V.C. Summer Nuclear Station
Bradham Blvd & Hwy 215, Jenkinsville, SC 29065
Mailing Address:
P.O. Box 88, Jenkinsville, SC 29065
DominionEnergy.com

April 27, 2021



ATTN: Document Control Desk U. S. Nuclear Regulatory Commission Washington, D. C. 20555-001

Serial No. 21-162 LIC/TS/R0 Docket No. 50-395 License No. NPF-12

DOMINION ENERGY SOUTH CAROLINA, INC. (DESC)
VIRGIL C. SUMMER NUCLEAR STATION UNIT 1
DOCKET NO. 50-395
OPERATING LICENSE NO. NPF-12
ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

Enclosed is the DESC Annual Radioactive Effluent Release Report as required by 10 CFR 50.36a, Section 6.9.1.8 of the Virgil C. Summer Nuclear Station Technical Specifications, and Section 1.6.2.1 of the Offsite Dose Calculation Manual. This submittal covers the period of January 1 through December 31, 2020.

If there are any questions, please call Ms. Tracey Stewart at (803) 931-5663.

Sincerely

Robin R. Haselden

Director, Nuclear Station Safety and Licensing

V. C. Summer Nuclear Station

Commitments contained in this letter: None

Enclosure: Annual Radioactive Effluent Release Report

Enclosure A: Meteorological Data Joint Frequency Distribution by Quarter for 2020

cc: w/o Enclosures unless noted

G. J. Lindamood - Santee Cooper

L. Dudes - NRC Region II

V. Thomas - NRC Project Manager

NRC Resident Inspector (w/Enclosures)

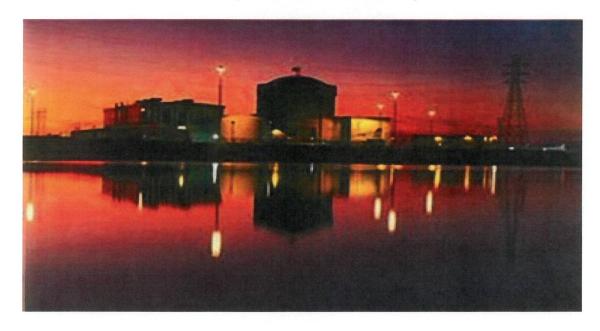
ANI (w/Enclosures)

Anu Nair-Gimmi - SCDHEC (w/Enclosures)



ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT VIRGIL C. SUMMER NUCLEAR STATION

FOR THE OPERATING PERIOD JANUARY 1, 2020 - DECEMBER 31, 2020



Prepared by:

Michelle Westbury, Specialist

Health Physics

Reviewed by:

Casey Carlson, Supervisor Health Physics Approved by:

Todd Ellison, Manager
Radiation Protection and Chemistry

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

Introduction

This report is being submitted as a summary of quantities of radioactive liquid and gaseous effluents and solid waste released from the Virgil C. Summer Nuclear Station. This report is submitted in fulfillment of the requirements in the V. C. Summer Nuclear Station Operating License Technical Specifications Section 6.9.1.8, Offsite Dose Calculation Manual (ODCM) Section1.6.2 and 10CFR50.36(a) and follows the reporting details specified in USNRC Regulatory Guide 1.21⁽¹⁾.

Summary information of radioactive gaseous and liquid effluents is presented along with a summary of radioactive waste disposal as well as an evaluation of the radiological impact on man due to operation of the Virgil C. Summer Nuclear Station. Supplemental information including release limits also required by USNRC Regulatory Guide 1.21 is provided as Appendix A.

A. Supplemental Information

Regulatory limits for doses, dose rate and effluent concentration limits presented in Supplemental Information are from the Virgil C. Summer Nuclear Station ODCM and 40 CFR 190. Average energy (\overline{E}) is not applicable to the method for determining release rate limits for fission and activation gaseous effluents, therefore, it has been omitted. A compilation of required supplemental information is provided in Appendix A.

B. Gaseous Effluents

Gaseous effluents released from ground level are summarized in Tables 1 and 2. An elevated release pathway does not exist at Virgil C. Summer Nuclear Station. Cumulative doses are discussed in Section E.

The error for both liquid and gaseous release totals is estimated as twenty percent for radioactive radionuclides sampled and released in effluent pathways. Error was derived using root sum of squares methodology considering known sources of error including calibration of detectors and flow measurement equipment, sample preparation, and analysis counting error.

C. Liquid Effluents

Liquid effluents are summarized in Tables 3 and 4. Estimated total errors are expressed as in Section B above.

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

D. Solid Waste Shipments

Solid waste shipments are summarized in Table 5. Curie content of radioactive waste packages is determined by dose rates and/or gamma spectroscopy analysis of samples. The total error for each type of curie content determination is conservatively estimated to be the sum of a 15% systematic error and a 20% photon response error for the detector used.

E. Radiological Impact on Man

Dose to the maximum exposed individual in the unrestricted area was calculated using measured plant gaseous effluents and meteorological data in accordance with the Offsite Dose Calculation Manual. The source term involved 6 Waste Gas Decay Tank (WGDT) releases, 1.97 days of 6-inch Reactor Building purge releases, 20.49 days of 36-inch Reactor Building purge releases and a continuous 12-month Main Plant vent release. Doses are summarized in Table 6. The total gaseous activities released are presented in Tables 1 and 2. The highest quarterly air doses at the station boundary resulting from the release of noble gases were 9.99E-04 mrad for gamma during the second quarter and 4.82E-04 mrad for beta during the second quarter. The maximum quarterly organ dose attributed to the releases, excluding Carbon-14, was 1.10E-03 mrem. Cumulative annual dose was 1.00E-03 mrad, 4.85E-04 mrad and 1.10E-03 mrem for gamma, beta, and organ dose, respectively. Discussion of the impact of Carbon-14 is included in Section K.

Measured plant liquid effluent data was used to calculate estimates of doses to individuals in accordance with the Offsite Dose Calculation Manual. The source term consisted of the isotopic contents of 221 Waste Monitor Tank batch releases, 19 Condensate Backwash Receiver Tank batch releases, 1 NaOH Sump batch release, 7.36 days of Steam Generator Blowdown release and a continuous Turbine Building Sump release.

Doses are summarized in Table 6 and total liquid radioactivity released is described in Tables 3 and 4. The highest quarterly total body dose to the maximum exposed individual resulting from the release of radioactive liquid was 2.92E-03 mrem during the fourth quarter. The highest organ dose was 2.92E-03 mrem to the Liver for the fourth quarter. Cumulative annual doses for the hypothetical maximum exposed individual were 6.25E-03 mrem for the total body and 6.32E-3 mrem for the GI-LLI, the maximum annual organ. The GI-LLI was the maximum exposed organ for the first, second and third quarter and the Liver was the maximum exposed organ for the fourth quarter.

Dose rates and concentrations were below station limits as specified in Supplemental Information, Section II A, B, and C during all the effluent releases.

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

Radiation exposure to members of the public within the site boundary was assessed through calculation of gamma and beta air dose at 0.25 miles of the gaseous effluent release point and direct measurement of exposure using thermoluminescent dosimeters. Onsite air dose for this reporting period was 3.26E-03 mrad gamma and 1.58E-03 mrad beta, well below levels that can be distinguished above background. Quarterly thermoluminescent dosimetry (TLD) data from four onsite monitoring locations within 0.2 miles of the Reactor Building and eight locations at the site boundary were analyzed and compared with respective pre-operational background and previous year history. Results showed that the 2020 quarterly dose rates did not differ significantly from the pre-operational or 2019 dose rates.

The impact of Independent Spent Fuel Storage Installation (ISFSI) operation which began cask storage on March 26, 2016 was assessed using six TLD locations monitoring the perimeter of the ISFSI site. The TLD locations were monitored for three quarters prior to fuel storage and continued to be monitored through 2020 during which fuel storage casks were stored. Analysis of monitoring results showed no statistically significant increase in perimeter dose as a result of ISFSI operation.

Based on review of gaseous effluent dose calculations and analysis of onsite TLD monitoring it was concluded that doses to members of the public inside the site boundary were indistinguishable from normal background dose.

Radiation doses from radioactive effluents to workers at the Fairfield Hydro Station for this reporting period were calculated to be 4.73E-05 and 2.29E-05 mrad for gamma and beta, respectively.

Radiation doses from radioactive effluents to workers at the New Nuclear Site for this reporting period were calculated to be 4.07E-04 and 1.97E-04 mrad for gamma and beta, respectively.

Radiation doses from nearby uranium fuel cycle sources were not assessed. The ODCM, Sections 1.3.1 and B/1.3 establish a five (5) mile limit beyond which doses from nearby plants are insignificant. There are no uranium fuel cycle plants within a five (5) mile radius of Virgil C. Summer Nuclear Station.

F. Abnormal Releases

None

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

G. Meteorology

The meteorological data for 2020 was collected and analyzed. An annual meteorological summary report of joint frequency distributions of wind direction and speed by atmospheric stability class for each quarter is included as Enclosure A.

The wind direction and wind speed data used were acquired from the 10-meter level of the primary monitoring tower. Stability was determined by the primary differential temperature (61 to 10 meter).

The combined annual data recovery for wind direction, wind speed and stability was 99.57%. Primary variable recovery rates were as follows: wind direction (10 m) - 99.60%, wind speed (10 m) - 99.60%, and differential temperature (61 - 10 m) - 99.57%.

H. Offsite Dose Calculation Manual

The Virgil C. Summer Nuclear Station ODCM was not revised in 2020.

I. Offsite Dose Calculation Manual Reportable Incidents

The Turbine Building Sump Effluent Line Radiation Monitor RM-L8 required by ODCM Control 1.1.1.1 was out of service from April 12, 2020 at 1605 until May 12, 2020 at 0750. Out of service condition was the result of the normal condition light not being lit. Replacement of the proper bulb by station maintenance personnel resulted in the bulb being immediately blown. RM-L8 was returned to service after successfully resolving this issue.

RML-8 was also out of service from June 13, 2020 at 2010 until September 17, 2020 at 1805. Out of service condition was the result of the ratemeter malfunctioning. After significant troubleshooting efforts the system was restored by replacing the old ratemeter with a newer style ratemeter.

Compensatory actions were implemented during these time periods in accordance with the requirements of the ODCM.

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

J. Major Changes to Radioactive Waste Treatment Systems

During 2020, there were no major changes to the Radioactive Waste Treatment System.

K. Carbon-14 Gaseous Effluents

Carbon-14 production and release estimates were calculated using EPRI Report 1021106⁽²⁾, "Estimation of Carbon-14 in Nuclear Plant Gaseous Effluents". This calculation uses active core coolant mass, average neutron flux by energy and reactor coolant nitrogen concentrations to determine Carbon-14 generation based upon an effective full power year. The estimated generation for VC Summer Nuclear station for 2020 was 9.09 curies.

Public dose estimates were performed using Regulatory Guide 1.109 ⁽³⁾ methodology. Carbon dioxide is assumed to make up 20% of the Carbon-14 gaseous emissions from the station based upon available references and on-site testing. Carbon-14 is the highest dose contributor of all radionuclides released in gaseous effluents. Annual dose resulting from Carbon-14 releases in gaseous effluents is estimated to be 1.61E-01 mrem total body and 8.08E-01 mrem to the maximum organ (bone).

References

- 1. Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents From Light Water Cooled Nuclear Power Plants", Revision 1, US Nuclear Regulatory Commission, Washington D.C., 1974.
- 2. EPRI Report 1021106, "Estimation of Carbon-14 in Nuclear Power Plant Gaseous Effluents", Electric Power Research Institute, Palo Alto, CA, 2010.
- 3. Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of 'Reactor effluents for the Purpose of Demonstrating compliance with 10 CFR50, Appendix I", US Nuclear Regulatory Commission, Washington D.C., 1976.

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

SUPPLEMENTAL INFORMATION

- I. Regulatory Dose Limits:
 - A. Fission and Activation Gases:

The air dose to an individual due to noble gases released in gaseous effluents shall be limited to less than or equal to 5 mrad for gamma radiation and 10 mrad for beta radiation during any calendar quarter and 10 mrad for gamma radiation and 20 mrad for beta radiation during any calendar year (ODCM, Section 1.2.3.1).

B. Iodines, Particulates (half-lives > 8 days) and Tritium:

The dose to an individual from radioiodine, tritium and radioactive materials in particulate form with half-lives greater than 8 days in gaseous effluents shall be limited to less than or equal to 7.5 mrem to any organ during any calendar quarter and 15 mrem to any organ during any calendar year (ODCM, Section 1.2.4.1).

C. Liquid Effluents:

The dose or dose commitment to an individual from radioactive materials in liquid effluents released shall be limited to less than or equal to 1.5 mrem to the total body and 5 mrem to any organ during any calendar quarter and 3 mrem to the total body and 10 mrem to any organ during any calendar year (ODCM, Section 1.1.3.1).

D. All Sources:

The annual dose equivalent shall not exceed 25 mrem to the whole body, 75 mrem to the thyroid and 25 mrem to any other organ (40 CFR 190).

- II. Dose Rate and Effluent Concentration Limits:
 - A. Fission and Activation Gases

The dose rate in unrestricted areas due to radioactive materials released in gaseous effluents shall be limited to less than or equal to 500 mrem/year to the total body and less than or equal to 3000 mrem/year to the skin (ODCM, Section 1.2.2.1).

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

B. Iodines, Particulates (half-lives > 8 days) and Tritium:

The dose rate in unrestricted areas due to radioactive materials in effluents shall be limited to less than or equal to 1500 mrem/year to any organ (ODCM, Section 1.2.2.1).

C. Liquid Effluents:

The concentration of radioactive materials released from the site shall be limited to 10 times the concentrations specified in 10 CFR 20, Appendix B, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2E-04 μ Ci/ml total activity (ODCM, Section 1.1.2.1).

III. Average Energy:

Not Applicable

- IV. Measurements and Approximations of Total Radioactivity:
 - A. Fission and activation gases: Gamma spectrometry (HPGe)
 - B. Iodines: Gamma spectrometry (HPGe)
 - C. Particulates: Gamma spectrometry (HPGe), beta proportional counting, alpha proportional counting
 - D. Tritium: Liquid scintillation
 - E. Liquid effluents: Gamma spectrometry (HPGe), liquid scintillation

(H-3), beta proportional counting, alpha

proportional counting.

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

V. Batch Releases:

A. Gaseous:

- 1. Number of batch releases: 6
- 2. Total time period for batch releases: 1012 min
- 3. Maximum time period for a batch release: 240 min
- 4. Average time period for a batch release: 169 min
- 5. Minimum time period for a batch release: 13 min

B. Liquid:

1. Number of batch releases:

| 68 | For first quarter, 2020 |
|----|--------------------------|
| 94 | For second quarter, 2020 |
| 36 | For third quarter, 2020 |
| 43 | For fourth quarter, 2020 |

2. Total time period for batch releases:

| 4.99E+03 | min. for first quarter, 2020 |
|----------|-------------------------------|
| 6.48E+03 | min. for second quarter, 2020 |
| 2.62E+03 | min. for third quarter, 2020 |
| 3.06E+03 | min. for fourth quarter 2020 |

3. Maximum time period for a batch release:

| 1.31E+02 | min. for second quarter, 2020 |
|----------|-------------------------------|
| 1.00E+02 | min. for second quarter, 2020 |
| 8.10E+01 | min. for third quarter, 2020 |
| 8.20E+01 | min. for fourth quarter, 2020 |

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT

JANUARY - DECEMBER 2020

VIRGIL C. SUMMER NUCLEAR STATION

4. Average time period for batch releases:

| 7.34E+01 | min. for first quarter, 2020 |
|----------|-------------------------------|
| 5.73E+01 | min. for second quarter, 2020 |
| 7.29E+01 | min. for third quarter, 2020 |
| 7.11E+01 | min. for fourth quarter, 2020 |

5. Minimum time period for a batch release:

| min. for first quarter, 2020 |
|-------------------------------|
| min. for second quarter, 2020 |
| min. for third quarter, 2020 |
| min. for fourth quarter, 2020 |
| |

6. Average stream flow during periods of release of effluent into a flowing stream:

| 4.52E+06 | gpm for first quarter, 2020 |
|----------|------------------------------|
| 5.80E+06 | gpm for second quarter, 2020 |
| 6.72E+06 | gpm for third quarter, 2020 |
| 4.46E+06 | gpm for fourth quarter, 2020 |

VI. Abnormal Releases:

- A. Gaseous:
 - 1. Number of releases: 0
 - 2. Total activity released: 0
- B. Liquid:
 - 1. Number of releases: 0
 - 2. Total activity released: 0

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY - DECEMBER 2020 Virgil C. Summer Nuclear Station

TABLE 1

Gaseous Effluents-Summation of All Releases

| Type of Effluent | Units | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Error % |
|---|---------|----------|----------|----------|----------|----------|
| A. Fission & Activation Gases | | | | | | |
| 1. Total Release | Curies | 0.00E+00 | 8,28E-01 | 1.45E-02 | 0.00E+00 | 2.00E+01 |
| 2. Average Release Rate for Period | μCi/sec | 0.00E+00 | 1.05E-01 | 1.83E-03 | 0.00E+00 | |
| 3. Percent of Applicable Limit | % | 0.00E+00 | 2.00E-02 | 3.23E-05 | 0.00E+00 | |
| B. lodines | | | | si. | | |
| 1. Total lodine-131 | Curies | 0.00E+00 | 1.31E-05 | 0.00E+00 | 0.00E+00 | 2.50E+01 |
| 2. Average Release Rate for Period | μCi/sec | 0.00E+00 | 1.67E-06 | 0.00E+00 | 0.00E+00 | |
| 3. Percent of Applicable Limit | % | 0.00E+00 | 1.31E-03 | 0.00E+00 | 0.00E+00 | |
| C. Particulates | | | | | | |
| 1. Total Particulates (Half-lives > 8 days) | Curies | 9.49E-06 | 0.00E+00 | 3.47E-06 | 1.05E-05 | 2.50E+01 |
| 2. Average Release Rate for Period | μCi/sec | 1.21E-06 | 0.00E+00 | 4.36E-07 | 1.32E-06 | |
| 3. Percent of Applicable Limit | % | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | |
| 4. Gross Alpha Activity | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| D. Tritium | | | | | | |
| 1. Total Release | Curies | 0.00E+00 | 1.82E+00 | 0.00E+00 | 0.00E+00 | 2.00E+01 |
| 2. Average Release Rate for Period | µCi/sec | 0.00E+00 | 2.32E-01 | 0.00E+00 | 0.00E+00 | |
| 3. Percent of Applicable Limit | % | 0.00E+00 | 1.38E-02 | 0.00E+00 | 0.00E+00 | |
| E. Carbon-14 | | | | | | |
| 1. Total Release | Curies | 2.26E+00 | 2.26E+00 | 2.28E+00 | 2.28E+00 | N/A |
| 2. Average Release Rate for Period | μCi/sec | 2.87E-01 | 2.87E-01 | 2.87E-01 | 2.87E-01 | |

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY - DECEMBER 2020 Virgil C. Summer Nuclear Station

TABLE 2 Gaseous Effluents-Ground Level Releases

| | | | Continuo | ous Mode | | | Batch | Mode | |
|-------------------------|----------|-----------------------|----------|-----------|----------|----------|----------------------|----------------------|----------|
| Nuclides Released | Units | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| | | | | | | | | | |
| 1. Fission and Activati | on Gases | | | | | | | | |
| Ar-41 | Curies | 0.00E+00 | 4.63E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.88E-06 | 0.00E+00 |
| Kr-85M | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.42E-05 | 0.00E+00 |
| Kr-88 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.73E-06 | 0.00E+00 |
| Xe-131m | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.35E-04 | 0.00E+00 |
| Xe-133 | Curies | 0.00E+00 | 1.22E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.37E-02 | 0.00E+00 |
| Xe-133m | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.98E-05 | 0.00E+00 |
| Xe-135 | Curies | 0.00E+00 | 3.64E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 5.76E-04 | 0.00E+00 |
| Total for Period | Curies | 0.00E+00 | 8.28E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.45E-02 | 0.00E+00 |
| | | | | | | | | | |
| 2. lodines | | | | | | | | | |
| I-131 | Curies | 0.00E+00 | 3.32E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| I-132 | Curies | 0.00E+00 | 9.79E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Total for Period | Curies | 0.00E+00 | 1.31E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| 3. Particulates | | | | | | | | | |
| As-76 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00=+00 | 0.00E+00 | 0.00E+00 |
| Be-7 | Curies | 9.49E-06 | 0.00E+00 | 3.47E-06 | 1.05E-05 | 0.00E+00 | 0.00E+00 0.00E+00 | 0.00E+00 0.00E+00 | 0.00E+00 |
| Br-82 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Total for Period | Curies | 9.49E-06 | 0.00E+00 | 3.47E-06 | 1.05E-05 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| rotal for Feriod | Ouries | 3. 4 3L-00 | 0.002100 | 3.47 E-00 | 1.03L-03 | 0.002.00 | 0.002100 | 0.002.00 | 0.002100 |
| 4. Tritium | , | | | | | | | | |
| Н-3 | Curies | 0.00E+00 | 1.82E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY - DECEMBER 2020 Virgil C. Summer Nuclear Station

TABLE 3 <u>Liquid Effluents-Summation of All Releases</u>

| Type of Effluent | Units | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Error % |
|--|---------|----------|----------|----------|----------|----------|
| A. Fission & Activation Products | | | | | | |
| Total Release (not including Tritium, | Curies | 7.82E-04 | 8.70E-04 | 3.31E-04 | 1.46E-04 | 2.00E+01 |
| Gases, and Alpha) 2. Average Diluted Concentration During | μCi/ml | 8.95E-12 | 6.13E-12 | 4.60E-12 | 2.74E-12 | |
| Period 3. Percent of Applicable Limit | % | 1.56E-02 | 1.74E-02 | 6.62E-03 | 2.92E-03 | |
| B. Tritium | | | | | | |
| 1. Total Release | Curies | 1.59E+02 | 9.43E+01 | 1.09E+02 | 2.25E+02 | 2.00E+01 |
| 2. Average Diluted Concentration During Period | μCi/ml | 1.82E-06 | 6.64E-07 | 1.52E-06 | 4.22E-06 | |
| 3. Percent of Applicable Limit | % | 1.82E-01 | 6.64E-02 | 1.52E-01 | 4.22E-01 | |
| C. Dissolved and Entrained Gases | | | | | | |
| 1. Total Release | Curies | 2.30E-04 | 1.94E-04 | 2.32E-05 | 7.65E-06 | 2.00E+01 |
| 2. Average Diluted Concentration During | μCi/ses | 2.63E-12 | 1.36E-12 | 3.23E-13 | 1.44E-13 | |
| Period 3. Percent of Applicable Limit | % | 1.31E-06 | 6.82E-07 | 1.62E-07 | 7.18E-08 | |
| D. Gross Alpha Radioactivity | | | | | | |
| 1. Total Release | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| | | | | | | |
| E. Waste Volume Released (Pre-Dilution) | Liters | 1.21E+07 | 4.34E+07 | 1.43E+07 | 9.17E+06 | 3.00E+00 |
| | | | | | | |
| F. Volume of Dilution Water Used | Liters | 8.74E+10 | 1.42E+11 | 7.19E+10 | 5.32E+10 | 4.30E+00 |

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY – DECEMBER 2019 Virgil C. Summer Nuclear Station

TABLE 4

Liquid Effluents

Continuous Mode

Batch Mode

| Nuclides Released | Units | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
|------------------------------|---------|---|--------------------------|------------------------|-----------------------|------------|---|--------------|--------------------------|
| | | | | | | | | | |
| As-76 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.48E-05 | 0.00E+00 | 0.00E+00 |
| Co-58 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.14E-05 | 9.32E-05 | 1.04E-05 | 8.64E-06 |
| Co-60 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 6.82E-04 | 2.42E-04 | 2.59E-04 | 1.06E-04 |
| Cs-137 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.82E-06 |
| H-3 | Curies | 6.64E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E+02 | 9.43E+01 | 1.09E+02 | 2.25E+02 |
| Mn-54 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.70E-05 | 1.87E-05 | 1.32E-05 | 5.46E-06 |
| Nb-95 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.67E-05 | 1.05E-05 | 3.65E-06 | 0.00E+00 |
| Sb-122 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.16E-06 | 0.00E+00 | 0.00E+00 |
| Sb-124 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.58E-04 | 9.25E-06 | 2.00E-06 |
| Sb-125 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E-05 | 2.72E-04 | 3.51E-05 | 1.76E-05 |
| Te-123M | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.45E-05 | 0.00E+00 | 0.00E+00 |
| Xe-133 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.27E-04 | 1.94E-04 | 2.32E-05 | 7.65E-06 |
| Xe-135 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2.89E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Zn-65 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.21E-05 | 0.00E+00 | 1.66E-06 |
| Zr-95 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 9.41E-06 | 5.52E-06 | 0.00E+00 | 0.00E+00 |
| Zr-97 | Curies | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 7.71E-06 | 0.00E+00 | 0.00E+00 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| ACCOR 10 000 000 000 000 000 | 100 000 | Source Performance - Source State State | war dagled them had been | 200 200 2000 2000 2000 | and statement and and | 201 (2014) | 70 0 000 00 000 000 000 000 000 000 000 | NV 307 T4176 | 200 - 12 transit - 520mi |
| Total for Period | Curies | 6.64E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.59E+02 | 9.43E+01 | 1.09E+02 | 2.25E+02 |
| | | | | | | | | | |

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT January - December 2020

Virgil C. Summer Nuclear Station Dominion Energy Table 5 SOLID WASTE SHIPMENTS

1. Solid Waste Shipped Offsite for Burial or Disposal (Not irradiated fuel)

| Type of Waste | Unit | 2020 Total | Est. Total Error, % |
|------------------------------------|----------------|---------------|------------------------|
| a. Spent resins, filters, sludge, | m ³ | 3.94E+01 | 2.5E+01 |
| evaporator bottoms, etc. | Ci | 2.99E+01 | |
| b. Dry compressible waste, metals, | m³ | 3.54E+02 | 2.5E+01 |
| contaminated equipment, etc. | Ci | 1.04E-01 | |
| c. Irradiated components, | m ³ | 0.00E+00 | N/A |
| control rods, etc. | Ci | 0.00E+00 | |
| d. Other waste, oil, etc. | m ³ | 0.00E+00 | N/A |
| | Ci | 0.00E+00 | |

2. Estimate of major nuclide composition for the year (by type of waste) for concentrations above 1.0%

a.

| Ni-63 | 36.90 % | 1.10E+01 Ci |
|--------|---------|-------------|
| Co-60 | 24.64 % | 7.36E+00 Ci |
| Fe-55 | 14.84 % | 4.44E+00 Ci |
| Co-58 | 8.28 % | 2.47E+00 Ci |
| Mn-54 | 5.80 % | 1.73E+00 Ci |
| Sb-125 | 5.69 % | 1.70E+00 Ci |
| Cs-137 | 1.39 % | 4.14E-01 Ci |

b.

| Fe-55 | 32.67 % | 3.40E-02 Ci |
|--------|---------|-------------|
| Co-60 | 30.85 % | 3.21E-02 Ci |
| Ni-63 | 10.96 % | 1.14E-02 Ci |
| Co-58 | 10.90 % | 1.13E-02 Ci |
| Mn-54 | 3.69 % | 3.54E-03 Ci |
| Nb-95 | 3.17 % | 3.30E-03 Ci |
| Cr-51 | 2.68 % | 2.79E-03 Ci |
| Zr-95 | 1.64 % | 1.70E-03 Ci |
| Sb-125 | 1.19 % | 1.24E-03 Ci |

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT January - December 2020

Virgil C. Summer Nuclear Station Dominion Energy Table 5 SOLID WASTE SHIPMENTS

| C. | | | | |
|----|------|-----|-----|--|
| | None | N/A | N/A | |
| | | | | |
| d. | | | | |
| | | | | |
| | None | N/A | N/A | |

3. Solid Waste Disposition

| Number of Shipments | Mode of Transportation | Destination |
|---------------------|---------------------------|---|
| 4 | Hittman Transport | Energy Solutions, LLC - Barnwell Processing Facility Barnwell, SC |
| 8 | Landstar | Alaron Nuclear Services Wampum, PA |
| 1 | Specialty Transport, Inc. | UniTech Services Group, Inc. Oakridge, TN |

Notes:

- 1. Four shipments by Hittman Transport containing (1) 10-160 FR SEDS High Integrity Container of Dewatered Primary Resin; (1) 8-120 FR High Integrity Container of Dewatered Mixed Bed/Charcoal Resin; (1) 8-120 FR High Integrity Container of Dewatered Charcoal/Cation/Anion Resin; and (1) 8-120 FR High Integrity Container of Dewatered Charcoal/Cation Resin were shipped to the Barnwell Processing facility for processing.
- 2. **Eight** shipments by Landstar containing (8) 20-foot Sealands of Dry Active Waste; (9) B-25 Boxes of Gross Dewatered Resin; and (14) B-25 Boxes of Dry Active Waste were shipped to Alaron in Wampum, PA for processing.
- 3. **One** shipment by Specialty Transport, Inc. containing (1) 20-foot Sealand of Green-is-Clean (GIC) waste was shipped to Oakridge, TN for processing.

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY – DECEMBER 2020

Virgil C. Summer Nuclear Station

TABLE 6

Gaseous Effluents

| | <u>Parameter</u> | Location | Dose | Dose Limit | % of Limit |
|-------------|---|----------------------------|----------------------|----------------------|--------------|
| Qtr 1 | Gamma Air Dose (mrad) Beta Air Dose (mrad) | 1.61 km ENE 1.61 km ENE | 0.00E+00 0.00E+00 | 5.00E+00 1.00E+01 | 0.00 0.00 |
| | Total Body Dose (mrem) | 1.61 km ENE | 0.00E+00 | 5.00E+00 | 0.00 |
| | Skin Dose (mrem) | 1.61 km ENE 1.77 km E | 0.00E+00 | 7.50E+00 | 0.00 |
| | Max Organ Dose (mrem)* | 1.77 KM E | 0.00E+00 | 7.50E+00 | 0.00 |
| | None - None | | | | |
| Qtr 2 | Gamma Air Dose (mrad) | 1.61 km ENE | 9.99E-04 | 5.00E+00 | 0.02 |
| | Beta Air Dose (mrad) | 1.61 km ENE | 4.82E-04 | 1.00E+01 | 0.00 |
| | Total Body Dose (mrem) | 1.61 km ENE | 9.48E-04 | 5.00E+00 | 0.02 |
| | Skin Dose (mrem) | 1.61 km ENE | 1.48E-03 | 7.50E+00 | 0.02 |
| | Max Organ Dose (mrem)* | 1.77 km E | 1.10E-03 | 7.50E+00 | 0.01 |
| | Child - Thyroid | | | | |
| Qtr 3 | Gamma Air Dose (mrad) | 1.61 km ENE | 1.23E-06 | 5.00E+00 | 0.00 |
| | Beta Air Dose (mrad) | 1.61 km ENE | 3.23E-06 | 1.00E+01 | 0.00 |
| | Total Body Dose (mrem) | 1.61 km ENE | 1.06E-06 | 5.00E+00 | 0.00 |
| | Skin Dose (mrem) | 1.61 km ENE | 2.45E-06 | 7.50E+00 | 0.00 |
| | Max Organ Dose (mrem)* | 1.77 km E | 0.00E+00 | 7.50E+00 | 0.00 |
| | None - None | | | | |
| Ot 4 | Common Air Book (common) | 4 04 bas ENE | 0.005.00 | 5.005.00 | |
| Qtr 4 | Gamma Air Dose (mrad) Beta Air Dose (mrad) | 1.61 km ENE 1.61 km ENE | 0.00E+00 0.00E+00 | 5.00E+00 1.00E+01 | 0.00 0.00 |
| | Total Body Dose (mrem) | 1.61 km ENE | 0.00E+00 | 5.00E+00 | 0.00 |
| | Skin Dose (mrem) | 1.61 km ENE | 0.00E+00 | 7.50E+00 | 0.00 |
| | Max Organ Dose (mrem)* | 1.77 km E | 0.00E+00 | 7.50E+00 | 0.00 |
| | None - None | | | | 0.00 |
| | | | | | |
| <u>Year</u> | Gamma Air Dose (mrad) | 1.61 km ENE | 1.00E-03 | 1.00E+01 | 0.01 |
| | Beta Air Dose (mrad) | 1.61 km ENE | 4.85E-04 | 2.00E+01 | 0.00 |
| | Total Body Dose (mrem) | 1.61 km ENE | 9.49E-04 | 1.00E+01 | 0.01 |
| | Skin Dose (mrem) | 1.61 km ENE | 1.48E-03 | 1.50E+01 | 0.01 |
| | Max Organ Dose (mrem)* | 1.77 km E | 1.10E-03 | 1.50E+01 | 0.01 |
| | Child - Thyroid | | | | |

(* Includes dose from all nuclides excluding Carbon-14. See Section K for C-14)

Liquid Effluents

| | Parameter | Max Receptor | Dose | Dose Limit | % of Limit |
|-------------|------------------------|--------------------|----------|------------|------------|
| Qtr 1 | Max Organ Dose (mrem) | Adult - Gi-LLi | 1.76E-03 | 5.00E+00 | 0.04 |
| | Total Body Dose (mrem) | Adult - Total Body | 1.70E-03 | 1.50E+00 | 0.11 |
| Qtr 2 | Max Organ Dose (mrem) | Adult - Gi-LLi | 8.60E-04 | 5.00E+00 | 0.02 |
| | Total Body Dose (mrem) | Adult - Total Body | 8.49E-04 | 1.50E+00 | 0.06 |
| Qtr 3 | Max Organ Dose (mrem) | Adult - Gi-LLi | 7.88E-04 | 5.00E+00 | 0.02 |
| | Total Body Dose (mrem) | Adult - Total Body | 7.81E-04 | 1.50E+00 | 0.05 |
| Qtr 4 | Max Organ Dose (mrem) | Adult - Liver | 2.92E-03 | 5.00E+00 | 0.06 |
| | Total Body Dose (mrem) | Adult - Total Body | 2.92E-03 | 1.50E+00 | 0.19 |
| <u>Year</u> | Max Organ Dose (mrem) | Adult - Gi-LLi | 6.32E-03 | 1.00E+01 | 0.06 |
| | Total Body Dose (mrem) | Adult - Total Body | 6.25E-03 | 3.00E+00 | 0.21 |

NOTE: See Section E for max organ for each quarter

ENCLOSURE A

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY - DECEMBER 2020 VIRGIL C. SUMMER NUCLEAR STATION

METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION TABLES

Quarterly Summaries

Annual Summary

WGDT Batch Release Periods

ENCLOSURE A

ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT JANUARY - DECEMBER 2020 VIRGIL C. SUMMER NUCLEAR STATION

METEOROLOGICAL DATA JOINT FREQUENCY DISTRIBUTION TABLES

Quarterly Summaries

Annual Summary

WGDT Batch Release Periods

Quarterly Summaries

| Period of Record = | = | | 01/01/202 | | Period 4/01/2020 00:00 | All Hours | | | |
|---------------------|------------|----------|---------------|----------|---------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direct | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | Α | | Delta Tempera | ature | Extremely U | nstable | | | |
| | | | | | Wind Speed (r | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 2 | 2 | 3 | 1 | 0 | 8 | |
| NNE | | 0 | 0 | 1 | 21 | 1 | 0 | 23 | |
| NE | | 0 | 0 | 1 | 4 | 0 | 0 | 5 | |
| ENE | | 0 | 0 | 1 | 1 | 0 | 0 | 2 | |
| \mathbf{E} | | 0 | 0 | 2 | 0 | 0 | 0 | 2 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{S} | | 1 | 2 | 2 | 0 | 0 | 0 | 5 | |
| SSW | | 0 | 9 | 4 | 0 | 0 | 0 | 13 | |
| SW | | 5 | 25 | 19 | 0 | 0 | 0 | 49 | |
| wsw | | 1 | 16 | 10 | 0 | 0 | 0 | 27 | |
| W | | 5 | 22 | 4 | 1 | 0 | 0 | 32 | |
| WNW | | 5 | 17 | 3 | 0 | 0, | 0 | 25 | |
| NW | | 0 | 5 | 7 | 0 | 0 | 0 | 12 | |
| NNW | | 1 | 1 | 0 | 1 | 0 | 0 | 3 | |
| Total | | 18 | 100 | 56 | 31 | 2 | 0 | 207 | |
| m Hours not Inclu | ded abov | e for: | Total l | Period | | All Ho | urs | 0 | |
| iable Direction Ho | urs for: | | Total l | Period | | All Ho | urs | 0 | |
| alid Hours for: | | | Total l | Period | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for thi | s Table: | Total l | Period | | All Ho | urs | 207 | |
| al Hours for the Pe | eriod: | | | | | | | 2184 | |

| Period of Record = | = | | 01/01/202 | Total 1 0 01:00 - 04 | All Hours | | | | |
|----------------------|------------|----------|----------------|-------------------------|---------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Temperat | ure | Moderately U | nstable | | | |
| | | | | • | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 1 | 2 | 6 | 11 | 1 | 0 | 21 | |
| NNE | | 2 | 1 | 11 | 29 | 0 | 0 | 43 | |
| NE | | 1 | 3 | 8 | 10 | 0 | 0 | 22 | |
| ENE | | 0 | 1 | 4 | 7 | 0 | 0 | 12 | |
| \mathbf{E} | | 0 | 2 | 1 | 0 | 0 | 0 | 3 | |
| ESE | | 0 | 0 | 3 | 0 | 0 | 0 | 3 | |
| SE | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| SSE | | 1 | 0 | 4 | 0 | 0 | 0 | 5 | |
| S | | 0 | 10 | 2 | 0 | 0 | 0 | 12 | |
| SSW | | 1 | 2 | 1 | 0 | 0 | 0 | 4 | |
| SW | | 5 | 7 | 2 | 0 | 0 | 0 | 14 | |
| WSW | | 2 | 3 | 4 | 0 | 0 | 0 | 9 | |
| \mathbf{W} | | 2 | 4 | 7 | 0 | 0 | 0 | 13 | |
| WNW | | 3 | 5 | 0 | 0 | 0 | 0 | 8 | |
| NW | | 1 | 5 | 0 | 2 | 0 | 0 | 8 | |
| NNW | | 0 | 0 | 1 | 3 | 0 | 0 | 4 | |
| Total | | 19 | 45 | 55 | 62 | 1 | 0 | 182 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | eriod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Po | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Po | eriod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for thi | s Table: | Total Po | eriod | | All Ho | urs | 182 | |
| tal Hours for the Pe | riod: | | | | | | | 2184 | |

| Period of Record = | = | | 01/01/202 | | Period 4/01/2020 00:0 |) | All Hours | | | |
|---------------------|-------------|----------|---------------|----------|-----------------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Directi | on: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | С | | Delta Tempera | ture | Slightly Uns | table | | | | |
| | | | | | Wind Speed (| nph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 1 | 2 | 6 | 1 | 0 | 0 | 10 | | |
| NNE | | 1 | 11 | 22 | 4 | 1 | 0 | 39 | | |
| NE | | 5 | 9 | 28 | 12 | 1 | 0 | 55 | | |
| ENE | | 0 | 8 | 32 | 2 | 0 | 0 | 42 | | |
| E | | 0 | 8 | 18 | 0 | 0 | 0 | 26 | | |
| ESE | | 0 | 3 | 1 | 0 | 0 | 0 | 4 | | |
| SE | | 1 | 3 | 3 | 0 | 0 | 0 | 7 | | |
| SSE | | 4 | 6 | 1 | 0 | 0 | 0 | 11 | | |
| S | | 3 | 5 | 3 | 1 | 0 | 0 | 12 | | |
| SSW | | 3 | 7 | 1 | 0 | 0 | 0 | 11 | | |
| SW | | 5 | 13 | 4 | 0 | 0 | 0 | 22 | | |
| WSW | | 1 | 6 | 1 | 0 | 0 | 0 | 8 | | |
| W | | 2 | 6 | 0 | 0 | 0 | 0 | 8 | | |
| WNW | | 4 | 1 | 0 | 0 | 0 | 0 | 5 | | |
| NW | | 7 | 5 | 1 | 1 | 0 | 0 | 14 | | |
| NNW | | 2 | 2 | 1 | 0 | 1 | 0 | 6 | | |
| Total | | 39 | 95 | 122 | 21 | 3 | 0 | 280 | | |
| lm Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | | |
| riable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 | | |
| mber of Valid Hou | rs for this | s Table: | Total P | eriod | | All Ho | urs | 280 | | |
| al Hours for the Pe | riod: | | | | | | | 2184 | | |

| Period of Record | = | | 01/01/202 | | l <mark>Period</mark> 4/01/2020 00:00 | All Hours | | | |
|---------------------|------------|----------|---------------|----------|--|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Directi | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Tempera | ture | Neutral | | | | |
| | | | | | Wind Speed (r | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 3 | 15 | 10 | 2 | 0 | 0 | 30 | |
| NNE | | 6 | 18 | 3 | 8 | 2 | 0 | 37 | |
| NE | | 4 | 11 | 17 | 6 | 0 | 0 | 38 | |
| ENE | | 4 | 27 | 27 | 0 | 0 | 0 | 58 | |
| E | | 5 | 40 | 21 | 0 | 0 | 0 | 66 | |
| ESE | | 2 | 27 | 1 | 0 | 0 | 0 | 30 | |
| SE | | 4 | 27 | 3 | 0 | 0 | 0 | 34 | |
| SSE | | 15 | 13 | 14 | 1 | 0 | 0 | 43 | |
| S | | 17 | 34 | 21 | 7 | 0 | 0 | 79 | |
| SSW | | 14 | 48 | 29 | 10 | 0 | 0 | 101 | |
| SW | | 25 | 53 | 11 | 1 | 0 | 0 | 90 | |
| WSW | | 17 | 45 | 5 | 2 | 0 | 0 | 69 | |
| W | | 20 | 30 | 9 | 0 | 0 | 0 | 59 | |
| WNW | | 14 | 13 | 2 | 0 | 0 | 0 | 29 | |
| NW | | 14 | 19 | 4 | 1 | 0 | 0 | 38 | |
| NNW | | 8 | 12 | 6 | 1 | 0 | 0 | 27 | |
| Total | | 172 | 432 | 183 | 39 | 2 | 0 | 828 | |
| lm Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | |
| riable Direction Ho | ours for: | | Total P | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for thi | s Table: | Total P | eriod | | All Ho | urs | 828 | |
| al Hours for the Po | eriod: | | | | | | | 2184 | |

| Period of Record = | = | | 01/01/202 | | Period 4/01/2020 00:00 | | All Hours | | | |
|---------------------|-------------|---------|---------------|----------|----------------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Direct | | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | E | | Delta Tempera | ature | Slightly Stab | le | | | | |
| | | | | | Wind Speed (n | iph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 5 | 4 | 1 | 0 | 0 | 0 | 10 | | |
| NNE | | 2 | 10 | 1 | 0 | 0 | 0 | 13 | | |
| NE | | 4 | 5 | 0 | 0 | 0 | 0 | 9 | | |
| ENE | | 5 | 3 | 0 | 0 | 0 | 0 | 8 | | |
| E | | 7 | 4 | 1 | 0 | 0 | 0 | 12 | | |
| ESE | | 5 | 6 | 0 | 0 | 0 | 0 | 11 | | |
| SE | | 6 | 13 | 1 | 0 | 0 | 0 | 20 | | |
| SSE | | 11 | 12 | 0 | 0 | 0 | 0 | 23 | | |
| S | | 14 | 22 | 3 | 1 | 0 | 0 | 40 | | |
| SSW | | 32 | 47 | 2 | 0 | 0 | 0 | 81 | | |
| SW | | 43 | 43 | 0 | 0 | 0 | 0 | 86 | | |
| WSW | | 46 | 19 | 0 | 0 | 0 | 0 | 65 | | |
| \mathbf{w} | | 35 | 33 | 0 | 0 | 0 | 0 | 68 | | |
| WNW | | 17 | 5 | 0 | 0 | 0 | 0 | 22 | | |
| NW | | 13 | 6 | 1 | 0 | 0 | 0 | 20 | | |
| NNW | | 9 | 4 | 2 | 0 | 0 | 0 | 15 | | |
| Total | | 254 | 236 | 12 | 1 | 0 | 0 | 503 | | |
| m Hours not Inclu | ded abov | e for: | Total I | Period | | All Ho | urs | 0 | | |
| riable Direction Ho | urs for: | | Total I | Period | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total I | Period | | All Ho | urs | 0 | | |
| mber of Valid Hou | rs for this | Table: | Total I | Period | | All Ho | urs | 503 | | |
| al Hours for the Pe | riod: | | | | | | | 2184 | | |

| Period of Record = | = | | 01/01/2020 | Total 01:00 - 04 | | All Hours | | | |
|---------------------|------------|----------|-----------------|-------------------------|---------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | F | | Delta Temperatu | ıre | Moderately S | table | | | |
| | | | | , | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 2 | 1 | 0 | 0 | 0 | 0 | 3 | |
| NNE | | 3 | 0 | 0 | 0 | 0 | 0 | 3 | |
| NE | | 3 | 1 | 0 | 0 | 0 | 0 | 4 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| SE | | 1 | 4 | 0 | 0 | 0 | 0 | 5 | |
| SSE | | 3 | 9 | 0 | 0 | 0 | 0 | 12 | |
| S | | 6 | 7 | 0 | 0 | 0 | 0 | 13 | |
| SSW | | 8 | . 1 | 0 | 0 | 0 | 0 | 9 | |
| SW | | 14 | 1 | 0 | 0 | 0 | 0 | 15 | |
| WSW | | 11 | 6 | 0 | 0 | 0 | 0 | 17 | |
| \mathbf{w} | | 7 | 2 | 0 | 0 | 0 | 0 | 9 | |
| WNW | | 3 | 2 | 0 | 0 | 0 | 0 | 5 | |
| NW | | 3 | 1 | 0 | 0 | 0 | 0 | 4 | |
| NNW | | 3 | 0 | 0 | 0 | 0 | 0 | 3 | |
| Total | | 69 | 35 | 0 | 0 | 0 | 0 | 104 | |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 104 | |
| al Hours for the Pe | riod: | | | | | | | 2184 | |

| Period of Record = | = | | 01/01/202 | | Period 4/01/2020 00:0 | 0:00 | | | |
|---------------------|-------------|---------|---------------|----------|---------------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direct | tion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | G | | Delta Tempera | ature | Extremely S | Stable | | | |
| | | | | | Wind Speed (| mph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 1 | 0 | 0 | C | 0 | 0 | 1 | |
| NNE | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| \mathbf{E} | | 1 | 0 | 0 | O | 0 | 0 | 1 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| SSE | | 8 | 5 | 0 | 0 | 0 | 0 | 13 | |
| S | | 14 | 3 | 0 | 0 | 0 | 0 | 17 | |
| SSW | | 7 | 0 | 0 | 0 | 0 | 0 | 7 | |
| SW | | 11 | 1 | 0 | 0 | 0 | 0 | 12 | |
| WSW | | 12 | 2 | 0 | 0 | 0 | 0 | 14 | |
| \mathbf{w} | | 8 | 1 | 0 | 0 | 0 | 0 | 9 | |
| WNW | | 3 | 0 | 0 | 0 | 0 | 0 | 3 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Total | | 68 | 12 | 0 | 0 | 0 | 0 | 80 | |
| m Hours not Inclu | ded abov | e for: | Total l | Period | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total l | Period | | All Ho | urs | 0 | |
| alid Hours for: | | | Total I | Period | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for this | Table: | Total I | Period | | All Ho | urs | 80 | |
| al Hours for the Pe | riod: | | | | | | | 2184 | |

| Period of Record = | =1 | | 01/01/202 | | l Period 4/01/2020 00:00 | All Hours | | | |
|----------------------------------|------------|----------|---------------|----------|-----------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direct | ion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | ALL | | Delta Tempera | ature | | | | | |
| | | | | | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 13 | 26 | 25 | 17 | 2 | 0 | 83 | |
| NNE | | 14 | 40 | 38 | 62 | 4 | 0 | 158 | |
| NE | | 17 | 29 | 54 | 32 | 1 | 0 | 133 | |
| ENE | | 9 | 39 | 64 | 10 | 0 | 0 | 122 | |
| ${f E}$ | | 13 | 54 | 43 | 0 | 0 | 0 | 110 | |
| ESE | | 9 | 36 | 5 | 0 | 0 | 0 | 50 | |
| SE | | 14 | 48 | 8 | 0 | 0 | 0 | 70 | |
| SSE | | 42 | 45 | 19 | 1 | 0 | 0 | 107 | |
| S | | 55 | 83 | 31 | 9 | 0 | 0 | 178 | |
| SSW | | 65 | 114 | 37 | 10 | 0 | 0 | 226 | |
| SW | | 108 | 143 | 36 | 1 | 0 | 0 | 288 | |
| WSW | | 90 | 97 | 20 | 2 | 0 | 0 | 209 | |
| \mathbf{W} | | 79 | 98 | 20 | 1 | 0 | 0 | 198 | |
| WNW | | 49 | 43 | 5 | 0 | 0 | 0 | 97 | |
| NW | | 38 | 41 | 13 | 4 | 0 | 0 | 96 | |
| NNW | | 24 | 19 | 10 | 5 | 1. | 0 | 59 | |
| Total | | 639 | 955 | 428 | 154 | 8 | 0 | 2184 | |
| Im Hours not Included above for: | | e for: | Total I | Period | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total I | Period | | All Ho | urs | 0 | |
| alid Hours for: | | | Total I | Period | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for thi | s Table: | Total I | Period | | All Ho | urs | 2184 | |
| al Hours for the Pe | eriod: | | | | | | | 2184 | |

| | | | | | Period | All Hours | | | |
|---------------------|------------|----------|------------------|----------|---------------|-----------|--------|-------|--|
| Period of Record = | = | | 04/01/2020 | | | | | | |
| Elevation: | Speed: | SP10T1 | Direction | : | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | Α | | Delta Temperatur | re | Extremely Ur | ıstable | | | |
| | | | | 17 | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 10 | 14 | 4 | 10 | 0 | 0 | 38 | |
| NNE | | 10 | 22 | 5 | 23 | 2 | 0 | 62 | |
| NE | | 5 | 10 | 14 | 16 | 0 | 0 | 45 | |
| ENE | | 2 | 13 | 11 | 0 | 0 | 0 | 26 | |
| E | | 2 | 4 | 4 | 0 | 0 | 0 | 10 | |
| ESÉ | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| SE | | 0 | 1 | 1 | 0 | 0 | 0 | 2 | |
| SSE | | 0 | 3 | 2 | 0 | 0 | 0 | 5 | |
| S | | 1 | 11 | 7 | 8 | 0 | 0 | 27 | |
| SSW | | 0 | 21 | 10 | 2 | 0 | 0 | 33 | |
| sw | | 5 | 42 | 4 | 0 | 0 | 0 | 51 | |
| WSW | | 8 | 64 | 12 | 0 | 0 | 0 | 84 | |
| \mathbf{w} | | 8 | 37 | 13 | 0 | 0 | 0 | 58 | |
| WNW | | 5 | 24 | 2 | 0 | 0 | 0 | 31 | |
| NW | | 7 | 26 | 12 | 1 | 0 | 0 | 46 | |
| NNW | | 10 | 18 | 17 | 4 | 1. | 0 | 50 | |
| Total | | 73 | 311 | 118 | 64 | 3 | 0 | 569 | |
| n Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 0 | |
| iable Direction Ho | urs for: | | Total Per | iod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | iod | | All Ho | urs | 21 | |
| nber of Valid Hou | rs for thi | s Table: | Total Per | iod | | All Ho | urs | 569 | |
| al Hours for the Pe | riod: | | | | | | | 2184 | |

| D 1 1 6D 1 | | | 0.4/0.4/0.00 | | Period | All Hours | | | |
|---------------------|------------|----------|---------------|---------------|---------------|-----------|--------|-----------|--|
| Period of Record = | = | | 04/01/202 | 20 01:00 - 07 | | | | | |
| Elevation: | Speed: | SP10T1 | Direct | ion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Tempera | ature | Moderately U | nstable | | | |
| | | | | | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 1 | 7 | 5 | 9 | 1 | 0 | 23 | |
| NNE | | 3 | 3 | 2 | 9 | 2 | 0 | 19 | |
| NE | | 1 | 6 | 9 | 11 | 0 | 0 | 27 | |
| ENE | | 0 | 3 | 3 | 3 | 0 | 0 | 9 | |
| E | | 1 | 2 | 5 | 0 | 0 | 0 | 8 | |
| ESE | | 0 | 4 | 0 | 0 | 0 | 0 | 4 | |
| SE | | 1 | 3 | 2 | 0 | 0 | 0 | 6 | |
| SSE | | 0 | 4 | 2 | 0 | 0 | 0 | 6 | |
| S | | 1 | 4 | 3 | 3 | 0 | 0 | 11 | |
| SSW | | 2 | 11 | 2 | 1 | 0 | 0 | 16 | |
| SW | | 8 | 14 | 2 | 0 | 0 | 0 | 24 | |
| WSW | | 4 | 5 | 3 | 0 | 0 | 0 | 12 | |
| \mathbf{w} | | 5 | 5 | 2 | 0 | 0 | 0 | 12 | |
| WNW | | 10 | 9 | 0 | 0 | 0 | 0 | 19 | |
| NW | | 3 | 3 | 1 | 0 | 0 | 0 | 7 | |
| NNW | | 4 | 1 | 6 | 3 | 0 | 0 | 14 | |
| Total | | 44 | 84 | 47 | 39 | 3 | 0 | 217 | |
| lm Hours not Inclu | ded abov | e for: | Total I | Period | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total I | Period | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Period | | | All Hours | | | |
| mber of Valid Hou | rs for thi | s Table: | Total I | Period | | All Ho | urs | 21 217 | |
| al Hours for the Pe | eriod: | | | | | | | 2184 | |

| Period of Record = | = | | 04/01/2020 | | Period 7/01/2020 00:00 | All Hours | | | |
|----------------------|------------|----------|-------------------|----------|-------------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | SP10T1 Direction: | | DR10T1 Lapse: | | DT61T1 | | |
| Stability Class: | С | | Delta Temperat | ure | Slightly Unst | able | | | |
| | | | | 9 | Wind Speed (m | iph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 4 | 5 | 9 | 4 | 0 | 0 | 22 | |
| NNE | | 2 | 3 | 8 | 7 | 0 | 0 | 20 | |
| NE | | 0 | 3 | 9 | 5 | 0 | 0 | 17 | |
| ENE | | 0 | 2 | 8 | 0 | 0 | 0 | 10 | |
| \mathbf{E} | | 1 | 4 | 3 | 0 | 0 | 0 | 8 | |
| ESE | | 2 | 3 | 1 | 0 | 0 | 0 | 6 | |
| SE | | 0 | 3 | 2 | 0 | 0 | 0 | 5 | |
| SSE | | 0 | 8 | 3 | 2 | . 0 | 0 | 13 | |
| S | | 1 | 9 | 2 | 4 | 0 | 0 | 16 | |
| SSW | | 3 | 9 | 0 | 1 | 0 | 0 | 13 | |
| SW | | 6 | 7 | 2 | 0 | 0 | 0 | 15 | |
| WSW | | 3 | 4 | 0 | 0 | 0 | 0 | 7 | |
| \mathbf{W} | | 1 | 4 | 1 | 0 | 0 | 0 | 6 | |
| WNW | | 2 | 2 | 0 | 0 | 0 | 0 | 4 | |
| NW | | 3 | 8 | 2 | 0 | 0 | 0 | 13 | |
| NNW | | 2 | 2 | 4 | 1 | 0 | 0 | 9 | |
| Total | | 30 | 76 | 54 | 24 | 0 | 0 | 184 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 21 | |
| mber of Valid Hour | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 184 | |
| tal Hours for the Pe | riod: | | | | | | | 2184 | |

| Period of Record = | = | | 04/01/2020 | | l <mark>Period</mark> 7/01/2020 00:00 | All Hours | | | |
|---------------------|-------------|----------|-------------------|----------|--|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | SP10T1 Direction: | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Temperat | ure | Neutral | | | | |
| | | | | | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 4 | 10 | 3 | 7 | 0 | 0 | 24 | |
| NNE | | 3 | 9 | 10 | 4 | 0 | 0 | 26 | |
| NE | | 4 | 8 | 18 | 0 | 0 | 0 | 30 | |
| ENE | | 4 | 15 | 5 | 0 | 0 | 0 | 24 | |
| \mathbf{E} | | 2 | 31 | 10 | 0 | 0 | 0 | 43 | |
| ESE | | 4 | 13 | 3 | 0 | 0 | 0 | 20 | |
| SE | | 7 | 23 | 1 | 0 | 0 | 0 | 31 | |
| SSE | | 10 | 20 | 2 | 5 | 0 | 0 | 37 | |
| S | | 7 | 28 | 11 | 4 | 0 | 0 | 50 | |
| SSW | | 14 | 52 | 16 | 1 | 1 | 0 | 84 | |
| SW | | 21 | 41 | 2 | 0 | 0 | 0 | 64 | |
| WSW | | 23 | 37 | 2 | 0 | 0 | 0 | 62 | |
| \mathbf{w} | | 18 | 29 | 8 | 0 | 0 | 0 | 55 | |
| WNW | | 15 | 5 | 0 | 0 | 0 | 0 | 20 | |
| NW | | 12 | 16 | 2 | 0 | 0 | 0 | 30 | |
| NNW | | 4 | 10 | 6 | 0 | 0 | 0 | 20 | |
| Total | | 152 | 347 | 99 | 21 | 1 | 0 | 620 | |
| m Hours not Inclu | ded abov | e for: | Total Pe | eriod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Period | | | All Ho | urs | 21 | |
| mber of Valid Hou | rs for this | s Table: | Total Pe | eriod | | All Ho | urs | 620 | |
| al Hours for the Pe | eriod: | | | | | | | 2184 | |

| Period of Record = | = | | 04/01/2020 | | Period 7/01/2020 00:00 | All Hours | | | |
|----------------------|------------|----------|-------------------|----------|----------------------------------|-----------|--------|-------|----|
| Elevation: | Speed: | SP10T1 | SP10T1 Direction: | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | Е | | Delta Temperatu | ıre | Slightly Stab | le | | | |
| | | | | , | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 3 | 3 | 0 | 1 | 0 | 0 | 7 | |
| NNE | | 2 | 4 | 0 | 0 | 0 | 0 | 6 | |
| NE | | 2 | 1 | 0 | 0 | 0 | 0 | 3 | |
| ENE | | 1 | 5 | 2 | 0 | 0 | 0 | 8 | |
| \mathbf{E} | | 1 | 6 | 0 | 0 | 0 | 0 | 7 | |
| ESE | | 5 | 3 | 0 | 0 | 0 | 0 | 8 | |
| SE | | 10 | 13 | 1 | 0 | 0 | 0 | 24 | |
| SSE | | 13 | 13 | 0 | 0 | 0 | 0 | 26 | |
| S | | 16 | 27 | 0 | 0 | 0 | 0 | 43 | |
| SSW | | 23 | 48 | 0 | 0 | 0 | 0 | 71 | |
| SW | | 33 | 18 | 1 | 0 | 0 | 0 | 52 | |
| WSW | | 26 | 11 | 0 | 0 | 0 | 0 | 37 | |
| \mathbf{w} | | 23 | 23 | 0 | 0 | 0 | 0 | 46 | |
| WNW | | 13 | 4 | 0 | 0 | 0 | 0 | 17 | |
| NW | | 6 | 2 | 0 | 0 | 0 | 0 | 8 | |
| NNW | | 0 | 2 | 1 | 0 | 0 | 0 | 3 | |
| Total | | 177 | 183 | 5 | 1 | 0 | 0 | 366 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | 45 |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Period | | | All Hours | | | |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 366 | |
| tal Hours for the Pe | eriod: | | | | | | | 2184 | |

Report Printed On: 03/29/2021 11:18

Joint Frequency Distribution

| Period of Record = | = | | 04/01/2020 | | Period 7/01/2020 00:00 | All Hours | | | |
|-----------------------------|-------------|-------------------|----------------|----------|----------------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 Direction: | | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | F | | Delta Temperat | ure | Moderately S | Stable | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| NNE | | 1 | 1 | 0 | 0 | 0 | 0 | 2 | |
| NE | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| ENE | | 3 | 1 | 0 | 0 | 0 | 0 | 4 | |
| E | | 0 | 1 | 1 | 0 | 0 | 0 | 2 | |
| ESE | | .1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| SE | | 1 | 8 | 0 | 0 | 0 | 0 | 9 | |
| SSE | | 6 | 17 | 0 | 0 | 0 | 0 | 23 | |
| S | | 10 | 9 | 0 | 0 | 0 | 0 | 19 | |
| SSW | | 15 | 18 | 0 | 0 | 0 | 0 | 33 | |
| SW | | 10 | 2 | 0 | 0 | 0 | 0 | 12 | |
| wsw | | 10 | 1 | 0 | 0 | 0 | 0 | 11 | |
| W | | 11 | 0 | 0 | 0 | 0 | 0 | 11 | |
| WNW | | 14 | 1 | 0 | 0 | 0 | 0 | 15 | |
| NW | | 5 | 5 | 0 | 0 | 0 | 0 | 10 | |
| NNW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Total | | 90 | 65 | 1 | 0 | 0 | 0 | 156 | |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Hours for: | | | Total Period | | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Period | | | All Hours | | | |
| mber of Valid Hou | rs for this | s Table: | Total Pe | riod | | All Ho | urs | 156 | |
| al Hours for the Pe | eriod: | | | | | | | 2184 | |

| Period of Record = | = | | 04/01/2020 | | Period /01/2020 00:00 | All Hours | | | |
|---------------------|------------|-------------------|-----------------|----------|---------------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 Direction: | | : | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | G | | Delta Temperatu | re | Extremely St | able | | | |
| | | | | 7 | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 4 | 4 | 0 | 0 | 0 | 0 | 8 | |
| S | | 6 | 0 | 0 | 0 | 0 | 0 | 6 | |
| SSW | | 7 | 1 | 0 | 0 | 0 | 0 | 8 | |
| SW | | 5 | 0 | 0 | 0 | 0 | 0 | 5 | |
| WSW | | 6 | 0 | 0 | 0 | 0 | 0 | 6 | |
| \mathbf{w} | | 9 | 1 | 0 | 0 | 0 | 0 | 10 | |
| WNW | | 4 | 1 | 0 | 0 | 0 | 0 | 5 | |
| NW | | 3 | 0 | 0 | 0 | 0 | 0 | 3 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 44 | 7 | 0 | 0 | 0 | 0 | 51 | |
| m Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Per | iod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | iod | | All Ho | urs | 21 | |
| nber of Valid Hou | rs for thi | s Table: | Total Period | | | All Ho | urs | 51 | |
| al Hours for the Pe | eriod: | | | | | | | 2184 | |

Hours at Each Wind Speed and Direction

| Period of Record = | = | | 04/01/2020 | | <mark>l Period</mark> 7/01/2020 00:00 | All Hours 0 00:00 | | | |
|---------------------|------------|--------------|----------------|----------|--|----------------------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | ALL | | Delta Temperat | ure | | | | | |
| | | | | | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 22 | 40 | 21 | 31 | 1 | 0 | 115 | |
| NNE | | 21 | 42 | 25 | 43 | 4 | 0 | 135 | |
| NE | | 14 | 28 | 50 | 32 | 0 | 0 | 124 | |
| ENE | | 10 | 39 | 29 | 3 | 0 | 0 | 81 | |
| \mathbf{E} | | 7 | 48 | 23 | 0 | 0 | 0 | 78 | |
| ESE | | 12 | 24 | 4 | 0 | 0 | 0 | 40 | |
| SE | | 19 | 51 | 7 | 0 | 0 | 0 | 77 | |
| SSE | | 33 | 69 | 9 | 7 | 0 | 0 | 118 | |
| \mathbf{S} | | 42 | 88 | 23 | 19 | 0 | 0 | 172 | |
| SSW | | 64 | 160 | 28 | 5 | 1 | 0 | 258 | |
| SW | | 88 | 124 | 11 | 0 | 0 | 0 | 223 | |
| WSW | | 80 | 122 | 17 | 0 | 0 | 0 | 219 | |
| \mathbf{W} | | 75 | 99 | 24 | 0 | 0 | 0 | 198 | |
| WNW | | 63 | 46 | 2 | 0 | 0 | 0 | 111 | |
| NW | | 39 | 60 | 17 | 1 | 0 | 0 | 117 | |
| NNW | | 21 | 33 | 34 | 8 | 1 | 0 | 97 | |
| Total | | 610 | 1073 | 324 | 149 | 7 | 0 | 2163 | |
| lm Hours not Inclu | ded abov | e for: | Total Po | eriod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | Total Period | | | | All Ho | urs | 0 | |
| alid Hours for: | | Total Period | | | | All Ho | urs | 21 | |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | eriod | | All Ho | urs | 2163 | |
| al Hours for the Pe | eriod: | | | | | | | 2184 | |

Site: VC

Joint Frequency Distribution

| Period of Record = | = | | Total Period 07/01/2020 01:00 - 10/01/2020 00:00 | | | | | | All Hours | | |
|--|------------|----------|--|----------|------------|----------|-----------|--------|-----------|--|--|
| Elevation: | Speed: | SP10T1 | Directi | on: | DR10T1 | Lapse: | D | T61T1 | | | |
| Stability Class: | Α | | Delta Tempera | ture | Extremely | Unstable | | | | | |
| | | | | | Wind Speed | (mph) | | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18. | 9 1 | 9.0-23.9 | > 24.0 | Total | | |
| N | | 11 | 29 | 5 | | 0 | 1 | 0 | 46 | | |
| NNE | | 9 | 28 | 5 | | 8 | 2 | 0 | 52 | | |
| NE | | 4 | 31 | 33 | 3 | 0 | 0 | 0 | 98 | | |
| ENE | | 0 | 10 | 16 | | 0 | 0 | 0 | 26 | | |
| \mathbf{E} | | 0 | 7 | 7 | | 1 | 0 | 0 | 15 | | |
| ESE | | 0 | 2 | 3 | | 0 | 0 | 0 | 5 | | |
| SE | | 0 | 3 | 3 | | 0 | 0 | 0 | 6 | | |
| SSE | | 0 | 9 | 8 | | 0 | 0 | 0 | 17 | | |
| S | | 1 | 13 | 5 | | 1 | 0 | 0 | 20 | | |
| SSW | | 2 | 23 | 5 | | 0 | 0 | 0 | 30 | | |
| SW | | 9 | 59 | 3 | 9 | 0 | 0 | 0 | 71 | | |
| WSW | | 21 | 64 | 4 | | 0 | 0 | 0 | 89 | | |
| W | | 15 | 22 | 1 | | 0 | 0 | 0 | 38 | | |
| WNW | | 8 | 8 | 0 | 9 | 0 | 0 | 0 | 16 | | |
| NW | | 5 | 9 | 1 | | 0 | 0 | 0 | 15 | | |
| NNW | | 8 | 11 | 1 | | 0 | 0 | 0 | 20 | | |
| Total | | 93 | 328 | 100 | 4 | 0 | 3 | 0 | 564 | | |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | | | All Hours | | 0 | | |
| able Direction Hours for: Total Period | | | | eriod | | | All Hours | | 0 | | |
| alid Hours for: Total Perio | | | | eriod | | | All Hours | | 0 | | |
| nber of Valid Hou | rs for thi | s Table: | Total P | eriod | | | All Hours | | 564 | | |
| al Hours for the Pe | riod: | | | | | | | | 2208 | | |

| Period of Record = | = | | 07/01/202 | | 1 Period 0/01/2020 00:00 | í | All Hours | | |
|--|------------|----------|---------------|----------|------------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction: | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Tempera | ıture | Moderately l | Jnstable | | | |
| | | | | | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 6 | 12 | 8 | 2 | 2 | 0 | 30 | |
| NNE | | 2 | 12 | 10 | 8 | 5 | 0 | 37 | |
| NE | | 3 | 4 | 21 | 21 | 0 | 0 | 49 | |
| ENE | | 1 | 1 | 1 | 3 | 0 | 0 | 6 | |
| E | | 1 | 1 | 2 | 0 | 0 | 0 | 4 | |
| ESE | | 0 | 1 | 1 | 0 | 0 | 0 | 2 | |
| SE | | 0 | 4 | 4 | 0 | 0 | 0 | 8 | |
| SSE | | 1 | 6 | 4 | 1 | 0 | 0 | 12 | |
| S | | 0 | 8 | 2 | 0 | 0 | 0 | 10 | |
| SSW | | 1 | 14 | 3 | 0 | 0 | 0 | 18 | |
| SW | | 5 | 14 | 3 | 0 | 0 | 0 | 22 | |
| WSW | | 7 | 3 | 0 | 0 | 0 | 0 | 10 | |
| W | | 7 | 1 | 0 | 0 | 0 | 0 | 8 | |
| WNW | | 3 | 3 | 0 | 0 | 0 | 0 | 6 | |
| NW | | 4 | 4 | 0 | 0 | 0 | 0 | 8 | |
| NNW | | 1 | 3 | 4 | 0 | 0 | 0 | 8 | |
| Total | | 42 | 91 | 63 | 35 | 7 | 0 | 238 | |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | |
| able Direction Hours for: Total Period | | | | eriod | | All Ho | urs | 0 | |
| did Hours for: | | | | eriod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for thi | s Table: | Total P | eriod | | All Ho | urs | 238 | |
| al Hours for the Pe | riod: | | | | | | | 2208 | |

| Period of Record = | = | | 07/01/202 | | l Period 0/01/2020 00:0 | 0 | All Hours | | | |
|--|-------------------------------------|---------|---------------|----------|-----------------------------------|---------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | С | | Delta Tempera | ture | Slightly Uns | stable | | | | |
| | | | | | Wind Speed | mph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23 | .9 > 24.0 | Total | | |
| N | | 1 | 9 | 10 | (|) | 0 0 | 20 | | |
| NNE | | 2 | 12 | 20 | | | 1 0 | 44 | | |
| NE | | 0 | 8 | 39 | 13 | 5 | 0 0 | 62 | | |
| ENE | | 0 | 8 | 29 | 2 | 2 | 0 0 | 39 | | |
| \mathbf{E} | | 0 | 7 | 2 | |) | 0 0 | 9 | | |
| ESE | | 2 | 2 | 0 | (|) | 0 0 | 4 | | |
| SE | | 2 | 2 | 0 | (|) | 0 0 | 4 | | |
| SSE | | 3 | 9 | 1 | (|) | 0 0 | 13 | | |
| S | | 4 | 14 | 1 | (|) | 0 0 | 19 | | |
| SSW | | 1 | 12 | 0 | (|) | 0 0 | 13 | | |
| SW | | 3 | 5 | 1 | (|) | 0 0 | 9 | | |
| WSW | | 11 | 5 | 0 | (|) | 0 0 | 16 | | |
| W | | 4 | 0 | 0 | (|) | 0 0 | 4 | | |
| WNW | | 3 | 0 | 0 | (|) | 0 0 | 3 | | |
| NW | | 0 | 3 | 0 | (|) | 0 0 | 3 | | |
| NNW | | 3 | 4 | 1 |] | | 0 0 | 9 | | |
| Total | | 39 | 100 | 104 | 27 | 1 | 1 0 | 271 | | |
| lm Hours not Inclu | ded abov | e for: | Total P | eriod | | All | Hours | 0 | | |
| riable Direction Ho | e Direction Hours for: Total Period | | | | | All | Hours | 0 | | |
| alid Hours for: | lid Hours for: Total Period | | | | | All | Hours | 0 | | |
| umber of Valid Hours for this Table: Total Perio | | | | eriod | | All | Hours | 271 | | |
| al Hours for the Po | eriod: | | | | | | | 2208 | | |

| Period of Record = | = | | 07/01/2020 | | Period /01/2020 00:00 |) | All Hours | | |
|---------------------------|-------------|----------|-----------------|----------|---------------------------------|---------------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Temperati | ıre | Neutral | | | | |
| | | | | 1 | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 8 | 6 | 2 | 0 | 0 | 0 | 16 | |
| NNE | | 4 | 14 | 9 | 5 | 0 | 0 | 32 | |
| NE | | 3 | 21 | 19 | 0 | 0 | 0 | 43 | |
| ENE | | 4 | 26 | 25 | 3 | 0 | 0 | 58 | |
| \mathbf{E} | | 5 | 20 | 13 | 2 | 0 | 0 | 40 | |
| ESE | | 7 | 13 | 0 | 0 | 0 | 0 | 20 | |
| SE | | 7 | 20 | 1 | 0 | 0 | 0 | 28 | |
| SSE | | 14 | 40 | 5 | 0 | 0 | 0 | 59 | |
| S | | 12 | 24 | 1 | 0 | 0 | 0 | 37 | |
| SSW | | 35 | 38 | 6 | 0 | 0 | 0 | 79 | |
| SW | | 27 | 36 | 1 | 0 | 0 | 0 | 64 | |
| WSW | | 28 | 7 | 0 | 0 | 0 | 0 | 35 | |
| \mathbf{w} | | 11 | 4 | 0 | 0 | 0 | 0 | 15 | |
| WNW | | 11 | 6 | 0 | 0 | 0 | 0 | 17 | |
| NW | | 6 | 9 | 2 | 0 | 0 | 0 | 17 | |
| NNW | | 3 | 6 | 1 | 0 | 0 | 0 | 10 | |
| Total | | 185 | 290 | 85 | 10 | 0 | 0 | 570 | |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| able Direction Hours for: | | | Total Period | | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Period | | | All Hours 0 | | | |
| nber of Valid Hou | rs for this | s Table: | Total Pe | riod | | All Hours 570 | | | |
| al Hours for the Pe | eriod: | | | | | | | 2208 | |

| Period of Record = | = | | 07/01/2020 | | Period All Hours //01/2020 00:00 | | | | |
|----------------------|------------|----------|-----------------|----------|---------------------------------------|---------------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | E | | Delta Temperati | ure | Slightly Stab | le | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 1 | 2 | 1 | 0 | 0 | 4 | |
| NNE | | 1 | 1 | 1 | 0 | 0 | 0 | 3 | |
| NE | | 1 | 1 | 0 | 0 | 0 | 0 | 2 | |
| ENE | | 1 | 5 | 1 | 0 | 0 | 0 | 7 | |
| \mathbf{E} | | 6 | 5 | 0 | 0 | 0 | 0 | 11 | |
| ESE | | 4 | 5 | 0 | 0 | 0 | 0 | 9 | |
| SE | | 14 | 25 | 0 | 0 | 0 | 0 | 39 | |
| SSE | | 29 | 43 | 0 | 0 | 0 | 0 | 72 | |
| S | | 26 | 20 | 0 | 0 | 0 | 0 | 46 | |
| SSW | | 33 | 28 | 0 | 0 | 0 | 0 | 61 | |
| SW | | 61 | 6 | 0 | 0 | 0 | 0 | 67 | |
| WSW | | 39 | 8 | 0 | 0 | 0 | 0 | 47 | |
| W | | 25 | 5 | 0 | 0 | 0 | 0 | 30 | |
| WNW | | 17 | 2 | 0 | 0 | 0 | 0 | 19 | |
| NW | | 14 | 0 | 0 | 0 | 0 | 0 | 14 | |
| NNW | | 3 | 1 | 0 | 0 | 0 | 0 | 4 | |
| Total | | 274 | 156 | 4 | 1 | 0 | 0 | 435 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | eriod | , , , , , , , , , , , , , , , , , , , | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for thi | s Table: | Total Period | | | All Hours 435 | | | |
| tal Hours for the Pe | eriod: | | | | | | | 2208 | |

| Period of Record = | a | | 07/01/2020 | Total 01:00 - 10 | All Hours | | | | |
|----------------------------|------------|----------|-------------------|---------------------|---------------|---------------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | F | | Delta Temperatu | ıre | Moderately S | Stable | | | |
| | | | | | Wind Speed (n | iph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 6 | 0 | 0 | 0 | 0 | 6 | |
| SSE | | 9 | 6 | 0 | 0 | 0 | 0 | 15 | |
| S | | 14 | 2 | 0 | 0 | 0 | 0 | 16 | |
| SSW | | 12 | 4 | 0 | 0 | 0 | 0 | 16 | |
| SW | | 23 | 3 | 0 | 0 | 0 | 0 | 26 | |
| WSW | | 6 | 0 | 0 | 0 | 0 | 0 | 6 | |
| \mathbf{W} | | 4 | 0 | 0 | 0 | 0 | 0 | 4 | |
| WNW | | 6 | 0 | 0 | 0 | 0 | 0 | 6 | |
| NW | | 6 | 0 | 0 | 0 | 0 | 0 | 6 | |
| NNW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Total | | 84 | 21 | 0 | 0 | 0 | 0 | 105 | |
| lm Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 | |
| iable Direction Hours for: | | | Total Period | | | All Hours | | | |
| alid Hours for: | | | Total Period | | | All Hours | | | |
| mber of Valid Hou | rs for thi | s Table: | ole: Total Period | | | All Hours 105 | | | |
| al Hours for the Pe | eriod: | | | | | | | 2208 | |

| Period of Record = | = | | 07/01/2020 (| Total 01:00 - 10/ | Period '01/2020 00:00 | | All Hours | | |
|------------------------|------------|------------|------------------|------------------------|--------------------------|-----------|-----------|-------|---|
| Elevation: | Speed: | SP10T1 | Direction | :] | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | G | | Delta Temperatur | e | Extremely St | able | | | |
| | | | | 1 | Vind Speed (m | iph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| SSW | | 1 | 1 | 0 | 0 | 0 | 0 | 2 | |
| $\mathbf{s}\mathbf{w}$ | | 9 | 0 | 0 | 0 | 0 | 0 | 9 | |
| WSW | | 8 | 0 | 0 | 0 | 0 | 0, | 8 | |
| \mathbf{w} | | 3 | 0 | 0 | 0 | 0 | 0 1 | 3 | |
| WNW | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 23 | 2 | 0 | 0 | 0 | 0 | 25 | • |
| m Hours not Inclu | ded abov | e for: | Total Peri | od | | All Ho | urs | 0 | |
| riable Direction Ho | | Total Peri | Total Period | | | urs | 0 | | |
| alid Hours for: | | | Total Period | | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for thi | s Table: | Total Peri | od | | All Ho | urs | 25 | |
| al Hours for the Pe | riod: | | | | | | | 2208 | |

| Period of Record = | = | | 07/01/202 | | l Period 0/01/2020 00:00 |) | All Hours | | |
|----------------------------|------------|----------|---------------|----------|-----------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direct | ion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | ALL | | Delta Tempera | ature | | | | | |
| | | | | | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 27 | 57 | 27 | 3 | 3 | 0 | 117 | |
| NNE | | 18 | 67 | 45 | 30 | 8 | 0 | 168 | |
| NE | | 12 | 65 | 112 | 66 | 0 | 0 | 255 | |
| ENE | | 6 | 50 | 72 | 8 | 0 | 0 | 136 | |
| E | | 13 | 40 | 24 | 3 | 0 | 0 | 80 | |
| ESE | | 13 | 23 | 4 | 0 | 0 | 0 | 40 | |
| SE | | 23 | 60 | 8 | 0 | 0 | 0 | 91 | |
| SSE | | 56 | 113 | 18 | 1 | 0 | 0 | 188 | |
| S | | 57 | 82 | 9 | 1 | 0 | 0 | 149 | |
| SSW | | 85 | 120 | 14 | 0 | 0 | 0 | 219 | |
| sw | | 137 | 123 | 8 | 0 | 0 | 0 | 268 | |
| WSW | | 120 | 87 | 4 | 0 | 0 | 0 | 211 | |
| \mathbf{w} | | 69 | 32 | 1 | 0 | 0 | 0 | 102 | |
| WNW | | 50 | 19 | 0 | 0 | 0 | 0 | 69 | |
| NW | | 35 | 25 | 3 | 0 | 0 | 0 | 63 | |
| NNW | | 19 | 25 | 7 | 1 | 0 | 0 | 52 | |
| Total | | 740 | 988 | 356 | 113 | 11 | 0 | 2208 | |
| m Hours not Inclu | ded abov | e for: | Total I | Period | | All Ho | urs | 0 | |
| iable Direction Hours for: | | | Total Period | | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Period | | | All Hours | | | |
| mber of Valid Hou | rs for thi | s Table: | Total I | Period | | All Ho | urs | 2208 | |
| al Hours for the Pe | riod: | | | | | | | 2208 | |

Site: VC

Joint Frequency Distribution

| Period of Record = | = | | 10/01/2020 (| | Period /01/2021 00:00 | All Hours | | | |
|---|------------|----------|------------------|----------|--------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | : | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | Α | | Delta Temperatur | e | Extremely U | nstable | | | |
| | | | | | Wind Speed (1 | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 7 | 14 | 4 | 1 | 0 | 0 | 26 | |
| NNE | | 3 | 14 | 7 | 9 | 0 | 0 | 33 | |
| NE | | 0 | 14 | 19 | 2 | 0 | 0 | 35 | |
| ENE | | 0 | 13 | 5 | 0 | 0 | 0 | 18 | |
| \mathbf{E} | | 0 | 3 | 2 | 0 | 0 | 0 | 5 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| SSE | | 0 | 0 | 1 | 0 | 0 | 0 | 1. | |
| S | | 0 | 4 | 0 | 0 | 0 | 0 | 4 | |
| SSW | | 1 | 4 | 0 | 0 | 0 | 0 | 5 | |
| SW | | 1 | 15 | 5 | 1 | 0 | 0 | 22 | |
| WSW | | 5 | 14 | 7 | 0 | 0 | 0 | 26 | |
| W | | 11 | 15 | 7 | 0 | 0 | 0 | 33 | |
| WNW | | 9 | 10 | 0 | 0 | 0 | 0 | 19 | |
| NW | | 11 | 19 | 1 | 0 | 0 | 0 | 31 | |
| NNW | | 4 | 11 | 3 | 0 | 0 | 0 | 18 | |
| Total | | 52 | 151 | 61 | 13 | 0 | 0 | 277 | |
| m Hours not Inclu | ded abov | e for: | Total Peri | od | | All Ho | urs | 1 | |
| iable Direction Hours for: Total Period | | | | od | | All Ho | urs | 0 | |
| valid Hours for: Total Perio | | | | od | | All Ho | urs | 17 | |
| nber of Valid Hou | rs for thi | s Table: | Total Peri | od | | All Ho | urs | 277 | |
| al Hours for the Po | eriod: | | | | | | | 2208 | |

| Danied of December | | | 10/01/202 | | Period | All Hours | | | |
|---|-------------------|----------|----------------|-------------|---|-----------|--------|-------|---|
| Period of Record = | = | | 10/01/202 | 0 01:00 - 0 | 1/01/2021 00:0 | 90 | | | |
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Temperat | ture | Moderately | Unstable | | | |
| | | | | | Wind Speed | (mph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18. | 19.0-23.9 | > 24.0 | Total | |
| N | | 2 | 11 | 8 | : | 5 0 | 0 | 26 | |
| NNE | | 0 | 10 | 15 | 19 |) 1 | 0 | 45 | |
| NE | | 1 | 8 | 14 | 10 | 0 | 0 | 33 | |
| ENE | | 1 | 8 | 9 | 3 | 2 0 | 0 | 20 | |
| \mathbf{E} | | 0 | 2 | 5 | (|) 0 | 0 | 7 | |
| ESE | | 1 | 4 | 0 | | 0 | 0 | 5 | |
| SE | | 0 | 1 | 1 | 1 |) 0 | 0 | 2 | |
| SSE | | 0 | 2 | 1 | (| 0 | 0 | 3 | |
| S | | 1 | 1 | 0 | (| 0 | 0 | 2 | |
| SSW | | 3 | 2 | 0 | (|) 0 | 0 | 5 | |
| SW | | 0 | 6 | 2 | (|) 0 | 0 | 8 | |
| WSW | | 8 | 1 | 2 | (| 0 | 0 | 11 | |
| W | | 3 | 2 | 1 | (|) 0 | 0 | 6 | |
| WNW | | 1 | 0 | 0 | (|) 0 | 0 | 1 | |
| NW | | 5 | 1 | 0 | | 0 | 0 | 7 | |
| NNW | 1210 W.K. 12 X W. | 3 | 4 | 3 | 4 | 1 | 0 | 15 | |
| Total | | 29 | 63 | 61 | 41 | 2 | 0 | 196 | |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | , | All H | ours | 1 | , - , - , - , - , - , - , - , - , - , - |
| iable Direction Hours for: Total Period | | | | eriod | | All H | ours | 0 | |
| alid Hours for: | | | | eriod | | All H | ours | 17 | |
| nber of Valid Hou | rs for thi | s Table: | Total P | eriod | | All H | ours | 196 | |
| al Hours for the Pe | eriod: | | | | | | | 2208 | |

Report Printed On: 03/29/2021 11:19

Joint Frequency Distribution

| Period of Record = | = | | 10/01/2020 | | Period 1/01/2021 00:00 | | All Hours | | | |
|-------------------------------|--|----------|-----------------|--------------|---------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Directio | tion: DR10T1 | | Lapse: | DT61T1 | | | |
| Stability Class: | С | | Delta Temperatu | ıre | Slightly Unsta | ablo | | | | |
| Stability Class. | C | | Dena Temperate | | Wind Speed (m | | | | | |
| | | | | | | | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 5 | 6 | 4 | 3 | 0 | 0 | 18 | | |
| NNE | | 0 | 8 | 16 | 5 | 0 | 0 | 29 | | |
| NE | | 2 | 11 | 35 | 3 | 0 | 0 | 51 | | |
| ENE | | 0 | 6 | 38 | 4 | 0 | 0 | 48 | | |
| \mathbf{E} | | 1 | 3 | 7 | 0 | 0 | 0 | 11 | | |
| ESE | | 0 | 5 | 2 | 0 | 0 | 0 | 7 | | |
| SE | | 2 | 12 | 2 | 0 | 0 | 0 | 16 | | |
| SSE | | 1 | 8 | 1 | 0 | 0 | 0 | 10 | | |
| S | | 1 | 9 | 2 | 1 | 0 | 0 | 13 | | |
| SSW | | 2 | 7 | 2 | 0 | 0 | 0 | 11 | | |
| SW | | 2 | 4 | 0 | 0 | 0 | 0 | 6 | | |
| WSW | | 3 | 2 | 2 | 0 | 0 | 0 | 7 | | |
| \mathbf{W} | | 6 | 0 | 1 | 0 | 0 | 0 | 7 | | |
| WNW | | 4 | 1 | 0 | 0 | 0 | 0 | 5 | | |
| NW | | 3 | 6 | 2 | 1 | 0 | 0 | 12 | | |
| NNW | | 4 | 1 | 2 | 3 | 0 | 0 | 10 | | |
| Total | | 36 | 89 | 116 | 20 | 0 | 0 | 261 | | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 1 | | |
| riable Direction Ho | able Direction Hours for: Total Period | | | | | All Ho | urs | 0 | | |
| valid Hours for: Total Period | | | | | | All Ho | urs | 17 | | |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 261 | | |
| tal Hours for the Pe | eriod: | | | | | | | 2208 | | |

| Period of Record = | = | | Total Period 10/01/2020 01:00 - 01/01/2021 00:00 | | | | | All Hours | | |
|---------------------|---|---------|---|----------|---------------|-----------|--------|-----------|--|--|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | D | | Delta Temperatu | ıre | Neutral | | | | | |
| | | | | | Wind Speed (n | nph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 11 | 14 | 4 | 0 | 1 | 0 | 30 | | |
| NNE | | 4 | 26 | 9 | - 1 | 0 | 0 | 40 | | |
| NE | | 3 | 31 | 38 | 2 | 0 | 0 | 74 | | |
| ENE | | 2 | 21 | 63 | 1 | 0 | 0 | 87 | | |
| \mathbf{E} | | 7 | 42 | 16 | 0 | 0 | 0 | 65 | | |
| ESE | | 1 | 23 | 2 | 0 | 0 | 0 | 26 | | |
| SE | | 6 | 28 | 7 | 0 | 0 | 0 | 41 | | |
| SSE | | 8 | 33 | 9 | 0 | 0 | 0 | 50 | | |
| S | | 5 | 16 | 12 | 5 | 2 | 0 | 40 | | |
| SSW | | 18 | 18 | 8 | 3 | 2 | 0 | 49 | | |
| SW | | 17 | 9 | 3 | 0 | 0 | 0 | 29 | | |
| WSW | | 17 | 19 | 8 | 0 | 0 | 0 | 44 | | |
| \mathbf{w} | | 18 | 34 | 9 | 0 | 0 | 0 | 61 | | |
| WNW | | 20 | 3 | 0 | 0 | 0 | 0 | 23 | | |
| NW | | 6 | 5 | 2 | 0 | 0 | 0 | 13 | | |
| NNW | | 6 | 7 | 10 | 1 | 0 | 0 | 24 | | |
| Total | | 149 | 329 | 200 | 13 | 5 | 0 | 696 | | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 1 | | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 17 | | |
| mber of Valid Hou | alid Hours for this Table: Total Period | | | | | All Ho | urs | 696 | | |
| al Hours for the Pe | eriod: | | | | | | | 2208 | | |

| Period of Record = | = | | 10/01/2020 | | Period /01/2021 00:00 | | All Hours | | | |
|----------------------|------------|----------|-----------------|----------|--------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | E | | Delta Temperati | ure | Slightly Stable |) | | | | |
| | | | | , | Wind Speed (m | oh) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 8 | 2 | 4 | 1 | 0 | 0 | 15 | | |
| NNE | | 2 | 11 | 1 | 0 | 0 | 0 | 14 | | |
| NE | | 5 | 1 | 3 | 0 | 0 | 0 | 9 | | |
| ENE | | 5 | 3 | 2 | 0 | 0 | 0 | 10 | | |
| \mathbf{E} | | 3 | 22 | 1 | 0 | 0 | 0 | 26 | | |
| ESE | | 5 | 6 | 0 | 0 | 0 | 0 | 11 | | |
| SE | | 8 | 22 | 2 | 0 | 0 | 0 | 32 | | |
| SSE | | 22 | 11 | 2 | 0 | 0 | 0 | 35 | | |
| S | | 8 | 13 | 0 | 0 | 0 | 0 | 21 | | |
| SSW | | 21 | 11 | 0 | 0 | 0 | 0 | 32 | | |
| SW | | 19 | 3 | 0 | 0 | 0 | 0 | 22 | | |
| WSW | | 25 | 7 | 0 | 0 | 0 | 0 | 32 | | |
| W | | 21 | 10 | 1 | 0 | 0 | 0 | 32 | | |
| WNW | | 12 | 2 | 0 | 0 | 0 | 0 | 14 | | |
| NW | | 8 | 9 | 0 | 0 | 0 | 0 | 17 | | |
| NNW | | 4 | 0 | 0 | 0 | 0 | 0 | 4 | | |
| Total | | 176 | 133 | 16 | 1 | 0 | 0 | 326 | | |
| alm Hours not Inclu | ded abov | e for: | Total Pe | eriod | | All Ho | urs | 1 | | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | | |
| valid Hours for: | | | Total Pe | riod | | All Ho | urs | 17 | | |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 326 | | |
| tal Hours for the Pe | eriod: | | | | | | | 2208 | | |

| Period of Record = | | | 10/01/201 | Total | Period /01/2021 00:00 | All Hours | | | |
|-----------------------------|--|---------|---------------|----------|--------------------------|-----------|--------|-------|--|
| | | W | | | | | | | |
| Elevation: | Speed: | SP10T1 | Direct | ion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | F | | Delta Tempera | ature | Moderately S | table | | | |
| | | | | , | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 1 | 1 | 0 | 0 | 0 | 0 | 2 | |
| NNE | | 2 | 3 | 0 | 0 | 0 | 0 | 5 | |
| NE | | 1 | 2 | 0 | 0 | 0 | 0 | 3 | |
| ENE | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| E | | 5 | 0 | 0 | 0 | 0 | 0 | 5 | |
| ESE | | 3 | 0 | 0 | 0 | 0 | 0 | 3 | |
| SE | | 9 | 12 | 0 | 0 | 0 | 0 | 21 | |
| SSE | | 21 | 13 | 0 | 0 | 0 | 0 | 34 | |
| S | | 26 | 13 | 0 | 0 | 0 | 0 | 39 | |
| SSW | | 13 | 4 | 0 | 0 | 0 | 0 | 17 | |
| $\mathbf{s}\mathbf{w}$ | | 23 | 2 | 0 | 0 | 0 | 0 | 25 | |
| wsw | | 26 | 4 | 0 | 0 | 0 | 0 | 30 | |
| \mathbf{w} | | 9 | 3 | 0 | 0 | 0 | 0 | 12 | |
| WNW | | 12 | 0 | 0 | 0 | 0 | 0 | 12 | |
| NW | | 4 | 2 | 0 | 0 | 0 | 0 | 6 | |
| NNW | | 4 | 1 | 0 | 0 | 0 | 0 | 5 | |
| Total | | 161 | 60 | 0 | 0 | 0 | 0 | 221 | |
| lm Hours not Inclu | ded abov | e for: | Total I | Period | | All Ho | urs | 1 | |
| riable Direction Ho | ble Direction Hours for: Total Period | | | | | All Ho | urs | 0 | |
| lid Hours for: Total Period | | | | Period | | All Ho | urs | 17 | |
| mber of Valid Hou | nber of Valid Hours for this Table: Total Period | | | | | All Ho | urs | 221 | |
| al Hours for the Pe | | | | | | | | 2208 | |

| Period of Record = | - | | 10/01/2020 | | Period /01/2021 00:00 | | All Hours | | | |
|----------------------|------------|----------|-----------------|----------|---------------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | G | | Delta Temperatu | re | Extremely St | able | | | | |
| | | | | , | Wind Speed (m | ph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNE | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | | |
| NE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| ENE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ESE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| SE | | 1 | 1 | 0 | 0 | 0 | 0 | 2 | | |
| SSE | | 5 | 6 | 0 | 0 | 0 | 0 | 11 | | |
| S | | 17 | 5 | 0 | 0 | 0 | 0 | 22 | | |
| SSW | | 21 | 3 | 0 | 0 | 0 | 0 | 24 | | |
| SW | | 46 | 2 | 0 | 0 | 0 | 0 | 48 | | |
| WSW | | 53 | 1 | 0 | 0 | 0 | 0 | 54 | | |
| W | | 35 | 0 | 0 | 0 | 0 | 0 | 35 | | |
| WNW | | 8 | 0 | 0 | 0 | 0 | 0 | 8 | | |
| NW | | 3 | 0 | 0 | 0 | 0 | 0 | 3 | | |
| NNW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| Total | | 195 | 18 | 0 | 0 | 0 | 0 | 213 | | |
| lm Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 1 | | |
| riable Direction Ho | urs for: | | Total Per | iod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total Per | riod | | All Ho | urs | 17 | | |
| mber of Valid Hou | rs for thi | s Table: | Total Per | riod | | All Ho | urs | 213 | | |
| tal Hours for the Po | riod: | | | | | | | 2208 | | |

| Period of Record = | 5 | | 10/01/2020 | | l <mark>Period</mark> 1/01/2021 00:00 |) | | All Hours | |
|---------------------|------------------------|----------|------------------|----------|--|-----------|--------|-----------|--|
| Elevation: | Speed: | SP10T1 | Direction | : | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | ALL | | Delta Temperatur | re | | | | | |
| | | | | | Wind Speed (r | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 34 | 48 | 24 | 10 | 1 | 0 | 117 | |
| NNE | | 13 | 72 | 48 | 34 | 1 | 0 | 168 | |
| NE | | 13 | 67 | 109 | 17 | 0 | 0 | 206 | |
| ENE | | 11 | 51 | 117 | 7 | 0 | 0 | 186 | |
| E | | 16 | 72 | 31 | 0 | 0 | 0 | 119 | |
| ESE | | 11 | 38 | 4 | 0 | 0 | 0 | 53 | |
| SE | | 26 | 77 | 12 | 0 | 0 | 0 | 115 | |
| SSE | | 57 | 73 | 14 | 0 | 0 | 0 | 144 | |
| S | | 58 | 61 | 14 | 6 | 2 | 0 | 141 | |
| SSW | | 79 | 49 | 10 | 3 | 2 | 0 | 143 | |
| SW | | 108 | 41 | 10 | 1 | 0 | 0 | 160 | |
| WSW | | 137 | 48 | 19 | 0 | 0 | 0 | 204 | |
| \mathbf{w} | | 103 | 64 | 19 | 0 | 0 | 0 | 186 | |
| WNW | | 66 | 16 | 0 | 0 | 0 | 0 | 82 | |
| NW | | 40 | 42 | 5 | 2 | 0 | 0 | 89 | |
| NNW | | 26 | 24 | 18 | 8 | 1 | 0 | 77 | |
| Total | | 798 | 843 | 454 | 88 | 7 | 0 | 2190 | |
| m Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 1 | |
| riable Direction Ho | urs for: | | Total Per | iod | | All Ho | urs | 0 | |
| alid Hours for: | ours for: Total Period | | | | All Ho | urs | 17 | | |
| mber of Valid Hou | rs for thi | s Table: | Total Per | iod | | All Ho | urs | 2190 | |
| al Hours for the Po | eriod: | | | | | | | 2208 | |

Annual Summary

Site: VC

Joint Frequency Distribution

| Period of Record = | | | 01/01/2020 | | Period 1/01/2021 00:0 | 0 | All Hours | | | |
|----------------------|------------|----------|----------------|----------|---------------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Directio | on: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | Α | | Delta Temperat | ure | Extremely l | Instable | | | | |
| | | | | | Wind Speed (| mph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 28 | 59 | 15 | 14 | 2 | 0 | 118 | | |
| NNE | | 22 | 64 | 18 | 61 | 5 | 0 | 170 | | |
| NE | | 9 | 55 | 67 | 52 | 0 | 0 | 183 | | |
| ENE | | 2 | 36 | 33 | 1 | 0 | 0 | 72 | | |
| ${f E}$ | | 2 | 14 | 15 | 1 | 0 | 0 | 32 | | |
| ESE | | 0 | 3 | 3 | 0 | 0 | 0 | 6 | | |
| SE | | 0 | 6 | 4 | 0 | 0 | 0 | 10 | | |
| SSE | | 0 | 12 | 11 | 0 | 0 | 0 | 23 | | |
| S | | 3 | 30 | 14 | 9 | 0. | 0 | 56 | | |
| SSW | | 3 | 57 | 19 | 2 | 0 | 0 | 81 | | |
| SW | | 20 | 141 | 31 | 1 | 0 | 0 | 193 | | |
| WSW | | 35 | 158 | 33 | 0 | 0 | 0 | 226 | | |
| \mathbf{w} | | 39 | 96 | 25 | 1 | 0 | 0 | 161 | | |
| WNW | | 27 | 59 | 5 | 0 | 0 | 0 | 91 | | |
| NW | | 23 | 59 | 21 | 1 | 0 | 0 | 104 | | |
| NNW | | 23 | 41 | 21 | 5 | 1 | 0 | 91 | | |
| Total | | 236 | 890 | 335 | 148 | 8 | 0 | 1617 | | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | eriod | | All Ho | urs | 1 | | |
| riable Direction Ho | urs for: | | Total Pe | eriod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total Pe | eriod | | All Ho | urs | 38 | | |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | eriod | | All Ho | urs | 1617 | | |
| tal Hours for the Pe | riod: | | | | | | | 8784 | | |

| Period of Record = | _ | | 01/01/2020 | | Period 1/01/2021 00:00 | | All Hours | | |
|---------------------|-----------------------|----------|----------------|-------------|-------------------------------|-----------|-----------|-------|--|
| | - | | 01/01/2020 | 0 01:00 - 0 | 1/01/2021 00:00 | | | | |
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Temperat | ture | Moderately | Jnstable | | | |
| | | | | | Wind Speed (r | aph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 10 | 32 | 27 | 27 | 4 | 0 | 100 | |
| NNE | | 7 | 26 | 38 | 65 | 8 | 0 | 144 | |
| NE | | 6 | 21 | 52 | 52 | 0 | 0 | 131 | |
| ENE | | 2 | 13 | 17 | 15 | 0 | 0 | 47 | |
| ${f E}$ | | 2 | 7 | 13 | 0 | 0 | 0 | 22 | |
| ESE | | 1 | 9 | 4 | 0 | 0 | 0 | 14 | |
| SE | | 1 | 8 | 8 | 0 | 0 | 0 | 17 | |
| SSE | | 2 | 12 | 11 | 1 | 0 | 0 | 26 | |
| S | | 2 | 23 | 7 | 3 | 0 | 0 | 35 | |
| SSW | | 7 | 29 | 6 | 1 | 0 | 0 | 43 | |
| SW | | 18 | 41 | 9 | 0 | 0 | 0 | 68 | |
| WSW | | 21 | 12 | 9 | 0 | 0 | 0 | 42 | |
| \mathbf{w} | | 17 | 12 | 10 | 0 | 0 | 0 | 39 | |
| WNW | | 17 | 17 | 0 | 0 | 0 | 0 | 34 | |
| NW | | 13 | 13 | 1 | 3 | 0 | 0 | 30 | |
| NNW | | 8 | 8 | 14 | 10 | 1 | 0 | 41 | |
| Total | | 134 | 283 | 226 | 177 | 13 | 0 | 833 | |
| m Hours not Inclu | ded abov | e for: | Total Po | eriod | | All Ho | urs | 1 | |
| riable Direction Ho | urs for: | | Total Po | eriod | | All Ho | urs | 0 | |
| alid Hours for: | rrs for: Total Period | | | | | All Ho | urs | 38 | |
| mber of Valid Hou | rs for thi | s Table: | Total Po | eriod | | All Ho | urs | 833 | |
| al Hours for the Po | eriod: | | | | | | | 8784 | |

| Period of Record = | _ | | 01/01/202 | | l <mark>Period</mark> 1/01/2021 00:0 | All Hours | | | |
|------------------------|--|---------|---------------|----------|---|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Directi | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | С | | Delta Tempera | ture | Slightly Uns | stable | | | |
| | | | | | Wind Speed (| mph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 11 | 22 | 29 | 8 | 0 | 0 | 70 | |
| NNE | | 5 | 34 | 66 | 25 | 2 | 0 | 132 | |
| NE | | 7 | 31 | 111 | 35 | 1 | 0 | 185 | |
| ENE | | 0 | 24 | 107 | 8 | 0 | 0 | 139 | |
| E | | 2 | 22 | 30 | (| 0 | 0 | 54 | |
| ESE | | 4 | 13 | 4 | (| 0 | 0 | 21 | |
| SE | | 5 | 20 | 7 | (| 0 | 0 | 32 | |
| SSE | | 8 | 31 | 6 | 2 | . 0 | 0 | 47 | |
| S | | 9 | 37 | 8 | 6 | 0 | 0 | 60 | |
| SSW | | 9 | 35 | 3 | 1 | 0 | 0 | 48 | |
| $\mathbf{s}\mathbf{w}$ | | 16 | 29 | 7 | (| 0 | 0 | 52 | |
| WSW | | 18 | 17 | 3 | (| 0 | 0 | 38 | |
| \mathbf{w} | | 13 | 10 | 2 | (| 0 | 0 | 25 | |
| WNW | | 13 | 4 | 0 | (| 0 | 0 | 17 | |
| NW | | 13 | 22 | 5 | 2 | . 0 | 0 | 42 | |
| NNW | | 11 | 9 | 8 | 5 | 1 | 0 | 34 | |
| Total | | 144 | 360 | 396 | 92 | . 4 | 0 | 996 | |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | ours | 1 | |
| iable Direction Ho | ection Hours for: Total Period | | | eriod | | All Ho | ours | 0 | |
| alid Hours for: | l Hours for: Total Period | | | | | All Ho | ours | 38 | |
| nber of Valid Hou | nber of Valid Hours for this Table: Total Period | | | | | All Ho | ours | 996 | |
| al Hours for the Pe | eriod: | | | | | | | 8784 | |

| Period of Record = | = | | 01/01/2020 | Total 1 | Period /01/2021 00:00 | | All Hours | | |
|---------------------|------------|----------|-------------------|----------|---------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | SP10T1 Direction: | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Temperatu | ire | Neutral | | | | |
| | | | | 1 | Wind Speed (m | iph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 26 | 45 | 19 | 9 | 1 | 0 | 100 | |
| NNE | | 17 | 67 | 31 | 18 | 2 | 0 | 135 | |
| NE | | 14 | 71 | 92 | 8 | 0 | 0 | 185 | |
| ENE | | 14 | 89 | 120 | 4 | 0 | 0 | 227 | |
| \mathbf{E} | | 19 | 133 | 60 | 2 | 0 | 0 | 214 | |
| ESE | | 14 | 76 | 6 | 0 | 0 | 0 | 96 | |
| SE | | 24 | 98 | 12 | 0 | 0 | 0 | 134 | |
| SSE | | 47 | 106 | 30 | 6 | 0 | 0 | 189 | |
| S | | 41 | 102 | 45 | 16 | 2 | 0 | 206 | |
| SSW | | 81 | 156 | 59 | 14 | 3 | 0 | 313 | |
| SW | | 90 | 139 | 17 | 1 | 0 | 0 | 247 | |
| WSW | | 85 | 108 | 15 | 2 | 0 | 0 | 210 | |
| W | | 67 | 97 | 26 | 0 | 0 | 0 | 190 | |
| WNW | | 60 | 27 | 2 | 0 | 0 | 0 | 89 | |
| NW | | 38 | 49 | 10 | 1 | 0 | 0 | 98 | |
| NNW | | 21 | 35 | 23 | 2 | 0 | 0 | 81 | |
| Total | | 658 | 1398 | 567 | 83 | 8 | 0 | 2714 | |
| lm Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 1 | |
| riable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | riod | | All Ho | urs | 38 | |
| mber of Valid Hou | rs for thi | s Table: | Total Per | riod | | All Ho | urs | 2714 | |
| al Hours for the Po | eriod: | | | | | | | 8784 | |

| Period of Record = | = | | 01/01/202 | | Period 1/01/2021 00:00 | | | All Hours | |
|---------------------|------------|----------|---------------|----------|-------------------------------|-----------|--------|-----------|--|
| Elevation: | Speed: | SP10T1 | Directi | ion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | E | | Delta Tempera | iture | Slightly Stab | le | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 16 | 10 | 7 | 3 | 0 | 0 | 36 | |
| NNE | | 7 | 26 | 3 | 0 | 0 | 0 | 36 | |
| NE | | 12 | 8 | 3 | 0 | 0 | 0 | 23 | |
| ENE | | 12 | 16 | 5 | 0 | 0 | 0 | 33 | |
| E | | 17 | 37 | 2 | 0 | 0 | 0 | 56 | |
| ESE | | 19 | 20 | 0 | 0 | 0 | 0 | 39 | |
| SE | | 38 | 73 | 4 | 0 | 0 | 0 | 115 | |
| SSE | | 75 | 79 | 2 | 0 | 0 | 0 | 156 | |
| S | | 64 | 82 | 3 | 1 | 0 | 0 | 150 | |
| SSW | | 109 | 134 | 2 | 0 | 0 | 0 | 245 | |
| SW | | 156 | 70 | 1 | 0 | 0 | 0 | 227 | |
| WSW | | 136 | 45 | 0 | 0 | 0 | 0 | 181 | |
| \mathbf{w} | | 104 | 71 | 1 | 0 | 0 | 0 | 176 | |
| WNW | | 59 | 13 | 0 | 0 | 0 | 0 | 72 | |
| NW | | 41 | 17 | 1 | 0 | 0 | 0 | 59 | |
| NNW | | 16 | 7 | 3 | 0 | 0 | 0 | 26 | |
| Total | | 881 | 708 | 37 | 4 | 0 | 0 | 1630 | |
| m Hours not Inclu | ded abov | e for: | Total I | eriod | | All Ho | urs | 1 | |
| riable Direction Ho | urs for: | | Total F | Period | | All Ho | urs | 0 | |
| alid Hours for: | | | Total F | Period | All Hours 38 | | | | |
| mber of Valid Hou | rs for thi | s Table: | Total F | Period | | All Ho | urs | 1630 | |
| al Hours for the Pe | eriod: | | | | | | | 8784 | |

| Period of Record | = | | 01/01/2020 | Total 1 01:00 - 01/ | Period 01/2021 00:00 | | All Hours | | |
|---------------------|------------|----------|------------------|------------------------|-------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | : 1 | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | F | | Delta Temperatur | re | Moderately St | able | | | |
| | | | | V | Vind Speed (m) | oh) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 4 | 3 | 0 | 0 | 0 | 0 | 7 | |
| NNE | | 6 | 4 | 0 | 0 | 0 | 0 | 10 | |
| NE | | 7 | 3 | 0 | 0 | 0 | 0 | 10 | |
| ENE | | 5 | 1 | 0 | 0 | 0 | 0 | 6 | |
| \mathbf{E} | | 6 | 1 | 1 | 0 | 0 | 0 | 8 | |
| ESE | | 6 | 0 | 0 | 0 | 0 | 0 | 6 | |
| SE | | 11 | 30 | 0 | 0 | 0 | 0 | 41 | |
| SSE | | 39 | 45 | 0 | 0 | 0 | 0 | 84 | |
| \mathbf{S} | | 56 | 31 | 0 | 0 | 0 | 0 | 87 | |
| SSW | | 48 | 27 | .0 | 0 | 0 | 0 | 75 | |
| SW | | 70 | 8 | 0 | 0 | 0 | 0 | 78 | |
| WSW | | 53 | 11 | 0 | 0 | 0 | 0 | 64 | |
| \mathbf{w} | | 31 | 5 | 0 | 0 | 0 | 0 | 36 | |
| WNW | | 35 | 3 | 0 | 0 | 0 | 0 | 38 | |
| NW | | 18 | 8 | 0 | 0 | 0 | 0 | 26 | |
| NNW | | 9 | 1 | 0 | 0 | 0 | 0 | 10 | |
| Total | | 404 | 181 | 1 | 0 | 0 | 0 | 586 | |
| m Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 1 | |
| iable Direction Ho | urs for: | | Total Per | iod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | iod | | All Ho | urs | 38 | |
| nber of Valid Hou | rs for thi | s Table: | Total Per | iod | | All Ho | urs | 586 | |
| al Hours for the Po | riod: | | | | | | | 8784 | |

| Period of Record = | = | | 01/01/2020 | | Period /01/2021 00:00 | | | All Hours | |
|---------------------|---|---------|-----------------|----------|------------------------------|-----------|--------|-----------|--|
| Elevation: | Speed: | SP10T1 | Direction | ı: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | G | | Delta Temperatu | re | Extremely St | able | | | |
| | | | | , | Wind Speed (m | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| NNE | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| NE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| ENE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| E | | 1 | 0 | 0 | 0 | 0 | 0 | I | |
| ESE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| SE | | 3 | 1 | 0 | 0 | 0 | 0 | 4 | |
| SSE | | 17 | 15 | 0 | 0 | 0 | 0 | 32 | |
| S | | 37 | 9 | 0 | 0 | 0 | 0 | 46 | |
| SSW | | 36 | 5 | 0 | 0 | 0 | 0 | 41 | |
| SW | | 71 | 3 | 0 | 0 | 0 | 0 | 74 | |
| WSW | | 79 | 3 | 0 | 0 | 0 | 0 | 82 | |
| \mathbf{w} | | 55 | 2 | 0 | 0 | 0 | 0 | 57 | |
| WNW | | 17 | 1 | 0 | 0 | 0 | 0 | 18 | |
| NW | | 6 | 0 | 0 | 0 | 0 | 0 | 6 | |
| NNW | | 2 | 0 | 0 | 0 | 0 | 0 | 2 | |
| Total | | 330 | 39 | 0 | 0 | 0 | 0 | 369 | |
| m Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 1 | |
| riable Direction Ho | lours for: Total Period | | | | | All Ho | urs | 0 | |
| alid Hours for: | lours for: Total Period | | | | | All Ho | urs | 38 | |
| mber of Valid Hou | per of Valid Hours for this Table: Total Period | | | | | All Ho | urs | 369 | |
| al Hours for the Pe | eriod: | | | | | | | 8784 | |

| Period of Record = | = | | 01/01/202 | | l <mark>Period</mark> 1/01/2021 00:00 | All Hours | | | |
|---------------------|----------------------------|----------|---------------|----------|--|-----------|--------|-------|---|
| Elevation: | Speed: | SP10T1 | 1 Direction: | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | ALL | | Delta Tempera | ature | | | | | |
| | | | | | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 96 | 171 | 97 | 61 | 7 | 0 | 432 | |
| NNE | | 66 | 221 | 156 | | 17 | 0 | 629 | |
| NE | | 56 | 189 | 325 | 147 | 1 | 0 | 718 | |
| ENE | | 36 | 179 | 282 | 28 | 0 | 0 | 525 | |
| E | | 49 | 214 | 121 | 3 | 0 | 0 | 387 | |
| ESE | | 45 | 121 | 17 | 0 | 0 | 0 | 183 | |
| SE | | 82 | 236 | 35 | 0 | 0 | 0 | 353 | |
| SSE | | 188 | 300 | 60 | 9 | 0 | 0 | 557 | |
| S | | 212 | 314 | 77 | 35 | 2 | 0 | 640 | |
| SSW | | 293 | 443 | 89 | 18 | 3 | 0 | 846 | |
| SW | | 441 | 431 | 65 | 2 | 0 | 0 | 939 | |
| WSW | | 427 | 354 | 60 | 2 | 0 | 0 | 843 | |
| \mathbf{w} | | 326 | 293 | 64 | 1 | 0 | 0 | 684 | |
| WNW | | 228 | 124 | 7 | 0 | 0 | 0 | 359 | |
| NW | | 152 | 168 | 38 | 7 | 0 | 0 | 365 | |
| NNW | | 90 | 101 | 69 | 22 | 3 | 0 | 285 | |
| Total | | 2787 | 3859 | 1562 | 504 | 33 | 0 | 8745 | |
| lm Hours not Inclu | ded abov | e for: | Total l | Period | | All Ho | urs | 1 | , |
| riable Direction Ho | iable Direction Hours for: | | | Period | | All Ho | urs | 0 | |
| alid Hours for: | | | Total I | Period | | All Ho | urs | 38 | |
| mber of Valid Hou | rs for thi | s Table: | Total Period | | | All Ho | urs | 8745 | |
| al Hours for the Pe | eriod: | | | | | | | 8784 | |

WGDT Batch Release Periods

07/15/20 23:50 - 03:08

07/16/20 23:25 - 23:38

07/17/20 12:53 - 16:27

07/23/20 17:17 - 21:17

09/04/20 11:21 - 13:34

09/05/20 13:33 - 17:07

| Period of Record = | = | | 07/15/2020 | Total 23:00 - 07 | All Hours | | | |
|-------------------------------------|----------------|---------|------------------|-----------------------------------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction | : | DR10T1 Lapse: | | DT61T1 | |
| Stability Class: | Α | | Delta Temperatur | re | Extremely U | nstable | | |
| | | | | , | Wind Speed (n | nph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Peri | iod | | All Ho | urs | 0 |
| iable Direction Hours for: | | | Total Peri | iod | | All Ho | urs | 0 |
| alid Hours for: | lid Hours for: | | | Total Period | | | urs | 0 |
| mber of Valid Hours for this Table: | | | Total Period | | | All Hours | | |
| al Hours for the Pe | riod: | | | | | | | 6 |

| Period of Record = | = | | 07/15/202 | Total 0 23:00 - 0 | All Hours | | | |
|-------------------------------------|---------------------------|---------|----------------|----------------------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction | | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | В | | Delta Temperat | ture | Moderately I | Jnstable | | |
| | | | | | Wind Speed (n | nph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lm Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 |
| riable Direction Ho | able Direction Hours for: | | | eriod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Period | | | All Ho | urs | 0 |
| nber of Valid Hours for this Table: | | | Total Period | | | All Ho | urs | 0 |
| otal Hours for the Period: | | | | | | | | 6 |

| Period of Record = | = | | 07/15/2020 | Total 23:00 - 07 | All Hours | | | |
|-------------------------------------|----------|---------|-----------------|-------------------------|----------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | 1 Direction: | | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | С | | Delta Temperatu | ıre | Slightly Unsta | able | | |
| | | | | , | Wind Speed (m | ph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 |
| iable Direction Hours for: | | | Total Per | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Period | | | All Ho | urs | 0 |
| mber of Valid Hours for this Table: | | | Total Period | | | All Hours | | |
| al Hours for the Pe | eriod: | | | | | | | 6 |

Site: VC

Joint Frequency Distribution

| Period of Record = | = | | 07/15/202 | Total 0 23:00 - 0 | All Hours | | | | |
|---------------------------------|-------------------------------------|---------|---------------|----------------------|---------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Directi | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Tempera | ture | Neutral | | | | |
| | | | | | Wind Speed (n | aph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 3 | 1 | 0 | 0 | 0 | 4 | |
| S | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 1 | 3 | 1 | 0 | 0 | 0 | 5 | |
| n Hours not Included above for: | | | Total Period | | | All Ho | urs | 0 | |
| able Direction Hours for: | | | Total P | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total P | eriod | | All Hours | | | |
| nber of Valid Hou | aber of Valid Hours for this Table: | | | Total Period | | | urs | 5 | |
| al Hours for the Period: | | | | | | | | 6 | |

| Period of Record = | = | | 07/15/2020 | | Period 7/16/2020 04:00 | All Hours | | | |
|--------------------------|---------------------------|----------|------------------|----------|----------------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | E | | Delta Temperatur | re | Slightly Stab | le | | | |
| | | | | , | Wind Speed (m | iph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| m Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 0 | |
| riable Direction Ho | able Direction Hours for: | | | iod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | iod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for thi | s Table: | Total Period | | | All Ho | urs | 1 | |
| al Hours for the Period: | | | | | | | | 6 | |

| Period of Record = | = | | 07/15/2020 | | Period 7/16/2020 04:00 | All Hours | | |
|-------------------------------------|----------------|---------|------------------|--------------|----------------------------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction | : | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | F | | Delta Temperatur | re | Moderately S | Stable | | |
| | | | | 1 | Wind Speed (n | ıph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 0 |
| able Direction Hours for: | | | Total Per | iod | | All Ho | urs | 0 |
| alid Hours for: | lid Hours for: | | | Total Period | | | urs | 0 |
| nber of Valid Hours for this Table: | | | Total Period | | | All Ho | urs | 0 |
| al Hours for the Pe | eriod: | | | | | | | 6 |

| Period of Record = | = | | 07/15/2020 | | Period //16/2020 04:00 | All Hours | | | |
|---------------------------|-------------------------------------|---------|----------------|--------------|----------------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | G | | Delta Temperat | ure | Extremely St | able | | | |
| | | | | 1 | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | able Direction Hours for: | | | riod | | All Ho | urs | 0 | |
| alid Hours for: | lid Hours for: | | | Total Period | | | urs | 0 | |
| mber of Valid Hou | nber of Valid Hours for this Table: | | Total Period | | | All Ho | urs | 0 | |
| tal Hours for the Period: | | | | | | | | 6 | |

| Period of Record = | = | | 07/15/2020 | Total 23:00 - 07 | All Hours | | | |
|----------------------------|------------|----------|-----------------|---------------------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | ALL | | Delta Temperati | ıre | | | | |
| | | | | | Wind Speed (n | aph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 4 | 1 | 0 | 0 | 0 | 5 |
| S | | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 1 | 4 | 1 | 0 | 0 | 0 | 6 |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 |
| iable Direction Hours for: | | | Total Period | | | All Ho | urs | 0 |
| alid Hours for: | | | | Total Period | | | urs | 0 |
| mber of Valid Hou | rs for thi | s Table: | Total Period | | | All Ho | 6 | |
| al Hours for the Pe | eriod: | | | | | | | 6 |

Site: VC

Joint Frequency Distribution

| Period of Record = | = | | 07/16/2020 2 | Total 23:00 - 07. | Period /17/2020 00:00 | All Hours | | |
|--------------------------------------|----------|---------|------------------|-------------------|---------------------------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction: | : | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | Α | | Delta Temperatur | e | Extremely Ur | nstable | | |
| | | | | , | Wind Speed (m | ph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Peri | od | | All Ho | urs | 0 |
| iable Direction Hours for: | | | Total Peri | od | | All Ho | urs | 0 |
| alid Hours for: | | | Total Period | | | All Ho | urs | 0 |
| umber of Valid Hours for this Table: | | | Total Period | | | All Ho | urs | 0 |
| al Hours for the Pe | eriod: | | | | | | | 2 |

| Period of Record | = | | 07/16/2020 | | Period 7/17/2020 00:00 |) | All Hours | | |
|---------------------|-------------|----------|----------------|----------|----------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | n; | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Temperat | ure | Moderately I | Jnstable | | | |
| | | | | | Wind Speed (r | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| sw | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for this | s Table: | Total Pe | riod | | All Ho | urs | 0 | |
| al Hours for the Po | eriod: | | | | | | | 2 | |

| Period of Record = | = | | 07/16/2020 | | Period 7/17/2020 00:00 | | All Hours | | |
|---------------------|-------------|----------|-----------------|----------|----------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | С | | Delta Temperatu | ıre | Slightly Unst | able | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | .0 | 0 | 0 | |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 | |
| iable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | riod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for this | s Table: | Total Per | riod | | All Ho | urs | 0 | |
| al Hours for the Pe | riod: | | | | | | | 2 | |

| | | | | Total | | All Hours | | | | |
|---------------------|-------------|---------|-----------------|------------|----------------|-----------|--------|-------|--|--|
| Period of Record = | = | | 07/16/2020 | 23:00 - 07 | /17/2020 00:00 | ļ. | | | | |
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | D | | Delta Temperatu | ire | Neutral | | | | | |
| | | | | , | Wind Speed (n | aph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 | | |
| riable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total Per | riod | | All Ho | urs | 0 | | |
| nber of Valid Hou | rs for this | Table: | Total Per | riod | | All Ho | urs | 0 | | |
| al Hours for the Pe | eriod: | | | | | | | 2 | | |

| Period of Record = | = | | 07/16/2020 | Total I | Period 17/2020 00:00 | | All Hours | | |
|---------------------|---|---------|----------------|----------|-------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | E | | Delta Temperat | ure | Slightly Stable |) | | | |
| | | | | v | Vind Speed (mp | oh) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 2 | 0 | 0 | 0 | 0 | 2 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 . | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 2 | 0 | 0 | 0 | 0 | 2 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | eriod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | eriod | | All Ho | urs | 0 | |
| mber of Valid Hou | nber of Valid Hours for this Table: Total Per | | | riod | | All Ho | urs | 2 | |
| al Hours for the Pe | eriod: | | | | | | | 2 | |

| Period of Record = | = | | 07/16/2020 | | Period 7/17/2020 00:00 | | | All Hours |
|---------------------|---|---------|-----------------|----------|----------------------------------|-----------|--------|-----------|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | F | | Delta Temperatu | ıre | Moderately S | Stable | | |
| | | | | i | Wind Speed (n | ıph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 |
| iable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 |
| nber of Valid Hou | ber of Valid Hours for this Table: Total Period | | | riod | | All Ho | urs | 0 |
| al Hours for the Pe | riod: | | | | | | | 2 |

| Period of Record = | = | | 07/16/2020 | Total P | eriod 7/2020 00:00 | | | All Hours |
|---------------------|------------|----------|-----------------|----------|-----------------------|-----------|--------|-----------|
| Elevation: | Speed: | SP10T1 | Direction | n: D | PR10T1 I | ∟apse: | DT61T1 | |
| Stability Class: | G | | Delta Temperatu | re | Extremely Stal | ole | | |
| | | | | W | ind Speed (mp | h) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 |
| riable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Per | iod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for thi | s Table: | Total Period | | | All Ho | urs | 0 |
| al Hours for the Pe | riod: | | | | | | | 2 |

| Period of Record = | = | | 07/16/2020 | | Period 7/17/2020 00:00 | 1 | | All Hours |
|----------------------|------------|----------|-----------------|----------|----------------------------------|-----------|--------|-----------|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | ALL | | Delta Temperatu | ıre | | | | |
| | | | | | Wind Speed (n | aph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 2 | 0 | 0 | 0 | 0 | 2 |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 2 |
| tal Hours for the Pe | eriod: | | | | | | | 2 |

Report Printed On: 04/06/2021 09:25

Joint Frequency Distribution

| Period of Record = | = | | 07/17/2020 | | Period /17/2020 17:00 | | All Hours | | | |
|---------------------|------------|----------|-----------------|----------|---------------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | Α | | Delta Temperatu | ге | Extremely Ur | nstable | | | | |
| | | | | , | Wind Speed (m | ph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SW | | 0 | 2 | 0 | 0 | 0 | 0 | 2 | | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| W | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| Total | | 2 | 4 | 0 | 0 | 0 | 0 | 6 | | |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 | | |
| iable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total Per | riod | | All Ho | urs | 0 | | |
| nber of Valid Hou | rs for thi | s Table: | Total Per | riod | | All Ho | urs | 6 | | |
| al Hours for the Pe | riod: | | | | | | | 6 | | |

| Period of Record = | | 07/17/202 | | Period 7/17/2020 17:00 |) | All Hours | | |
|---------------------|-------------|-----------|---------------|----------------------------------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Directi | ion: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | В | | Delta Tempera | ture | Moderately | Jnstable | | |
| | | | | | Wind Speed (1 | nph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total F | eriod | | All Ho | urs | 0 |
| iable Direction Ho | urs for: | | Total F | eriod | | All Ho | urs | 0 |
| alid Hours for: | | | Total F | eriod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for this | s Table: | Total F | eriod | | All Ho | urs | 0 |
| al Hours for the Pe | riod: | | | | | | | 6 |

| Period of Record = | = | | 07/17/2020 | | Period 7/17/2020 17:00 | | All Hours | | |
|---------------------|-------------|---------|-----------------|----------|----------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | С | | Delta Temperatu | ire | Slightly Unst | able | | | |
| | | | | , | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0. | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| wsw | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | _ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | riod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for this | Table: | Total Per | riod | | All Ho | urs | 0 | |
| al Hours for the Pe | riod: | | | | | | | 6 | |

| Stability Class: D Wind Direction 0.8-3.9 N 0 NNE 0 ENE 0 ENE 0 ESE 0 SE 0 SSE 0 | | | 07/17/2020 | | Period /17/2020 17:00 | i | All Hours | | |
|--|-------------|----------|------------------|----------|---------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction: | | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Temperatur | e | Neutral | | | | |
| | | | | 1 | Wind Speed (n | aph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | Q | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| m Hours not Inclu | ded abov | e for: | Total Peri | od | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Peri | od | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Peri | od | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for this | s Table: | Total Peri | od | | All Ho | urs | 0 | |
| al Hours for the Pe | eriod: | | | | | | | 6 | |

| Period of Record = | = | | 07/17/202 | | Period 7/17/2020 17:00 | | | All Hours | |
|---------------------|------------|----------|---------------|----------|----------------------------------|-----------|--------|-----------|--|
| Elevation: | Speed: | SP10T1 | Directi | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | E | | Delta Tempera | ture | Slightly Stab | le | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for thi | s Table: | Total P | eriod | | All Ho | urs | 0 | |
| al Hours for the Pe | eriod: | | | | | | | 6 | |

| Period of Record = | = | | 07/17/2020 | Total 12:00 - 07 | All Hours | | | |
|---------------------|------------|----------|------------------|---------------------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction | ı: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | F | | Delta Temperatui | re | Moderately S | Stable | | |
| | | | | | Wind Speed (n | aph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Per | iod | | All Ho | urs | 0 |
| riable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Per | iod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for thi | s Table: | Total Per | iod | | All Ho | urs | 0 |
| al Hours for the Po | eriod: | | | | | | | 6 |

| Period of Record = | = | | 07/17/2020 | | Period /17/2020 17:00 | | | All Hours | |
|-----------------------|-------------|----------|------------------|----------|--------------------------|-----------|--------|-----------|-----------|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | G | | Delta Temperati | ure | Extremely Sta | able | | | |
| | | | | , | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 1000013 |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| iable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: Total | | | Total Pe | riod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for this | s Table: | Total Period All | | | All Ho | urs | 0 | |
| al Hours for the Po | eriod: | | | | | | | 6 | |

Report Printed On: 04/06/2021 09:25

Joint Frequency Distribution

| Period of Record = | = | | 07/17/2020 | | Period 7/17/2020 17:00 |) | All Hours | | |
|---------------------|--|----------|-----------------|----------|----------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | ALL | | Delta Temperati | ure | | | | | |
| | | | | | Wind Speed (n | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 2 | 0 | 0 | 0 | 0 | 2 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 1 | 0 | 0 | 0 | . 0 | 0 | 1 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Total | 100 T. | 2 | 4 | 0 | 0 | 0 | 0 | 6 | |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 6 | |
| al Hours for the Pe | eriod: | | | | | | | 6 | |

| Period of Record = | = | | 07/23/2020 | Total 1 | Period /23/2020 22:00 | | | All Hours |
|---------------------|-------------|----------|-----------------|----------|--------------------------|-----------|--------|-----------|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | Α | | Delta Temperati | ure | Extremely Un | stable | | |
| | | | | , | Vind Speed (m | ph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | , 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 |
| iable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for this | s Table: | Total Pe | riod | | All Ho | urs | 1 |
| al Hours for the Pe | riod: | | | | | | | 6 |

| Period of Record = | = | | 07/23/202 | | Period | 0 | | All Hours | |
|---------------------|-------------|---------|---------------|----------|-------------------|-----------|--------|-----------|---|
| Elevation: | Speed: | SP10T1 | Directi | ion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Tempera | ature | Moderately | Unstable | | | * |
| | | | | | Wind Speed (| mph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | (| 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| SSW | | 0 | 1 | 0 | (| 0 | . 0 | 1 | |
| SW | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | C | 0 | 0 | 0 | |
| Total | | 0 | 1 | 0 | C | 0 | 0 | 1 | |
| m Hours not Inclu | ded abov | e for: | Total F | Period | | All He | ours | 0 | |
| iable Direction Ho | urs for: | | Total F | Period | | All He | ours | 0 | |
| alid Hours for: | | | Total F | Period | | All He | ours | 0 | |
| mber of Valid Hou | rs for this | Table: | Total P | Period | | All He | ours | 1 | |
| al Hours for the Pe | riod: | | | | | | | 6 | |

| Period of Record = | = | | 07/23/2020 | | Period 7/23/2020 22:00 | | All Hours | | |
|---------------------|-------------|----------|-----------------|----------|-------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | a: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | С | | Delta Temperatu | ıre | Slightly Unst | able | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| \mathbf{w} | | 0 | 0 | 0 | 0. | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Per | riod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for this | s Table: | Total Per | riod | | All Ho | urs | 1 | |
| al Hours for the Pe | eriod: | | | | | | | 6 | |

| Period of Record | = | | 07/23/202 | | Period 7/23/2020 22:00 | | All Hours | | |
|---------------------|------------|----------|----------------|----------|----------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Temperat | ture | Neutral | | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ${f E}$ | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| lm Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for thi | s Table: | Total P | eriod | | All Ho | urs | 1 | |
| al Hours for the Po | eriod: | | | | | | | 6 | |

Report Printed On: 04/06/2021 09:26

Joint Frequency Distribution

| Period of Record | = | | 07/23/202 | | Period //23/2020 22:00 | | All Hours see: DT61T1 19.0-23.9 > 24.0 Total | | | |
|----------------------|------------|----------|----------------|----------|------------------------|-----------|--|-------|--|--|
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | | | |
| | _ | | | | | | | | | |
| Stability Class: | Е | | Delta Temperat | ture | Slightly Stable | е | | | | |
| | | | | | Wind Speed (m | ph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| lm Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | | |
| riable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total Po | eriod | | All Ho | urs | 0 | | |
| mber of Valid Hou | rs for thi | s Table: | Total Po | eriod | | All Ho | urs | 1 | | |
| tal Hours for the Po | eriod: | | | | | | | 6 | | |

| Period of Record = | = | Delta Temperature Moderately Stable Wind Speed (mph) 0.8-3.9 4.0-7.9 8.0-12.9 13.0-18.9 19.0-23.9 > 24.0 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | | | | |
|---------------------|-------------|--|----------------|----------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Directio | on: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | F | | Delta Temperat | ure | Moderately S | table | | |
| | | | | , | Wind Speed (m | ph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for this | s Table: | Total Pe | riod | | All Ho | urs | 1 |
| al Hours for the Pe | eriod: | | | | | | | 6 |

| Period of Record | = | | 07/23/202 | | Period 7/23/2020 22:00 | All Hours 0 22:00 | | | | |
|----------------------|-----------------------------------|---------|---------------|----------|---------------------------|----------------------|--------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Directi | ioń: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | G | | Delta Tempera | iture | Extremely St | able | | | | |
| | | | | | Wind Speed (m | ph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ${f E}$ | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| lm Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | | |
| riable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 | | |
| mber of Valid Hou | er of Valid Hours for this Table: | | | eriod | | All Ho | urs | 0 | | |
| tal Hours for the Po | eriod: | | | | | | | 6 | | |

| Period of Record = | = | | 07/23/2020 | Total 17:00 - 07 | Į | All Hours | | |
|----------------------|------------|----------|-----------------|----------------------------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | ALL | | Delta Temperate | ure | | | | |
| | | | | | Wind Speed (n | aph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 3 | 1 | 0 | 0 | 0 | 4 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0000 | 2 | 3 | 1 | 0 | 0 | 0 | 6 |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 6 |
| tal Hours for the Pe | eriod: | | | | | | | 6 |

Report Printed On: 04/06/2021 09:27

Joint Frequency Distribution

| Period of Record : | = | | 09/04/2020 | Total P 11:00 - 09/0 | eriod 04/2020 14:00 | | All Hours | | |
|------------------------|------------|----------|-------------------|--------------------------------|------------------------|-----------|-----------|-------|--|
| Elevation: Speed: | | SP10T1 | SP10T1 Direction: | | DR10T1 Lapse: | | DT61T1 | | |
| Stability Class: | Α | | Delta Temperatur | e | Extremely Uns | table | | | |
| | | | | W | ind Speed (mp | h) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| NE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| $\mathbf{s}\mathbf{w}$ | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{W} | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| WNW | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 1 | 3 | 0 | 0 | 0 | 0 | 4 | |
| m Hours not Inclu | ded abov | e for: | Total Peri | iod | | All Ho | urs | 0 | |
| riable Direction Ho | ours for: | | Total Peri | iod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Peri | iod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for thi | s Table: | Total Peri | iod | | All Ho | urs | 4 | |
| al Hours for the Po | eriod: | | | | | | | 4 | |

| Period of Record = | = | | 09/04/202 | | Period 9/04/2020 14:00 | | All Hours | | |
|---------------------|-------------|----------|----------------|----------|----------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | on: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Temperat | ture | Moderately (| Jnstable | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| wsw | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | |
| iable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for this | s Table: | Total P | eriod | | All Ho | urs | 0 | |
| al Hours for the Pe | eriod: | | | | | | | 4 | |

Report Printed On: 04/06/2021 09:27

Joint Frequency Distribution

| Period of Record = | = | | 09/04/2020 | Total 11:00 - 09 | All Hours | | | |
|---------------------|------------|---------|-----------------|------------------|----------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | С | | Delta Temperatu | ге | Slightly Unsta | able | | |
| | | | | * | Wind Speed (m | iph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Per | riod | | All Ho | urs | 0 |
| iable Direction Ho | urs for: | | Total Per | riod | | All Ho | urs | 0 |
| lid Hours for: | | | Total Per | riod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for thi | Table: | Total Per | riod | | All Ho | urs | 0 |
| al Hours for the Pe | eriod: | | | | | | | 4 |

| Period of Record = | = | | 09/04/2020 | | Period 9/04/2020 14:00 | All Hours | | |
|---------------------|-------------|----------|-----------------|----------|----------------------------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | D | | Delta Temperati | ure | Neutral | | | |
| | | | | - | Wind Speed (n | ıph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | - | All Ho | urs | 0 |
| iable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for this | s Table: | Total Pe | riod | | All Ho | urs | 0 |
| al Hours for the Pe | eriod: | | | | | | | 4 |

| Period of Record = | = | | 09/04/2020 | Total 0 - 11:00 | All Hours | | | |
|---------------------|------------|----------|----------------|---------------------------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction | on: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | E | | Delta Temperat | ure | Slightly Stat | ole | | |
| | | | | | Wind Speed (1 | mph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | Q | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| lm Hours not Inclu | ded abov | e for: | Total Pe | eriod | | All Ho | urs | 0 |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | eriod | | All Ho | urs | 0 |
| mber of Valid Hou | rs for thi | s Table: | Total Pe | eriod | | All Ho | urs | 0 |
| al Hours for the Pe | eriod: | | | | | | | 4 |

| Period of Record = | = | | 09/04/202 | | Period /04/2020 14:00 | All Hours 14:00 | | |
|---------------------|-------------|----------|---------------|----------|---------------------------------|--------------------|--------|-------|
| Elevation: | Speed: | SP10T1 | Directi | on: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | F | | Delta Tempera | ture | Moderately | Stable | | |
| | | | | , | Wind Speed (1 | nph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | Ó | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0. | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 |
| iable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 |
| nber of Valid Hou | rs for this | s Table: | Total P | eriod | | All Ho | urs | 0 |
| al Hours for the Pe | eriod: | | | | | | | 4 |

| Period of Record = | = | | 09/04/2020 | | Period /04/2020 14:00 | | | All Hours | |
|---------------------|------------|----------|----------------|----------|---------------------------------|-----------|--------|-----------|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | G | | Delta Temperat | ure | Extremely Sta | able | | | |
| | | | | 3 | Wind Speed (m | ph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | Ō | 0 | 0 | 0 | · O | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{W} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| iable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| nber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 0 | |
| al Hours for the Po | eriod: | | | | | | | 4 | |

| Period of Record = | = | | 09/04/2020 | | Period 9/04/2020 14:00 |) | All Hours | | | |
|---------------------|------------|----------|-----------------|----------|----------------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | ALL | | Delta Temperatu | ıre | | | | | | |
| | | | | | Wind Speed (n | nph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNE | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| NE | | 1 | 0 | 0 | 0 | 0 | 0 | 1 | | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| W | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| WNW | | 0 | 1 | 0 | 0 | 0 | 0 | 1 | | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | | 1 | 3 | 0 | 0 | 0 | 0 | 4 | | |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | | |
| nber of Valid Hou | rs for thi | s Table: | Total Pe | riod | | All Ho | urs | 4 | | |
| al Hours for the Pe | eriod: | | | | | | | 4 | | |

| Period of Record = | - | | 09/05/202 | | Period 9/05/2020 18:00 |) | All Hours | | | |
|---------------------|-------------|----------|---------------|----------|----------------------------------|-----------|-----------|-------|--|--|
| Elevation: | Speed: | SP10T1 | Directi | on: | DR10T1 | Lapse: | DT61T1 | | | |
| Stability Class: | Α | | Delta Tempera | ture | Extremely U | nstable | | | | |
| | | | | | Wind Speed (1 | mph) | | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNE | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | | |
| NE | | 0 | 0 | 2 | 1 | 0 | 0 | 3 | | |
| ENE | | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | | |
| ${f E}$ | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total | | 0 | 0 | 3 | 1 | 0 | 0 | 4 | | |
| m Hours not Inclu | ded abov | e for: | Total P | eriod | | All Ho | urs | 0 | | |
| iable Direction Ho | urs for: | | Total P | eriod | | All Ho | urs | 0 | | |
| alid Hours for: | | | Total P | eriod | | All Ho | urs | 0 | | |
| nber of Valid Hou | rs for this | s Table: | Total P | eriod | | All Ho | urs | 4 | | |
| al Hours for the Po | eriod: | | | | | | | 6 | | |

| Period of Record = | = | | 09/05/202 | | Period 0/05/2020 18:0 | All Hours | | | |
|----------------------|-------------|----------|---------------|----------|--------------------------|-----------|--------|-------|--|
| Elevation: | Speed: | SP10T1 | Directi | ion: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | В | | Delta Tempera | nture | Moderately | Unstable | | | |
| | | | | | Wind Speed (1 | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| lm Hours not Inclu | ded abov | e for: | Total F | Period | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total F | Period | | All Ho | urs | 0 | |
| alid Hours for: | | | Total F | Period | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for this | s Table: | Total F | Period | | All Ho | urs | 1 | |
| tal Hours for the Pe | riod: | | | | | | | 6 | |

| Period of Record | = | | 09/05/2020 | | Period 0/05/2020 18:00 | | All Hours | | |
|----------------------|-------------|---------|-----------------|----------|----------------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | С | | Delta Temperati | ure | Slightly Unst | able | | | |
| | | | | | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for this | Table: | Total Pe | riod | | All Ho | urs | 1 | |
| tal Hours for the Pe | eriod: | | | | | | | 6 | |

| Period of Record = | = | | 09/05/2020 | | Period /05/2020 18:00 | | All Hours | | |
|---------------------|-------------|----------|-----------------|----------|--------------------------|-----------|-----------|-------|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | D | | Delta Temperatu | ure | Neutral | | | | |
| | | | | 1 | Wind Speed (n | ıph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| m Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for this | s Table: | Total Pe | riod | | All Ho | urs | 0 | |
| al Hours for the Pe | eriod: | | | | | | | 6 | |

| Period of Record = | = | | 09/05/2020 | | Period 9/05/2020 18:0 |) | | All Hours | |
|----------------------|-------------|---------|----------------|----------|---------------------------------|-----------|--------|-----------|--|
| Elevation: | Speed: | SP10T1 | Directio | n: | DR10T1 | Lapse: | DT61T1 | | |
| Stability Class: | E | | Delta Temperat | ure | Slightly Stat | ole | | | |
| | | | | | Wind Speed (1 | nph) | | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total | |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| \mathbf{E} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| lm Hours not Inclu | ded abov | e for: | Total Pe | riod | | All Ho | urs | 0 | |
| riable Direction Ho | urs for: | | Total Pe | riod | | All Ho | urs | 0 | |
| alid Hours for: | | | Total Pe | riod | | All Ho | urs | 0 | |
| mber of Valid Hou | rs for this | Table: | Total Pe | riod | | All Ho | urs | 0 | |
| tal Hours for the Pe | eriod: | | | | | | | 6 | |

| Period of Record = | = | | 09/05/2020 | All Hours | | | | |
|-------------------------------------|--------|---------|----------------|-----------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Directio | on: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | F | | Delta Temperat | ure | Moderately S | Stable | | |
| | | | | | Wind Speed (m | ıph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0. | 0 |
| wsw | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Included above for: | | e for: | Total Period | | | All Hot | | 0 |
| riable Direction Hours for: | | | Total Pe | eriod | | All Ho | urs | 0 |
| alid Hours for: | | | Total Pe | eriod | | All Ho | urs | 0 |
| mber of Valid Hours for this Table: | | | Total Period | | | All Ho | 0 | |
| tal Hours for the Period: | | | | | | | | 6 |

Site: VC

Joint Frequency Distribution

| Period of Record | = | | 09/05/2020 | All Hours | | | | |
|-------------------------------------|---------------|---------|------------------|-----------|----------------|-----------|--------|-------|
| Elevation: | Speed: SP10T1 | | Direction | : Г | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | G | | Delta Temperatur | re | Extremely Sta | ıble | | |
| | | | | V | Vind Speed (m) | ph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ${f E}$ | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| wsw | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| \mathbf{w} | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | .0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| m Hours not Included above for: | | e for: | Total Period | | All Hou | | ırs | 0 |
| riable Direction Hours for: | | | Total Per | iod | | All Ho | ırs | 0 |
| ralid Hours for: | | | Total Period | | | All Ho | 0 | |
| mber of Valid Hours for this Table: | | | Total Per | iod | | All Ho | ırs | 0 |
| tal Hours for the Period: | | | | | | | | 6 |

| Period of Record = | = | | 09/05/2020 | All Hours | | | | |
|-------------------------------------|--------|---------|-----------------|-----------|---------------|-----------|--------|-------|
| Elevation: | Speed: | SP10T1 | Direction | n: | DR10T1 | Lapse: | DT61T1 | |
| Stability Class: | ALL | | Delta Temperatu | re | | | | |
| | | | | | Wind Speed (r | nph) | | |
| Wind Direction | | 0.8-3.9 | 4.0-7.9 | 8.0-12.9 | 13.0-18.9 | 19.0-23.9 | > 24.0 | Total |
| N | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNE | | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| NE | | 0 | 0 | 3 | 1 | 0 | 0 | 4 |
| ENE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ESE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSE | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| S | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WSW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| W | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NNW | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 5 | 1 | 0 | 0 | 6 |
| m Hours not Included above for: | | e for: | Total Period | | | All Hours | | 0 |
| riable Direction Hours for: | | | Total Per | riod | | All Ho | 0 | |
| alid Hours for: | | | Total Period | | | All Ho | 0 | |
| mber of Valid Hours for this Table: | | | Total Period | | | All Ho | 6 | |
| al Hours for the Period: | | | | | | | | 6 |