



## PALLISER AIRSHED SOCIETY

### 2024 AMBIENT AIR QUALITY MONITORING NETWORK ANNUAL REPORT

WSP CANADA INC.  
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WSP PROJECT NO.  
CA0038030.9674



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## **List of Acronyms**

AAAQO	Alberta Ambient Air Quality Objective and Guideline
EPEA	Environmental Protection and Enhancement Act
H <sub>2</sub> S	Hydrogen sulfide
NO	Nitric oxide
NO <sub>2</sub>	Nitrogen dioxide
NO <sub>x</sub>	Total oxides of nitrogen
O <sub>3</sub>	Ozone
PM <sub>2.5</sub>	Fine particulate matter (2.5 micron)
ppb	Parts per billion
ppm	Parts per million
PAS	Palliser Airshed Society
SO <sub>2</sub>	Sulphur dioxide
THC	Total hydrocarbons
µg/m <sup>3</sup>	Micrograms per cubic meter



March 15<sup>th</sup>, 2024

Alberta Environment and Protected Areas  
11<sup>th</sup> Floor, Oxbridge Place  
9820 106 Street  
Edmonton, Alberta  
T5K 2J6

**RE: 2024 Annual Ambient Air Quality Monitoring Report  
Palliser Airshed Society**

Enclosed is the 2024 Annual Ambient Air Quality Monitoring Report for the continuous ambient air quality monitoring stations of the Palliser Airshed Society (PAS) regional air quality monitoring network, as operated in the year 2024.

The representative of the Person Responsible for this monitoring program is:

**Lorna Morishita**

Executive Director of Palliser  
Airshed Society PO Box 23121  
Medicine Hat Mall  
Medicine Hat AB  
T1B 4C7  
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This report was prepared and is submitted by Patrick Andersen of WSP Canada Inc., on behalf of PAS.

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This report was reviewed by the PAS Executive Director

Facilities for which the PAS is monitoring and submitting this report on behalf of, as per the facility's *Environmental Protection and Enhancement Act* (EPEA) approval, are identified below.

<b>Company Name/Industrial Operation Name</b>	<b>EPEA Approval Number</b>
Big Marble Farms Inc. - Cypress County 6MW Power Plant	460012-00-00
Canadian Fertilizers Limited – CF Industries	1338-02-00
Canadian Natural Resources Ltd. – CNRL Cypress Sour Gas Plant	75968-02-00
Canadian Natural Resources Ltd. – CNRL Hays Sour Gas Plant	10964-02-01
Cancarb Ltd.	11279-02-00
Cardinal Energy Limited – Rosemary Sour Gas Plant	289909-00-00
CertainTeed	18200
City of Medicine Hat Power Plants	11610-02-00 and 360131-00-00
Imperial Helium Steeveville Helium Recovery Facility Project and Power Plant	500051-000-00
International Petroleum Corporation – Suffield A2 Sour Gas Plant	10219-04-00
JBS Food / Aliment Canada Limited – Brooks	287-03-00
Journey Energy Inc. - Countess Power Plant	458653-00-00
Lamb Weston Canada	67726
Lantic Inc.	10397-03-00
Methanex Corporation	9887-03-00
NAT-1GP – Ralston Power Plant	319163-00-02
Obsidian Energy Ltd - Compeer Sour Gas Plant	11273-03-00
Pine Cliff Energy Ltd. – Black Butte Sour Gas Plant	11017-02-01
Pembina Pipeline Corp- Empress Straddle Plant & Cogen	460563-00-00
Pivotal Energy Partners Operations Inc. – Bantry Sour Gas Plant	9821-03-00
Porcel of Canada Ltd.	233
Prairie Gold Produce – Vauxhall	10279
Torxen Eneyg Ltd. – Alderson West Sour Gas Plant	1476-02-00
Torxen Eneyg Ltd. – Countess Sour Gas Plant	1829-03-00

### AAAQO Exceedances Report:

There were 37 1-hour and 21 24-hour exceedances of the AAAQO for PM<sub>2.5</sub> (80 and 29 µg/m<sup>3</sup> respectively) recorded in 2024. These PM<sub>2.5</sub> exceedances were attributed to forest fire activity and winter inversions.

**Exceedance Table 1: 2024 1-hour PM<sub>2.5</sub> Exceedance Summary For PAS Network**

Station Name	Date	Start Time	End Time	Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
		(MST)	(MST)	(µg/m <sup>3</sup> )			
Crescent Heights	26-Mar-24	05:00	06:00	108	WSW	0.2	426273
Brooks	11-May-24	19:00	20:00	173	NNE	18.3	427946
Brooks	11-May-24	20:00	21:00	147	NNE	18.6	427946
Crescent Heights	11-May-24	20:00	21:00	127	NNE	14.5	426273
Brooks	11-May-24	21:00	22:00	105	NNE	9.6	427946
Crescent Heights	11-May-24	21:00	22:00	148	NE	15.9	427945
Taber	11-May-24	21:00	22:00	204	ENE	19.7	427947
Crescent Heights	11-May-24	22:00	23:00	107	E	8.5	427945

Station Name	Date	Start Time	End Time	Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
Taber	11-May-24	22:00	23:00	180	ENE	18.1	427947
Taber	11-May-24	23:00	00:00	110	E	14.3	427947
Taber	12-May-24	00:00	01:00	81	E	10.3	427947
Brooks	22-Jul-24	22:00	23:00	107	E	14.4	431408
Brooks	22-Jul-24	23:00	00:00	103	ESE	16.6	431408
Brooks	23-Jul-24	00:00	01:00	106	ESE	13.6	431408
Brooks	23-Jul-24	01:00	02:00	99	ESE	11.2	431408
Brooks	23-Jul-24	02:00	03:00	83	SE	9.5	431408
Crescent Heights	23-Jul-24	02:00	03:00	86	NE	6.0	431409
Crescent Heights	23-Jul-24	03:00	04:00	90	NE	6.1	431409
Crescent Heights	23-Jul-24	04:00	05:00	86	NE	5.8	431409
Crescent Heights	15-Aug-24	06:00	07:00	84	SE	1.1	431973
Brooks - Meadowplace	15-Aug-24	07:00	08:00	99	NE	5.3	431974
Crescent Heights	15-Aug-24	07:00	08:00	112	E	0.9	431973
Brooks - Meadowplace	15-Aug-24	08:00	09:00	151	NE	3.6	431974
Crescent Heights	15-Aug-24	08:00	09:00	153	ENE	6.4	431973
Brooks - Meadowplace	15-Aug-24	09:00	10:00	207	ESE	6.9	431974
Crescent Heights	15-Aug-24	09:00	10:00	184	ENE	5.9	431973
Brooks - Meadowplace	15-Aug-24	10:00	11:00	154	ENE	7.0	431974
Crescent Heights	15-Aug-24	10:00	11:00	158	NE	4.7	431973
Brooks - Meadowplace	15-Aug-24	11:00	12:00	108	ENE	6.0	431974
Crescent Heights	15-Aug-24	11:00	12:00	105	NNE	8.0	431973
Taber	15-Aug-24	11:00	12:00	85	E	8.8	431975
Crescent Heights	15-Aug-24	12:00	13:00	87	NNE	9.5	431973
Taber	15-Aug-24	12:00	13:00	84	E	7.0	431975
Crescent Heights	15-Aug-24	14:00	15:00	82	NNE	8.7	431973
Raymond	03-Oct-24	17:00	18:00	227	E	0.6	435434
Raymond	10-Oct-24	18:00	19:00	87	E	0.4	435437
Raymond	11-Oct-24	17:00	18:00	84	NNE	0.4	435438

**Exceedance Table 2: 2024 24-hour PM<sub>2.5</sub> Exceedance Summary For PAS Network**

Station Name	Date	24-Hour PM <sub>2.5</sub> Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
		(µg/m <sup>3</sup> )			
Brooks	20-Feb-24	36	SW	0.6	426087
Brooks	21-Feb-24	39	NW	1.4	426088
Brooks	11-May-24	30	SSW	12.6	427946
Crescent Heights	12-May-24	31	SSE	10.2	427945
Taber	12-May-24	32	SSW	5.7	427947
Brooks	21-Jul-24	38	E	2.0	431411

Station Name	Date	24-Hour PM <sub>2.5</sub> Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
Crescent Heights	21-Jul-24	51	E	3.8	431409
Brooks	22-Jul-24	36	SE	7.4	431411
Crescent Heights	22-Jul-24	46	ESE	4.9	431409
Taber	22-Jul-24	35	WSW	11.7	431408
Brooks	23-Jul-24	35	SSW	10.4	431411
Crescent Heights	23-Jul-24	47	SW	4.7	431409
Crescent Heights	25-Jul-24	33	WSW	13.0	431409
Crescent Heights	08-Aug-24	31	ENE	5.9	431973
Brooks - Meadowplace	14-Aug-24	39	NNW	7.4	431974
Crescent Heights	14-Aug-24	33	NW	4.1	431973
Brooks - Meadowplace	15-Aug-24	67	ENE	7.2	431974
Crescent Heights	15-Aug-24	77	NE	5.2	431973
Taber	15-Aug-24	49	E	5.7	431975
Brooks - Meadowplace	16-Aug-24	39	S	3.8	431974
Crescent Heights	16-Aug-24	34	ESE	2.3	431973

### Monitoring Uptime Notes:

Crescent Heights THC: Analyzer sample pump failed March 22, remained offline until repaired during April 5 calibration. Analyzer uptime in March 67.9% and April 84.9%. **Ref#427156.**

Crescent Heights CO: Analyzer failed July 11 and was removed from service until parts were acquired and installed August 1, with a July uptime of 34.3%. **Ref#432264.**

Brooks PM<sub>2.5</sub>: Analyzer malfunctioned during extremely cold weather and failed to return valid data January 12-16, 18 and 23 with an uptime of 83.9%. **Ref#424927.**

Brooks NOx: Analyzer failed October 9 and was repaired October 15 with an uptime of 76.8%. **Ref#435481.**

Hanna NOx: Airpointer sample pump seized October 12 and was replaced October 15. The NOx analyzer permeation tube was replaced October 30, with a total uptime of 86.6% in October. **Ref#435482.**

Hanna PM<sub>2.5</sub>: Analyzer failed September 4 and was repaired and returned to service September 12 with an uptime of 73.1% **Ref#434660.**

Hanna ET/RH: Sensor system was damaged September 10 and replaced September 30 with an uptime of 28.3%. **Ref#434660.**

Hanna Wind: Wind tower collapsed September 6 and was replaced September 30 with an uptime of 14.0%. **Ref#434660.**

### Changes to monitoring in 2024:

The Airpointer at Taber ended operation in September 2024 and was relocated to Raymond, beginning operation in October 2024.

The Airpointer at Brooks ended operation in August 2024 and was relocated to Hanna, beginning operation in September 2024.

A permanent monitoring station at the Brooks Meadowplace site began operation in August 2024. Data from the two sites is merged in this report as "Brooks".

**Deviations from authorized monitoring methods:**

None.

**Changes made after monthly reports submitted:**

Hanna: The ozone scrubber was identified as failing during the November calibration. The analyzer was found to be 15% and linear and data was adjusted back to the October 15 installation calibration. October monthly report and XML files were revised and submitted to ETS in November.

**Data deletions or resubmissions to Alberta Air Data Warehouse:**

As above.

**Missed Calibrations:**

None.

I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements.

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Lorna Morishita  
Palliser Airshed Society Executive Director



**PAS**

**CRESCENT HEIGHTS**

**CONTINUOUS AMBIENT AIR MONITORING STATION**

**2024**

**SUMMARY TABLES**

## Sulphur Dioxide (SO<sub>2</sub>) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights SO <sub>2</sub> (ppb)												2024									
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO				Percentage of Readings in Concentration Range					
												Annual	30-Day	24-Hr	1-Hr	0 - 10	10 - 20	20 - 60	60 - 110	110 - 172	>172
January	703	0.2	0.6	Jan 11	0.0	Jan 06	2.0	Jan 11 10:00	0.0	Jan 01 18:00	99.5	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
February	655	0.1	0.4	Feb 03	0.0	Feb 28	2.8	Feb 03 12:00	0.0	Feb 04 07:00	99.4	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
March	709	0.1	0.5	Mar 21	0.0	Mar 29	1.9	Mar 21 10:00	0.0	Mar 10 06:00	100.0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
April	680	0.1	0.2	Apr 14	0.0	Apr 17	0.7	Apr 16 04:00	0.0	Apr 01 03:00	100.0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
May	708	0.0	0.1	May 17	0.0	May 02	0.3	May 17 09:00	0.0	May 01 01:00	99.7	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
June	687	0.0	0.1	Jun 10	0.0	Jun 12	0.4	Jun 10 09:00	0.0	Jun 03 00:00	100.0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
July	706	0.0	0.2	Jul 21	0.0	Jul 17	0.5	Jul 21 17:00	0.0	Jul 01 01:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
August	708	0.1	0.2	Aug 23	0.0	Aug 06	0.6	Aug 23 20:00	0.0	Aug 02 05:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
September	681	0.1	0.3	Sep 11	0.0	Sep 26	1.3	Sep 07 20:00	0.0	Sep 13 04:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
October	706	0.1	0.6	Oct 31	0.0	Oct 30	6.8	Oct 31 22:00	0.0	Oct 01 05:00	100.0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
November	684	0.1	0.6	Nov 24	0.0	Nov 13	1.4	Nov 24 20:00	0.0	Nov 01 16:00	99.7	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
December	705	0.1	0.5	Dec 01	0.0	Dec 26	1.7	Dec 19 00:00	0.0	Dec 05 02:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00	
<b>Annual</b>	<b>8332</b>	<b>0.1</b>	<b>0.6</b>	<b>Jan 11</b>	<b>0.0</b>	<b>Jun 12</b>	<b>6.8</b>	<b>Oct 31 22:00</b>	<b>0.0</b>	<b>Jan 01 18:00</b>	<b>99.8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	

AAAQO: Annual: 8 ppb, 30-Day: 11 ppb, 24-Hr: 48 ppb, 1-Hr: 172 ppb

## Nitric Oxide (NO) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights NO (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	700	3.5	10.0	Jan 08	0.8	Jan 21	53.1	Jan 22 23:00	0.0	Jan 03 00:00	99.5	98.14	1.71	0.14	0.00	0.00
February	608	2.6	14.3	Feb 02	0.5	Feb 06	106.1	Feb 02 09:00	0.0	Feb 15 03:00	92.5	99.01	0.66	0.33	0.00	0.00
March	705	1.6	5.4	Mar 07	0.2	Mar 23	33.3	Mar 16 09:00	0.0	Mar 23 01:00	100.0	99.86	0.14	0.00	0.00	0.00
April	680	1.0	2.8	Apr 02	0.1	Apr 04	18.5	Apr 23 01:00	0.0	Apr 24 01:00	99.6	100.00	0.00	0.00	0.00	0.00
May	703	0.9	3.4	May 23	0.2	May 22	22.5	May 23 07:00	0.0	May 16 01:00	99.7	100.00	0.00	0.00	0.00	0.00
June	649	0.6	1.6	Jun 06	0.1	Jun 26	17.1	Jun 06 02:00	0.0	Jun 04 23:00	95.1	100.00	0.00	0.00	0.00	0.00
July	704	0.5	1.1	Jul 31	0.0	Jul 14	8.1	Jul 08 23:00	0.0	Jul 01 01:00	99.6	100.00	0.00	0.00	0.00	0.00
August	702	0.7	3.6	Aug 30	0.1	Aug 23	29.8	Aug 30 21:00	0.0	Aug 01 21:00	99.3	99.86	0.14	0.00	0.00	0.00
September	679	1.3	2.6	Sep 11	0.1	Sep 04	23.6	Sep 01 08:00	0.0	Sep 04 20:00	100.0	100.00	0.00	0.00	0.00	0.00
October	707	1.6	6.6	Oct 31	0.4	Oct 29	36.1	Oct 31 03:00	0.0	Oct 01 01:00	100.0	99.72	0.28	0.00	0.00	0.00
November	682	1.7	4.2	Nov 03	0.3	Nov 23	26.8	Nov 25 00:00	0.0	Nov 01 22:00	99.9	99.85	0.15	0.00	0.00	0.00
December	706	2.8	8.3	Dec 28	0.2	Dec 10	51.0	Dec 04 02:00	0.0	Dec 11 01:00	99.9	99.01	0.85	0.14	0.00	0.00
<b>Annual</b>	<b>8225</b>	<b>1.6</b>	<b>14.3</b>	<b>Feb 02</b>	<b>0.0</b>	<b>Jul 14</b>	<b>106.1</b>	<b>Feb 02 09:00</b>	<b>0.0</b>	<b>Jan 03 00:00</b>	<b>99.8</b>	<b>99.62</b>	<b>0.33</b>	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>

No AAAQO

## Nitrogen Dioxide (NO<sub>2</sub>) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights NO <sub>2</sub> (ppb)												2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range				
												Annual	1-Hr	0 - 25	25 - 50	50 - 110	110 - 159	>159
January	700	9.6	20.9	Jan 24	3.5	Jan 10	39.8	Jan 19 09:00	1.8	Jan 27 07:00	99.5	0	95.00	5.00	0.00	0.00	0.00	
February	608	8.5	19.0	Feb 20	2.6	Feb 26	42.7	Feb 18 07:00	0.9	Feb 26 13:00	92.4	0	96.05	3.95	0.00	0.00	0.00	
March	705	6.0	16.9	Mar 07	1.6	Mar 20	40.9	Mar 26 04:00	0.9	Mar 20 01:00	100.0	0	97.16	2.84	0.00	0.00	0.00	
April	680	4.4	7.8	Apr 02	2.2	Apr 26	27.6	Apr 23 01:00	1.0	Apr 26 16:00	99.6	0	99.71	0.29	0.00	0.00	0.00	
May	703	4.1	7.2	May 09	2.1	May 02	17.7	May 25 01:00	1.1	May 04 14:00	99.7	0	100.00	0.00	0.00	0.00	0.00	
June	649	3.5	5.8	Jun 21	0.2	Jun 18	24.0	Jun 20 22:00	0.2	Jun 18 17:00	95.1	0	100.00	0.00	0.00	0.00	0.00	
July	704	4.2	5.8	Jul 24	2.2	Jul 14	21.3	Jul 25 00:00	0.8	Jul 17 15:00	99.6	0	100.00	0.00	0.00	0.00	0.00	
August	702	2.5	5.1	Aug 14	0.5	Aug 24	23.1	Aug 29 22:00	0.0	Aug 01 09:00	99.3	0	100.00	0.00	0.00	0.00	0.00	
September	679	3.8	7.1	Sep 06	1.5	Sep 17	25.4	Sep 02 21:00	0.0	Sep 01 12:00	100.0	0	99.85	0.15	0.00	0.00	0.00	
October	707	4.6	11.4	Oct 31	0.9	Oct 19	25.8	Oct 31 21:00	0.0	Oct 01 01:00	100.0	0	99.86	0.14	0.00	0.00	0.00	
November	682	5.7	17.4	Nov 27	2.1	Nov 11	27.2	Nov 28 05:00	0.2	Nov 10 14:00	99.9	0	99.41	0.59	0.00	0.00	0.00	
December	706	8.8	18.0	Dec 21	2.4	Dec 10	40.9	Dec 04 02:00	0.6	Dec 11 01:00	99.9	0	95.89	4.11	0.00	0.00	0.00	
<b>Annual</b>	<b>8225</b>	<b>5.4</b>	<b>20.9</b>	<b>Jan 24</b>	<b>0.2</b>	<b>Jun 18</b>	<b>42.7</b>	<b>Feb 18 07:00</b>	<b>0.0</b>	<b>Aug 01 09:00</b>	<b>98.7</b>	<b>0</b>	<b>0</b>	<b>98.58</b>	<b>1.42</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

AAAQO: Annual: 24 ppb, 1-Hr: 159 ppb

## Total Oxides of Nitrogen (NO<sub>x</sub>) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights NO <sub>x</sub> (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	700	13.0	30.5	Jan 24	4.6	Jan 10	93.0	Jan 22 23:00	1.8	Jan 27 07:00	99.5	89.57	8.29	2.14	0.00	0.00
February	608	11.0	26.8	Feb 02	3.0	Feb 26	131.0	Feb 02 09:00	1.2	Feb 26 13:00	92.4	91.61	6.91	1.32	0.16	0.00
March	705	7.4	22.3	Mar 07	1.6	Mar 20	54.4	Mar 07 07:00	0.7	Mar 20 01:00	100.0	94.89	4.68	0.43	0.00	0.00
April	680	5.3	10.6	Apr 02	2.4	Apr 26	46.1	Apr 23 01:00	1.1	Apr 26 16:00	99.6	98.24	1.76	0.00	0.00	0.00
May	703	4.9	10.1	May 09	2.2	May 22	31.9	May 23 07:00	0.9	May 05 04:00	99.7	99.72	0.28	0.00	0.00	0.00
June	649	4.3	7.2	Jun 17	2.1	Jun 09	34.7	Jun 20 22:00	0.7	Jun 29 19:00	95.1	99.69	0.31	0.00	0.00	0.00
July	704	4.7	6.5	Jul 08	2.1	Jul 14	27.6	Jul 23 08:00	0.7	Jul 07 14:00	99.6	99.57	0.43	0.00	0.00	0.00
August	702	3.2	8.0	Aug 30	0.6	Aug 23	52.6	Aug 30 21:00	0.0	Aug 01 09:00	99.3	99.29	0.57	0.14	0.00	0.00
September	679	5.0	9.2	Sep 06	1.8	Sep 17	39.0	Sep 11 11:00	0.0	Sep 01 12:00	100.0	98.38	1.62	0.00	0.00	0.00
October	707	6.1	17.9	Oct 31	1.9	Oct 19	60.0	Oct 31 03:00	0.0	Oct 01 01:00	100.0	98.16	1.56	0.28	0.00	0.00
November	682	7.3	20.7	Nov 27	2.6	Nov 17	51.2	Nov 25 00:00	0.4	Nov 17 03:00	99.9	97.07	2.79	0.15	0.00	0.00
December	706	11.6	25.2	Dec 21	2.6	Dec 10	91.9	Dec 04 02:00	0.6	Dec 11 01:00	99.9	89.52	9.35	1.13	0.00	0.00
<b>Annual</b>	<b>8225</b>	<b>7.0</b>	<b>30.5</b>	<b>Jan 24</b>	<b>0.6</b>	<b>Aug 23</b>	<b>131.0</b>	<b>Feb 02 09:00</b>	<b>0.0</b>	<b>Aug 01 09:00</b>	<b>98.7</b>	<b>96.31</b>	<b>3.21</b>	<b>0.47</b>	<b>0.01</b>	<b>0.00</b>

No AAAQO

## Ozone (O<sub>3</sub>) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights O <sub>3</sub> (ppb)													2024					
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO 1-Hr	Percentage of Readings in Concentration Range					
													0 - 2	2 - 10	10 - 20	20 - 40	40 - 76	>76
January	705	20.7	32.8	Jan 27	5.8	Jan 08	38.5	Jan 27 07:00	0.3	Jan 23 05:00	99.5	0	4.11	11.77	25.39	58.72	0.00	0.00
February	658	26.4	38.4	Feb 16	8.9	Feb 03	45.8	Feb 18 15:00	0.4	Feb 20 07:00	99.6	0	1.06	5.93	21.43	64.44	7.14	0.00
March	709	31.1	40.0	Mar 23	22.7	Mar 13	48.2	Mar 18 16:00	1.5	Mar 16 07:00	100.0	0	0.42	1.83	10.44	73.77	13.54	0.00
April	680	34.3	46.0	Apr 24	18.9	Apr 06	59.0	Apr 23 17:00	1.0	Apr 11 06:00	99.6	0	0.29	2.50	7.79	56.03	33.38	0.00
May	703	31.8	46.6	May 12	19.8	May 23	60.1	May 12 17:00	2.0	May 23 05:00	99.7	0	0.14	1.85	12.80	58.32	26.88	0.00
June	651	34.2	45.9	Jun 14	19.1	Jun 30	68.6	Jun 12 03:00	5.5	Jun 20 03:00	95.0	0	0.00	1.38	12.90	52.23	33.49	0.00
July	707	36.9	49.8	Jul 23	23.4	Jul 01	73.1	Jul 24 17:00	7.4	Jul 21 06:00	99.7	0	0.00	0.99	12.45	42.86	43.71	0.00
August	707	35.9	45.3	Aug 23	21.3	Aug 30	59.9	Aug 14 12:00	4.8	Aug 29 22:00	99.9	0	0.00	1.56	10.75	48.23	39.46	0.00
September	669	26.4	37.9	Sep 27	11.0	Sep 12	51.5	Sep 09 15:00	1.2	Sep 28 06:00	100.0	0	0.15	6.88	25.71	52.47	14.80	0.00
October	709	23.3	35.4	Oct 27	10.6	Oct 22	45.8	Oct 07 16:00	0.8	Oct 22 22:00	100.0	0	0.56	9.17	28.63	59.66	1.97	0.00
November	685	21.1	32.2	Nov 17	7.7	Nov 03	37.5	Nov 13 13:00	0.3	Nov 01 07:00	99.9	0	1.90	6.42	33.72	57.96	0.00	0.00
December	707	23.7	33.4	Dec 11	11.9	Dec 28	39.8	Dec 24 13:00	0.1	Dec 29 05:00	99.9	0	2.40	6.22	17.96	73.41	0.00	0.00
Annual	8290	28.8	49.8	Jul 23	5.8	Jan 08	73.1	Jul 24 17:00	0.1	Dec 29 05:00	99.4	0	0.92	4.71	18.33	58.18	17.86	0.00

AAAQO: 1-Hr: 76 ppb

## Total Hydrocarbons (THC) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights THC (ppm)													2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range					
												0 - 1.5	1.5 - 2.0	2.0 - 2.5	2.5 - 5.0	5.0 - 10.0	>10.0
January	704	2.3	2.8	Jan 14	2.1	Jan 30	5.4	Jan 14 05:00	2.0	Jan 29 22:00	99.6	0.00	1.14	84.23	14.49	0.14	0.00
February	656	2.3	2.7	Feb 21	2.1	Feb 01	3.1	Feb 21 12:00	2.0	Feb 26 01:00	99.4	0.00	0.00	91.92	8.08	0.00	0.00
March	476	2.3	2.5	Mar 07	2.1	Mar 18	2.7	Mar 07 20:00	2.0	Mar 18 05:00	67.9	0.00	0.00	96.43	3.57	0.00	0.00
April	583	2.2	2.4	Apr 11	2.1	Apr 06	2.7	Apr 11 07:00	2.0	Apr 07 05:00	84.9	0.00	0.00	97.77	2.23	0.00	0.00
May	707	2.2	2.3	May 09	2.1	May 29	2.5	May 09 05:00	2.0	May 29 07:00	99.7	0.00	0.00	100.00	0.00	0.00	0.00
June	684	2.1	2.2	Jun 08	2.0	Jun 03	2.5	Jun 10 08:00	2.0	Jun 11 18:00	100.0	0.00	0.88	98.98	0.15	0.00	0.00
July	705	2.1	2.3	Jul 21	2.1	Jul 14	2.7	Jul 08 06:00	2.0	Jul 10 12:00	99.7	0.00	0.00	99.15	0.85	0.00	0.00
August	707	2.0	2.1	Aug 15	1.9	Aug 28	2.4	Aug 16 06:00	1.9	Aug 20 03:00	99.9	0.00	76.10	23.90	0.00	0.00	0.00
September	680	2.0	2.1	Sep 28	1.9	Sep 14	2.7	Sep 01 23:00	1.8	Sep 25 13:00	99.7	0.00	77.94	21.91	0.15	0.00	0.00
October	687	2.0	2.3	Oct 31	1.8	Oct 19	2.5	Oct 31 23:00	1.8	Oct 21 01:00	100.0	0.00	56.62	43.09	0.29	0.00	0.00
November	682	2.3	2.6	Nov 27	2.1	Nov 17	3.0	Nov 03 23:00	2.0	Nov 04 22:00	99.9	0.00	0.00	91.50	8.50	0.00	0.00
December	708	2.3	2.8	Dec 29	2.1	Dec 08	3.3	Dec 12 20:00	2.0	Dec 07 21:00	99.9	0.00	0.00	79.52	20.48	0.00	0.00
Annual	7979	2.2	2.8	Dec 29	1.8	Oct 19	5.4	Jan 14 05:00	1.8	Oct 21 01:00	95.9	0.00	17.72	77.37	4.90	0.01	0.00

No AAAQO

## Particulate Matter (PM<sub>2.5</sub>) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights PM <sub>2.5</sub> (µg/m <sup>3</sup> )													2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range					
												24-Hr	1-Hr	0 - 2	2 - 10	10 - 20	20 - 40	40 - 80	> 80
January	743	5.1	17.2	Jan 19	0.2	Jan 27	24.6	Jan 19 10:00	0.2	Jan 27 00:00	100.0	0	0	38.22	26.92	21.67	9.42	3.77	0.00
February	695	6.2	28.9	Feb 21	0.4	Feb 25	67.8	Feb 03 05:00	0.2	Feb 29 04:00	99.9	0	0	36.83	26.76	19.42	11.37	3.31	2.30
March	744	4.8	12.0	Mar 07	0.5	Mar 10	108.3	Mar 26 06:00	0.2	Mar 11 03:00	100.0	0	1	27.96	42.74	24.46	3.76	0.81	0.27
April	719	3.8	10.5	Apr 07	0.5	Apr 09	45.3	Apr 07 20:00	0.2	Apr 09 16:00	100.0	0	0	31.71	52.71	13.35	1.25	0.70	0.28
May	744	4.8	30.8	May 12	1.0	May 02	148.1	May 11 22:00	0.3	May 01 21:00	100.0	1	3	36.83	50.00	4.03	4.30	2.55	2.28
June	698	3.6	6.2	Jun 10	1.4	Jun 05	43.7	Jun 11 01:00	0.7	Jun 16 01:00	96.9	0	0	15.62	78.37	4.87	0.72	0.29	0.14
July	742	15.7	50.5	Jul 21	3.9	Jul 01	90.4	Jul 23 04:00	1.8	Jul 01 05:00	99.7	4	3	0.40	28.84	21.29	18.87	17.65	12.94
August	743	13.9	77.1	Aug 15	3.5	Aug 28	184.1	Aug 15 10:00	1.6	Aug 28 19:00	99.9	4	8	0.54	51.01	37.15	4.71	5.52	1.08
September	714	7.6	24.5	Sep 09	2.3	Sep 22	55.8	Sep 11 21:00	1.0	Sep 26 15:00	99.9	0	0	2.80	80.53	10.78	5.32	0.56	0.00
October	743	5.4	12.2	Oct 15	2.0	Oct 28	21.1	Oct 31 22:00	1.1	Oct 28 04:00	100.0	0	0	9.69	81.56	8.48	0.27	0.00	0.00
November	716	6.4	23.5	Nov 27	1.9	Nov 17	45.9	Nov 27 14:00	0.5	Nov 14 04:00	99.9	0	0	8.52	77.93	11.03	2.23	0.28	0.00
December	742	6.5	15.8	Dec 22	0.7	Dec 26	46.7	Dec 22 05:00	0.2	Dec 27 02:00	99.9	0	0	21.56	58.09	17.65	2.56	0.13	0.00
Annual	8743	7.0	77.1	Aug 15	0.2	Jan 27	184.1	Aug 15 10:00	0.2	Jan 27 00:00	99.7	9	15	19.22	54.62	16.18	5.40	2.96	1.61

AAAQO: 24-Hr: 29 µg/m<sup>3</sup>, 1-Hr: 80 µg/m<sup>3</sup>

## Carbon Monoxide (CO) – Crescent Heights 2024 Summary and Frequency Distribution

Crescent Heights CO (ppm)													2024					
Month	# of Readings	Average	8-hr Maximum	Date	8-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range				
												8-Hr	1-Hr	0 - 1	2 - 3	4 - 5	6 - 10	>10
January	704	0.2	0.3	Jan 19	0.1	Jan 18	0.5	Jan 19 09:00	0.1	Jan 18 14:00	99.6	0	0	0.57	99.43	0	0	0
February	656	0.2	0.3	Feb 02	0.1	Feb 17	0.5	Feb 02 09:00	0.1	Feb 17 18:00	99.4	0	0	0	100	0	0	0
March	705	0.2	0.3	Mar 26	0.0	Mar 15	0.4	Mar 25 07:00	0.0	Mar 15 01:00	100.0	0	0	4.11	95.89	0	0	0
April	684	0.1	0.5	Apr 30	0.0	Apr 08	0.6	Apr 30 18:00	0.0	Apr 01 08:00	99.6	0	0	22.81	77.19	0	0	0
May	707	0.1	0.4	May 12	0.0	May 05	0.6	May 11 22:00	0.0	May 04 22:00	99.7	0	0	24.75	75.25	0	0	0
June	688	0.1	0.2	Jun 01	0.0	Jun 16	0.3	Jun 01 09:00	0.0	Jun 08 10:00	100.0	0	0	19.77	80.23	0	0	0
July	220	0.1	0.3	Jul 05	0.0	Jul 06	0.3	Jul 04 22:00	0.0	Jul 06 04:00	34.3	0	0	33.18	66.82	0	0	0
August	691	0.2	1.1	Aug 15	0.0	Aug 07	1.5	Aug 15 11:00	0.0	Aug 03 03:00	97.5	0	0	22.72	76.7	0.58	0	0
September	681	0.2	0.4	Sep 13	0.1	Sep 24	0.4	Sep 13 04:00	0.1	Sep 24 11:00	99.7	0	0	1.32	98.68	0	0	0
October	707	0.1	0.2	Nov 01	0.1	Oct 21	0.4	Oct 31 21:00	0.1	Oct 08 13:00	100.0	0	0	0.42	99.58	0	0	0
November	682	0.1	0.2	Nov 27	0.1	Nov 09	0.3	Nov 27 14:00	0.1	Nov 10 02:00	99.6	0	0	0	100	0	0	0
December	708	0.2	0.3	Dec 29	0.1	Dec 06	0.3	Dec 21 19:00	0.1	Dec 06 05:00	99.9	0	0	0.42	99.58	0	0	0
Annual	7833	0.2	1.1	Aug 15	0.0	Apr 08	1.5	Aug 15 11:00	0.0	Apr 01 08:00	94.1	0	0	10.84	89.11	0.05	0.00	0.00

AAAQO Objectives: 8-Hr: 5 ppm, 1-Hr: 13 ppm

### Ambient Temperature – Crescent Heights 2024 Summary

Crescent Heights			Ambient Temperature (°C)								2024
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	744	-10.3	10.7	Jan 30	-36.0	Jan 14	15.8	Jan 30 15:00	-40.1	Jan 14 09:00	100.0
February	695	-3.9	9.0	Feb 01	-20.0	Feb 27	16.3	Feb 01 16:00	-22.4	Feb 27 07:00	99.9
March	744	-2.6	10.8	Mar 18	-17.4	Mar 04	19.0	Mar 18 17:00	-21.3	Mar 07 07:00	100.0
April	720	8.0	15.8	Apr 24	-1.4	Apr 19	22.8	Apr 24 15:00	-5.5	Apr 20 06:00	100.0
May	744	12.1	19.7	May 28	2.5	May 02	27.8	May 28 17:00	0.5	May 03 05:00	100.0
June	696	16.4	24.6	Jun 23	9.8	Jun 18	32.1	Jun 23 15:00	5.5	Jun 18 05:00	96.7
July	743	23.1	29.0	Jul 23	15.7	Jul 01	38.6	Jul 24 17:00	11.1	Jul 27 06:00	99.9
August	743	21.0	27.7	Aug 19	11.5	Aug 28	34.7	Aug 19 17:00	8.3	Aug 08 05:00	99.9
September	720	17.2	24.3	Sep 07	8.8	Sep 30	34.0	Sep 07 16:00	4.9	Sep 21 07:00	100.0
October	744	9.6	16.7	Oct 08	0.4	Oct 22	27.5	Oct 14 16:00	-4.8	Oct 30 01:00	100.0
November	719	-1.8	11.1	Nov 08	-16.5	Nov 29	18.7	Nov 08 16:00	-19.9	Nov 29 01:00	99.9
December	743	-4.3	5.2	Dec 07	-15.9	Dec 01	7.7	Dec 24 15:00	-18.7	Dec 02 08:00	99.9
<b>Annual</b>	<b>8755</b>	<b>7.0</b>	<b>29.0</b>	<b>Jul 23</b>	<b>-36.0</b>	<b>Jan 14</b>	<b>38.6</b>	<b>Jul 24 17:00</b>	<b>-40.1</b>	<b>Jan 14 09:00</b>	<b>99.7</b>

### Relative Humidity – Crescent Heights 2024 Summary

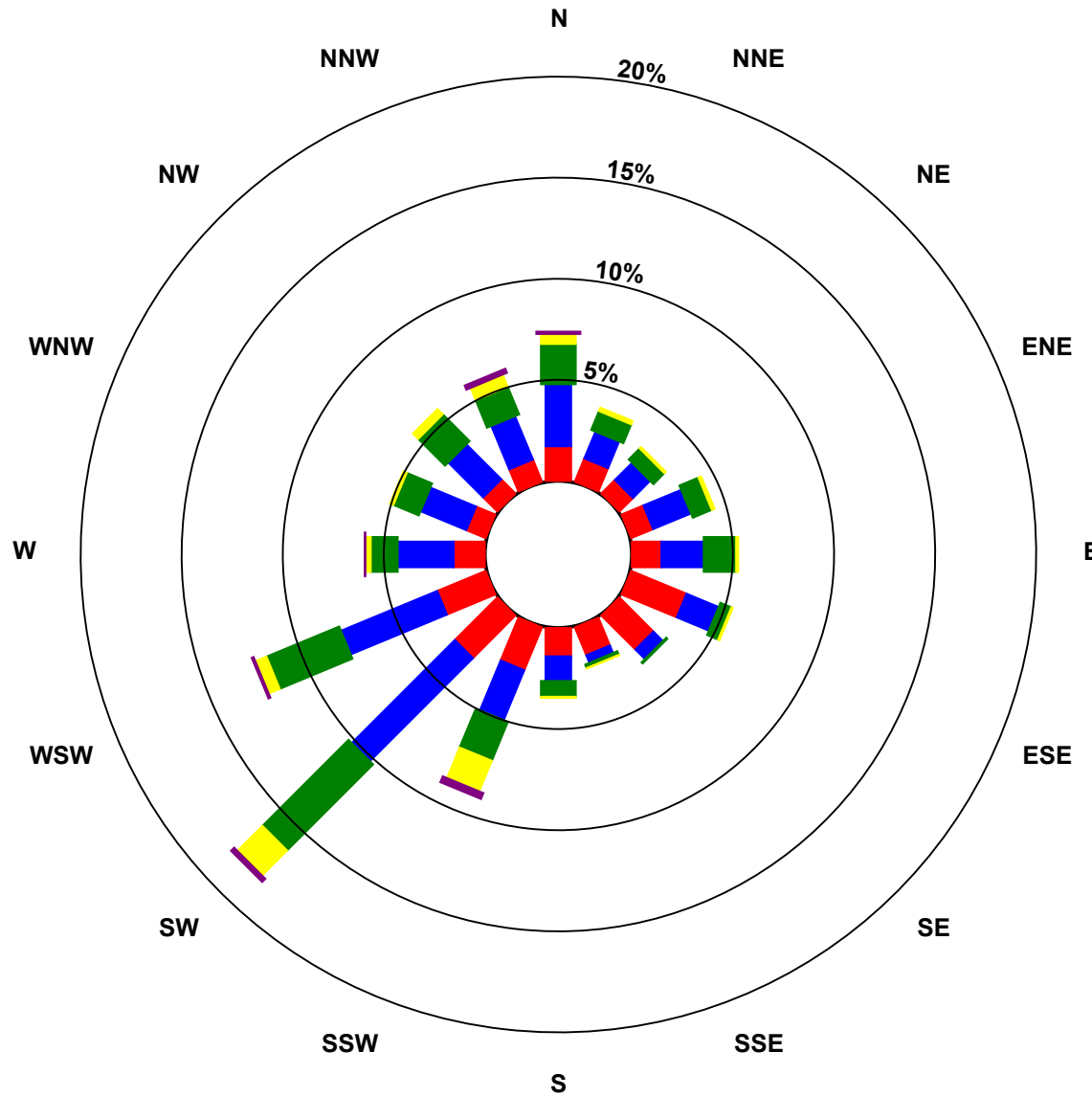
Crescent Heights			Relative Humidity (%)								2024
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	744	81.1	99.1	Jan 04	57.5	Jan 13	100.0	Jan 01 06:00	44.5	Jan 30 11:00	100.0
February	695	83.0	100.0	Feb 04	48.5	Feb 01	100.0	Feb 03 09:00	28.0	Feb 01 16:00	99.9
March	744	76.3	99.0	Mar 21	43.5	Mar 18	100.0	Mar 02 05:00	15.8	Mar 18 16:00	100.0
April	720	56.2	99.9	Apr 06	20.6	Apr 24	100.0	Apr 04 05:00	8.8	Apr 24 17:00	100.0
May	744	66.8	100.0	May 07	38.4	May 11	100.0	May 01 20:00	17.4	May 10 17:00	100.0
June	696	54.5	88.3	Jun 17	28.2	Jun 14	100.0	Jun 04 01:00	13.6	Jun 14 22:00	96.7
July	743	53.9	92.0	Jul 01	31.4	Jul 24	100.0	Jul 01 07:00	10.1	Jul 24 14:00	99.9
August	743	50.4	88.3	Aug 28	31.1	Aug 02	100.0	Aug 05 06:00	13.8	Aug 01 18:00	99.9
September	720	58.2	94.2	Sep 12	28.8	Sep 27	100.0	Sep 12 12:00	11.4	Sep 07 16:00	100.0
October	744	57.3	95.4	Oct 22	34.2	Oct 08	100.0	Oct 12 04:00	12.4	Oct 08 15:00	100.0
November	719	78.2	99.0	Nov 23	44.3	Nov 17	100.0	Nov 01 02:00	25.7	Nov 12 15:00	99.9
December	743	85.4	98.9	Dec 30	58.9	Dec 25	100.0	Dec 05 06:00	39.6	Dec 24 15:00	99.9
<b>Annual</b>	<b>8755</b>	<b>66.8</b>	<b>100.0</b>	<b>Feb 04</b>	<b>20.6</b>	<b>Apr 24</b>	<b>100.0</b>	<b>Jan 01 06:00</b>	<b>8.8</b>	<b>Apr 24 17:00</b>	<b>99.7</b>

## Wind Speed and Wind Direction Frequency Distribution – Crescent Heights 2024 Summary

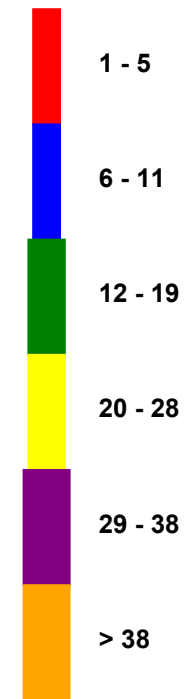
Crescent Heights								2024
Direction	# of Readings	% of wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
<b>N</b>	624	1.72	3.07	1.99	0.50	0.12	0.00	7.39
<b>NNE</b>	327	1.24	1.43	1.01	0.19	0.00	0.00	3.87
<b>NE</b>	255	0.95	1.20	0.77	0.11	0.00	0.00	3.02
<b>ENE</b>	369	1.17	2.03	1.02	0.15	0.00	0.00	4.37
<b>E</b>	444	1.46	2.10	1.60	0.11	0.00	0.00	5.26
<b>ESE</b>	452	2.96	1.72	0.59	0.08	0.00	0.00	5.35
<b>SE</b>	264	2.38	0.66	0.08	0.00	0.00	0.00	3.13
<b>SSE</b>	179	1.49	0.40	0.19	0.04	0.00	0.00	2.12
<b>S</b>	292	1.40	1.22	0.78	0.06	0.00	0.00	3.46
<b>SSW</b>	760	2.30	2.66	2.08	1.63	0.32	0.00	9.00
<b>SW</b>	1535	2.97	7.21	6.02	1.75	0.23	0.00	18.18
<b>WSW</b>	1042	2.59	5.15	3.90	0.59	0.11	0.00	12.34
<b>WSW</b>	501	1.54	2.77	1.34	0.27	0.01	0.00	5.93
<b>WNW</b>	424	1.03	2.45	1.36	0.18	0.00	0.00	5.02
<b>NW</b>	480	0.99	2.44	1.87	0.38	0.00	0.00	5.69
<b>NNW</b>	495	1.18	2.32	1.48	0.65	0.23	0.00	5.86
<b>Totals</b>	<b>8443</b>	<b>27.38</b>	<b>38.84</b>	<b>26.08</b>	<b>6.69</b>	<b>1.01</b>	<b>0.00</b>	<b>100</b>

# Wind Rose

Wind Speed (WS) (km/h)  
Crescent Heights - 2024



## Wind Speed Classes (km/h)





**PAS**  
**BROOKS**  
**CONTINUOUS AMBIENT AIR MONITORING STATION**  
  
**2024**  
**SUMMARY TABLES**

## Nitric Oxide (NO) – Brooks 2024 Summary and Frequency Distribution

Brooks												NO (ppb)					2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range									
												0 - 25	25 - 50	50 - 110	110 - 210	>210					
January	705	2.3	10.0	Jan 24	0.4	Jan 27	42.0	Jan 23 10:00	0.0	Jan 01 06:00	100.0	99.57	0.43	0.00	0.00	0.00					
February	658	1.9	6.9	Feb 21	0.2	Feb 29	31.1	Feb 21 09:00	0.0	Feb 01 19:00	99.9	99.70	0.30	0.00	0.00	0.00					
March	703	1.1	6.0	Mar 07	0.1	Mar 10	28.8	Mar 07 09:00	0.0	Mar 01 01:00	100.0	99.72	0.28	0.00	0.00	0.00					
April	680	0.7	2.2	Apr 01	0.3	Apr 21	10.6	Apr 01 08:00	0.0	Apr 01 01:00	100.0	100.00	0.00	0.00	0.00	0.00					
May	696	0.7	1.3	May 13	0.1	May 07	8.8	May 13 06:00	0.0	May 01 01:00	98.8	100.00	0.00	0.00	0.00	0.00					
June	679	0.7	1.3	Jun 06	0.2	Jun 16	6.5	Jun 06 07:00	0.0	Jun 01 01:00	99.4	100.00	0.00	0.00	0.00	0.00					
July	687	1.0	1.8	Jul 07	0.5	Jul 27	15.4	Jul 07 06:00	0.0	Jul 09 03:00	98.0	100.00	0.00	0.00	0.00	0.00					
August	706	0.4	1.3	Aug 08	0.0	Aug 24	15.0	Aug 23 08:00	0.0	Aug 01 01:00	100.0	100.00	0.00	0.00	0.00	0.00					
September	676	0.6	3.6	Sep 02	0.0	Sep 20	32.7	Sep 16 07:00	0.0	Sep 01 01:00	99.4	99.85	0.15	0.00	0.00	0.00					
October	540	0.8	3.5	Oct 23	0.0	Oct 19	20.5	Oct 25 08:00	0.0	Oct 01 01:00	76.8	100.00	0.00	0.00	0.00	0.00					
November	683	0.5	2.9	Nov 24	0.0	Nov 17	19.5	Nov 27 11:00	0.0	Nov 01 01:00	99.9	100.00	0.00	0.00	0.00	0.00					
December	705	1.5	11.1	Dec 13	0.0	Dec 08	28.7	Dec 13 10:00	0.0	Dec 01 01:00	99.9	99.72	0.28	0.00	0.00	0.00					
Annual	8118	1.0	11.1	Dec 13	0.0	Aug 24	42.0	Jan 23 10:00	0.0	Jan 01 06:00	97.7	99.88	0.12	0.00	0.00	0.00					

No AAAQO

## Nitrogen Dioxide (NO<sub>2</sub>) – Brooks 2024 Summary and Frequency Distribution

Brooks												NO <sub>2</sub> (ppb)					2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range							
												Annual	1-Hr	0 - 25	25 - 50	50 - 110	110 - 159	>159			
January	705	6.8	15.6	Jan 23	2.4	Jan 10	28.6	Jan 23 18:00	0.0	Jan 03 18:00	100.0	0	0	98.16	1.84	0.00	0.00	0.00			
February	658	5.6	13.3	Feb 20	1.4	Feb 29	24.9	Feb 13 22:00	0.0	Feb 28 22:00	99.9	0	0	100.00	0.00	0.00	0.00	0.00			
March	703	3.7	11.5	Mar 07	0.8	Mar 10	31.2	Mar 07 08:00	0.0	Mar 10 08:00	100.0	0	0	99.57	0.43	0.00	0.00	0.00			
April	680	2.6	5.8	Apr 01	0.8	Apr 28	22.9	Apr 25 21:00	0.0	Apr 08 23:00	100.0	0	0	100.00	0.00	0.00	0.00	0.00			
May	696	2.7	4.5	May 10	1.3	May 07	14.5	May 13 05:00	0.0	May 14 18:00	98.8	0	0	100.00	0.00	0.00	0.00	0.00			
June	679	3.0	6.0	Jun 06	1.2	Jun 04	15.1	Jun 11 00:00	0.0	Jun 03 14:00	99.4	0	0	100.00	0.00	0.00	0.00	0.00			
July	687	3.2	5.6	Jul 11	1.4	Jul 26	15.7	Jul 18 23:00	0.0	Jul 06 18:00	98.0	0	0	100.00	0.00	0.00	0.00	0.00			
August	706	2.9	5.5	Aug 17	0.4	Aug 24	19.2	Aug 29 21:00	0.0	Aug 24 10:00	100.0	0	0	100.00	0.00	0.00	0.00	0.00			
September	676	3.6	7.7	Sep 02	1.2	Sep 26	20.4	Sep 02 22:00	0.1	Sep 01 16:00	99.4	0	0	100.00	0.00	0.00	0.00	0.00			
October	540	3.7	7.6	Oct 25	0.4	Oct 19	16.2	Oct 25 07:00	0.0	Oct 19 23:00	76.8	0	0	100.00	0.00	0.00	0.00	0.00			
November	683	4.1	10.9	Nov 26	1.0	Nov 11	25.0	Nov 26 08:00	0.1	Nov 17 15:00	99.9	0	0	99.85	0.15	0.00	0.00	0.00			
December	705	7.1	17.8	Dec 21	1.9	Dec 24	29.8	Dec 21 22:00	0.2	Dec 26 01:00	99.9	0	0	98.87	1.13	0.00	0.00	0.00			
Annual	8118	4.1	17.8	Dec 21	0.4	Oct 19	31.2	Mar 07 08:00	0.0	Jan 03 18:00	97.7	0	0	99.70	0.30	0.00	0.00	0.00			

AAAQO: Annual: 24 ppb, 1-Hr: 159 ppb

## Total Oxides of Nitrogen (NOx) – Brooks 2024 Summary and Frequency Distribution

Brooks NOx (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	705	9.0	25.4	Jan 23	3.5	Jan 10	65.5	Jan 23 10:00	0.0	Jan 03 18:00	100.0	93.76	5.82	0.43	0.00	0.00
February	658	7.0	19.4	Feb 21	0.6	Feb 26	49.2	Feb 21 09:00	0.0	Feb 23 03:00	99.9	96.96	3.04	0.00	0.00	0.00
March	703	4.9	17.5	Mar 07	0.8	Mar 10	54.4	Mar 07 08:00	0.0	Mar 10 03:00	100.0	98.72	1.00	0.28	0.00	0.00
April	680	3.2	7.9	Apr 01	1.1	Apr 28	29.9	Apr 25 21:00	0.0	Apr 08 23:00	100.0	99.85	0.15	0.00	0.00	0.00
May	696	3.4	5.7	May 10	1.3	May 07	20.4	May 13 05:00	0.1	May 08 03:00	98.8	100.00	0.00	0.00	0.00	0.00
June	679	3.7	7.3	Jun 06	1.9	Jun 04	18.5	Jun 06 06:00	0.3	Jun 08 15:00	99.4	100.00	0.00	0.00	0.00	0.00
July	687	4.2	6.9	Jul 16	2.0	Jul 26	27.8	Jul 07 06:00	0.0	Jul 16 17:00	98.0	99.85	0.15	0.00	0.00	0.00
August		3.2	6.7	Aug 17	0.3	Aug 24	29.9	Aug 29 21:00	0.0	Aug 24 10:00	100.0	99.72	0.28	0.00	0.00	0.00
September	676	4.1	11.3	Sep 02	1.1	Sep 26	51.6	Sep 16 07:00	0.0	Sep 01 13:00	99.4	99.41	0.44	0.15	0.00	0.00
October	540	4.4	10.9	Oct 25	0.3	Oct 19	36.6	Oct 25 08:00	0.0	Oct 19 00:00	76.8	99.26	0.74	0.00	0.00	0.00
November	683	4.6	12.9	Nov 26	0.9	Nov 17	40.4	Nov 24 22:00	0.0	Nov 17 15:00	99.9	98.98	1.02	0.00	0.00	0.00
December	705	8.5	26.9	Dec 13	1.7	Dec 24	51.9	Dec 21 21:00	0.0	Dec 26 01:00	99.9	94.89	4.82	0.28	0.00	0.00
Annual	7412	5.0	26.9	Dec 13	0.3	Oct 19	65.5	Jan 23 10:00	0.0	Jan 03 18:00	97.7	98.45	1.46	0.10	0.00	0.00

No AAAQO

## Ozone (O<sub>3</sub>) – Brooks 2024 Summary and Frequency Distribution

Brooks O <sub>3</sub> (ppb)												2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO 1-Hr	Percentage of Readings in Concentration Range					
													0 - 2	2 - 10	10 - 20	20 - 40	40 - 76	>76
January	709	18.9	30.4	Jan 21	4.3	Jan 08	39.5	Jan 28 07:00	0.0	Jan 04 21:00	100.0	0	7.05	13.54	30.47	48.94	0.00	0.00
February	658	25.0	38.1	Feb 24	5.7	Feb 02	45.6	Feb 26 11:00	0.0	Feb 02 19:00	99.9	0	2.28	6.69	23.25	63.98	3.80	0.00
March	708	32.0	40.7	Mar 26	15.7	Mar 12	54.9	Mar 27 16:00	0.0	Mar 13 02:00	100.0	0	0.14	3.11	8.19	68.79	19.77	0.00
April	686	32.7	42.5	Apr 22	19.0	Apr 06	58.9	Apr 24 16:00	1.5	Apr 02 06:00	100.0	0	0.15	2.19	12.24	56.71	28.72	0.00
May	699	30.2	42.3	May 12	19.8	May 22	60.0	May 12 16:00	1.3	May 23 03:00	98.8	0	0.29	4.15	16.74	58.08	20.74	0.00
June	676	32.7	43.0	Jun 12	19.7	Jun 30	62.7	Jun 14 15:00	1.8	Jun 11 00:00	98.6	0	0.15	2.66	15.53	52.81	28.85	0.00
July	693	34.0	47.6	Jul 23	20.2	Jul 03	71.1	Jul 23 17:00	1.7	Jul 01 03:00	98.7	0	0.14	4.18	17.32	39.54	38.82	0.00
August	709	32.1	40.6	Aug 20	18.6	Aug 29	57.5	Aug 19 16:00	0.5	Aug 08 06:00	100.0	0	0.71	4.09	16.08	47.67	31.45	0.00
September	683	25.3	39.2	Sep 26	13.9	Sep 12	58.3	Sep 09 15:00	0.7	Sep 02 05:00	99.9	0	1.17	10.10	28.99	43.92	15.81	0.00
October	706	21.1	31.0	Oct 19	10.6	Oct 22	45.6	Oct 07 15:00	0.4	Oct 09 21:00	99.7	0	2.12	12.18	33.71	49.72	2.27	0.00
November	685	20.0	31.4	Nov 17	11.2	Nov 03	38.0	Nov 12 15:00	0.0	Nov 25 01:00	99.9	0	1.46	7.01	42.77	48.76	0.00	0.00
December	708	23.3	33.8	Dec 11	5.1	Dec 13	43.0	Dec 08 09:00	0.0	Dec 13 05:00	99.9	0	4.24	5.79	21.47	68.08	0.42	0.00
Annual	8320	27.3	47.6	Jul 23	4.3	Jan 08	71.1	Jul 23 17:00	0.0	Jan 04 21:00	99.6	0	1.66	6.31	22.23	53.92	15.89	0.00

AAAQO: 1-Hr: 76 ppb

## Particulate Matter (PM<sub>2.5</sub>) – Brooks 2024 Summary and Frequency Distribution

Brooks PM <sub>2.5</sub> (µg/m <sup>3</sup> ) 2024																			
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range					
												24-Hr	1-Hr	0 - 2	2 - 10	10 - 20	20 - 40	40 - 80	> 80
January	620	6.9	23.3	Jan 24	2.1	Jan 17	46.4	Jan 24 09:00	0.0	Jan 09 05:00	83.9	0	0	16.29	41.94	24.84	9.03	6.94	0.97
February	695	8.7	38.8	Feb 21	1.7	Feb 25	54.4	Feb 21 03:00	0.7	Feb 25 02:00	99.9	2	0	13.81	42.30	20.86	10.94	6.76	5.32
March	744	5.7	16.2	Mar 07	1.3	Mar 20	31.9	Mar 07 04:00	0.8	Mar 20 07:00	100.0	0	0	12.77	52.28	23.52	8.47	2.82	0.13
April	718	3.9	8.2	Apr 02	1.1	Apr 26	17.4	Apr 06 06:00	0.0	Apr 26 02:00	100.0	0	0	31.20	50.84	13.09	4.74	0.14	0.00
May	744	5.3	30.0	May 11	1.1	May 07	172.7	May 11 20:00	0.0	May 02 02:00	100.0	1	3	32.53	47.45	11.56	3.63	2.69	2.15
June	717	5.4	16.8	Jun 14	2.0	Jun 18	71.3	Jun 11 21:00	0.9	Jun 16 03:00	99.6	0	0	17.15	59.27	12.97	6.69	3.07	0.84
July	744	13.3	38.3	Jul 21	2.6	Jul 02	106.5	Jul 22 23:00	0.9	Jul 31 10:00	100.0	3	5	6.18	29.97	20.30	18.68	15.59	9.27
August	743	14.2	66.7	Aug 15	2.4	Aug 28	206.6	Aug 15 10:00	1.0	Aug 28 10:00	100.0	3	5	2.96	48.18	32.57	9.83	5.79	0.67
September	718	7.9	24.3	Sep 09	2.1	Sep 22	41.4	Sep 09 15:00	1.0	Sep 23 14:00	99.9	0	0	6.55	70.89	15.04	7.24	0.28	0.00
October	739	5.5	13.2	Oct 15	2.1	Oct 05	26.9	Oct 04 18:00	0.7	Oct 28 05:00	100.0	0	0	8.93	80.11	10.83	0.14	0.00	0.00
November	718	6.9	15.9	Nov 27	1.7	Nov 17	26.4	Nov 28 05:00	0.5	Nov 17 19:00	99.9	0	0	9.61	69.78	19.22	1.39	0.00	0.00
December	742	8.7	19.8	Dec 30	0.8	Dec 25	34.8	Dec 15 15:00	0.3	Dec 24 22:00	99.9	0	0	18.33	46.90	27.22	7.55	0.00	0.00
Annual	8642	7.7	66.7	Aug 15	0.8	Dec 25	206.6	Aug 15 10:00	0.0	Jan 09 05:00	98.6	9	13	14.69	53.33	19.34	7.36	3.67	1.61

AAAQO: 24-Hr: 29 µg/m<sup>3</sup>, 1-Hr: 80 µg/m<sup>3</sup>

## Ambient Temperature – Brooks 2024 Summary

Brooks Ambient Temperature (°C) 2024											
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	744	-12.2	6.6	Jan 30	-37.2	Jan 13	10.3	Jan 31 15:00	-41.2	Jan 13 07:00	100.0
February	695	-6.7	4.3	Feb 01	-22.2	Feb 27	12.5	Feb 01 15:00	-25.3	Feb 27 06:00	99.9
March	744	-4.8	9.0	Mar 18	-18.9	Mar 04	18.3	Mar 18 17:00	-23.9	Mar 07 06:00	100.0
April	720	6.3	11.9	Apr 25	-0.9	Apr 19	19.8	Apr 24 13:00	-8.0	Apr 20 06:00	100.0
May	744	10.9	18.2	May 11	3.2	May 02	26.9	May 28 16:00	-0.9	May 04 05:00	100.0
June	717	15.0	22.1	Jun 23	9.3	Jun 16	30.4	Jun 23 16:00	2.0	Jun 19 04:00	99.6
July	744	21.6	26.6	Jul 23	15.1	Jul 03	36.8	Jul 23 16:00	6.4	Jul 27 05:00	100.0
August	744	19.2	24.9	Aug 19	10.4	Aug 28	32.7	Aug 03 16:00	6.1	Aug 26 06:00	100.0
September	719	15.3	21.9	Sep 02	7.8	Sep 30	34.1	Sep 02 16:00	3.0	Sep 30 22:00	99.9
October	744	7.2	15.1	Oct 08	-2.6	Oct 31	25.5	Oct 08 15:00	-7.2	Oct 31 08:00	100.0
November	719	-3.3	8.6	Nov 08	-17.2	Nov 29	20.1	Nov 08 14:00	-23.5	Nov 25 04:00	99.9
December	739	-6.3	1.8	Dec 07	-16.8	Dec 01	6.2	Dec 03 15:00	-19.1	Dec 19 09:00	99.3
Annual	8773	5.2	26.6	Jul 23	-37.2	Jan 13	36.8	Jul 23 16:00	-41.2	Jan 13 07:00	99.9

## Relative Humidity – Brooks 2024 Summary

Brooks Relative Humidity (%) 2024											
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	744	71.6	85.4	Jan 02	59.8	Jan 12	86.6	Jan 02 05:00	50.5	Jan 05 15:00	100.0
February	695	71.7	83.8	Feb 07	60.7	Feb 24	85.8	Feb 07 01:00	47.3	Feb 22 14:00	99.9
March	744	69.3	83.0	Mar 13	48.0	Mar 18	86.7	Mar 14 10:00	20.9	Mar 18 17:00	100.0
April	720	54.1	84.4	Apr 05	28.4	Apr 22	87.4	Apr 05 05:00	15.0	Apr 24 15:00	100.0
May	744	60.4	80.9	May 07	35.8	May 11	88.8	May 24 07:00	20.5	May 28 17:00	100.0
June	717	53.2	77.5	Jun 27	32.7	Jun 05	88.1	Jun 22 05:00	11.9	Jun 23 18:00	99.6
July	744	51.2	70.4	Jul 01	36.7	Jul 26	90.1	Jul 01 04:00	9.7	Jul 24 15:00	100.0
August	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-
December	341	81.0	92.1	Dec 22	63.2	Dec 25	99.2	Dec 22 19:00	55.0	Dec 25 11:00	99.1
<b>Annual</b>	<b>5449</b>	<b>64.1</b>	<b>92.1</b>	<b>Dec 22</b>	<b>28.4</b>	<b>Apr 22</b>	<b>99.2</b>	<b>Dec 22 19:00</b>	<b>9.7</b>	<b>Jul 24 15:00</b>	<b>99.8</b>

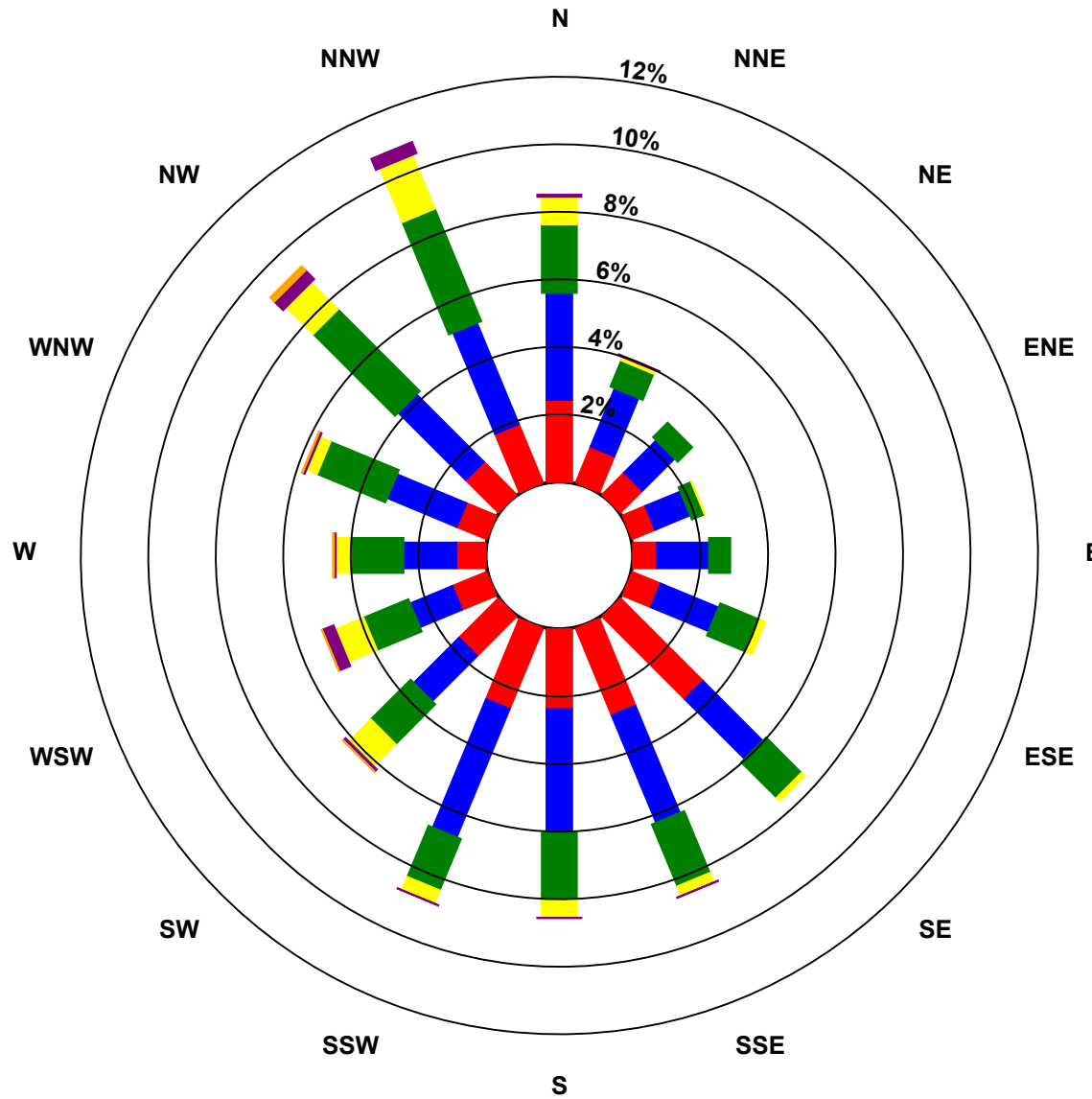
## Wind Speed and Wind Direction Frequency Distribution – Brooks 2024 Summary

Brooks								2024
Direction	# of Readings	% of wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
<b>N</b>	730	2.43	3.17	2.03	0.82	0.07	0.00	8.51
<b>NNE</b>	343	1.15	1.87	0.84	0.10	0.03	0.00	4.00
<b>NE</b>	246	0.91	1.35	0.61	0.00	0.00	0.00	2.87
<b>ENE</b>	195	0.73	1.12	0.41	0.01	0.00	0.00	2.27
<b>E</b>	247	0.71	1.54	0.63	0.00	0.00	0.00	2.88
<b>ESE</b>	361	0.91	1.85	1.27	0.17	0.00	0.00	4.21
<b>SE</b>	650	3.45	2.51	1.48	0.14	0.00	0.00	7.58
<b>SSE</b>	731	2.79	3.44	1.98	0.30	0.01	0.00	8.52
<b>S</b>	734	2.37	3.67	1.98	0.52	0.01	0.00	8.56
<b>SSW</b>	752	2.58	4.12	1.64	0.42	0.01	0.00	8.77
<b>SW</b>	534	1.64	1.89	1.67	0.92	0.09	0.01	6.23
<b>WSW</b>	443	1.10	1.35	1.43	0.91	0.36	0.01	5.17
<b>WSW</b>	388	0.87	1.56	1.56	0.44	0.06	0.02	4.52
<b>WNW</b>	498	0.96	2.23	2.19	0.34	0.07	0.02	5.81
<b>NW</b>	796	1.36	2.82	3.43	1.13	0.36	0.17	9.28
<b>NNW</b>	927	1.88	3.24	3.60	1.73	0.36	0.00	10.81
<b>Totals</b>	<b>8575</b>	<b>25.84</b>	<b>37.74</b>	<b>26.76</b>	<b>7.97</b>	<b>1.45</b>	<b>0.24</b>	<b>100</b>

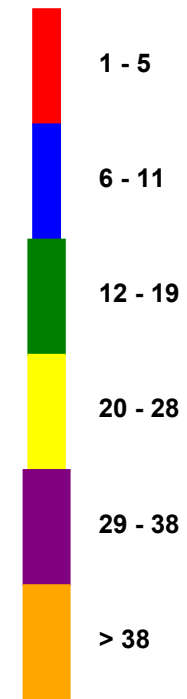
# Wind Rose

Wind Speed (WS) (km/h)

Brooks - 2024



## Wind Speed Classes (km/h)



**PAS**  
**TABER**  
**CONTINUOUS AMBIENT AIR MONITORING STATION**  
  
**2024**  
**SUMMARY TABLES**



## Nitric Oxide (NO) – Taber 2024 Summary and Frequency Distribution

Taber NO (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	705	3.0	12.2	Jan 08	0.4	Jan 06	42.4	Jan 08 12:00	0.0	Jan 01 20:00	100.0	99.29	0.71	0.00	0.00	0.00
February	655	2.4	7.1	Feb 20	0.4	Feb 24	43.8	Feb 20 09:00	0.0	Feb 11 01:00	99.4	99.08	0.92	0.00	0.00	0.00
March	703	1.2	3.0	Mar 15	0.2	Mar 23	18.6	Mar 15 08:00	0.0	Mar 07 03:00	100.0	100.00	0.00	0.00	0.00	0.00
April	681	0.9	3.5	Apr 13	0.2	Apr 28	68.3	Apr 13 07:00	0.0	Apr 01 04:00	100.0	99.85	0.00	0.15	0.00	0.00
May	703	0.9	1.8	May 23	0.1	May 12	20.0	May 21 08:00	0.0	May 10 19:00	99.5	100.00	0.00	0.00	0.00	0.00
June	678	0.7	1.6	Jun 13	0.2	Jun 09	16.8	Jun 13 06:00	0.0	Jun 04 00:00	99.7	100.00	0.00	0.00	0.00	0.00
July	703	0.8	1.6	Jul 03	0.2	Jul 14	15.7	Jul 23 07:00	0.0	Jul 01 01:00	100.0	100.00	0.00	0.00	0.00	0.00
August	703	1.1	4.5	Aug 08	0.1	Aug 11	35.1	Aug 08 06:00	0.0	Aug 05 01:00	99.9	99.72	0.28	0.00	0.00	0.00
September	683	1.5	3.7	Sep 16	0.2	Sep 01	32.2	Sep 23 07:00	0.0	Sep 01 01:00	99.6	99.71	0.29	0.00	0.00	0.00
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Annual</b>	<b>6220</b>	<b>1.4</b>	<b>12.2</b>	<b>Jan 08</b>	<b>0.1</b>	<b>Aug 11</b>	<b>68.3</b>	<b>Apr 13 07:00</b>	<b>0.0</b>	<b>Jan 01 20:00</b>	<b>99.8</b>	<b>99.74</b>	<b>0.24</b>	<b>0.02</b>	<b>0.00</b>	<b>0.00</b>

No AAAQO

## Nitrogen Dioxide (NO<sub>2</sub>) – Taber 2024 Summary and Frequency Distribution

Taber NO <sub>2</sub> (ppb)												2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range				
												Annual	1-Hr	0 - 25	25 - 50	50 - 110	110 - 159	>159
January	705	5.6	12.8	Jan 18	1.6	Jan 28	29.5	Jan 18 18:00	0.6	Jan 06 02:00	100.0		99.57	0.43	0.00	0.00	0.00	0.00
February	655	5.5	11.4	Feb 14	2.3	Feb 04	28.6	Feb 20 08:00	0.5	Feb 25 19:00	99.4		99.24	0.76	0.00	0.00	0.00	0.00
March	703	4.7	8.7	Mar 22	2.1	Mar 09	31.9	Mar 22 07:00	0.5	Mar 11 01:00	100.0		99.57	0.43	0.00	0.00	0.00	0.00
April	681	3.7	5.6	Apr 02	1.4	Apr 28	27.2	Apr 13 07:00	0.5	Apr 21 10:00	100.0		99.85	0.15	0.00	0.00	0.00	0.00
May	703	3.7	7.2	May 13	1.9	May 07	15.0	May 17 20:00	0.7	May 04 15:00	99.5		100	0.00	0.00	0.00	0.00	0.00
June	678	2.9	5.0	Jun 10	1.2	Jun 29	19.4	Jun 12 06:00	0.4	Jun 29 12:00	99.7		100	0.00	0.00	0.00	0.00	0.00
July	703	2.2	3.9	Jul 18	0.9	Jul 22	22.0	Jul 23 07:00	0.0	Jul 20 17:00	100.0		100	0.00	0.00	0.00	0.00	0.00
August	703	2.8	4.6	Aug 14	0.9	Aug 25	18.8	Aug 18 21:00	0.0	Aug 10 14:00	99.9		100	0.00	0.00	0.00	0.00	0.00
September	683	3.0	6.2	Sep 16	1.0	Sep 14	18.2	Sep 07 20:00	0.2	Sep 30 18:00	99.6		100	0.00	0.00	0.00	0.00	0.00
October	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
<b>Annual</b>	<b>6220</b>	<b>3.8</b>	<b>12.8</b>	<b>Jan 18</b>	<b>0.9</b>	<b>Aug 25</b>	<b>31.9</b>	<b>Mar 22 07:00</b>	<b>0.0</b>	<b>Jul 20 17:00</b>	<b>99.8</b>	<b>0</b>	<b>98.58</b>	<b>1.27</b>	<b>0.14</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

AAAQO: Annual: 24 ppb, 1-Hr: 159 ppb

## Total Oxides of Nitrogen (NOx) – Taber 2024 Summary and Frequency Distribution

Taber												NOx (ppb)					2024	
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range						
												0 - 25	25 - 50	50 - 110	110 - 210	>210		
January	705	9.3	22.8	Jan 08	2.8	Jan 28	59.7	Jan 08 12:00	0.6	Jan 06 04:00	100.0	95.60	3.97	0.43	0.00	0.00		
February	655	7.8	18.1	Feb 20	2.8	Feb 24	71.7	Feb 20 09:00	0.5	Feb 25 19:00	99.4	96.64	2.60	0.76	0.00	0.00		
March	703	5.9	11.5	Mar 22	2.4	Mar 09	49.7	Mar 22 07:00	0.5	Mar 11 01:00	100.0	98.44	1.56	0.00	0.00	0.00		
April	681	4.6	7.8	Apr 13	1.6	Apr 28	95.5	Apr 13 07:00	0.5	Apr 21 10:00	100.0	99.27	0.59	0.15	0.00	0.00		
May	703	4.5	8.3	May 13	2.2	May 07	32.9	May 09 07:00	0.8	May 25 15:00	99.5	99.57	0.43	0.00	0.00	0.00		
June	678	3.6	6.3	Jun 10	1.3	Jun 29	34.5	Jun 12 06:00	0.4	Jun 29 12:00	99.7	99.56	0.44	0.00	0.00	0.00		
July	703	3.0	5.2	Jul 30	1.3	Jul 28	37.7	Jul 23 07:00	0.0	Jul 21 13:00	100.0	99.72	0.28	0.00	0.00	0.00		
August	703	3.9	8.0	Aug 08	1.0	Aug 25	46.2	Aug 08 06:00	0.1	Aug 10 13:00	99.9	99.57	0.43	0.00	0.00	0.00		
September	683	4.4	9.8	Sep 16	1.4	Sep 14	45.5	Sep 10 08:00	0.0	Sep 08 15:00	99.6	98.83	1.17	0.00	0.00	0.00		
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Annual	6220	5.2	22.8	Jan 08	1.0	Aug 25	95.5	Apr 13 07:00	0.0	Jul 21 13:00	99.8	98.58	1.27	0.14	0.00	0.00		

No AAAQO

## Ozone (O<sub>3</sub>) – Taber 2024 Summary and Frequency Distribution

Taber												O <sub>3</sub> (ppb)							2024	
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO 1-Hr	Percentage of Readings in Concentration Range							
													0 - 2	2 - 10	10 - 20	20 - 40	40 - 76	>76		
January	705	25.4	35.9	Jan 26	11.3	Jan 02	40.6	Jan 27 06:00	1.3	Jan 04 08:00	100.0	0	0.43	8.65	16.03	73.90	0.99	0.00		
February	636	29.0	42.8	Feb 17	17.2	Feb 03	48.4	Feb 18 08:00	3.1	Feb 20 08:00	96.6	0	0.00	2.52	15.09	71.23	11.16	0.00		
March	703	29.9	38.4	Mar 09	19.9	Mar 16	51.1	Mar 31 18:00	2.4	Mar 17 06:00	100.0	0	0.00	2.42	7.40	84.78	5.41	0.00		
April	681	30.0	37.3	Apr 21	23.3	Apr 06	49.2	Apr 01 15:00	4.7	Apr 02 07:00	100.0	0	0.00	1.03	11.89	73.27	13.80	0.00		
May	703	26.9	36.9	May 12	14.9	May 01	49.8	May 14 17:00	2.5	May 23 06:00	99.2	0	0.00	3.84	22.62	63.02	10.53	0.00		
June	678	31.5	40.1	Jun 15	19.6	Jun 30	55.9	Jun 14 17:00	4.6	Jun 13 06:00	99.7	0	0.00	2.36	14.16	60.32	23.16	0.00		
July	703	32.9	45.5	Jul 25	21.7	Jul 03	61.9	Jul 21 15:00	5.7	Jul 09 06:00	100.0	0	0.00	2.42	13.37	52.49	31.72	0.00		
August	703	31.9	39.2	Aug 19	19.5	Aug 30	59.5	Aug 05 18:00	1.3	Aug 08 06:00	99.9	0	0.43	3.27	16.36	49.79	30.16	0.00		
September	683	26.2	39.7	Sep 26	13.4	Sep 12	50.7	Sep 02 16:00	2.1	Sep 16 07:00	99.7	0	0.00	6.59	22.25	59.88	11.27	0.00		
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Annual	6201	29.3	45.5	Jul 25	11.3	Jan 02	61.9	Jul 21 15:00	1.3	Aug 08 06:00	99.5	0	0.10	3.70	15.46	65.44	15.30	0.00		

AAAQO: 1-Hr: 76 ppb

## Particulate Matter (PM<sub>2.5</sub>) – Taber 2024 Summary and Frequency Distribution

Taber PM <sub>2.5</sub> (µg/m <sup>3</sup> ) 2024																			
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range					
												24-Hr	1-Hr	0 - 2	2 - 10	10 - 20	20 - 40	40 - 80	> 80
January	741	5.7	20.4	Jan 22	0.6	Jan 24	34.7	Jan 18 23:00	0.0	Jan 08 22:00	99.9	0	0	37.52	26.86	18.76	9.99	6.48	0.40
February	662	5.6	18.9	Feb 21	1.5	Feb 25	60.9	Feb 21 08:00	0.0	Feb 16 21:00	95.7	0	0	25.23	41.99	22.21	6.19	3.63	0.76
March	724	6.8	15.7	Mar 07	0.2	Mar 10	30.5	Mar 13 17:00	0.0	Mar 10 06:00	97.3	0	0	27.62	25.55	24.17	16.02	6.49	0.14
April	718	4.1	11.5	Apr 06	0.3	Apr 09	29.9	Apr 21 10:00	0.0	Apr 04 12:00	100.0	0	0	35.79	39.55	19.78	3.48	1.39	0.00
May	743	5.9	32.4	May 12	0.4	May 26	203.8	May 11 22:00	0.0	May 07 05:00	99.9	1	4	35.80	42.13	12.65	3.10	4.04	2.29
June	716	4.1	9.5	Jun 08	1.3	Jun 30	45.7	Jun 08 15:00	0.0	Jun 03 05:00	99.4	0	0	31.98	47.77	15.64	3.63	0.56	0.42
July	744	12.1	35.3	Jul 22	2.3	Jul 01	52.6	Jul 24 16:00	0.3	Jul 01 02:00	100.0	1	0	3.76	29.30	24.33	21.37	13.71	7.53
August	743	11.5	49.0	Aug 15	1.5	Aug 28	84.5	Aug 15 12:00	0.2	Aug 28 22:00	99.9	1	2	6.46	27.46	28.40	20.19	10.63	6.86
September	718	6.8	22.0	Sep 09	0.7	Sep 21	41.8	Sep 09 16:00	0.1	Sep 21 08:00	99.7	0	0	20.89	37.47	26.04	8.64	5.29	1.67
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Annual</b>	<b>6516</b>	<b>6.9</b>	<b>49.0</b>	<b>Aug 15</b>	<b>0.2</b>	<b>Mar 10</b>	<b>203.8</b>	<b>May 11 22:00</b>	<b>0.0</b>	<b>Jan 08 22:00</b>	<b>99.1</b>	<b>3</b>	<b>6</b>	<b>24.98</b>	<b>35.27</b>	<b>21.32</b>	<b>10.32</b>	<b>5.84</b>	<b>2.27</b>

AAAQO: 24-Hr: 29 µg/m<sup>3</sup>, 1-Hr: 80 µg/m<sup>3</sup>

## Ambient Temperature – Taber 2024 Summary

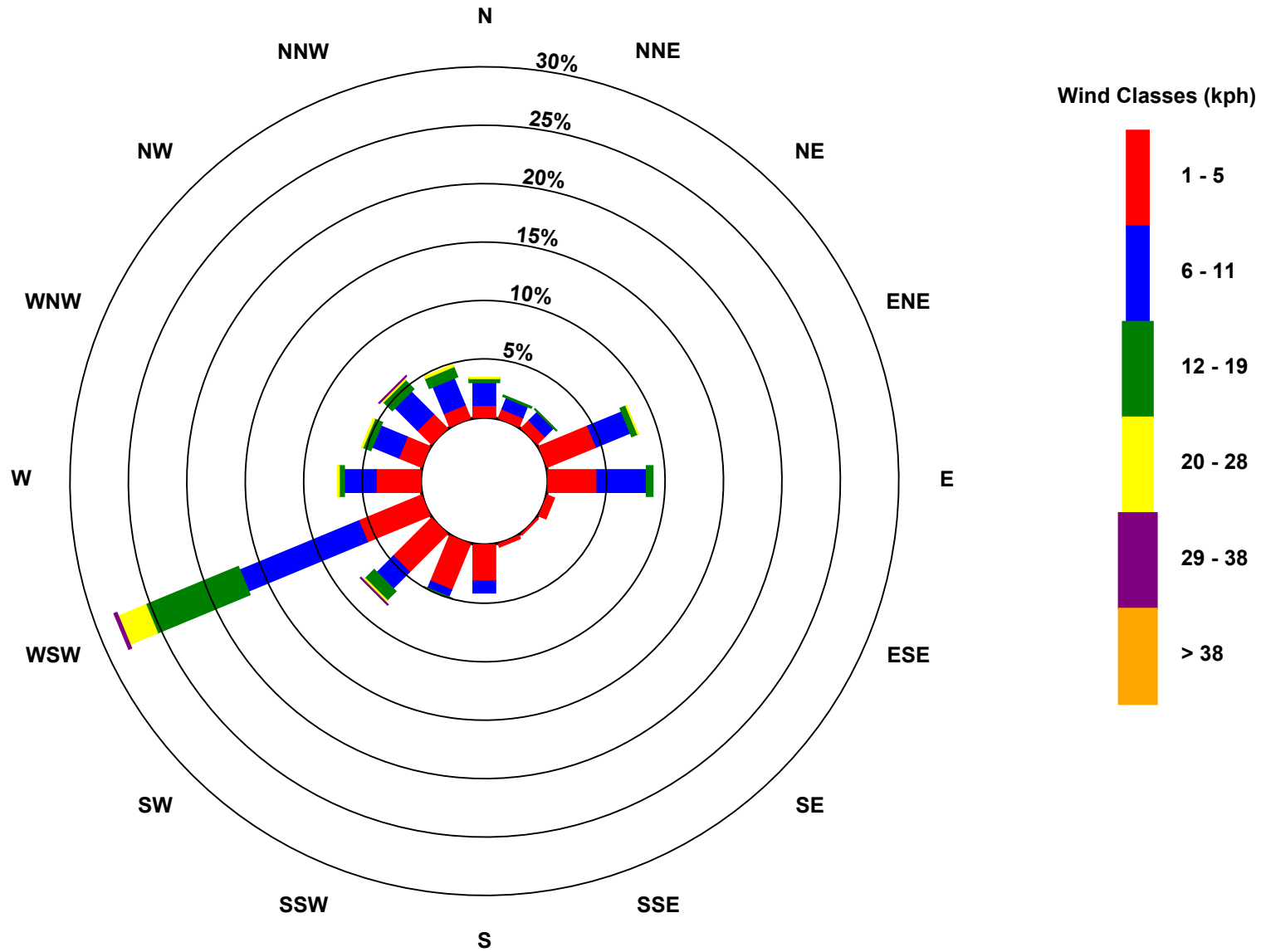
Taber Ambient Temperature (°C) 2024											
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	744	-8.8	10.1	Jan 30	-35.9	Jan 14	14.2	Jan 31 15:00	-39.4	Jan 14 09:00	100.0
February	695	-4.0	5.9	Feb 01	-19.3	Feb 27	15.8	Feb 01 15:00	-21.4	Feb 27 08:00	99.9
March	744	-2.9	10.7	Mar 18	-17.8	Mar 04	18.2	Mar 18 15:00	-20.9	Mar 07 05:00	100.0
April	720	7.2	13.1	Apr 24	-1.0	Apr 19	19.6	Apr 23 17:00	-7.0	Apr 20 06:00	100.0
May	744	11.3	19.2	May 28	2.5	May 02	28.6	May 28 17:00	0.0	May 02 04:00	100.0
June	718	15.6	22.4	Jun 23	8.5	Jun 16	29.7	Jun 23 16:00	4.9	Jun 01 05:00	99.7
July	744	22.1	27.0	Jul 11	14.6	Jul 03	36.3	Jul 24 17:00	10.2	Jul 27 05:00	100.0
August	743	19.4	25.2	Aug 02	10.2	Aug 28	32.9	Aug 19 16:00	7.3	Aug 28 12:00	99.9
September	712	16.3	22.8	Sep 02	8.9	Sep 20	33.5	Sep 06 16:00	2.4	Sep 21 06:00	98.9
October	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-
<b>Annual</b>	<b>6571</b>	<b>8.5</b>	<b>27.0</b>	<b>Jul 11</b>	<b>-35.9</b>	<b>Jan 14</b>	<b>36.3</b>	<b>Jul 24 17:00</b>	<b>-39.4</b>	<b>Jan 14 09:00</b>	<b>99.8</b>

## Relative Humidity – Taber 2024 Summary

Relative Humidity (%)											2024
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	744	76.4	89.8	Jan 02	61.0	Jan 30	100.0	Jan 02 08:00	38.8	Jan 05 16:00	100.0
February	695	78.0	98.2	Feb 07	57.6	Feb 23	100.0	Feb 07 00:00	39.8	Feb 01 15:00	99.9
March	744	75.2	98.5	Mar 21	46.8	Mar 18	100.0	Mar 14 04:00	23.2	Mar 18 15:00	100.0
April	720	54.8	97.6	Apr 04	29.1	Apr 24	100.0	Apr 04 08:00	12.9	Apr 24 15:00	100.0
May	744	63.8	90.7	May 07	38.4	May 11	100.0	May 02 03:00	17.8	May 11 16:00	100.0
June	718	55.7	82.2	Jun 16	36.8	Jun 14	96.8	Jun 28 04:00	16.2	Jun 23 17:00	99.7
July	744	55.1	76.8	Jul 03	32.6	Jul 24	93.1	Jul 15 05:00	13.3	Jul 23 16:00	100.0
August	743	57.5	83.8	Aug 28	37.1	Aug 20	99.8	Aug 28 23:00	18.3	Aug 20 15:00	99.9
September	712	57.9	95.5	Sep 12	35.3	Sep 27	99.2	Sep 12 13:00	14.9	Sep 07 16:00	98.9
October	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-
<b>Annual</b>	<b>6571</b>	<b>63.8</b>	<b>98.5</b>	<b>Mar 21</b>	<b>29.1</b>	<b>Apr 24</b>	<b>100.0</b>	<b>Jan 02 08:00</b>	<b>12.9</b>	<b>Apr 24 15:00</b>	<b>99.8</b>

## Wind Speed and Wind Direction Frequency Distribution – Taber 2024 Summary

Taber								2024
Direction	# of Readings	% of wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
<b>N</b>	222	1.12	2.09	0.39	0.02	0.00	0.00	3.62
<b>NNE</b>	129	0.90	1.09	0.11	0.00	0.00	0.00	2.10
<b>NE</b>	130	1.01	1.08	0.03	0.00	0.00	0.00	2.12
<b>ENE</b>	541	4.86	3.36	0.59	0.02	0.00	0.00	8.82
<b>E</b>	588	4.50	4.53	0.55	0.00	0.00	0.00	9.59
<b>ESE</b>	41	0.67	0.00	0.00	0.00	0.00	0.00	0.67
<b>SE</b>	5	0.08	0.00	0.00	0.00	0.00	0.00	0.08
<b>SSE</b>	16	0.26	0.00	0.00	0.00	0.00	0.00	0.26
<b>S</b>	269	3.33	1.06	0.00	0.00	0.00	0.00	4.39
<b>SSW</b>	322	4.53	0.70	0.02	0.00	0.00	0.00	5.25
<b>SW</b>	518	4.92	2.12	1.16	0.21	0.03	0.00	8.44
<b>WSW</b>	1849	6.21	11.79	9.18	2.72	0.24	0.00	30.14
<b>WSW</b>	466	4.09	2.92	0.47	0.11	0.00	0.00	7.60
<b>WNW</b>	353	2.25	2.61	0.78	0.11	0.00	0.00	5.75
<b>NW</b>	371	1.79	2.92	1.12	0.18	0.03	0.00	6.05
<b>NNW</b>	314	1.32	2.62	0.99	0.18	0.00	0.00	5.12
<b>Totals</b>	<b>6134</b>	<b>41.85</b>	<b>38.88</b>	<b>15.41</b>	<b>3.55</b>	<b>0.31</b>	<b>0.00</b>	<b>100</b>



**PAS**  
**HANNA**  
**CONTINUOUS AMBIENT AIR MONITORING STATION**  
**2024**  
**SUMMARY TABLES**

## Nitric Oxide (NO) – Hanna 2024 Summary and Frequency Distribution

Hanna-Airpointer NO (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	603	1.1	2.5	Sep 24	0.3	Sep 08	13.3	Sep 24 06:00	0.0	Sep 07 20:00	99.8	100.00	0.00	0.00	0.00	0.00
October	607	2.9	10.3	Oct 16	0.9	Oct 27	51.7	Oct 16 09:00	0.0	Oct 19 20:00	86.6	98.35	1.48	0.16	0.00	0.00
November	681	3.6	8.9	Nov 22	1.0	Nov 16	18.8	Nov 26 15:00	0.0	Nov 01 05:00	100.0	100.00	0.00	0.00	0.00	0.00
December	702	4.0	12.0	Dec 06	0.8	Dec 08	50.6	Dec 06 09:00	0.0	Dec 05 06:00	99.6	99.57	0.28	0.14	0.00	0.00
Annual	2593	2.9	12.0	Dec 06	0.3	Sep 08	51.7	Oct 16 09:00	0.0	Sep 07 20:00	96.5	99.48	0.44	0.08	0.00	0.00

No AAAQO

## Nitrogen Dioxide (NO<sub>2</sub>) – Hanna 2024 Summary and Frequency Distribution

Hanna-Airpointer NO <sub>2</sub> (ppb)												2024							
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range					
												Annual	1-Hr	0 - 25	25 - 50	50 - 110	110 - 159	>159	
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
September	603	2.7	4.6	Sep 17	0.9	Sep 26	17.1	Sep 24 06:00	0.0	Sep 26 01:00	99.8	-	-	0	100.00	0.00	0.00	0.00	0.00
October	607	4.1	7.6	Oct 23	1.2	Oct 19	24.0	Oct 08 07:00	0.0	Oct 17 01:00	86.6	-	-	0	100.00	0.00	0.00	0.00	0.00
November	681	5.2	11.7	Nov 28	1.4	Nov 11	24.9	Nov 28 01:00	0.0	Nov 28 14:00	100.0	-	-	0	100.00	0.00	0.00	0.00	0.00
December	702	8.9	24.6	Dec 06	3.4	Dec 08	37.7	Dec 06 05:00	1.6	Dec 04 14:00	99.6	-	-	0	96.15	3.85	0.00	0.00	0.00
Annual	2593	5.3	24.6	Dec 06	0.9	Sep 26	37.7	Dec 06 05:00	0.0	Oct 17 01:00	96.5	0	0	99.04	0.96	0.00	0.00	0.00	0.00

AAAQO: Annual: 24 ppb, 1-Hr: 159 ppb



## Total Oxides of Nitrogen (NOx) – Hanna 2024 Summary and Frequency Distribution

Hanna-Airpointer NOx (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	603	3.7	6.1	Sep 16	1.6	Sep 26	30.5	Sep 24 06:00	0.3	Sep 29 22:00	99.8	99.83	0.17	0.00	0.00	0.00
October	607	7.0	14.1	Oct 16	2.2	Oct 19	62.3	Oct 25 08:00	0.0	Oct 17 01:00	86.6	95.88	3.29	0.82	0.00	0.00
November	681	8.8	20.4	Nov 22	2.7	Nov 11	35.1	Nov 27 10:00	0.0	Nov 28 14:00	100.0	96.92	3.08	0.00	0.00	0.00
December	702	13.0	36.6	Dec 06	4.2	Dec 08	86.8	Dec 06 09:00	1.7	Dec 08 08:00	99.6	90.46	8.83	0.71	0.00	0.00
Annual	2593	8.1	36.6	Dec 06	1.6	Sep 26	86.8	Dec 06 09:00	0.0	Oct 17 01:00	96.5	95.77	3.84	0.38	0.00	0.00

No AAAQO

## Ozone (O<sub>3</sub>) – Hanna 2024 Summary and Frequency Distribution

Hanna-Airpointer O <sub>3</sub> (ppb)												2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO 1-Hr	Percentage of Readings in Concentration Range					
													0 - 2	2 - 10	10 - 20	20 - 40	40 - 76	>76
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	603	28.7	42.5	Sep 08	15.9	Sep 12	55.1	Sep 08 13:00	5.0	Sep 24 06:00	99.8	0	0.00	1.16	25.21	56.38	17.25	0.00
October	632	22.1	29.0	Oct 19	12.8	Oct 31	43.5	Oct 07 15:00	1.1	Oct 25 08:00	90.1	0	0.32	9.65	33.86	54.59	1.58	0.00
November	661	19.9	28.5	Nov 17	10.4	Nov 22	38.0	Nov 17 16:00	0.5	Nov 22 08:00	100.0	0	0.45	4.54	45.54	49.47	0.00	0.00
December	683	24.0	32.4	Dec 11	11.1	Dec 06	37.3	Dec 03 14:00	0.2	Dec 06 07:00	99.7	0	0.59	5.86	19.47	74.08	0.00	0.00
Annual	2579	23.7	42.5	Sep 08	10.4	Nov 22	55.1	Sep 08 13:00	0.2	Dec 06 07:00	97.4	0	0.34	5.30	31.02	58.63	4.71	0.00

AAAQO: 1-Hr: 76 ppb

## Particulate Matter (PM<sub>2.5</sub>) – Hanna 2024 Summary and Frequency Distribution

Hanna-Airpointer PM <sub>2.5</sub> (µg/m <sup>3</sup> )														2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range						
												24-Hr	1-Hr	0 - 2	2 - 10	10 - 20	20 - 40	40 - 80	> 80	
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	487	4.0	14.3	Sep 13	1.4	Sep 26	21.5	Sep 13 12:00	0.5	Sep 30 07:00	73.1	0	0	32.03	58.93	7.80	1.23	0.00	0.00	0.00
October	742	4.0	7.9	Oct 16	1.0	Oct 20	73.6	Oct 31 18:00	0.3	Oct 25 03:00	100.0	0	0	29.38	66.31	3.77	0.40	0.13	0.00	0.00
November	718	5.0	16.2	Nov 22	0.6	Nov 18	37.6	Nov 04 05:00	0.0	Nov 18 04:00	99.7	0	0	26.74	61.00	10.86	1.39	0.00	0.00	0.00
December	743	6.2	14.9	Dec 15	2.3	Dec 18	35.3	Dec 15 10:00	0.7	Dec 08 10:00	100.0	0	0	13.59	67.16	17.50	1.75	0.00	0.00	0.00
Annual	2690	4.8	16.2	Nov 22	0.6	Nov 18	73.6	Oct 31 18:00	0.0	Nov 18 04:00	93.2	0	0	25.44	63.35	9.98	1.19	0.03	0.00	0.00

AAAQO: 24-Hr: 29 µg/m<sup>3</sup>, 1-Hr: 80 µg/m<sup>3</sup>

## Ambient Temperature – Hanna 2024 Summary

Hanna-Airpointer Ambient Temperature (°C)											2024
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-
September	190	19.4	23.9	Sep 08	15.5	Sep 04	37.4	Sep 08 16:00	4.3	Sep 30 21:00	28.3
October	744	6.3	15.1	Oct 08	-1.9	Oct 22	23.9	Oct 08 15:00	-5.9	Oct 30 07:00	100.0
November	720	-4.9	7.8	Nov 07	-19.2	Nov 28	17.6	Nov 08 15:00	-22.2	Nov 28 04:00	100.0
December	742	-8.4	0.0	Dec 08	-18.3	Dec 18	4.3	Dec 03 14:00	-21.3	Dec 19 02:00	99.7
Annual	2396	3.1	23.9	Sep 08	-19.2	Nov 28	37.4	Sep 08 16:00	-22.2	Nov 28 04:00	82.0

### Relative Humidity – Hanna 2024 Summary

Hanna-Airpointer											2024
Relative Humidity (%)											
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-
September	190	41.7	54.4	Sep 04	31.6	Sep 08	87.8	Sep 10 11:00	9.7	Sep 08 15:00	28.3
October	744	64.8	91.0	Oct 29	43.8	Oct 19	97.1	Oct 22 23:00	19.0	Oct 08 15:00	100.0
November	720	79.4	93.5	Nov 15	54.0	Nov 12	97.3	Nov 15 03:00	25.3	Nov 12 15:00	100.0
December	742	82.2	92.9	Dec 22	66.2	Dec 25	96.6	Dec 08 10:00	45.3	Dec 25 13:00	99.7
<b>Annual</b>	<b>2396</b>	<b>67.1</b>	<b>93.5</b>	<b>Nov 15</b>	<b>31.6</b>	<b>Sep 08</b>	<b>97.3</b>	<b>Nov 15 03:00</b>	<b>9.7</b>	<b>Sep 08 15:00</b>	<b>82.0</b>

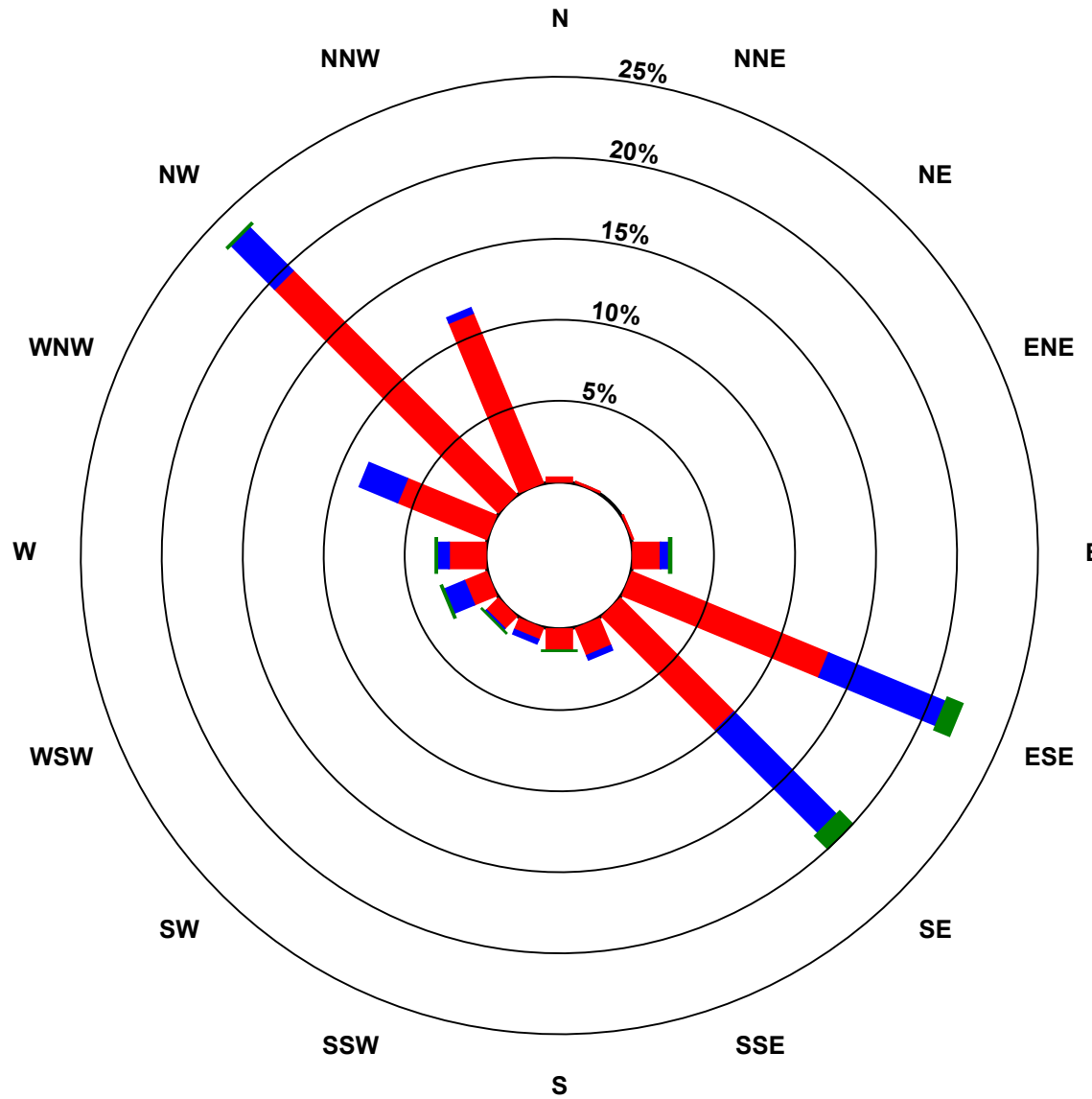
## Wind Speed and Wind Direction Frequency Distribution – Hanna 2024 Summary

Hanna								2024
Direction	# of Readings	Wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
<b>N</b>	5	0.28	0.00	0.00	0.00	0.00	0.00	0.28
<b>NNE</b>	1	0.06	0.00	0.00	0.00	0.00	0.00	0.06
<b>NE</b>	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>ENE</b>	1	0.06	0.00	0.00	0.00	0.00	0.00	0.06
<b>E</b>	42	1.70	0.51	0.17	0.00	0.00	0.00	2.38
<b>ESE</b>	388	13.13	7.81	1.02	0.00	0.00	0.00	21.96
<b>SE</b>	353	9.90	8.94	1.13	0.00	0.00	0.00	19.98
<b>SSE</b>	37	1.81	0.28	0.00	0.00	0.00	0.00	2.09
<b>S</b>	24	1.30	0.00	0.06	0.00	0.00	0.00	1.36
<b>SSW</b>	18	0.74	0.28	0.00	0.00	0.00	0.00	1.02
<b>SW</b>	21	1.02	0.11	0.06	0.00	0.00	0.00	1.19
<b>WSW</b>	52	1.47	1.36	0.11	0.00	0.00	0.00	2.94
<b>WSW</b>	55	2.26	0.74	0.11	0.00	0.00	0.00	3.11
<b>WNW</b>	150	5.94	2.55	0.00	0.00	0.00	0.00	8.49
<b>NW</b>	414	19.52	3.79	0.11	0.00	0.00	0.00	23.43
<b>NNW</b>	206	11.32	0.34	0.00	0.00	0.00	0.00	11.66
<b>Totals</b>	<b>1767</b>	<b>70.51</b>	<b>26.71</b>	<b>2.77</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100</b>

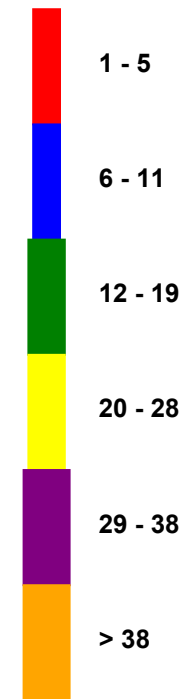
# Wind Rose

Wind Speed (WS) (km/h)

Hanna AP - 2024



## Wind Speed Classes (km/h)



**PAS**  
**RAYMOND**  
**CONTINUOUS AMBIENT AIR MONITORING STATION**  
  
**2024**  
**SUMMARY TABLES**

## Nitric Oxide (NO) – Raymond 2024 Summary and Frequency Distribution

Raymond-Airpointer NO (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	640	0.2	1.2	Oct 22	0.0	Oct 13	15.4	Oct 22 09:00	0.0	Oct 03 16:00	94.8	100.00	0.00	0.00	0.00	0.00
November	681	0.4	2.1	Nov 28	0.0	Nov 11	13.5	Nov 28 10:00	0.0	Nov 01 04:00	100.0	100.00	0.00	0.00	0.00	0.00
December	704	0.3	1.8	Dec 19	0.0	Dec 25	11.5	Dec 12 10:00	0.0	Dec 01 08:00	100.0	100.00	0.00	0.00	0.00	0.00
Annual	2025	0.3	2.1	Nov 28	0.0	Nov 11	15.4	Oct 22 09:00	0.0	Oct 03 16:00	98.3	100.00	0.00	0.00	0.00	0.00

No AAAQO

## Nitrogen Dioxide (NO<sub>2</sub>) – Raymond 2024 Summary and Frequency Distribution

Raymond-Airpointer NO <sub>2</sub> (ppb)												2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range				
												Annual	1-Hr	0 - 25	25 - 50	50 - 110	110 - 159	>159
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
October	640	1.1	3.3	Oct 11	0.4	Oct 19	7.7	Oct 11 07:00	0.1	Oct 19 13:00	94.8	-	-	-	-	-	-	
November	681	2.7	6.6	Nov 25	0.6	Nov 02	16.6	Nov 27 20:00	0.2	Nov 02 15:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
December	704	2.2	4.9	Dec 19	0.5	Dec 25	10.3	Dec 02 06:00	0.3	Dec 07 02:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
Annual	2025	2.0	6.6	Nov 25	0.4	Oct 19	16.6	Nov 27 20:00	0.1	Oct 19 13:00	98.3	0	0	100.00	0.00	0.00	0.00	

AAAQO: Annual: 24 ppb, 1-Hr: 159 ppb

## Total Oxides of Nitrogen (NOx) – Raymond 2024 Summary and Frequency Distribution

Raymond-Airpointer NOx (ppb)												2024				
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	Percentage of Readings in Concentration Range				
												0 - 25	25 - 50	50 - 110	110 - 210	>210
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	640	1.3	3.9	Oct 11	0.5	Oct 27	21.9	Oct 22 09:00	0.2	Oct 19 13:00	94.8	100.00	0.00	0.00	0.00	0.00
November	681	3.1	8.3	Nov 26	0.7	Nov 02	26.7	Nov 28 10:00	0.3	Nov 02 15:00	100.0	99.85	0.15	0.00	0.00	0.00
December	704	2.6	6.7	Dec 19	0.5	Dec 25	16.3	Dec 12 10:00	0.3	Dec 07 00:00	100.0	100.00	0.00	0.00	0.00	0.00
Annual	2025	2.3	8.3	Nov 26	0.5	Oct 27	26.7	Nov 28 10:00	0.2	Oct 19 13:00	98.3	99.95	0.05	0.00	0.00	0.00

No AAAQO

## Ozone (O<sub>3</sub>) – Raymond 2024 Summary and Frequency Distribution

Raymond-Airpointer O <sub>3</sub> (ppb)												2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO 1-Hr	Percentage of Readings in Concentration Range					
													0 - 2	2 - 10	10 - 20	20 - 40	40 - 76	>76
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	640	31.8	40.9	Oct 07	14.6	Oct 21	53.7	Oct 07 12:00	6.7	Nov 01 00:00	94.8	0	0.00	0.94	9.22	75.47	14.38	0.00
November	680	25.3	36.8	Nov 17	14.9	Nov 21	44.3	Nov 02 14:00	3.7	Nov 03 08:00	100.0	0	0.00	4.41	24.71	69.12	1.76	0.00
December	704	28.1	36.9	Dec 03	14.3	Dec 11	44.0	Dec 03 06:00	1.1	Dec 12 08:00	100.0	0	0.28	1.85	17.90	75.85	4.12	0.00
Annual	2024	28.4	40.9	Oct 07	14.3	Dec 11	53.7	Oct 07 12:00	1.1	Dec 12 08:00	98.3	0	0.09	2.40	17.28	73.48	6.75	0.00

AAAQO: 1-Hr: 76 ppb



## Particulate Matter (PM<sub>2.5</sub>) – Raymond 2024 Summary and Frequency Distribution

Raymond-Airpointer PM <sub>2.5</sub> (µg/m <sup>3</sup> )														2024						
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	AAAQO		Percentage of Readings in Concentration Range						
												24-Hr	1-Hr	0 - 2	2 - 10	10 - 20	20 - 40	40 - 80	> 80	
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	680	6.7	17.7	Oct 03	2.5	Oct 05	226.9	Oct 03 18:00	0.1	Oct 18 04:00	94.9	0	3	19.56	63.68	12.50	2.79	1.03	0.44	
November	719	6.3	17.3	Nov 30	1.2	Nov 18	47.0	Nov 27 22:00	0.0	Nov 18 05:00	99.9	0	0	23.50	54.66	19.19	2.23	0.42	0.00	
December	674	6.6	25.3	Dec 31	1.3	Dec 13	48.1	Dec 31 09:00	0.0	Dec 10 00:00	90.9	0	0	23.00	54.60	17.95	4.30	0.15	0.00	
Annual	2073	6.6	25.3	Dec 31	1.2	Nov 18	226.9	Oct 03 18:00	0.0	Dec 10 00:00	95.2	0	3	22.02	57.65	16.55	3.11	0.53	0.15	

AAAQO: 24-Hr: 29 µg/m<sup>3</sup>, 1-Hr: 80 µg/m<sup>3</sup>

## Ambient Temperature – Raymond 2024 Summary

Raymond-Airpointer Ambient Temperature (°C)											2024
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-
October	682	8.8	16.7	Oct 14	1.0	Oct 29	25.5	Oct 14 15:00	-4.9	Oct 30 07:00	94.9
November	720	-2.3	11.9	Nov 08	-16.4	Nov 29	18.5	Nov 08 13:00	-21.8	Nov 24 22:00	100.0
December	744	-1.2	7.0	Dec 07	-16.0	Dec 01	12.6	Dec 24 15:00	-21.4	Dec 01 08:00	100.0
Annual	2146	1.7	16.7	Oct 14	-16.4	Nov 29	25.5	Oct 14 15:00	-21.8	Nov 24 22:00	98.3

## Relative Humidity – Raymond 2024 Summary

Raymond-Airpointer											2024
Relative Humidity (%)											
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-
October	682	52.4	82.6	Oct 21	35.7	Oct 14	100.0	Oct 29 05:00	14.9	Oct 08 14:00	94.9
November	720	74.4	95.0	Nov 20	44.9	Nov 08	100.0	Nov 05 06:00	28.2	Nov 08 14:00	100.0
December	744	71.0	99.5	Dec 16	47.1	Dec 25	100.0	Dec 04 10:00	29.3	Dec 25 14:00	100.0
<b>Annual</b>	<b>2146</b>	<b>65.9</b>	<b>99.5</b>	<b>Dec 16</b>	<b>35.7</b>	<b>Oct 14</b>	<b>100.0</b>	<b>Oct 29 05:00</b>	<b>14.9</b>	<b>Oct 08 14:00</b>	<b>98.3</b>

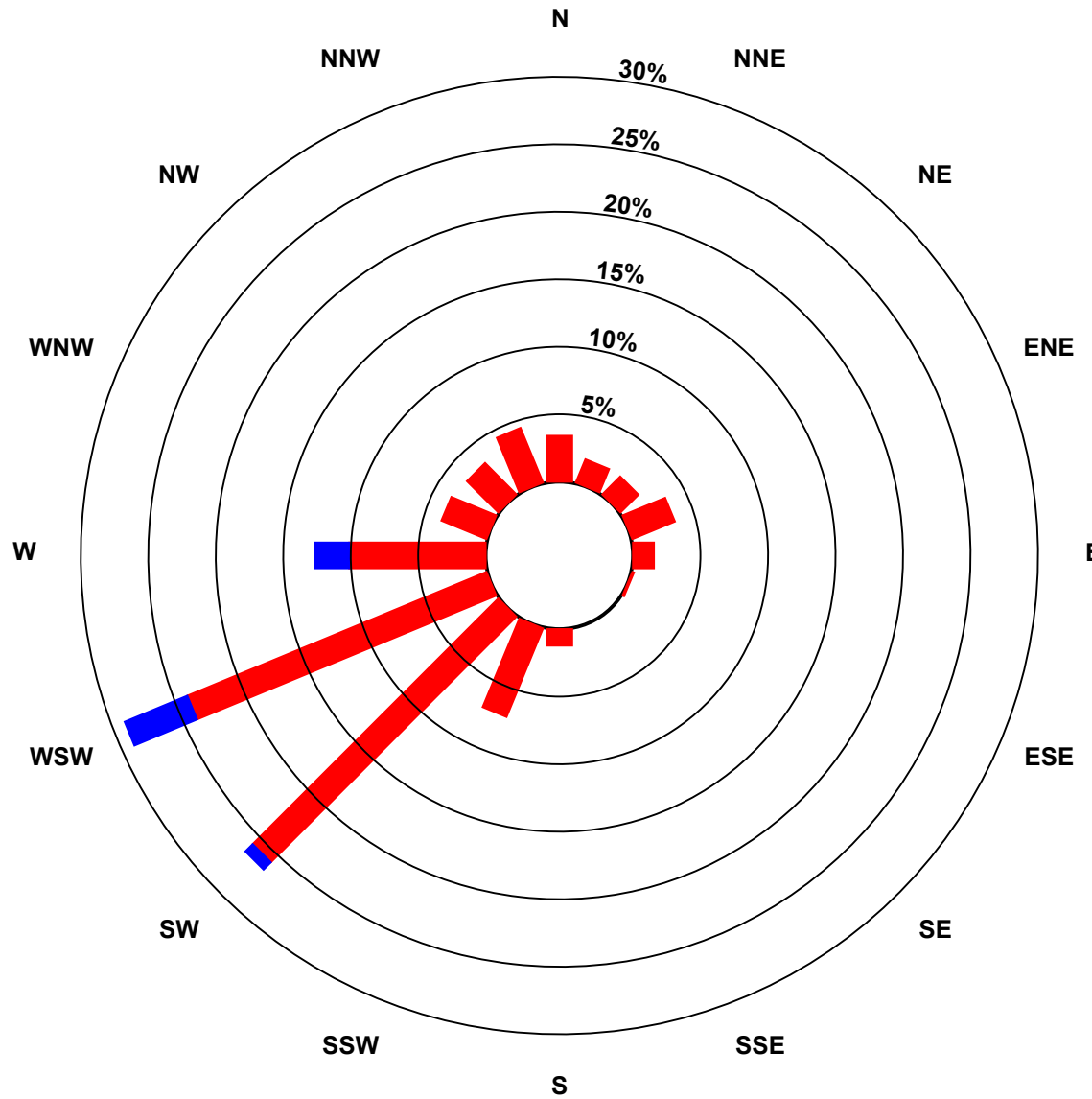
## Wind Speed and Wind Direction Frequency Distribution – Raymond 2024 Summary

Raymond								2024
Direction	# of Readings	% of wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
<b>N</b>	53	3.42	0.00	0.00	0.00	0.00	0.00	3.42
<b>NNE</b>	29	1.87	0.00	0.00	0.00	0.00	0.00	1.87
<b>NE</b>	29	1.87	0.00	0.00	0.00	0.00	0.00	1.87
<b>ENE</b>	53	3.42	0.00	0.00	0.00	0.00	0.00	3.42
<b>E</b>	24	1.55	0.00	0.00	0.00	0.00	0.00	1.55
<b>ESE</b>	2	0.13	0.00	0.00	0.00	0.00	0.00	0.13
<b>SE</b>	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>SSE</b>	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>S</b>	19	1.23	0.00	0.00	0.00	0.00	0.00	1.23
<b>SSW</b>	110	7.09	0.00	0.00	0.00	0.00	0.00	7.09
<b>SW</b>	411	25.73	0.77	0.00	0.00	0.00	0.00	26.50
<b>WSW</b>	450	23.98	5.03	0.00	0.00	0.00	0.00	29.01
<b>WSW</b>	196	10.12	2.51	0.00	0.00	0.00	0.00	12.64
<b>WNW</b>	56	3.61	0.00	0.00	0.00	0.00	0.00	3.61
<b>NW</b>	51	3.29	0.00	0.00	0.00	0.00	0.00	3.29
<b>NNW</b>	68	4.38	0.00	0.00	0.00	0.00	0.00	4.38
<b>Totals</b>	<b>1551</b>	<b>91.68</b>	<b>8.32</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100</b>

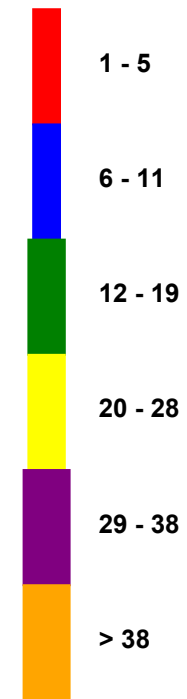
# Wind Rose

Wind Speed (WS) (km/h)

Raymond AP - 2024



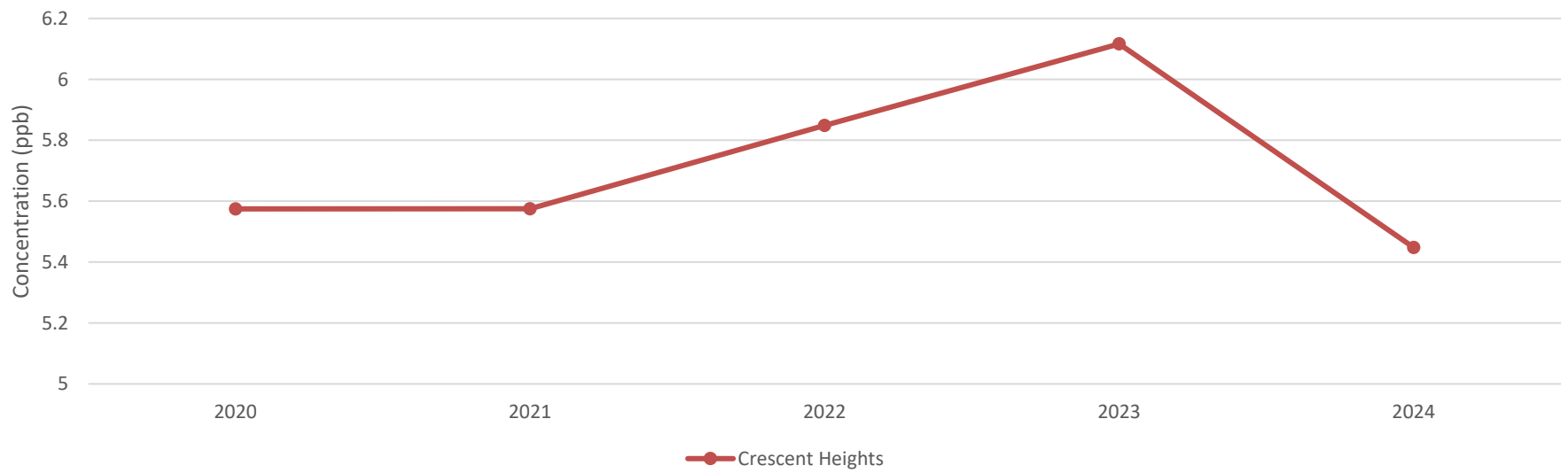
Wind Speed Classes (km/h)



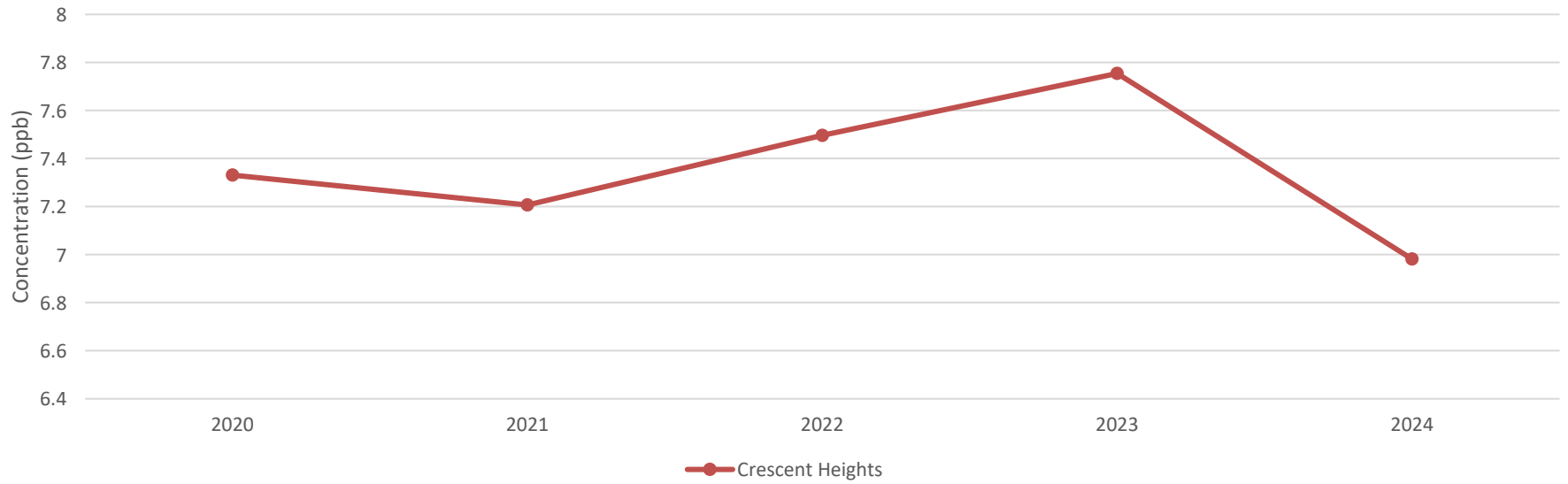
### 5-Year Annual Average NO



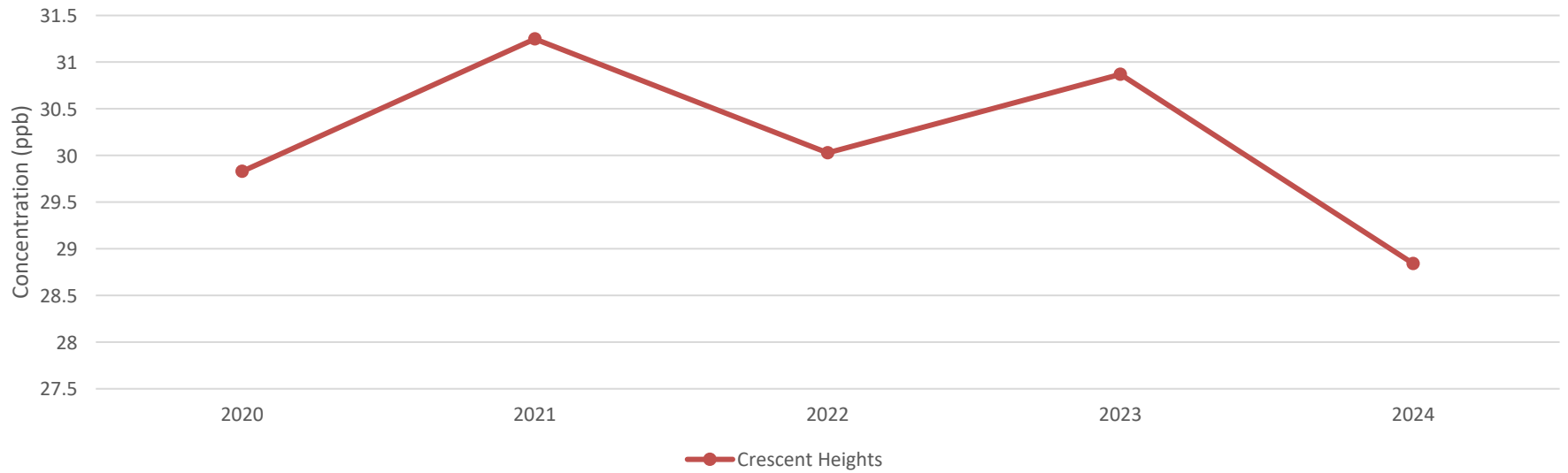
### 5-Year Annual Average NO<sub>2</sub>



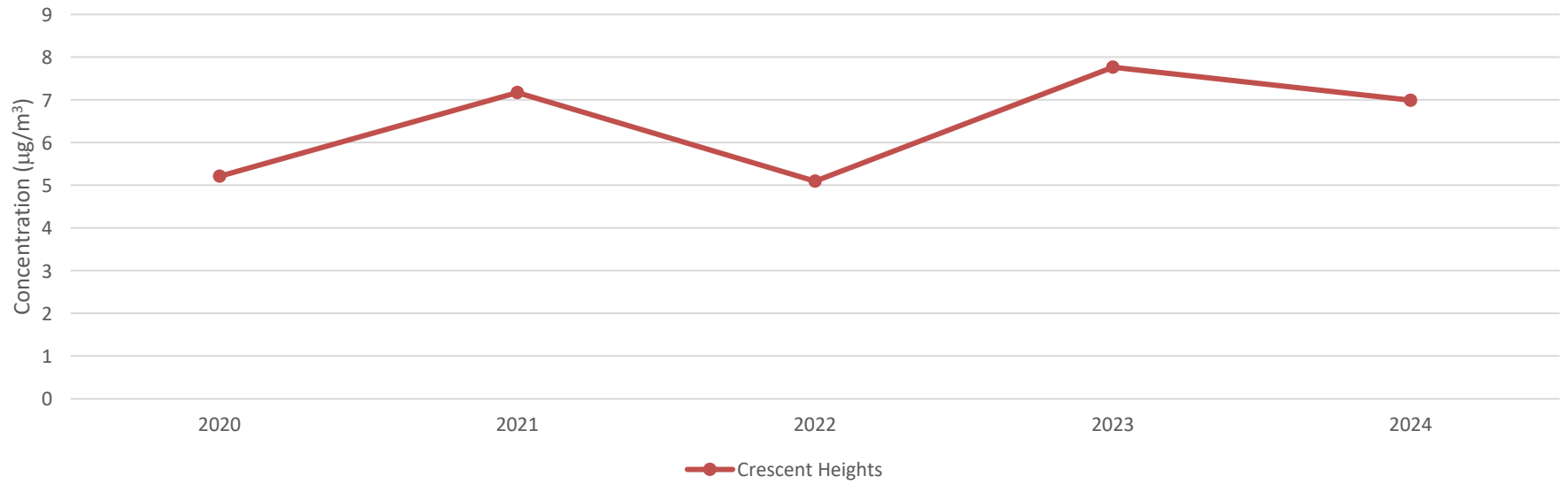
### 5-Year Annual Average NOx



### 5-Year Annual Average O<sub>3</sub>

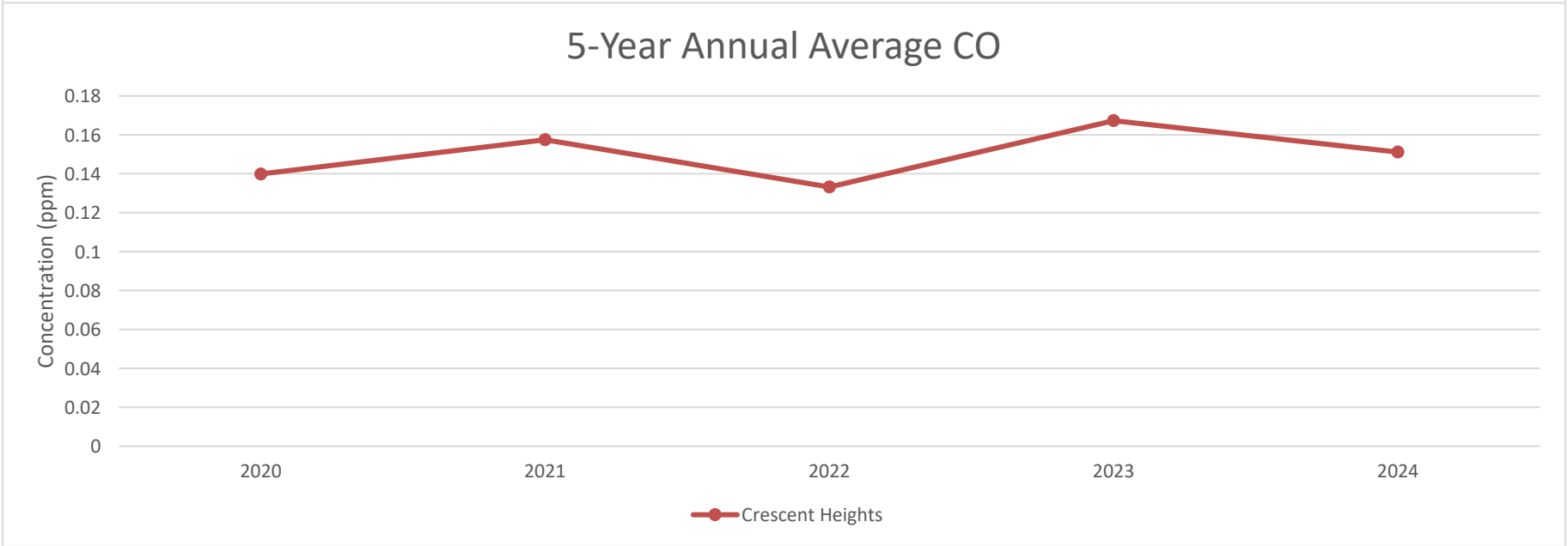
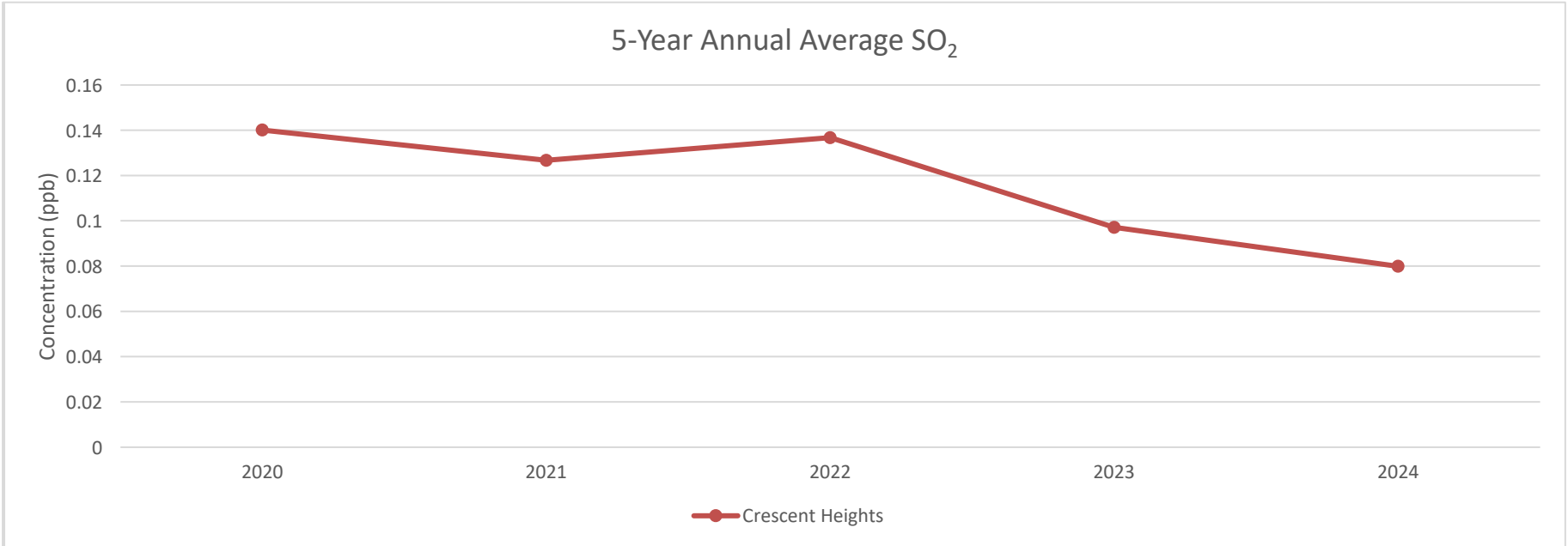


### 5-Year Annual Average PM<sub>2.5</sub>

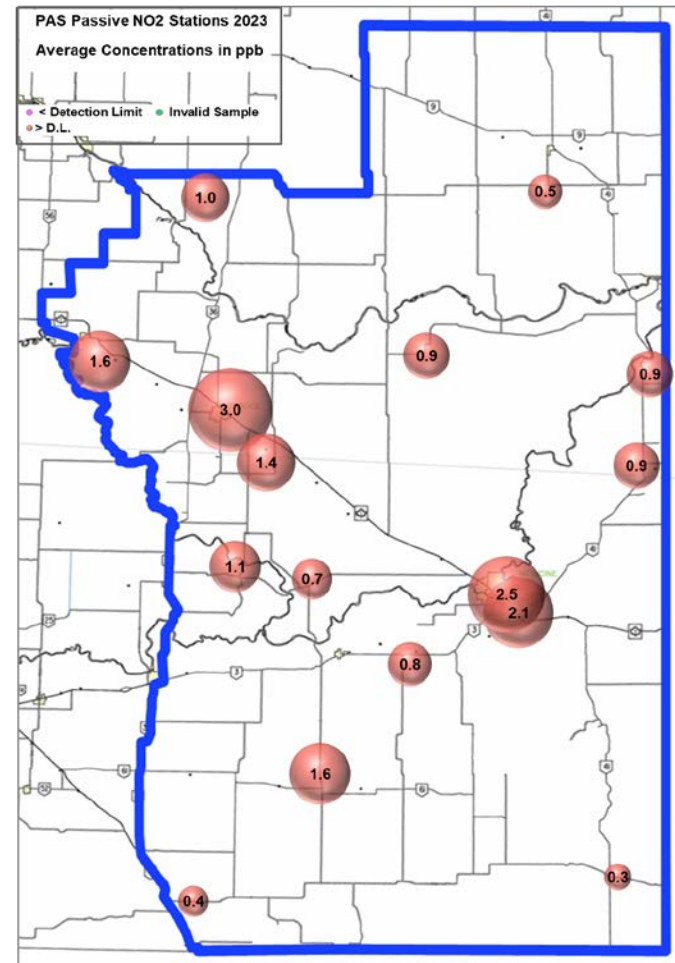
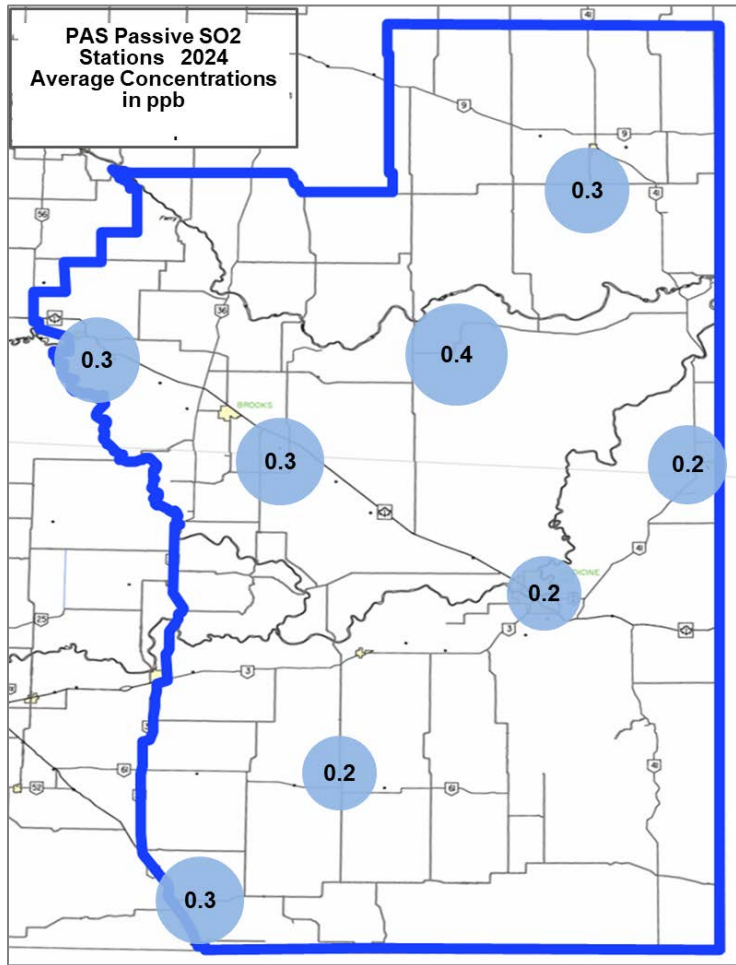


### 5-Year Annual Average THC









## Palliser Airshed Society - Palliser Passive Stations for 2024

Station Number	Station Name	SO2 ppb	NO2 ppb
1	Site 1	0.2	0.9
2	Site 2	N/A	0.9
3	Site 3	0.3	0.7
6	Site 6	N/A	1.1
7	Site 7	0.3	1.6
8	Site 8	0.4	1.0
11	Site 11 - Brooks	N/A	2.7
12	Site 12	0.3	1.6
13	Site 13	N/A	0.9
14	Site 14	N/A	0.8
15	Site 15	0.2	1.3
17	Site 17	N/A	N/A
18	Site 18 - Christian School Park	N/A	N/A
19	Site 19 - Monitoring Station	0.2	2.8
21	Site 21	0.3	1.3
23	Site 23	N/A	N/A

BDL = Below Detection Limit

Stats:

	SO2	NO2
<b>Mean</b>	0.3	1.4
<b>Standard Deviation</b>	0.1	0.7
<b>Minimum</b>	0.2	0.7
<b>Minimum Site</b>	19 - Monitoring Sta	Site 3
<b>Maximum</b>	0.4	2.8
<b>Maximum Site</b>	Site 8	Site 19 - Monitoring Station

**PAS**

**2024 Annual Report  
End of Report**