2023	11:15 AM	39.1	39.2	38.7	51	22.5	3	WNW	0.75	8	WNW	32.427	0	0
114	11/30/2023	11:30 AM	38.9	39.2	38.7	50	21.8	3	WNW	0.75	10	WSW	32.42	0	0
115	11/30/2023	11:45 AM	38.8	39.1	38.8	50	21.7	3	WNW	0.75	9	W	32.409	0	0
116	11/30/2023	12:00 PM	38.5	39.1	38.5	50	21.5	4	SW	1	11	SW	32.399	0	0
117	11/30/2023	12:15 PM	39.3	39.3	38.3	49	21.7	3	WSW	0.75	7	WSW	32.393	0	0
118	11/30/2023	12:30 PM	39.8	39.8	39.3	48	21.7	2	NW	0.5	8	SW	32.386	0	0
119	11/30/2023	12:45 PM	40.4	40.4	39.7	47	21.7	2	W	0.5	6	WSW	32.383	0	0
120	11/30/2023	1:00 PM	39.9	40.6	39.9	46	20.8	4	SW	1	8	SW	32.374	0	0
121	11/30/2023	1:15 PM	39.9	40	39.8	46	20.8	3	WSW	0.75	8	SW	32.378	0	0
122	11/30/2023	1:30 PM	40.1	40.7	39.9	46	21	4	SW	1	12	WSW	32.373	0	0
123	11/30/2023	1:45 PM	40.4	40.6	39.9	46	21.2	3	WSW	0.75	11	SW	32.372	0	0
124	11/30/2023	2:00 PM	40.6	40.6	40.3	45	20.9	3	SW	0.75	10	SW	32.375	0	0
125	11/30/2023	2:15 PM	41.1	41.3	40.7	45	21.3	3	WNW	0.75	9	WNW	32.379	0	0
126	11/30/2023	2:30 PM	40.9	41.3	40.9	45	21.2	3	W	0.75	10	WSW	32.381	0	0
127	11/30/2023	2:45 PM	40.3	40.9	40.3	45	20.6	3	WNW	0.75	7	WNW	32.386	0	0
128	11/30/2023	3:00 PM	40.1	40.4	40	46	21	2	WNW	0.5	6	W	32.397	0	0
129	11/30/2023	3:15 PM	40.5	40.6	40.1	45	20.8	3	WNW	0.75	7	WNW	32.408	0	0
130	11/30/2023	3:30 PM	39.9	40.5	39.9	46	20.8	3	WNW	0.75	8	WSW	32.417	0	0
131	11/30/2023	3:45 PM	38.8	39.9	38.8	48	20.8	3	WNW	0.75	9	W	32.422	0	0
132	11/30/2023	4:00 PM	37.7	38.8	37.7	50	20.7	1	WNW	0.25	6	WNW	32.434	0	0
133	11/30/2023	4:15 PM	36.5	37.7	36.5	52	20.5	1	WNW	0.25	6	WNW	32.447	0	0
134	11/30/2023	4:30 PM	34.3	36.4	34.3	54	19.4	1	W	0.25	5	SW	32.456	0	0
135	11/30/2023	4:45 PM	31.1	34.3	31.1	57	17.6	1	WSW	0.25	4	WSW	32.464	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
136	11/30/2023	5:00 PM	29.9	31	28.9	60	17.7	1	WSW	0.25	4	SSE	32.479	0	0
137	11/30/2023	5:15 PM	31.4	31.4	30	59	18.7	2	SSW	0.5	4	SSE	32.491	0	0
138	11/30/2023	5:30 PM	32.2	32.4	31.4	58	19.1	3	WSW	0.75	6	SSW	32.5	0	0
139	11/30/2023	5:45 PM	31.4	32.2	31.4	60	19.1	3	WSW	0.75	6	SW	32.5	0	0
140	11/30/2023	6:00 PM	30.5	31.4	30.5	62	19	3	WSW	0.75	6	SW	32.5	0	0
141	11/30/2023	6:15 PM	29.5	30.5	29.5	63	18.4	4	SW	1	6	SW	32.5	0	0
142	11/30/2023	6:30 PM	28	29.5	28	66	18.1	0	WNW	0	2	WSW	32.5	0	0
143	11/30/2023	6:45 PM	27.6	28	27.6	67	18.1	1	WNW	0.25	2	WNW	32.5	0	0
144	11/30/2023	7:00 PM	26.6	27.6	26.6	68	17.5	0	NW	0	2	WNW	32.5	0	0
145	11/30/2023	7:15 PM	25.1	26.6	25.1	70	16.7	0	NW	0	2	SW	32.5	0	0
146	11/30/2023	7:30 PM	25.3	25.3	24.7	71	17.2	0	NW	0	1	NW	32.5	0	0
147	11/30/2023	7:45 PM	23.9	25.3	23.9	72	16.2	0	---	0	0	---	32.5	0	0
148	11/30/2023	8:00 PM	24.2	24.2	23.8	73	16.8	0	NW	0	1	NW	32.5	0	0
149	11/30/2023	8:15 PM	25.4	25.4	24.2	74	18.3	0	NW	0	3	WSW	32.5	0	0
150	11/30/2023	8:30 PM	25.3	25.8	25.3	75	18.5	1	W	0.25	2	W	32.5	0	0
151	11/30/2023	8:45 PM	25.6	25.6	25.2	75	18.8	1	SW	0.25	3	WSW	32.5	0	0
152	11/30/2023	9:00 PM	25.7	25.7	25.6	75	18.9	1	SSW	0.25	3	S	32.5	0	0
153	11/30/2023	9:15 PM	25.9	25.9	25.7	75	19.1	1	SW	0.25	3	SSW	32.5	0	0
154	11/30/2023	9:30 PM	26.1	26.1	25.9	75	19.3	1	SSW	0.25	3	S	32.5	0	0
155	11/30/2023	9:45 PM	26.6	26.6	26.1	74	19.4	0	SSW	0	2	SSW	32.5	0	0
156	11/30/2023	10:00 PM	26.7	26.8	26.6	76	20.1	1	WSW	0.25	2	WSW	32.5	0	0
157	11/30/2023	10:15 PM	26.5	26.7	26.4	76	20	2	SSW	0.5	3	WSW	32.5	0	0
158	11/30/2023	10:30 PM	26.4	26.5	26.3	76	19.9	1	SW	0.25	3	S	32.5	0	0
159	11/30/2023	10:45 PM	26.3	26.4	26.3	76	19.8	2	S	0.5	4	S	32.5	0	0
160	12/1/2023	11:00 PM	26.5	26.5	26.3	77	20.3	2	S	0.5	4	S	32.5	0	0
161	12/1/2023	11:15 PM	26.5	26.6	26.5	77	20.3	2	S	0.5	4	S	32.5	0	0
162	12/1/2023	11:30 PM	26.6	26.7	26.5	77	20.4	3	SSE	0.75	6	SSE	32.5	0	0
163	12/1/2023	11:45 PM	26.4	26.6	26.4	77	20.2	3	S	0.75	5	S	32.5	0	0
164	12/1/2023	12:00 AM	26.2	26.4	26.2	77	20	3	S	0.75	5	S	32.5	0	0
165	12/1/2023	12:15 AM	26	26.3	26	77	19.8	2	SSE	0.5	5	SSE	32.5	0	0
166	12/1/2023	12:30 AM	25.5	26	25.5	78	19.6	1	SW	0.25	3	SSW	32.5	0	0
167	12/1/2023	12:45 AM	25.3	25.5	25.2	79	19.7	1	SW	0.25	4	SSE	32.5	0	0
168	12/1/2023	1:00 AM	25.4	25.5	25.2	80	20.1	2	SE	0.5	5	ESE	32.5	0	0
169	12/1/2023	1:15 AM	24.8	25.5	24.8	81	19.8	2	SSE	0.5	5	SE	32.5	0	0
170	12/1/2023	1:30 AM	24.4	24.8	24.3	82	19.7	2	SSE	0.5	3	SSE	32.5	0	0
171	12/1/2023	1:45 AM	24.3	24.4	24.2	83	19.9	1	SE	0.25	4	E	32.5	0	0
172	12/1/2023	2:00 AM	24.3	24.3	24.2	84	20.2	3	ESE	0.75	7	ESE	32.5	0	0
173	12/1/2023	2:15 AM	23.7	24.3	23.7	84	19.6	2	SE	0.5	5	SE	32.5	0	0
174	12/1/2023	2:30 AM	22.9	23.7	22.9	85	19.1	1	SE	0.25	2	SE	32.5	0	0
175	12/1/2023	2:45 AM	22.7	22.9	22.6	86	19.1	0	E	0	1	SE	32.5	0	0
176	12/1/2023	3:00 AM	22.4	22.8	22.3	86	18.8	0	ENE	0	1	E	32.5	0	0
177	12/1/2023	3:15 AM	22.1	22.4	22.1	86	18.6	0	ENE	0	2	ENE	32.5	0	0
178	12/1/2023	3:30 AM	21.9	22.1	21.9	87	18.6	0	ENE	0	2	ENE	32.5	0	0
179	12/1/2023	3:45 AM	22.1	22.2	21.9	87	18.8	1	SE	0.25	4	ESE	32.5	0	0
180	12/1/2023	4:00 AM	22	22.1	21.9	87	18.7	1	SE	0.25	2	SE	32.5	0	0
181	12/1/2023	4:15 AM	21.7	22	21.7	87	18.4	1	SE	0.25	2	SSE	32.5	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
182	12/1/2023	4:30 AM	21.3	21.7	21.3	87	18	0	ENE	0	1	SE	32.5	0	0
183	12/1/2023	4:45 AM	20.8	21.3	20.8	88	17.8	0	---	0	0	---	32.5	0	0
184	12/1/2023	5:00 AM	21	21.1	20.8	89	18.3	0	NE	0	1	NE	32.5	0	0
185	12/1/2023	5:15 AM	20.8	21	20.8	88	17.8	0	NE	0	1	NE	32.5	0	0
186	12/1/2023	5:30 AM	20.8	20.9	20.7	89	18.1	0	---	0	0	---	32.5	0	0
187	12/1/2023	5:45 AM	20.9	20.9	20.6	89	18.2	0	NNE	0	1	NNE	32.5	0	0
188	12/1/2023	6:00 AM	20.8	20.9	20.8	89	18.1	0	---	0	0	---	32.5	0	0
189	12/1/2023	6:15 AM	20.6	20.9	20.6	89	17.9	0	---	0	0	---	32.5	0	0
190	12/1/2023	6:30 AM	20.5	20.6	20.5	89	17.8	0	---	0	0	---	32.5	0	0
191	12/1/2023	6:45 AM	21.1	21.1	20.5	89	18.4	0	---	0	0	---	32.5	0	0
192	12/1/2023	7:00 AM	21.1	21.1	20.9	89	18.4	0	---	0	0	---	32.5	0	0
193	12/1/2023	7:15 AM	21.9	22	21.2	89	19.2	0	NNE	0	2	NNE	32.5	0	0
194	12/1/2023	7:30 AM	22.3	22.4	21.9	87	19	0	NNE	0	1	NNE	32.5	0	0
195	12/1/2023	7:45 AM	22.2	22.3	22.1	88	19.2	0	---	0	0	---	32.5	0	0
196	12/1/2023	8:00 AM	22.8	22.8	22.2	88	19.8	0	---	0	0	---	32.5	0	0
197	12/1/2023	8:15 AM	23.4	23.4	22.8	88	20.4	0	---	0	0	---	32.5	0	0
198	12/1/2023	8:30 AM	24.3	24.3	23.5	87	21	0	NNE	0	2	NNE	32.5	0	0
199	12/1/2023	8:45 AM	25	25	24.3	86	21.4	0	N	0	2	NNE	32.5	0	0
200	12/1/2023	9:00 AM	25.6	25.6	25	84	21.4	1	NNE	0.25	3	NE	32.5	0	0
201	12/1/2023	9:15 AM	26.2	26.2	25.6	83	21.7	0	N	0	3	NE	32.5	0	0
202	12/1/2023	9:30 AM	27.2	27.2	26.2	82	22.4	0	NNE	0	3	NE	32.5	0	0
203	12/1/2023	9:45 AM	28.2	28.2	27.1	81	23.1	1	NNW	0.25	2	ENE	32.5	0	0
204	12/1/2023	10:00 AM	29.6	29.6	28.2	79	23.9	2	N	0.5	6	N	32.5	0	0
205	12/1/2023	10:15 AM	30.6	30.6	29.6	76	23.9	2	NNW	0.5	6	N	32.5	0	0
206	12/1/2023	10:30 AM	30.8	30.9	30.6	74	23.5	2	NNE	0.5	4	NNW	32.5	0	0
207	12/1/2023	10:45 AM	31.6	31.6	30.8	72	23.6	1	NNW	0.25	3	NNW	32.5	0	0
208	12/1/2023	11:00 AM	32.4	32.4	31.6	70	23.7	1	NE	0.25	6	NNE	32.5	0	0
209	12/1/2023	11:15 AM	33.2	33.3	32.5	67	23.4	1	NE	0.25	5	N	32.5	0	0
210	12/1/2023	11:30 AM	34.6	34.6	33.2	65	24	1	N	0.25	3	N	32.5	0	0
211	12/1/2023	11:45 AM	35.2	35.2	34.7	64	24.2	1	NW	0.25	3	NNE	32.494	0	0
212	12/1/2023	12:00 PM	36.1	36.6	35.3	62	24.3	1	WSW	0.25	4	N	32.478	0	0
213	12/1/2023	12:15 PM	37.5	37.5	36.1	60	24.9	1	WNW	0.25	3	SW	32.463	0	0
214	12/1/2023	12:30 PM	38.8	38.9	37.5	58	25.3	1	WNW	0.25	4	WSW	32.453	0	0
215	12/1/2023	12:45 PM	38.9	38.9	38.5	58	25.4	1	NW	0.25	3	WNW	32.441	0	0
216	12/1/2023	1:00 PM	40.2	40.4	38.9	55	25.3	0	ENE	0	3	WNW	32.434	0	0
217	12/1/2023	1:15 PM	39.4	40.5	39.4	56	25	0	NE	0	2	NE	32.429	0	0
218	12/1/2023	1:30 PM	39.3	39.4	39	57	25.3	0	W	0	2	W	32.421	0	0
219	12/1/2023	1:45 PM	39.5	40	39.3	56	25.1	0	WNW	0	2	WSW	32.415	0	0
220	12/1/2023	2:00 PM	39.4	39.5	39.2	57	25.4	1	NW	0.25	4	SW	32.408	0	0
221	12/1/2023	2:15 PM	39.3	39.4	39.1	57	25.3	2	WSW	0.5	4	SW	32.404	0	0
222	12/1/2023	2:30 PM	39.7	39.7	39.3	56	25.3	3	WSW	0.75	6	SW	32.402	0	0
223	12/1/2023	2:45 PM	39.3	39.7	39.3	57	25.3	3	WSW	0.75	6	SW	32.401	0	0
224	12/1/2023	3:00 PM	38.6	39.3	38.5	58	25.1	1	W	0.25	5	SW	32.406	0	0
225	12/1/2023	3:15 PM	39.7	39.7	38.5	57	25.7	2	WSW	0.5	5	SW	32.41	0	0
226	12/1/2023	3:30 PM	40.1	40.1	39.7	56	25.6	3	SW	0.75	6	WSW	32.414	0	0
227	12/1/2023	3:45 PM	39.6	40.1	39.6	56	25.2	3	WSW	0.75	5	SW	32.419	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
228	12/1/2023	4:00 PM	38.7	39.6	38.7	57	24.8	1	W	0.25	5	WSW	32.423	0	0
229	12/1/2023	4:15 PM	37.7	38.7	37.7	57	23.8	5	SW	1.25	9	SW	32.432	0	0
230	12/1/2023	4:30 PM	35.1	37.7	35.1	68	25.6	3	SSW	0.75	8	SW	32.444	0	0
231	12/1/2023	4:45 PM	33.7	35.1	33.7	71	25.3	4	S	1	7	SSW	32.453	0	0
232	12/1/2023	5:00 PM	33	33.7	33	72	25	3	SSW	0.75	6	SSE	32.459	0	0
233	12/1/2023	5:15 PM	32.5	33	32.5	73	24.8	4	SSW	1	7	S	32.469	0	0
234	12/1/2023	5:30 PM	31.8	32.4	31.8	74	24.5	3	S	0.75	7	S	32.476	0	0
235	12/1/2023	5:45 PM	31.4	31.8	31.4	74	24.1	3	S	0.75	6	S	32.485	0	0
236	12/1/2023	6:00 PM	31.5	31.5	31.3	75	24.5	2	SE	0.5	4	SSE	32.496	0	0
237	12/1/2023	6:15 PM	31.3	31.5	31.3	75	24.3	2	SSE	0.5	4	SE	32.499	0	0
238	12/1/2023	6:30 PM	31.3	31.4	31.3	76	24.6	0	---	0	0	---	32.499	0	0
239	12/1/2023	6:45 PM	31.4	31.4	31.1	76	24.7	0	NW	0	1	WSW	32.5	0	0
240	12/1/2023	7:00 PM	30.3	31.6	30.3	76	23.6	1	NW	0.25	3	NW	32.5	0	0
241	12/1/2023	7:15 PM	28.7	30.2	28.7	78	22.7	0	NW	0	2	WNW	32.5	0	0
242	12/1/2023	7:30 PM	27.4	28.6	27.4	80	22	0	NW	0	2	NNE	32.5	0	0
243	12/1/2023	7:45 PM	28	28	27	80	22.6	0	NNW	0	1	N	32.5	0	0
244	12/1/2023	8:00 PM	27.7	28.2	27.7	80	22.3	1	NW	0.25	3	NW	32.5	0	0
245	12/1/2023	8:15 PM	26.5	27.7	26.5	81	21.5	0	N	0	1	N	32.5	0	0
246	12/1/2023	8:30 PM	26.7	26.7	26.2	83	22.2	1	NNW	0.25	4	NNW	32.5	0	0
247	12/1/2023	8:45 PM	28.3	28.3	26.7	82	23.5	0	ENE	0	3	NE	32.5	0	0
248	12/1/2023	9:00 PM	28.9	29.4	28.3	78	22.9	1	NNW	0.25	3	WNW	32.5	0	0
249	12/1/2023	9:15 PM	26.2	28.9	26.2	79	20.6	1	NW	0.25	2	WNW	32.5	0	0
250	12/1/2023	9:30 PM	26.4	26.4	25.6	82	21.7	1	NNW	0.25	4	NW	32.5	0	0
251	12/1/2023	9:45 PM	27	27	26	82	22.2	1	NNW	0.25	5	NNW	32.5	0	0
252	12/1/2023	10:00 PM	28.1	28.1	27	80	22.7	1	NNW	0.25	4	NNW	32.5	0	0
253	12/1/2023	10:15 PM	29.5	29.5	28.1	79	23.8	1	NNW	0.25	4	NNW	32.5	0	0
254	12/1/2023	10:30 PM	30.8	30.8	29.6	76	24.1	2	NNE	0.5	10	NNE	32.5	0	0
255	12/1/2023	10:45 PM	31	31	30.8	76	24.3	4	NNE	1	10	N	32.5	0	0
256	12/2/2023	11:00 PM	30.6	31	30.6	76	23.9	2	NNE	0.5	4	NNE	32.5	0	0
257	12/2/2023	11:15 PM	29.8	30.6	29.8	77	23.5	1	NNE	0.25	3	NE	32.5	0	0
258	12/2/2023	11:30 PM	29.4	29.9	29.4	78	23.4	1	NNE	0.25	2	NNE	32.5	0	0
259	12/2/2023	11:45 PM	29	29.5	29	78	23	1	NNE	0.25	3	NE	32.5	0	0
260	12/2/2023	12:00 AM	26.8	28.9	26.8	79	21.2	1	NNW	0.25	2	NNW	32.5	0	0
261	12/2/2023	12:15 AM	25.4	26.8	25.4	81	20.4	1	NNW	0.25	2	N	32.5	0	0
262	12/2/2023	12:30 AM	25.3	25.4	25	84	21.1	1	NNW	0.25	2	NNW	32.5	0	0
263	12/2/2023	12:45 AM	23.9	25.5	23.9	83	19.5	0	NNE	0	2	NNE	32.5	0	0
264	12/2/2023	1:00 AM	23.7	23.9	23.7	84	19.6	0	NNW	0	2	NNW	32.5	0	0
265	12/2/2023	1:15 AM	23	23.6	23	84	18.9	2	N	0.5	3	N	32.5	0	0
266	12/2/2023	1:30 AM	24.8	24.8	23	85	20.9	2	N	0.5	4	NNE	32.5	0	0
267	12/2/2023	1:45 AM	26	26.1	24.8	83	21.5	2	N	0.5	5	NNE	32.5	0	0
268	12/2/2023	2:00 AM	26.1	26.6	26.1	82	21.4	3	NNW	0.75	6	NNW	32.5	0	0
269	12/2/2023	2:15 AM	25.8	26.1	25.5	82	21.1	4	N	1	7	N	32.5	0	0
270	12/2/2023	2:30 AM	26.7	26.7	25.8	80	21.4	3	NNW	0.75	6	N	32.5	0	0
271	12/2/2023	2:45 AM	26.5	27	26.5	79	20.9	2	N	0.5	7	N	32.5	0	0
272	12/2/2023	3:00 AM	26.4	26.6	26.3	79	20.8	2	NNE	0.5	4	E	32.5	0	0
273	12/2/2023	3:15 AM	25.9	26.4	25.9	79	20.3	1	N	0.25	4	NNE	32.5	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
274	12/2/2023	3:30 AM	26.3	26.3	25.9	78	20.4	2	NNW	0.5	7	NNE	32.5	0	0
275	12/2/2023	3:45 AM	27	27	26.3	76	20.4	4	NNE	1	8	NNE	32.5	0	0
276	12/2/2023	4:00 AM	27.1	27.2	26.9	75	20.2	5	NNE	1.25	8	NNE	32.5	0	0
277	12/2/2023	4:15 AM	27.3	27.4	27.1	73	19.8	3	NNE	0.75	9	NNE	32.5	0	0
278	12/2/2023	4:30 AM	26.9	27.3	26.7	74	19.7	3	SE	0.75	10	SSE	32.5	0	0
279	12/2/2023	4:45 AM	27.1	27.5	26.9	70	18.6	2	SE	0.5	10	SSE	32.5	0	0
280	12/2/2023	5:00 AM	25.1	27.1	25.1	79	19.5	5	SE	1.25	11	SSE	32.5	0	0
281	12/2/2023	5:15 AM	24	25.1	24	81	19	1	ESE	0.25	3	ESE	32.5	0	0
282	12/2/2023	5:30 AM	23.4	24	23.4	82	18.7	1	WNW	0.25	2	NW	32.5	0	0
283	12/2/2023	5:45 AM	22.3	23.4	22.3	83	17.9	1	NE	0.25	3	NE	32.5	0	0
284	12/2/2023	6:00 AM	21.6	22.3	21.6	83	17.2	1	NW	0.25	2	NW	32.5	0	0
285	12/2/2023	6:15 AM	21.1	21.7	21.1	82	16.5	1	NW	0.25	4	NW	32.5	0	0
286	12/2/2023	6:30 AM	19.6	21.1	19.6	83	15.3	1	NNW	0.25	3	NNW	32.5	0	0
287	12/2/2023	6:45 AM	20.8	20.8	19.6	84	16.7	2	NNW	0.5	3	NNW	32.5	0	0
288	12/2/2023	7:00 AM	22.1	22.2	20.8	80	16.9	2	NNW	0.5	5	NNW	32.5	0	0
289	12/2/2023	7:15 AM	21.8	22.1	21.8	80	16.6	2	NW	0.5	4	NW	32.5	0	0
290	12/2/2023	7:30 AM	21.4	21.8	21	81	16.5	0	NNW	0	1	NNW	32.5	0	0
291	12/2/2023	7:45 AM	23.5	23.5	21.4	78	17.6	0	NNW	0	3	E	32.5	0	0
292	12/2/2023	8:00 AM	24.2	24.2	23.6	77	18	1	NNW	0.25	4	N	32.5	0	0
293	12/2/2023	8:15 AM	24.8	24.8	24.2	74	17.7	0	NNW	0	2	NE	32.5	0	0
294	12/2/2023	8:30 AM	25.3	25.3	24.6	73	17.9	0	NNW	0	1	NNW	32.5	0	0
295	12/2/2023	8:45 AM	30.2	30.2	25.1	65	19.8	0	NNW	0	1	NNW	32.5	0	0
296	12/2/2023	9:00 AM	33.6	33.6	30.3	63	22.3	1	W	0.25	5	SW	32.5	0	0
297	12/2/2023	9:15 AM	37.1	37.1	33.6	53	21.5	1	S	0.25	3	WSW	32.5	0	0
298	12/2/2023	9:30 AM	38.3	38.3	37.1	52	22.2	4	ESE	1	10	E	32.5	0	0
299	12/2/2023	9:45 AM	39.3	39.3	38.3	47	20.7	10	ESE	2.5	19	ESE	32.5	0	0
300	12/2/2023	10:00 AM	39.9	40	39.3	46	20.8	9	ESE	2.25	18	E	32.5	0	0
301	12/2/2023	10:15 AM	40.3	40.4	39.9	46	21.1	10	ESE	2.5	17	SE	32.5	0	0
302	12/2/2023	10:30 AM	40.1	40.4	40	46	21	11	ESE	2.75	21	E	32.5	0	0
303	12/2/2023	10:45 AM	40.1	40.4	40.1	45	20.4	11	ESE	2.75	23	ESE	32.5	0	0
304	12/2/2023	11:00 AM	39.1	40.1	38.8	47	20.5	13	ESE	3.25	26	ESE	32.5	0	0
305	12/2/2023	11:15 AM	40.1	40.1	39.1	46	21	16	ESE	4	32	ESE	32.5	0	0
306	12/2/2023	11:30 AM	40.2	40.5	40.1	44	20	16	ESE	4	27	ESE	32.5	0	0
307	12/2/2023	11:45 AM	40	40.6	39.9	45	20.3	16	E	4	33	ESE	32.5	0	0
308	12/2/2023	12:00 PM	39.9	40.3	39.8	43	19.2	14	ESE	3.5	23	E	32.5	0	0
309	12/2/2023	12:15 PM	40.3	40.3	39.9	41	18.4	14	ESE	3.5	27	E	32.5	0	0
310	12/2/2023	12:30 PM	40.1	40.4	40.1	40	17.7	14	ESE	3.5	26	E	32.5	0	0
311	12/2/2023	12:45 PM	40.4	40.6	40.1	39	17.4	14	ESE	3.5	26	E	32.5	0	0
312	12/2/2023	1:00 PM	39.7	40.4	39.7	41	17.9	16	E	4	29	ESE	32.5	0	0
313	12/2/2023	1:15 PM	39.5	39.8	39.3	42	18.3	14	E	3.5	24	E	32.5	0	0
314	12/2/2023	1:30 PM	38.9	39.6	38.9	43	18.3	14	E	3.5	27	E	32.5	0	0
315	12/2/2023	1:45 PM	39.2	39.2	38.9	41	17.4	14	E	3.5	26	ESE	32.5	0	0
316	12/2/2023	2:00 PM	39.8	39.8	39.2	41	18	12	E	3	21	ESE	32.5	0	0
317	12/2/2023	2:15 PM	39.7	39.9	39.5	41	17.9	12	E	3	20	ENE	32.5	0	0
318	12/2/2023	2:30 PM	39.5	39.7	39.4	42	18.3	11	ESE	2.75	21	E	32.5	0	0
319	12/2/2023	2:45 PM	39.5	39.7	39.4	41	17.7	9	E	2.25	18	E	32.5	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
320	12/2/2023	3:00 PM	39.8	39.8	39.5	41	18	8	ESE	2	14	ESE	32.5	0	0
321	12/2/2023	3:15 PM	39.9	40	39.7	40	17.5	8	ESE	2	16	ESE	32.499	0	0
322	12/2/2023	3:30 PM	39.6	40	39.6	41	17.8	9	ESE	2.25	15	ESE	32.493	0	0
323	12/2/2023	3:45 PM	39.5	39.7	39.5	42	18.3	8	ESE	2	16	ESE	32.489	0	0
324	12/2/2023	4:00 PM	39.4	39.5	39.4	42	18.2	7	ESE	1.75	13	E	32.493	0	0
325	12/2/2023	4:15 PM	38.9	39.4	38.9	43	18.3	5	E	1.25	13	ESE	32.49	0	0
326	12/2/2023	4:30 PM	37.9	38.9	37.9	43	17.4	3	E	0.75	8	ESE	32.49	0	0
327	12/2/2023	4:45 PM	36.8	37.9	36.8	44	16.9	1	ENE	0.25	8	E	32.491	0	0
328	12/2/2023	5:00 PM	34.4	36.8	34.4	46	15.7	0	NW	0	1	N	32.495	0	0
329	12/2/2023	5:15 PM	32.5	34.6	32.4	48	15	1	WNW	0.25	2	NW	32.499	0	0
330	12/2/2023	5:30 PM	32.8	32.8	32.1	48	15.2	2	WNW	0.5	3	WNW	32.499	0	0
331	12/2/2023	5:45 PM	32.9	33.3	32.8	48	15.3	1	NW	0.25	3	NW	32.499	0	0
332	12/2/2023	6:00 PM	36	36	32.8	46	17.2	2	NW	0.5	7	WNW	32.499	0	0
333	12/2/2023	6:15 PM	38.4	38.4	36.1	44	18.4	5	E	1.25	21	SE	32.5	0	0
334	12/2/2023	6:30 PM	39.3	39.4	38.4	44	19.2	10	ESE	2.5	19	ESE	32.491	0	0
335	12/2/2023	6:45 PM	39.3	39.6	39.3	45	19.7	7	ESE	1.75	15	ESE	32.479	0	0
336	12/2/2023	7:00 PM	38.8	39.3	38.8	46	19.8	5	ESE	1.25	11	ESE	32.476	0	0
337	12/2/2023	7:15 PM	36.9	38.8	36.9	47	18.5	2	NNW	0.5	5	N	32.478	0	0
338	12/2/2023	7:30 PM	36.3	36.9	36.1	48	18.5	2	NNW	0.5	6	N	32.479	0	0
339	12/2/2023	7:45 PM	38	38	36	45	18.5	4	NNW	1	11	ENE	32.48	0	0
340	12/2/2023	8:00 PM	37.1	38.4	36.9	46	18.2	2	NW	0.5	8	E	32.469	0	0
341	12/2/2023	8:15 PM	36.8	37.4	36.8	47	18.4	1	NW	0.25	3	W	32.466	0	0
342	12/2/2023	8:30 PM	35.7	36.9	35.7	48	17.9	1	W	0.25	2	W	32.463	0	0
343	12/2/2023	8:45 PM	34.1	35.7	34	49	16.9	2	WNW	0.5	5	WNW	32.455	0	0
344	12/2/2023	9:00 PM	33.8	34.2	33.7	49	16.6	1	NNW	0.25	4	WNW	32.456	0	0
345	12/2/2023	9:15 PM	32	33.9	32	52	16.3	1	NW	0.25	3	NW	32.451	0	0
346	12/2/2023	9:30 PM	29.7	32	29.7	54	15.1	1	NW	0.25	2	NNW	32.454	0	0
347	12/2/2023	9:45 PM	28.4	29.7	27.8	55	14.3	1	WNW	0.25	3	W	32.445	0	0
348	12/2/2023	10:00 PM	28.5	29.9	28.5	55	14.4	1	NE	0.25	3	SE	32.456	0	0
349	12/2/2023	10:15 PM	28	28.7	27.9	56	14.3	0	NNW	0	4	N	32.459	0	0
350	12/2/2023	10:30 PM	29.6	29.6	27.1	54	15	2	SE	0.5	8	SW	32.457	0	0
351	12/2/2023	10:45 PM	27.7	29.8	27.7	57	14.4	2	W	0.5	5	WSW	32.46	0	0
352	12/3/2023	11:00 PM	29.4	29.4	27.2	55	15.2	2	W	0.5	8	ESE	32.452	0	0
353	12/3/2023	11:15 PM	30.2	30.2	29.5	54	15.5	2	NW	0.5	6	ESE	32.46	0	0
354	12/3/2023	11:30 PM	31.3	31.3	30.2	53	16.1	1	WNW	0.25	4	ENE	32.447	0	0
355	12/3/2023	11:45 PM	32.4	32.4	29.9	52	16.7	1	NNW	0.25	3	ENE	32.448	0	0
356	12/3/2023	12:00 AM	32.8	32.9	32.5	51	16.6	2	NNW	0.5	4	N	32.443	0	0
357	12/3/2023	12:15 AM	33.2	33.2	31.5	52	17.5	2	NW	0.5	6	NNE	32.434	0	0
358	12/3/2023	12:30 AM	39	39	33.3	48	20.9	4	ENE	1	9	ENE	32.433	0	0
359	12/3/2023	12:45 AM	39.6	39.8	39.1	47	21	4	E	1	8	ENE	32.43	0	0
360	12/3/2023	1:00 AM	39.1	39.6	38.4	48	21	3	E	0.75	9	ENE	32.432	0	0
361	12/3/2023	1:15 AM	40.7	40.7	39.1	48	22.5	7	ENE	1.75	16	E	32.41	0	0
362	12/3/2023	1:30 AM	41	41.1	40.7	48	22.8	8	ENE	2	14	ENE	32.397	0	0
363	12/3/2023	1:45 AM	40.1	41	40.1	48	22	5	NE	1.25	10	ENE	32.392	0	0
364	12/3/2023	2:00 AM	38.7	40.1	38.7	47	20.2	3	NNE	0.75	7	NNE	32.381	0	0
365	12/3/2023	2:15 AM	38.1	38.7	37.9	47	19.6	4	NNE	1	11	NNE	32.378	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
366	12/3/2023	2:30 AM	38.1	38.3	37.9	48	20.1	4	NE	1	12	NE	32.377	0	0
367	12/3/2023	2:45 AM	37.1	38	37.1	49	19.7	2	NE	0.5	4	NE	32.38	0	0
368	12/3/2023	3:00 AM	35.7	37.1	35.7	52	19.8	1	NE	0.25	3	NE	32.378	0	0
369	12/3/2023	3:15 AM	34.4	35.7	34.4	53	19	2	NNE	0.5	4	N	32.361	0	0
370	12/3/2023	3:30 AM	33.6	34.4	33.5	54	18.7	2	N	0.5	4	NNE	32.351	0	0
371	12/3/2023	3:45 AM	33.1	33.8	33.1	56	19.1	3	N	0.75	4	N	32.348	0	0
372	12/3/2023	4:00 AM	32.9	33.3	32.9	57	19.3	3	N	0.75	5	NNW	32.336	0	0
373	12/3/2023	4:15 AM	33.1	33.2	32.7	58	19.9	0	N	0	2	N	32.333	0	0
374	12/3/2023	4:30 AM	31.5	33.1	31.5	60	19.2	2	SW	0.5	5	SW	32.332	0	0
375	12/3/2023	4:45 AM	31.6	31.8	30.9	60	19.3	2	SW	0.5	5	SW	32.341	0	0
376	12/3/2023	5:00 AM	30.9	33	30.7	62	19.4	1	SW	0.25	4	SSW	32.343	0	0
377	12/3/2023	5:15 AM	29.1	31.1	29.1	63	18.1	2	SSE	0.5	4	W	32.363	0	0
378	12/3/2023	5:30 AM	33.9	33.9	29.1	64	23	3	SSE	0.75	9	SW	32.366	0	0
379	12/3/2023	5:45 AM	39.2	39.2	34	62	27.3	10	SE	2.5	18	SE	32.387	0	0
380	12/3/2023	6:00 AM	40.4	40.6	39.2	61	28	13	SSE	3.25	25	SE	32.409	0	0
381	12/3/2023	6:15 AM	37.5	40.4	37.5	73	29.6	11	SSE	2.75	22	SSE	32.428	0	0
382	12/3/2023	6:30 AM	35.8	37.5	35.8	79	29.9	9	SE	2.25	15	SSE	32.438	0	0
383	12/3/2023	6:45 AM	35.2	35.8	35.2	81	30	5	SE	1.25	10	SE	32.44	0	0
384	12/3/2023	7:00 AM	35.4	35.4	35.2	81	30.1	4	ENE	1	7	ENE	32.44	0	0
385	12/3/2023	7:15 AM	36	36	35.5	79	30.1	4	E	1	9	ENE	32.462	0	0
386	12/3/2023	7:30 AM	35.9	36.1	35.9	79	30	3	ESE	0.75	7	SSW	32.483	0	0
387	12/3/2023	7:45 AM	35.4	35.9	35.4	78	29.2	4	SSW	1	9	SSW	32.49	0	0
388	12/3/2023	8:00 AM	34.9	35.4	34.8	76	28.1	3	WSW	0.75	11	WSW	32.499	0	0
389	12/3/2023	8:15 AM	34.7	34.9	34.7	73	26.9	3	WSW	0.75	7	SW	32.498	0	0
390	12/3/2023	8:30 AM	34.4	34.7	34.4	71	26	3	WSW	0.75	6	SW	32.498	0	0
391	12/3/2023	8:45 AM	34.5	34.5	34.4	71	26.1	3	WSW	0.75	6	S	32.498	0	0
392	12/3/2023	9:00 AM	34.4	34.5	34.4	71	26	4	SSW	1	8	S	32.498	0	0
393	12/3/2023	9:15 AM	35.1	35.1	34.4	71	26.6	7	SSE	1.75	14	SSE	32.498	0	0
394	12/3/2023	9:30 AM	35.1	35.1	34.9	68	25.6	5	S	1.25	9	SSW	32.498	0	0
395	12/3/2023	9:45 AM	34.9	35.1	34.9	73	27.1	4	SSE	1	7	SE	32.498	0	0
396	12/3/2023	10:00 AM	35	35	34.9	74	27.5	2	S	0.5	4	ESE	32.498	0	0
397	12/3/2023	10:15 AM	35	35.1	35	69	25.9	1	W	0.25	3	SSW	32.498	0	0
398	12/3/2023	10:30 AM	35.1	35.2	35	69	25.9	1	W	0.25	2	W	32.498	0	0
399	12/3/2023	10:45 AM	35.5	35.5	35.1	62	23.8	0	NW	0	1	NW	32.498	0	0
400	12/3/2023	11:00 AM	35.8	35.9	35.5	61	23.7	1	NW	0.25	2	NW	32.498	0	0
401	12/3/2023	11:15 AM	36.4	36.4	35.8	63	25	0	NW	0	2	NW	32.498	0	0
402	12/3/2023	11:30 AM	36.3	36.6	36.3	66	26	1	WNW	0.25	4	WNW	32.498	0	0
403	12/3/2023	11:45 AM	37.5	37.5	36.3	66	27.2	1	NNW	0.25	4	NNE	32.498	0	0
404	12/3/2023	12:00 PM	38.5	38.6	37.5	64	27.4	2	NNW	0.5	6	ENE	32.498	0	0
405	12/3/2023	12:15 PM	38.4	38.5	38.3	63	26.9	4	NNE	1	8	NNE	32.498	0	0
406	12/3/2023	12:30 PM	38.4	38.5	38.2	62	26.5	5	NNE	1.25	10	N	32.498	0	0
407	12/3/2023	12:45 PM	38.9	38.9	38.4	59	25.8	3	NNW	0.75	9	N	32.498	0	0
408	12/3/2023	1:00 PM	39.5	39.6	38.9	61	27.2	5	NNW	1.25	11	N	32.498	0	0
409	12/3/2023	1:15 PM	40.1	40.1	39.4	59	26.9	4	NNW	1	8	NNE	32.498	0	0
410	12/3/2023	1:30 PM	40.3	40.3	40	59	27.1	4	N	1	10	N	32.498	0	0
411	12/3/2023	1:45 PM	40.1	40.3	40.1	58	26.5	6	N	1.5	10	NNE	32.498	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
412	12/3/2023	2:00 PM	40	40.1	39.9	57	26	5	NNW	1.25	10	N	32.498	0	0
413	12/3/2023	2:15 PM	39.9	40.1	39.9	56	25.5	5	NNW	1.25	10	NNE	32.498	0	0
414	12/3/2023	2:30 PM	39.9	40	39.9	56	25.5	4	NW	1	7	N	32.498	0	0
415	12/3/2023	2:45 PM	40	40	39.9	55	25.1	3	NNW	0.75	6	N	32.498	0	0
416	12/3/2023	3:00 PM	39.9	40	39.9	55	25	3	NW	0.75	6	NW	32.498	0	0
417	12/3/2023	3:15 PM	40	40	39.8	55	25.1	2	NW	0.5	5	NW	32.498	0	0
418	12/3/2023	3:30 PM	40.1	40.1	40	54	24.8	2	NW	0.5	4	NNW	32.498	0	0
419	12/3/2023	3:45 PM	39.5	40.1	39.5	54	24.2	1	NW	0.25	3	W	32.498	0	0
420	12/3/2023	4:00 PM	38.7	39.5	38.7	55	23.9	1	WNW	0.25	3	WNW	32.498	0	0
421	12/3/2023	4:15 PM	37.6	38.7	37.6	56	23.3	1	NW	0.25	3	WNW	32.498	0	0
422	12/3/2023	4:30 PM	36	37.7	36	57	22.2	1	WNW	0.25	3	WNW	32.498	0	0
423	12/3/2023	4:45 PM	34.7	36	34.7	57	21	0	NW	0	3	NW	32.498	0	0
424	12/3/2023	5:00 PM	34.1	34.7	34.1	58	20.9	1	NW	0.25	4	NW	32.498	0	0
425	12/3/2023	5:15 PM	33.7	34.1	33.6	59	20.9	2	NW	0.5	4	NW	32.498	0	0
426	12/3/2023	5:30 PM	33.2	33.8	33.2	59	20.4	1	NNW	0.25	4	NNW	32.498	0	0
427	12/3/2023	5:45 PM	33.2	33.3	32.9	58	20	2	NW	0.5	4	NNW	32.498	0	0
428	12/3/2023	6:00 PM	33.5	33.5	33.1	57	19.9	3	NW	0.75	7	NW	32.498	0	0
429	12/3/2023	6:15 PM	33.9	33.9	33.5	57	20.3	4	NW	1	7	NW	32.498	0	0
430	12/3/2023	6:30 PM	33.5	33.9	33.5	58	20.3	2	NW	0.5	4	NNW	32.498	0	0
431	12/3/2023	6:45 PM	33	33.6	32.9	58	19.8	2	NW	0.5	6	NNW	32.498	0	0
432	12/3/2023	7:00 PM	35.1	35.2	33.1	54	20.1	4	NW	1	9	N	32.498	0	0
433	12/3/2023	7:15 PM	34.4	35.1	34.4	54	19.5	1	NNW	0.25	4	N	32.498	0	0
434	12/3/2023	7:30 PM	33.1	34.4	33.1	57	19.5	2	NNW	0.5	3	NNW	32.498	0	0
435	12/3/2023	7:45 PM	32.1	33.1	32.1	59	19.4	1	NW	0.25	2	NW	32.498	0	0
436	12/3/2023	8:00 PM	31.2	32.1	31.2	60	18.9	1	NW	0.25	2	NW	32.498	0	0
437	12/3/2023	8:15 PM	29.1	31.1	29	63	18.1	1	NW	0.25	3	N	32.498	0	0
438	12/3/2023	8:30 PM	30.1	30.2	29.1	64	19.4	1	NW	0.25	3	NNW	32.498	0	0
439	12/3/2023	8:45 PM	30.3	30.3	29.9	65	19.9	1	NNW	0.25	1	NNW	32.498	0	0
440	12/3/2023	9:00 PM	30.2	30.8	30.2	65	19.8	1	NW	0.25	2	NW	32.498	0	0
441	12/3/2023	9:15 PM	30.3	30.3	29.6	69	21.3	1	NE	0.25	5	NNW	32.498	0	0
442	12/3/2023	9:30 PM	32.9	32.9	30.3	66	22.8	4	NNW	1	9	N	32.498	0	0
443	12/3/2023	9:45 PM	32.9	33.4	32.9	67	23.1	4	N	1	9	NNE	32.498	0	0
444	12/3/2023	10:00 PM	32.5	32.9	32.5	67	22.8	3	NNW	0.75	8	N	32.498	0	0
445	12/3/2023	10:15 PM	32.2	32.5	32.1	68	22.8	2	NW	0.5	7	N	32.498	0	0
446	12/3/2023	10:30 PM	32.5	32.7	32.1	67	22.8	3	NNE	0.75	7	NNE	32.498	0	0
447	12/3/2023	10:45 PM	32.5	32.6	32.4	68	23.1	7	NNW	1.75	13	NNW	32.498	0	0
448	12/4/2023	11:00 PM	32.8	32.9	32.5	69	23.7	6	NE	1.5	16	N	32.498	0	0
449	12/4/2023	11:15 PM	32.7	32.9	32.7	70	24	5	NNE	1.25	12	NNE	32.498	0	0
450	12/4/2023	11:30 PM	32.4	32.7	32.4	72	24.4	4	NNE	1	8	ESE	32.498	0	0
451	12/4/2023	11:45 PM	32.8	32.8	32.4	72	24.8	3	NNW	0.75	10	N	32.498	0	0
452	12/4/2023	12:00 AM	32.8	32.9	32.7	71	24.4	3	E	0.75	8	N	32.498	0	0
453	12/4/2023	12:15 AM	32.4	32.8	32.3	72	24.4	3	NNE	0.75	6	NNE	32.498	0	0
454	12/4/2023	12:30 AM	31.4	32.4	31.4	73	23.7	0	NW	0	3	NE	32.498	0	0
455	12/4/2023	12:45 AM	28.8	31.4	28.8	77	22.5	1	W	0.25	3	W	32.498	0	0
456	12/4/2023	1:00 AM	27.4	28.8	27	80	22	1	N	0.25	4	N	32.498	0	0
457	12/4/2023	1:15 AM	29.7	29.7	27.4	77	23.4	2	NNW	0.5	5	ESE	32.498	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
458	12/4/2023	1:30 AM	26.2	29.9	26.2	79	20.6	1	WSW	0.25	5	SSW	32.498	0	0
459	12/4/2023	1:45 AM	27.8	27.8	25.7	79	22.1	2	NNW	0.5	6	NNW	32.498	0	0
460	12/4/2023	2:00 AM	30.2	30.2	27.8	75	23.2	2	NE	0.5	7	ESE	32.498	0	0
461	12/4/2023	2:15 AM	30.7	30.7	30.2	73	23.1	4	NNW	1	8	N	32.498	0	0
462	12/4/2023	2:30 AM	31	31	30.6	72	23	3	N	0.75	6	N	32.498	0	0
463	12/4/2023	2:45 AM	31	31.2	31	72	23	2	NNW	0.5	6	N	32.498	0	0
464	12/4/2023	3:00 AM	29.1	31	29.1	73	21.5	1	NNE	0.25	3	NNE	32.498	0	0
465	12/4/2023	3:15 AM	27.8	29.3	27.8	76	21.2	2	WNW	0.5	4	WSW	32.498	0	0
466	12/4/2023	3:30 AM	26.9	27.8	26.9	77	20.7	1	NNW	0.25	4	WNW	32.498	0	0
467	12/4/2023	3:45 AM	27.7	27.8	26.9	76	21.1	2	NW	0.5	4	WNW	32.498	0	0
468	12/4/2023	4:00 AM	27.7	27.9	27.7	76	21.1	1	NNW	0.25	3	WNW	32.498	0	0
469	12/4/2023	4:15 AM	26.4	27.7	26.4	78	20.5	1	NNW	0.25	2	NNW	32.498	0	0
470	12/4/2023	4:30 AM	27.4	27.4	26	78	21.4	0	NNW	0	2	NNW	32.498	0	0
471	12/4/2023	4:45 AM	29	29	27.4	77	22.7	1	NNW	0.25	3	NNW	32.498	0	0
472	12/4/2023	5:00 AM	29.1	29.4	29	76	22.5	2	NNW	0.5	5	NW	32.498	0	0
473	12/4/2023	5:15 AM	28	29.1	27.9	77	21.7	0	NNW	0	2	NNW	32.498	0	0
474	12/4/2023	5:30 AM	30.9	30.9	28	74	23.6	2	NNE	0.5	6	NNE	32.498	0	0
475	12/4/2023	5:45 AM	32	32.1	30.9	72	24	2	NNE	0.5	7	NE	32.498	0	0
476	12/4/2023	6:00 AM	32.7	32.7	32	71	24.3	2	NNE	0.5	4	N	32.498	0	0
477	12/4/2023	6:15 AM	36.8	36.8	32.7	66	26.5	3	NNW	0.75	9	NNE	32.498	0	0
478	12/4/2023	6:30 AM	37.1	37.7	36.8	64	26	6	NNE	1.5	12	NNE	32.498	0	0
479	12/4/2023	6:45 AM	38.5	38.7	37.1	61	26.2	5	NNE	1.25	11	NE	32.498	0	0
480	12/4/2023	7:00 AM	38	38.7	37.9	62	26.1	5	NNE	1.25	10	N	32.498	0	0
481	12/4/2023	7:15 AM	40.2	40.2	38	59	27	6	NNE	1.5	10	NNE	32.498	0	0
482	12/4/2023	7:30 AM	40.8	41.4	40.2	57	26.7	4	NNW	1	16	NE	32.498	0	0
483	12/4/2023	7:45 AM	42.8	42.8	40.8	55	27.7	3	WNW	0.75	5	WNW	32.498	0	0
484	12/4/2023	8:00 AM	42.7	42.8	42.4	56	28.1	1	NNE	0.25	3	NE	32.498	0	0
485	12/4/2023	8:15 AM	43.7	44.9	42.7	57	29.5	2	NE	0.5	5	WSW	32.498	0	0
486	12/4/2023	8:30 AM	48.2	49.1	43.4	51	30.9	3	SSE	0.75	10	E	32.498	0	0
487	12/4/2023	8:45 AM	50.4	50.4	47.5	49	31.9	1	NE	0.25	4	NE	32.498	0	0
488	12/4/2023	9:00 AM	51	52.3	50.5	48	32	4	NNE	1	12	N	32.498	0	0
489	12/4/2023	9:15 AM	48.2	50.9	48.2	49	29.9	6	NNW	1.5	13	N	32.498	0	0
490	12/4/2023	9:30 AM	48.5	48.5	48.1	48	29.7	4	NW	1	7	N	32.498	0	0
491	12/4/2023	9:45 AM	49.6	49.6	48.5	48	30.7	3	NW	0.75	9	N	32.498	0	0
492	12/4/2023	10:00 AM	52.5	52.5	49.7	44	31.2	3	NW	0.75	9	SSW	32.498	0	0
493	12/4/2023	10:15 AM	53.8	54.1	52.6	43	31.8	3	NE	0.75	7	N	32.498	0	0
494	12/4/2023	10:30 AM	56.6	56.6	53.9	40	32.5	3	NNW	0.75	9	N	32.498	0	0
495	12/4/2023	10:45 AM	55.8	56.6	55.8	40	31.8	3	ENE	0.75	8	ENE	32.498	0	0
496	12/4/2023	11:00 AM	55.3	55.7	54.9	42	32.6	4	ESE	1	9	ESE	32.498	0	0
497	12/4/2023	11:15 AM	56.4	56.4	55.3	42	33.6	8	ENE	2	19	NE	32.498	0	0
498	12/4/2023	11:30 AM	58.1	58.2	56.4	41	34.5	11	E	2.75	21	ENE	32.498	0	0
499	12/4/2023	11:45 AM	57.2	58.1	57.2	42	34.3	15	E	3.75	29	E	32.498	0	0
500	12/4/2023	12:00 PM	57.7	57.7	57.1	42	34.7	14	E	3.5	25	E	32.498	0	0
501	12/4/2023	12:15 PM	57.8	58	57.7	43	35.4	14	E	3.5	27	E	32.498	0	0
502	12/4/2023	12:30 PM	57.8	57.8	57.5	43	35.4	13	E	3.25	28	E	32.498	0	0
503	12/4/2023	12:45 PM	57.8	57.9	57.7	43	35.4	12	E	3	22	E	32.498	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
504	12/4/2023	1:00 PM	58.3	58.5	57.8	42	35.3	11	E	2.75	20	E	32.498	0	0
505	12/4/2023	1:15 PM	57.9	58.4	57.9	42	34.9	11	ENE	2.75	20	ENE	32.498	0	0
506	12/4/2023	1:30 PM	57.4	57.9	57.4	43	35.1	9	ENE	2.25	19	NE	32.498	0	0
507	12/4/2023	1:45 PM	57.1	57.4	57	43	34.8	6	ENE	1.5	16	ENE	32.498	0	0
508	12/4/2023	2:00 PM	57	57.2	56.9	43	34.7	7	ENE	1.75	13	ENE	32.498	0	0
509	12/4/2023	2:15 PM	56.7	57	56.7	43	34.4	7	NE	1.75	14	ENE	32.498	0	0
510	12/4/2023	2:30 PM	57.2	57.2	56.7	43	34.9	5	ENE	1.25	12	ENE	32.498	0	0
511	12/4/2023	2:45 PM	56.6	57.2	56.6	44	34.9	7	ENE	1.75	14	ENE	32.498	0	0
512	12/4/2023	3:00 PM	55.4	56.5	55.4	45	34.4	5	ENE	1.25	13	ENE	32.498	0	0
513	12/4/2023	3:15 PM	54.8	55.4	54.8	45	33.8	1	NE	0.25	4	ENE	32.498	0	0
514	12/4/2023	3:30 PM	53.8	54.8	53.8	47	34	2	ENE	0.5	6	SE	32.498	0	0
515	12/4/2023	3:45 PM	53.7	53.9	53.7	46	33.4	4	SE	1	8	SE	32.498	0	0
516	12/4/2023	4:00 PM	52.6	53.7	52.6	46	32.4	2	SE	0.5	4	ESE	32.498	0	0
517	12/4/2023	4:15 PM	52.4	52.6	52.4	47	32.7	2	NE	0.5	6	ENE	32.498	0	0
518	12/4/2023	4:30 PM	51.7	52.5	51.7	48	32.6	2	NE	0.5	6	ENE	32.498	0	0
519	12/4/2023	4:45 PM	51.7	51.7	51.3	49	33.1	4	ENE	1	10	ENE	32.498	0	0
520	12/4/2023	5:00 PM	51.8	52	51.7	48	32.7	7	E	1.75	15	ESE	32.498	0	0
521	12/4/2023	5:15 PM	51.2	51.8	51.2	49	32.7	5	E	1.25	11	ESE	32.498	0	0
522	12/4/2023	5:30 PM	50.7	51.2	50.7	49	32.2	3	E	0.75	9	ESE	32.498	0	0
523	12/4/2023	5:45 PM	49.5	50.7	49.4	50	31.6	2	W	0.5	4	WSW	32.498	0	0
524	12/4/2023	6:00 PM	47.3	49.7	47.3	52	30.5	1	W	0.25	3	W	32.498	0	0
525	12/4/2023	6:15 PM	45.6	47.5	45.6	54	29.9	0	N	0	1	NNW	32.498	0	0
526	12/4/2023	6:30 PM	44	45.8	44	55	28.9	0	NNW	0	1	N	32.498	0	0
527	12/4/2023	6:45 PM	43.5	44	42.7	57	29.3	1	NNW	0.25	2	NNW	32.498	0	0
528	12/4/2023	7:00 PM	45.1	45.1	42.6	56	30.3	0	WNW	0	3	WNW	32.498	0	0
529	12/4/2023	7:15 PM	39.4	45.3	39.4	69	30.1	4	WNW	1	11	WNW	32.498	0	0
530	12/4/2023	7:30 PM	38.6	39.4	38.6	72	30.4	6	W	1.5	14	W	32.498	0	0
531	12/4/2023	7:45 PM	37.7	38.6	37.7	74	30.2	6	WNW	1.5	15	W	32.498	0	0
532	12/4/2023	8:00 PM	36.9	37.7	36.9	75	29.7	4	WNW	1	9	W	32.498	0	0
533	12/4/2023	8:15 PM	36.5	36.9	36.5	76	29.7	4	WNW	1	9	W	32.498	0	0
534	12/4/2023	8:30 PM	36	36.5	36	76	29.2	3	NW	0.75	10	NW	32.498	0	0
535	12/4/2023	8:45 PM	34.9	36.1	34.9	77	28.4	2	NW	0.5	7	WNW	32.498	0	0
536	12/4/2023	9:00 PM	33.2	34.9	33.2	78	27.1	1	NW	0.25	3	E	32.498	0	0
537	12/4/2023	9:15 PM	32.9	33.1	32.3	81	27.7	1	S	0.25	3	SSW	32.498	0	0
538	12/4/2023	9:30 PM	32.4	32.9	32.4	82	27.5	0	NNW	0	2	WNW	32.498	0	0
539	12/4/2023	9:45 PM	31.4	32.4	31.3	83	26.8	1	NNE	0.25	5	WNW	32.498	0	0
540	12/4/2023	10:00 PM	31.5	32.2	31.4	82	26.6	0	NNW	0	4	NW	32.498	0	0
541	12/4/2023	10:15 PM	30.6	31.5	30.5	84	26.3	0	NNW	0	1	NNW	32.498	0	0
542	12/4/2023	10:30 PM	30.8	30.8	30.3	85	26.8	0	NNW	0	1	NNW	32.498	0	0
543	12/4/2023	10:45 PM	30.3	30.8	30.3	84	26	0	NNW	0	2	NW	32.498	0	0
544	12/5/2023	11:00 PM	29.1	30.3	29.1	85	25.2	1	NW	0.25	5	E	32.498	0	0
545	12/5/2023	11:15 PM	29	29.1	28.6	87	25.6	1	NNW	0.25	2	NW	32.498	0	0
546	12/5/2023	11:30 PM	29	29.1	28.7	86	25.3	1	NNW	0.25	3	N	32.498	0	0
547	12/5/2023	11:45 PM	29.5	29.5	28.8	87	26.1	1	NNW	0.25	2	NNW	32.498	0	0
548	12/5/2023	12:00 AM	30	30.1	29.6	85	26	0	NNW	0	1	NNW	32.498	0	0
549	12/5/2023	12:15 AM	28.5	30	28.5	86	24.8	0	NNW	0	1	NNW	32.498	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
550	12/5/2023	12:30 AM	28.3	29.2	28.3	84	24.1	0	---	0	0	---	32.498	0	0
551	12/5/2023	12:45 AM	26.9	28.3	26.9	87	23.5	0	---	0	0	---	32.498	0	0
552	12/5/2023	1:00 AM	26.2	26.9	25.7	89	23.4	0	---	0	0	---	32.498	0	0
553	12/5/2023	1:15 AM	25.5	26.3	25.5	87	22.2	0	NNW	0	1	NNW	32.498	0	0
554	12/5/2023	1:30 AM	25.4	25.8	25.4	89	22.6	0	NW	0	1	NW	32.498	0	0
555	12/5/2023	1:45 AM	24.7	25.6	24.2	89	21.9	0	NW	0	1	NW	32.498	0	0
556	12/5/2023	2:00 AM	24.3	24.9	24	89	21.5	0	NNW	0	1	NNW	32.498	0	0
557	12/5/2023	2:15 AM	24.8	25.4	24.3	87	21.5	0	NNW	0	2	WNW	32.498	0	0
558	12/5/2023	2:30 AM	24.4	24.8	24.4	88	21.4	0	NNW	0	1	NNW	32.498	0	0
559	12/5/2023	2:45 AM	24.2	25.1	24.2	86	20.6	0	NNW	0	1	NNW	32.498	0	0
560	12/5/2023	3:00 AM	26.7	27.1	24.2	82	21.9	1	NNW	0.25	2	NNW	32.498	0	0
561	12/5/2023	3:15 AM	27.5	27.5	26.5	83	23	0	NNW	0	2	NNW	32.498	0	0
562	12/5/2023	3:30 AM	30.1	30.1	27.3	79	24.4	1	NNW	0.25	5	N	32.498	0	0
563	12/5/2023	3:45 AM	30.2	30.6	30.1	77	23.9	1	NNW	0.25	3	NNW	32.498	0	0
564	12/5/2023	4:00 AM	29.5	30.2	29	79	23.8	1	NNW	0.25	5	N	32.498	0	0
565	12/5/2023	4:15 AM	29.7	30.1	29.5	78	23.7	2	NNW	0.5	5	ESE	32.498	0	0
566	12/5/2023	4:30 AM	28.8	29.7	28.8	77	22.5	0	NNW	0	1	ESE	32.498	0	0
567	12/5/2023	4:45 AM	28.7	28.7	28	80	23.3	1	NNW	0.25	2	NNW	32.498	0	0
568	12/5/2023	5:00 AM	27.7	29.3	27.7	78	21.7	0	NNW	0	1	NNW	32.498	0	0
569	12/5/2023	5:15 AM	29.1	29.1	27.3	80	23.7	3	SW	0.75	8	SW	32.498	0	0
570	12/5/2023	5:30 AM	25.4	29.1	25.4	80	20.1	0	N	0	1	N	32.498	0	0
571	12/5/2023	5:45 AM	24.1	25.4	24.1	83	19.7	0	N	0	1	N	32.498	0	0
572	12/5/2023	6:00 AM	24.9	24.9	24	87	21.6	0	---	0	0	---	32.498	0	0
573	12/5/2023	6:15 AM	25.1	25.8	24.9	84	20.9	0	NNW	0	1	NNW	32.498	0	0
574	12/5/2023	6:30 AM	24.4	25.2	24.4	83	20	0	NNW	0	1	NNW	32.498	0	0
575	12/5/2023	6:45 AM	23.7	24.4	23.5	85	19.9	0	NNW	0	2	WNW	32.498	0	0
576	12/5/2023	7:00 AM	25	26	23.7	80	19.7	1	W	0.25	3	W	32.498	0	0
577	12/5/2023	7:15 AM	23.8	25	23.7	84	19.7	0	---	0	0	---	32.498	0	0
578	12/5/2023	7:30 AM	23.4	23.8	23.2	85	19.6	0	---	0	0	---	32.498	0	0
579	12/5/2023	7:45 AM	25	25	23.3	84	20.8	0	---	0	0	---	32.498	0	0
580	12/5/2023	8:00 AM	29.3	29.3	25	81	24.2	0	NNW	0	2	NNW	32.498	0	0
581	12/5/2023	8:15 AM	32.9	32.9	29.4	79	27.1	0	NNW	0	1	NNW	32.498	0	0
582	12/5/2023	8:30 AM	36.3	36.3	33	73	28.5	1	NNE	0.25	2	NE	32.498	0	0
583	12/5/2023	8:45 AM	40.4	40.4	36.4	69	31	0	NNE	0	2	NNE	32.498	0	0
584	12/5/2023	9:00 AM	45.2	45.2	40.4	62	32.9	1	NW	0.25	3	NW	32.498	0	0
585	12/5/2023	9:15 AM	49.1	49.1	45.3	54	33.2	3	N	0.75	7	N	32.498	0	0
586	12/5/2023	9:30 AM	51.3	51.3	49.1	52	34.3	4	N	1	7	N	32.498	0	0
587	12/5/2023	9:45 AM	53.2	53.2	51.3	49	34.5	5	N	1.25	9	N	32.498	0	0
588	12/5/2023	10:00 AM	54.5	54.5	53.2	48	35.2	4	N	1	7	N	32.498	0	0
589	12/5/2023	10:15 AM	56.3	56.3	54.5	46	35.8	3	NNW	0.75	5	N	32.498	0	0
590	12/5/2023	10:30 AM	57.5	57.5	56.3	45	36.3	2	NNW	0.5	4	N	32.498	0	0
591	12/5/2023	10:45 AM	59.7	59.7	57.5	43	37.2	2	N	0.5	4	N	32.498	0	0
592	12/5/2023	11:00 AM	60.7	60.7	59.7	42	37.5	2	NNE	0.5	4	NNE	32.498	0	0
593	12/5/2023	11:15 AM	62	62	60.8	41	38	2	NE	0.5	5	ENE	32.498	0	0
594	12/5/2023	11:30 AM	62.4	62.4	62	40	37.7	2	NE	0.5	6	ENE	32.498	0	0
595	12/5/2023	11:45 AM	62.7	62.8	62.2	40	38	3	ENE	0.75	8	ESE	32.498	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
596	12/5/2023	12:00 PM	63.5	63.5	62.7	40	38.7	2	ENE	0.5	6	E	32.498	0	0
597	12/5/2023	12:15 PM	64.1	64.1	63.6	40	39.3	2	E	0.5	7	ESE	32.498	0	0
598	12/5/2023	12:30 PM	64.6	64.8	64.2	39	39.1	2	ENE	0.5	5	ENE	32.498	0	0
599	12/5/2023	12:45 PM	65.9	66	64.6	38	39.6	1	NNE	0.25	6	NNE	32.498	0	0
600	12/5/2023	1:00 PM	65.7	65.9	65.6	39	40.1	2	E	0.5	5	E	32.498	0	0
601	12/5/2023	1:15 PM	65.8	65.8	65.5	39	40.1	1	ENE	0.25	4	ENE	32.498	0	0
602	12/5/2023	1:30 PM	66.9	66.9	65.9	38	40.5	1	E	0.25	4	ENE	32.498	0	0
603	12/5/2023	1:45 PM	67.3	67.3	66.9	38	40.8	2	NNW	0.5	5	N	32.498	0	0
604	12/5/2023	2:00 PM	66.8	67.5	66.8	38	40.4	2	E	0.5	7	E	32.498	0	0
605	12/5/2023	2:15 PM	65.1	66.8	65.1	44	42.6	6	SSE	1.5	10	SSE	32.498	0	0
606	12/5/2023	2:30 PM	64.5	65.2	64.5	45	42.7	6	SSE	1.5	8	SSE	32.498	0	0
607	12/5/2023	2:45 PM	64.1	64.6	64.1	44	41.7	6	SSE	1.5	9	SSE	32.498	0	0
608	12/5/2023	3:00 PM	64.1	64.1	64	43	41.1	4	SSE	1	6	SSE	32.498	0	0
609	12/5/2023	3:15 PM	64	64.1	63.9	43	41	3	S	0.75	7	SW	32.498	0	0
610	12/5/2023	3:30 PM	63.6	64	63.6	43	40.7	3	WSW	0.75	5	SW	32.498	0	0
611	12/5/2023	3:45 PM	63	63.6	63	43	40.1	2	SSW	0.5	4	SSW	32.498	0	0
612	12/5/2023	4:00 PM	62.4	63	62.4	43	39.6	2	WSW	0.5	5	SW	32.498	0	0
613	12/5/2023	4:15 PM	60.8	62.4	60.8	44	38.7	0	WSW	0	3	WSW	32.498	0	0
614	12/5/2023	4:30 PM	57.9	60.8	57.9	46	37.2	0	---	0	0	---	32.498	0	0
615	12/5/2023	4:45 PM	54.2	57.8	54.2	49	35.4	0	---	0	0	---	32.498	0	0
616	12/5/2023	5:00 PM	54.3	54.3	53.6	50	36	0	NW	0	2	NW	32.498	0	0
617	12/5/2023	5:15 PM	53.6	55.1	53.6	50	35.4	1	WNW	0.25	3	WNW	32.498	0	0
618	12/5/2023	5:30 PM	52.8	53.6	52.7	51	35.2	1	WNW	0.25	2	WNW	32.498	0	0
619	12/5/2023	5:45 PM	51.4	52.7	51.4	52	34.3	2	WNW	0.5	5	SW	32.498	0	0
620	12/5/2023	6:00 PM	46.5	51.4	46.5	56	31.6	0	NNE	0	2	NNE	32.498	0	0
621	12/5/2023	6:15 PM	43.4	46.4	43.4	60	30.4	0	---	0	0	---	32.498	0	0
622	12/5/2023	6:30 PM	42.4	43.4	42.3	61	29.9	0	NNE	0	1	NNE	32.498	0	0
623	12/5/2023	6:45 PM	41.3	42.4	41.3	61	28.9	0	---	0	0	---	32.498	0	0
624	12/5/2023	7:00 PM	41.1	41.5	40.8	62	29.1	0	N	0	1	NNE	32.498	0	0
625	12/5/2023	7:15 PM	41.3	41.6	41.1	62	29.3	0	N	0	1	N	32.498	0	0
626	12/5/2023	7:30 PM	39.8	41.3	39.7	64	28.6	0	---	0	0	---	32.498	0	0
627	12/5/2023	7:45 PM	39	41.7	39	64	27.8	0	NE	0	3	NE	32.498	0	0
628	12/5/2023	8:00 PM	38.1	39	38	65	27.4	0	NNW	0	1	NNW	32.498	0	0
629	12/5/2023	8:15 PM	39.7	39.7	37.2	65	28.9	1	NW	0.25	3	NW	32.498	0	0
630	12/5/2023	8:30 PM	38.6	39.9	38.6	65	27.8	1	NNW	0.25	2	NNW	32.498	0	0
631	12/5/2023	8:45 PM	40.1	40.8	38.5	64	28.9	2	NNW	0.5	3	N	32.498	0	0
632	12/5/2023	9:00 PM	41.4	41.4	39.7	63	29.7	2	NNW	0.5	3	NNW	32.498	0	0
633	12/5/2023	9:15 PM	42.7	42.7	41.4	61	30.2	2	N	0.5	3	N	32.498	0	0
634	12/5/2023	9:30 PM	41.6	42.7	41.6	62	29.5	2	NNW	0.5	3	NNW	32.498	0	0
635	12/5/2023	9:45 PM	40.7	41.6	40.7	63	29.1	1	NNW	0.25	3	NNW	32.498	0	0
636	12/5/2023	10:00 PM	40.6	41.6	40.6	63	29	1	NNW	0.25	3	NNW	32.498	0	0
637	12/5/2023	10:15 PM	39.1	41.3	39.1	64	27.9	1	NNW	0.25	2	NNW	32.498	0	0
638	12/5/2023	10:30 PM	39.3	39.8	39	65	28.5	1	NNW	0.25	2	NNW	32.498	0	0
639	12/5/2023	10:45 PM	40.7	40.7	39.3	62	28.7	2	NNE	0.5	4	N	32.498	0	0
640	12/6/2023	11:00 PM	40.8	41.2	40.7	61	28.4	2	NNW	0.5	4	N	32.498	0	0
641	12/6/2023	11:15 PM	40.6	40.8	40.4	62	28.6	1	NNE	0.25	2	NNE	32.498	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
642	12/6/2023	11:30 PM	40.2	40.6	40.2	63	28.6	1	N	0.25	3	NNW	32.498	0	0
643	12/6/2023	11:45 PM	39.9	40.2	39.9	63	28.3	1	N	0.25	3	N	32.498	0	0
644	12/6/2023	12:00 AM	39.4	39.9	39.4	63	27.8	1	N	0.25	3	NNW	32.498	0	0
645	12/6/2023	12:15 AM	38.5	39.4	38.3	65	27.7	2	NNW	0.5	3	NNW	32.498	0	0
646	12/6/2023	12:30 AM	38.5	38.9	38.4	64	27.4	2	NNW	0.5	4	NNW	32.498	0	0
647	12/6/2023	12:45 AM	36.8	38.4	36.8	66	26.5	0	NNW	0	2	NNW	32.498	0	0
648	12/6/2023	1:00 AM	35.1	36.8	35.1	68	25.6	0	---	0	0	---	32.498	0	0
649	12/6/2023	1:15 AM	35.6	35.6	34.9	69	26.4	0	---	0	0	---	32.498	0	0
650	12/6/2023	1:30 AM	35.8	36.5	35.6	67	25.9	0	NNW	0	2	NNW	32.498	0	0
651	12/6/2023	1:45 AM	35.2	35.8	34.5	69	26	0	NNW	0	1	NNW	32.498	0	0
652	12/6/2023	2:00 AM	32.1	35.3	32.1	71	23.8	0	NNW	0	1	NNW	32.498	0	0
653	12/6/2023	2:15 AM	30.7	32	30.7	74	23.4	0	NNW	0	1	NNW	32.498	0	0
654	12/6/2023	2:30 AM	29.2	30.7	29.2	77	22.9	0	NNW	0	1	NNW	32.498	0	0
655	12/6/2023	2:45 AM	31.9	31.9	29.2	76	25.2	0	NNW	0	2	NNW	32.498	0	0
656	12/6/2023	3:00 AM	31.8	32.9	31.8	71	23.5	0	NNW	0	1	NNW	32.498	0	0
657	12/6/2023	3:15 AM	29.7	31.8	29.6	78	23.7	0	---	0	0	---	32.498	0	0
658	12/6/2023	3:30 AM	32.5	32.5	29.7	74	25.1	0	NNW	0	2	NNW	32.498	0	0
659	12/6/2023	3:45 AM	29.9	32.7	29.9	74	22.6	0	NNW	0	1	NNW	32.498	0	0
660	12/6/2023	4:00 AM	29.2	29.9	28.6	75	22.3	0	NNW	0	1	NNW	32.498	0	0
661	12/6/2023	4:15 AM	28.3	29.1	28.3	78	22.3	0	---	0	0	---	32.498	0	0
662	12/6/2023	4:30 AM	30.7	30.7	27.9	77	24.3	0	NNW	0	2	NNW	32.498	0	0
663	12/6/2023	4:45 AM	30.6	32.3	30.6	73	23	0	NNW	0	1	NNW	32.498	0	0
664	12/6/2023	5:00 AM	28	30.5	28	74	20.8	0	NNW	0	1	NNW	32.498	0	0
665	12/6/2023	5:15 AM	27.4	28.2	27	78	21.4	0	NNW	0	1	NNW	32.498	0	0
666	12/6/2023	5:30 AM	30.2	30.2	27.3	80	24.8	0	NNW	0	1	NNW	32.498	0	0
667	12/6/2023	5:45 AM	30.2	30.5	29.6	78	24.2	0	NNW	0	1	NNW	32.498	0	0
668	12/6/2023	6:00 AM	26.8	30.6	26.8	78	20.9	0	---	0	0	---	32.498	0	0
669	12/6/2023	6:15 AM	27	27.7	26.6	77	20.7	0	NNW	0	1	NNW	32.498	0	0
670	12/6/2023	6:30 AM	27.1	27.1	26.2	79	21.5	0	NNW	0	1	NNW	32.498	0	0
671	12/6/2023	6:45 AM	29.6	29.6	27.2	74	22.3	0	NW	0	2	NW	32.498	0	0
672	12/6/2023	7:00 AM	28.8	29.9	28.8	74	21.6	0	NNW	0	2	NW	32.498	0	0
673	12/6/2023	7:15 AM	29.7	29.7	28.8	74	22.4	0	NNW	0	2	NNW	32.498	0	0
674	12/6/2023	7:30 AM	30.6	30.8	29.7	72	22.6	0	---	0	0	---	32.498	0	0
675	12/6/2023	7:45 AM	32.3	32.3	30.6	70	23.6	0	---	0	0	---	32.498	0	0
676	12/6/2023	8:00 AM	36.9	36.9	32.4	65	26.2	0	NNW	0	3	NNW	32.498	0	0
677	12/6/2023	8:15 AM	39.7	39.7	36.9	62	27.7	0	---	0	0	---	32.498	0	0
678	12/6/2023	8:30 AM	42.4	42.4	39.7	57	28.2	2	NNE	0.5	4	NNE	32.498	0	0
679	12/6/2023	8:45 AM	44.9	44.9	42.5	53	28.8	4	NNE	1	8	N	32.498	0	0
680	12/6/2023	9:00 AM	47.1	47.1	44.9	51	29.9	3	NNE	0.75	7	NE	32.498	0	0
681	12/6/2023	9:15 AM	48.9	48.9	47.1	48	30.1	2	NNE	0.5	6	NE	32.498	0	0
682	12/6/2023	9:30 AM	50.9	50.9	48.9	46	30.8	4	NNE	1	7	N	32.498	0	0
683	12/6/2023	9:45 AM	52	52	50.9	44	30.7	4	NNE	1	7	NNE	32.498	0	0
684	12/6/2023	10:00 AM	53.6	53.6	52	43	31.6	4	NE	1	8	NE	32.498	0	0
685	12/6/2023	10:15 AM	55	55	53.6	41	31.7	4	NE	1	8	N	32.498	0	0
686	12/6/2023	10:30 AM	57.1	57.1	55	40	33	3	N	0.75	5	NE	32.498	0	0
687	12/6/2023	10:45 AM	58.6	58.6	57.1	39	33.7	2	NNE	0.5	6	N	32.498	0	0

Appendix B: Weather Data

	A	B	C	D	E	F	G	H	I	J	K	L	P	Q	R
1			Temp	Hi	Low	Out	Dew	Wind	Wind	Wind	Hi	Hi			Rain
2	Date	Time	Out	Temp	Temp	Hum	Pt.	Speed	Dir	Run	Speed	Dir	Bar	Rain	Rate
688	12/6/2023	11:00 AM	59.7	59.7	58.6	39	34.7	2	NE	0.5	5	ENE	32.498	0	0
689	12/6/2023	11:15 AM	60.9	60.9	59.7	37	34.4	3	NNE	0.75	6	NNE	32.498	0	0
690	12/6/2023	11:30 AM	62.2	62.2	60.9	36	34.9	3	NE	0.75	8	NNE	32.498	0	0
691	12/6/2023	11:45 AM	63.1	63.1	62.2	36	35.7	3	NNE	0.75	5	N	32.498	0	0
692	12/6/2023	12:00 PM	63.9	63.9	63.1	36	36.4	3	NNE	0.75	6	N	32.498	0	0
693	12/6/2023	12:15 PM	64.8	64.8	64	35	36.5	2	NE	0.5	5	E	32.498	0	0
694	12/6/2023	12:30 PM	66.1	66.1	64.8	34	36.9	1	N	0.25	4	N	32.498	0	0
695	12/6/2023	12:45 PM	68	68	66.1	33	37.8	1	N	0.25	4	ENE	32.496	0	0
696	12/6/2023	1:00 PM	69	69.1	67.9	32	37.9	1	NNW	0.25	4	NNW	32.482	0	0
697	12/6/2023	1:15 PM	69.2	69.2	68.7	32	38.1	1	NW	0.25	2	NNE	32.464	0	0
698	12/6/2023	1:30 PM	70.3	70.3	69.1	32	39	1	NNW	0.25	4	N	32.447	0	0
699	12/6/2023	1:45 PM	70.6	70.6	69.9	31	38.5	1	NNW	0.25	6	W	32.438	0	0