



PALLISER AIRSHED SOCIETY

2025 AMBIENT AIR QUALITY MONITORING NETWORK ANNUAL REPORT

REVISED MAY 5, 2026

WSP CANADA INC.
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List of Acronyms

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



May 5, 2026

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

**RE: 2025 Annual Ambient Air Quality Monitoring Report
Palliser Airshed Society**

Enclosed is the 2025 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 2025.

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

Lorna Morishita

Executive Director of Palliser
Airshed Society PO Box 23121
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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.

Company Name/Industrial Operation Name	EPEA Approval Number
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 Bantry North Sour Gas Plant	155504-02-00
Canadian Natural Resources Ltd. – CNRL Countess Sour Gas Plant	1829-03-00
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 Steveville 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
Signalta Resources Ltd.	147134-02-00 and 148996-02-00
Torxen Energy Ltd. – Alderson West Sour Gas Plant	1476-02-00

AAAQO Exceedances Report:

There were 109 1-hour and 36 24-hour exceedances of the AAAQO for PM_{2.5} (80 and 29 µg/m³ respectively) recorded in 2025. These PM_{2.5} exceedances were attributed to forest fire activity and winter inversions.

Exceedance Table 1: 2025 1-hour PM_{2.5} Exceedance Summary For PAS Network

Station Name	Date	Start Time	End Time	Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
		(MST)	(MST)	(µg/m³)			
Hanna (Airpointer)	19-Jan-25	04:00	05:00	147	WNW	0.2	437860
Brooks - Meadowplace	07-Jun-25	14:00	15:00	88	NNW	34.4	*
Crescent Heights	10-Jun-25	18:00	19:00	81	ENE	23.3	*
Brooks - Meadowplace	10-Jun-25	19:00	20:00	132	E	19.1	*
Crescent Heights	10-Jun-25	19:00	20:00	175	E	24.6	*
Brooks - Meadowplace	10-Jun-25	20:00	21:00	194	E	16.2	*
Crescent Heights	10-Jun-25	20:00	21:00	164	E	23.7	*

Station Name	Date	Start Time	End Time	Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
Brooks - Meadowplace	10-Jun-25	21:00	22:00	188	E	11.8	*
Crescent Heights	10-Jun-25	21:00	22:00	166	E	23.7	*
Brooks - Meadowplace	10-Jun-25	22:00	23:00	157	E	10.4	*
Crescent Heights	10-Jun-25	22:00	23:00	172	E	21.4	*
Brooks - Meadowplace	10-Jun-25	23:00	00:00	158	ESE	13.2	*
Crescent Heights	10-Jun-25	23:00	00:00	169	ENE	19.5	*
Brooks - Meadowplace	11-Jun-25	00:00	01:00	157	ESE	18.3	*
Crescent Heights	11-Jun-25	00:00	01:00	170	E	15.7	*
Brooks - Meadowplace	11-Jun-25	01:00	02:00	155	ESE	14.1	*
Crescent Heights	11-Jun-25	01:00	02:00	159	ESE	19.5	*
Brooks - Meadowplace	11-Jun-25	02:00	03:00	159	ESE	10.8	*
Crescent Heights	11-Jun-25	02:00	03:00	143	E	24.2	*
Brooks - Meadowplace	11-Jun-25	03:00	04:00	151	ESE	15.2	*
Crescent Heights	11-Jun-25	03:00	04:00	136	E	21.8	*
Raymond (Airpointer)	11-Jun-25	03:00	04:00	92	SW	4.2	*
Brooks - Meadowplace	11-Jun-25	04:00	05:00	142	ESE	18.5	*
Crescent Heights	11-Jun-25	04:00	05:00	122	E	23.1	*
Raymond (Airpointer)	11-Jun-25	04:00	05:00	138	SW	5.5	*
Brooks - Meadowplace	11-Jun-25	05:00	06:00	140	ESE	12.9	*
Crescent Heights	11-Jun-25	05:00	06:00	111	E	23.6	*
Raymond (Airpointer)	11-Jun-25	05:00	06:00	134	WSW	6.4	*
Brooks - Meadowplace	11-Jun-25	06:00	07:00	130	ENE	9.2	*
Crescent Heights	11-Jun-25	06:00	07:00	111	E	20.7	*
Raymond (Airpointer)	11-Jun-25	06:00	07:00	132	W	6.1	*
Brooks - Meadowplace	11-Jun-25	07:00	08:00	127	ENE	9.1	*
Crescent Heights	11-Jun-25	07:00	08:00	93	ESE	18.6	*
Raymond (Airpointer)	11-Jun-25	07:00	08:00	132	W	8.0	*
Brooks - Meadowplace	11-Jun-25	08:00	09:00	111	SSE	14.2	*
Crescent Heights	11-Jun-25	08:00	09:00	82	SE	13.8	*
Hanna (Airpointer)	11-Jun-25	08:00	09:00	91	ESE	2.3	*
Raymond (Airpointer)	11-Jun-25	08:00	09:00	136	NW	6.9	*
Brooks - Meadowplace	11-Jun-25	09:00	10:00	107	SE	5.6	*
Crescent Heights	11-Jun-25	09:00	10:00	85	SSE	5.1	*
Hanna (Airpointer)	11-Jun-25	09:00	10:00	93	ESE	4.4	*
Raymond (Airpointer)	11-Jun-25	09:00	10:00	133	NW	6.9	*
Brooks - Meadowplace	11-Jun-25	10:00	11:00	107	SE	7.3	*
Hanna (Airpointer)	11-Jun-25	10:00	11:00	82	ESE	4.7	*
Raymond (Airpointer)	11-Jun-25	10:00	11:00	131	N	7.3	*
Brooks - Meadowplace	11-Jun-25	11:00	12:00	107	SE	9.5	*
Raymond (Airpointer)	11-Jun-25	11:00	12:00	124	NNE	3.8	*
Brooks - Meadowplace	11-Jun-25	12:00	13:00	98	SE	8.3	*

Station Name	Date	Start Time	End Time	Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
Raymond (Airpointer)	11-Jun-25	12:00	13:00	114	N	1.0	*
Brooks - Meadowplace	11-Jun-25	13:00	14:00	81	ESE	10.0	*
Raymond (Airpointer)	11-Jun-25	13:00	14:00	104	ENE	2.3	*
Raymond (Airpointer)	11-Jun-25	14:00	15:00	85	SSW	0.6	*
Raymond (Airpointer)	11-Jun-25	15:00	16:00	83	S	0.3	*
Hanna (Airpointer)	12-Jun-25	05:00	06:00	89	ESE	4.0	*
Hanna (Airpointer)	12-Jun-25	06:00	07:00	89	ESE	2.0	*
Brooks - Meadowplace	14-Jul-25	16:00	17:00	211	NE	15.4	*
Brooks - Meadowplace	14-Jul-25	17:00	18:00	194	NNE	8.6	*
Crescent Heights	14-Jul-25	17:00	18:00	81	NE	17.8	*
Brooks - Meadowplace	14-Jul-25	18:00	19:00	176	NNE	5.7	*
Crescent Heights	14-Jul-25	18:00	19:00	184	NNE	10.4	*
Brooks - Meadowplace	14-Jul-25	19:00	20:00	145	N	7.4	*
Crescent Heights	14-Jul-25	19:00	20:00	190	NNE	8.8	*
Crescent Heights	14-Jul-25	20:00	21:00	165	N	10.1	*
Crescent Heights	14-Jul-25	21:00	22:00	162	N	9.2	*
Raymond (Airpointer)	14-Jul-25	21:00	22:00	87	NNE	7.9	*
Crescent Heights	14-Jul-25	22:00	23:00	174	N	9.5	*
Raymond (Airpointer)	14-Jul-25	22:00	23:00	90	NNE	4.2	*
Crescent Heights	14-Jul-25	23:00	00:00	150	N	8.5	*
Raymond (Airpointer)	14-Jul-25	23:00	00:00	104	NNW	2.1	*
Crescent Heights	15-Jul-25	08:00	09:00	112	ENE	12.3	*
Crescent Heights	15-Jul-25	09:00	10:00	185	ENE	11.1	*
Crescent Heights	15-Jul-25	10:00	11:00	120	NE	14.8	*
Crescent Heights	15-Jul-25	12:00	13:00	82	NE	12.7	*
Brooks - Meadowplace	16-Jul-25	08:00	09:00	85	S	18.2	*
Brooks - Meadowplace	16-Jul-25	09:00	10:00	91	S	20.2	*
Crescent Heights	16-Jul-25	09:00	10:00	81	SE	3.0	*
Crescent Heights	22-Jul-25	11:00	12:00	89	NNE	15.9	*
Crescent Heights	22-Jul-25	12:00	13:00	89	NNE	20.0	*
Brooks - Meadowplace	22-Jul-25	17:00	18:00	96	NNE	14.3	*
Crescent Heights	09-Aug-25	10:00	11:00	95	NNW	11.1	*
Crescent Heights	09-Aug-25	11:00	12:00	118	NNW	14.5	*
Crescent Heights	09-Aug-25	12:00	13:00	132	N	15.7	*
Crescent Heights	09-Aug-25	13:00	14:00	121	NNW	11.8	*
Crescent Heights	09-Aug-25	14:00	15:00	157	NW	9.7	*
Crescent Heights	09-Aug-25	15:00	16:00	131	WNW	9.3	*
Raymond (Airpointer)	13-Aug-25	16:00	17:00	192	WNW	15.5	*
Raymond (Airpointer)	26-Aug-25	18:00	19:00	98	E	1.1	*
Raymond (Airpointer)	26-Aug-25	19:00	20:00	92	SW	1.3	*
Hanna (Airpointer)	01-Sep-25	20:00	21:00	104	ESE	1.7	*

Station Name	Date	Start Time	End Time	Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
Hanna (Airpointer)	01-Sep-25	21:00	22:00	98	SE	1.3	*
Hanna (Airpointer)	01-Sep-25	22:00	23:00	85	ESE	0.2	*
Hanna (Airpointer)	01-Sep-25	23:00	00:00	80	SE	0.8	*
Brooks - Meadowplace	02-Sep-25	01:00	02:00	94	N	12.8	*
Brooks - Meadowplace	02-Sep-25	02:00	03:00	137	N	12.9	*
Brooks - Meadowplace	02-Sep-25	03:00	04:00	129	NNW	10.3	*
Brooks - Meadowplace	02-Sep-25	04:00	05:00	120	N	12.6	*
Brooks - Meadowplace	02-Sep-25	05:00	06:00	109	N	12.5	*
Raymond (Airpointer)	02-Sep-25	05:00	06:00	111	WSW	7.4	*
Brooks - Meadowplace	02-Sep-25	06:00	07:00	91	NNE	14.8	*
Crescent Heights	02-Sep-25	06:00	07:00	92	NNW	3.4	*
Raymond (Airpointer)	02-Sep-25	06:00	07:00	134	WSW	6.9	*
Crescent Heights	02-Sep-25	07:00	08:00	85	NNE	6.7	*
Raymond (Airpointer)	02-Sep-25	07:00	08:00	124	W	8.5	*
Crescent Heights	02-Sep-25	08:00	09:00	92	NE	9.2	*
Raymond (Airpointer)	02-Sep-25	08:00	09:00	111	WNW	7.6	*
Raymond (Airpointer)	02-Sep-25	09:00	10:00	97	NW	6.5	*
Raymond (Airpointer)	02-Sep-25	10:00	11:00	94	NNW	7.3	*
Raymond (Airpointer)	02-Sep-25	11:00	12:00	87	N	8.4	*
Hanna (Airpointer)	04-Nov-25	22:00	23:00	118	SE	0.1	448427

Exceedance Table 2: 2025 24-hour PM_{2.5} Exceedance Summary For PAS Network

Station Name	Date	24-Hour PM _{2.5} Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
		(µg/m ³)			
Brooks - Meadowplace	07-Jun-25	33	WSW	4.6	441636
Brooks - Meadowplace	08-Jun-25	51	NNW	20.7	441636
Crescent Heights	08-Jun-25	30	NW	16.9	441808
Hanna (Airpointer)	08-Jun-25	30	NW	7.2	441810
Raymond (Airpointer)	08-Jun-25	33	WNW	3.4	441809
Brooks - Meadowplace	09-Jun-25	30	WNW	11.9	441636
Brooks - Meadowplace	10-Jun-25	70	E	4.3	441636
Crescent Heights	10-Jun-25	75	NE	6.4	441808
Hanna (Airpointer)	10-Jun-25	30	E	1.1	441810
Brooks - Meadowplace	11-Jun-25	95	SE	6.1	441636
Crescent Heights	11-Jun-25	80	E	8.4	441808
Hanna (Airpointer)	11-Jun-25	50	ESE	8.5	441810
Raymond (Airpointer)	11-Jun-25	95	N	0.3	441809
Brooks - Meadowplace	12-Jun-25	53	SSE	11.4	441636
Crescent Heights	12-Jun-25	50	NE	3.2	441808

Station Name	Date	24-Hour PM _{2.5} Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
Hanna (Airpointer)	12-Jun-25	53	ESE	6.5	441810
Raymond (Airpointer)	12-Jun-25	39	S	0.7	441809
Brooks - Meadowplace	14-Jul-25	41	NNE	11.1	443129
Crescent Heights	14-Jul-25	48	NE	13.0	443130
Crescent Heights	15-Jul-25	64	ENE	7.0	443130
Brooks - Meadowplace	16-Jul-25	38	SSE	13.5	443129
Crescent Heights	16-Jul-25	38	SSE	6.4	443130
Brooks - Meadowplace	22-Jul-25	37	NNE	3.9	443129
Crescent Heights	22-Jul-25	45	NE	12.3	443130
Brooks - Meadowplace	09-Aug-25	33	NNW	8.0	445503
Crescent Heights	09-Aug-25	57	NW	8.9	445502
Hanna (Airpointer)	01-Sep-25	41	SSE	0.9	444837
Brooks - Meadowplace	02-Sep-25	67	NE	8.4	444832
Crescent Heights	02-Sep-25	49	ENE	7.9	444834
Raymond (Airpointer)	02-Sep-25	66	NW	2.6	444835
Brooks - Meadowplace	03-Sep-25	44	SW	7.7	444832
Crescent Heights	03-Sep-25	35	SW	4.3	444834
Raymond (Airpointer)	03-Sep-25	45	W	1.3	444835
Brooks - Meadowplace	04-Sep-25	32	N	16.9	444832
Raymond (Airpointer)	04-Sep-25	33	NW	3.8	444835
Brooks - Meadowplace	09-Sep-25	29	S	7.0	444832

Monitoring Uptime Notes:

Raymond PM_{2.5}: Analyzer failed on May 23, was removed and taken to the Calgary shop for repair. Returned to service May 28, with an uptime of 83.9%. **Reference #441816.**

Raymond PM_{2.5}: Analyzer returned an uptime of 86.7% in July due to power outages, extended periods of instability after returning to service after the power outages and troubleshooting and maintenance. **Reference #444264.**

Hanna NO_x and O₃: Sample pump failed November 13 and was replaced November 17, affecting the NO_x and O₃ analyzers. The NO_x analyzer returned to service November 17 with an uptime of 85.0% and the O₃ analyzer returned to service November 18 with an uptime of 83.1%. **Reference #448426.**

Crescent Heights THC: Analyzer malfunctioned after the December 2 calibration and did not return valid readings for the remainder of the month, with an uptime of 2.8%. **Ref# 449562.**

Raymond, all parameters: Station power supply was interrupted from December 4-9, with uptimes of 82.3% and 82.1% for the PM_{2.5} and meteorological sensors respectively. The NO_x and O₃ analyzers were down for December due to sample pump and NO_x analyzer requiring repair. **Ref# 449563.**

Changes to monitoring in 2025:

None.

Deviations from authorized monitoring methods:

None.

Changes made after monthly reports submitted:

Raymond Wind Speed was reported with incorrect units in the monthly reports from January through April 2025. Monthly reports were revised in June 2025 and resubmitted.

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.

X

Lorna Morishita
Palliser Airshed Society Executive Director

PAS

CRESCENT HEIGHTS

CONTINUOUS AMBIENT AIR MONITORING STATION

2025

SUMMARY TABLES

Sulphur Dioxide (SO₂) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights SO ₂ (ppb)												2025								
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
January	707	0.1	0.4	Jan 06	0.0	Jan 11	0.9	Jan 20 00:00	0.0	Jan 10 17:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
February	607	0.1	0.3	Feb 14	0.0	Feb 27	0.7	Feb 14 17:00	0.0	Feb 07 22:00	94.8	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
March	691	0.0	0.2	Mar 05	0.0	Mar 28	1.0	Mar 05 08:00	0.0	Mar 02 20:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
April	683	0.0	0.1	Apr 27	0.0	Apr 21	0.3	Apr 19 11:00	0.0	Apr 01 01:00	100.0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
May	698	0.0	0.1	May 03	0.0	May 16	0.4	May 05 08:00	0.0	May 02 02:00	98.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
June	684	0.1	0.3	Jun 11	0.0	Jun 21	1.0	Jun 11 23:00	0.0	Jun 01 02:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
July	705	0.0	0.1	Jul 25	0.0	Jul 22	0.3	Jul 13 10:00	0.0	Jul 03 05:00	99.6	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
August	707	0.1	0.2	Aug 11	0.0	Aug 23	1.2	Aug 11 08:00	0.0	Aug 01 11:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
September	684	0.1	0.5	Sep 08	0.0	Sep 06	1.6	Sep 08 06:00	0.0	Sep 02 18:00	99.9	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
October	703	0.0	0.1	Oct 19	0.0	Oct 26	2.4	Oct 19 18:00	0.0	Oct 01 01:00	99.3	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
November	682	0.0	0.1	Nov 26	0.0	Nov 07	0.5	Nov 17 10:00	0.0	Nov 01 01:00	99.6	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
December	706	0.1	0.3	Dec 11	0.0	Dec 15	1.5	Dec 11 18:00	0.0	Dec 01 05:00	100.0	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00
Annual	8257	0.1	0.5	Sep 08	0.0	Jan 11	2.4	Oct 19 18:00	0.0	Jan 10 17:00	99.3	0	0	0	100.00	0.00	0.00	0.00	0.00	0.00

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

Nitric Oxide (NO) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights NO (ppb)												2025				
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	704	2.4	9.7	Jan 07	0.4	Jan 11	79.7	Jan 07 02:00	0.0	Jan 12 05:00	99.6	99.01	0.85	0.14	0.00	0.00
February	636	2.5	7.8	Feb 18	0.4	Feb 14	40.8	Feb 18 09:00	0.0	Feb 23 07:00	99.9	99.37	0.63	0.00	0.00	0.00
March	706	1.6	7.2	Mar 01	0.1	Mar 26	40.1	Mar 02 07:00	0.0	Mar 12 19:00	99.9	99.72	0.28	0.00	0.00	0.00
April	682	1.0	4.9	Apr 24	0.1	Apr 21	28.5	Apr 24 07:00	0.0	Apr 01 22:00	100.0	99.71	0.29	0.00	0.00	0.00
May	699	0.9	2.9	May 14	0.1	May 17	35.0	May 28 07:00	0.0	May 08 02:00	98.9	99.71	0.29	0.00	0.00	0.00
June	683	0.6	1.5	Jun 09	0.1	Jun 11	15.6	Jun 09 01:00	0.0	Jun 01 20:00	99.9	100.00	0.00	0.00	0.00	0.00
July	706	0.7	1.3	Jul 22	0.3	Jul 30	9.4	Jul 13 03:00	0.0	Jul 01 22:00	99.9	100.00	0.00	0.00	0.00	0.00
August	706	0.8	1.9	Aug 12	0.3	Aug 24	10.9	Aug 12 07:00	0.0	Aug 18 21:00	100.0	100.00	0.00	0.00	0.00	0.00
September	683	1.3	4.3	Sep 19	0.1	Sep 28	26.9	Sep 19 06:00	0.0	Sep 02 21:00	100.0	99.85	0.15	0.00	0.00	0.00
October	702	1.5	5.9	Oct 16	0.4	Oct 25	25.3	Oct 09 09:00	0.0	Oct 01 01:00	99.5	99.86	0.14	0.00	0.00	0.00
November	680	3.5	11.1	Nov 26	0.5	Nov 07	64.8	Nov 17 10:00	0.0	Nov 07 05:00	99.6	97.21	2.65	0.15	0.00	0.00
December	707	1.4	6.1	Dec 07	0.2	Dec 24	38.4	Dec 07 20:00	0.0	Dec 03 01:00	100.0	99.43	0.57	0.00	0.00	0.00
Annual	8294	1.5	11.1	Nov 26	0.1	Apr 21	79.7	Jan 07 02:00	0.0	Jan 12 05:00	99.8	99.49	0.49	0.02	0.00	0.00

No AAAQO

Nitrogen Dioxide (NO₂) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights NO ₂ (ppb)												2025						
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	704	9.0	21.3	Jan 29	2.4	Jan 17	41.7	Jan 29 21:00	0.7	Jan 17 06:00	99.6	0	95.03	4.97	0.00	0.00	0.00	
February	636	9.5	19.6	Feb 17	3.3	Feb 23	39.0	Feb 12 01:00	1.3	Feb 22 23:00	99.9	0	93.08	6.92	0.00	0.00	0.00	
March	706	5.2	13.4	Mar 01	0.9	Mar 26	29.7	Mar 01 23:00	0.5	Mar 26 15:00	99.9	0	98.73	1.27	0.00	0.00	0.00	
April	682	4.0	7.8	Apr 24	1.3	Apr 19	25.9	Apr 03 00:00	0.3	Apr 27 16:00	100.0	0	99.85	0.15	0.00	0.00	0.00	
May	699	3.5	7.6	May 14	1.1	May 18	33.5	May 31 05:00	0.0	May 31 13:00	98.9	0	99.71	0.29	0.00	0.00	0.00	
June	683	2.9	5.1	Jun 09	1.0	Jun 01	24.9	Jun 09 01:00	0.0	Jun 01 13:00	99.9	0	100.00	0.00	0.00	0.00	0.00	
July	706	2.1	3.6	Jul 24	0.6	Jul 26	16.9	Jul 23 22:00	0.0	Jul 01 21:00	99.9	0	100.00	0.00	0.00	0.00	0.00	
August	706	2.3	4.5	Aug 18	0.8	Aug 13	25.6	Aug 18 22:00	0.0	Aug 01 12:00	100.0	0	99.72	0.28	0.00	0.00	0.00	
September	683	3.5	9.3	Sep 08	0.6	Sep 28	22.5	Sep 08 21:00	0.0	Sep 01 13:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
October	702	3.7	8.7	Oct 10	1.1	Oct 12	19.2	Oct 10 06:00	0.0	Oct 01 01:00	99.5	0	100.00	0.00	0.00	0.00	0.00	
November	680	7.5	19.6	Nov 26	1.2	Nov 01	34.2	Nov 29 19:00	0.0	Nov 01 01:00	99.6	0	96.47	3.53	0.00	0.00	0.00	
December	707	6.0	13.0	Dec 07	2.3	Dec 06	36.5	Dec 07 20:00	0.7	Dec 06 13:00	100.0	0	99.29	0.71	0.00	0.00	0.00	
Annual	8294	4.9	21.3	Jan 29	0.6	Sep 28	41.7	Jan 29 21:00	0.0	May 31 13:00	99.8	0	0	98.49	1.51	0.00	0.00	0.00

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

Total Oxides of Nitrogen (NO_x) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights NO _x (ppb)												2025				
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	704	11.4	29.0	Jan 29	2.8	Jan 17	114.0	Jan 07 02:00	0.8	Jan 17 06:00	99.6	91.48	6.82	1.56	0.14	0.00
February	636	12.1	27.2	Feb 18	4.3	Feb 23	71.9	Feb 18 09:00	1.4	Feb 22 23:00	99.9	90.41	8.96	0.63	0.00	0.00
March	706	6.8	20.6	Mar 01	0.9	Mar 26	64.8	Mar 02 07:00	0.6	Mar 26 15:00	99.9	95.18	4.53	0.28	0.00	0.00
April	682	5.0	12.7	Apr 24	1.6	Apr 21	45.4	Apr 24 07:00	0.5	Apr 27 15:00	100.0	97.80	2.20	0.00	0.00	0.00
May	699	4.5	10.5	May 14	1.3	May 18	62.0	May 31 05:00	0.0	May 31 15:00	98.9	99.00	0.72	0.29	0.00	0.00
June	683	3.5	6.6	Jun 09	1.1	Jun 01	40.5	Jun 09 01:00	0.0	Jun 01 14:00	99.9	99.41	0.59	0.00	0.00	0.00
July	706	2.8	5.0	Jul 24	0.9	Jul 26	24.9	Jul 13 03:00	0.0	Jul 01 21:00	99.9	100.00	0.00	0.00	0.00	0.00
August	706	3.1	6.0	Aug 25	1.1	Aug 24	32.0	Aug 18 22:00	0.0	Aug 01 12:00	100.0	99.43	0.57	0.00	0.00	0.00
September	683	4.8	10.2	Sep 08	0.6	Sep 28	43.5	Sep 12 06:00	0.0	Sep 01 13:00	100.0	98.10	1.90	0.00	0.00	0.00
October	702	5.1	12.6	Oct 10	1.8	Oct 13	41.4	Oct 07 08:00	0.0	Oct 01 01:00	99.5	98.29	1.71	0.00	0.00	0.00
November	680	11.0	30.7	Nov 26	2.0	Nov 01	81.6	Nov 17 10:00	0.1	Nov 01 01:00	99.6	87.94	10.15	1.91	0.00	0.00
December	707	7.4	19.1	Dec 07	2.5	Dec 06	74.9	Dec 07 20:00	0.8	Dec 19 03:00	100.0	97.45	1.98	0.57	0.00	0.00
Annual	8294	6.4	30.7	Nov 26	0.6	Sep 28	114.0	Jan 07 02:00	0.0	May 31 15:00	99.8	96.21	3.34	0.44	0.01	0.00

No AAAQO

Ozone (O₃) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights O ₃ (ppb)													2025					
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	708	29.0	37.9	Jan 26	18.4	Jan 05	45.6	Jan 16 19:00	0.6	Jan 07 02:00	99.9	0	0.85	4.66	10.88	78.39	5.23	0.00
February	639	30.7	40.4	Feb 22	17.5	Feb 18	46.7	Feb 24 06:00	2.4	Feb 18 03:00	100.0	0	0.00	3.60	7.51	78.40	10.49	0.00
March	709	29.5	41.5	Mar 26	18.2	Mar 01	48.1	Mar 23 15:00	0.5	Mar 02 07:00	99.9	0	1.41	4.23	9.45	69.68	15.23	0.00
April	686	35.3	43.3	Apr 11	24.4	Apr 01	57.2	Apr 24 16:00	1.2	Apr 23 01:00	100.0	0	0.29	3.50	8.31	47.96	39.94	0.00
May	701	38.1	49.0	May 03	26.1	May 18	70.7	May 03 16:00	4.4	May 01 05:00	98.9	0	0.00	1.85	6.56	44.79	46.79	0.00
June	684	39.3	54.9	Jun 11	28.4	Jun 22	64.4	Jun 10 20:00	7.4	Jun 30 03:00	100.0	0	0.00	0.44	5.12	44.74	49.71	0.00
July	708	30.6	42.0	Jul 02	14.5	Jul 22	59.2	Jul 02 12:00	3.9	Jul 16 06:00	99.9	0	0.00	3.25	16.10	58.19	22.46	0.00
August	709	26.6	36.4	Aug 20	17.0	Aug 11	52.7	Aug 19 16:00	1.3	Aug 12 03:00	100.0	0	0.42	5.36	27.93	51.34	14.95	0.00
September	686	30.1	41.7	Sep 21	21.5	Sep 03	56.5	Sep 20 17:00	1.4	Sep 19 07:00	100.0	0	0.15	6.56	15.45	56.85	20.99	0.00
October	704	24.4	35.3	Oct 25	12.5	Oct 14	43.7	Oct 11 14:00	0.2	Oct 16 03:00	99.5	0	1.42	5.11	24.72	65.34	3.41	0.00
November	681	18.6	31.8	Nov 02	6.3	Nov 18	39.8	Nov 07 12:00	0.2	Nov 27 03:00	99.6	0	5.87	19.97	27.02	47.14	0.00	0.00
December	709	25.4	32.3	Dec 30	18.2	Dec 10	39.6	Dec 17 14:00	1.4	Dec 23 08:00	100.0	0	0.14	1.55	17.07	81.24	0.00	0.00
Annual	8324	29.8	54.9	Jun 11	6.3	Nov 18	70.7	May 03 16:00	0.2	Nov 27 03:00	99.8	0	0.88	5.01	14.68	60.34	19.10	0.00

AAAQO: 1-Hr: 76 ppb

Total Hydrocarbons (THC) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights THC (ppm)													2025				
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	707	2.4	2.8	Jan 19	2.2	Jan 08	2.9	Jan 07 04:00	2.0	Jan 10 10:00	99.9	0.00	0.00	66.90	33.10	0.00	0.00
February	640	2.5	2.7	Feb 19	2.1	Feb 23	3.5	Feb 19 23:00	2.0	Feb 27 14:00	100.0	0.00	0.00	48.75	51.25	0.00	0.00
March	708	2.3	2.4	Mar 18	2.1	Mar 09	4.1	Mar 04 04:00	2.0	Mar 10 01:00	99.9	0.00	0.00	97.88	2.12	0.00	0.00
April	686	2.2	2.3	Apr 04	2.0	Apr 29	2.9	Apr 13 09:00	2.0	Apr 29 16:00	100.0	0.00	0.15	98.54	1.31	0.00	0.00
May	700	2.1	2.2	May 28	2.0	May 26	2.5	May 28 03:00	1.9	May 27 13:00	98.9	0.00	11.43	88.43	0.14	0.00	0.00
June	685	2.1	2.2	Jun 04	2.0	Jun 21	2.4	Jul 01 00:00	1.9	Jun 21 11:00	100.0	0.00	1.02	98.98	0.00	0.00	0.00
July	708	2.1	2.3	Jul 31	2.0	Jul 26	7.0	Jul 31 07:00	2.0	Jul 26 22:00	99.9	0.00	7.34	92.37	0.14	0.14	0.00
August	708	2.0	2.2	Aug 27	1.9	Aug 13	2.4	Aug 19 04:00	1.8	Aug 16 13:00	100.0	0.00	48.87	51.13	0.00	0.00	0.00
September	686	2.1	2.2	Sep 08	2.0	Sep 21	3.3	Sep 25 09:00	1.9	Sep 21 16:00	100.0	0.00	19.97	79.30	0.73	0.00	0.00
October	705	2.1	2.2	Oct 28	1.9	Oct 11	2.4	Oct 16 00:00	1.9	Oct 11 13:00	99.5	0.00	9.50	90.50	0.00	0.00	0.00
November	670	2.1	2.4	Nov 30	2.0	Nov 13	3.0	Nov 30 01:00	1.9	Nov 28 04:00	99.6	0.00	10.30	87.01	2.69	0.00	0.00
December	16	-	-	-	-	Nov 30	2.7	Dec 01 15:00	2.1	Dec 01 12:00	2.8	0.00	0.00	87.50	12.50	0.00	0.00
Annual	7619	2.2	2.8	Jan 19	1.9	Aug 13	7.0	Jul 31 07:00	1.8	Aug 16 13:00	91.7	0.00	9.05	82.27	8.67	0.01	0.00

No AAAQO

Particulate Matter (PM_{2.5}) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights PM _{2.5} (µg/m ³)													2025						
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	742	5.0	13.4	Jan 06	1.4	Jan 16	23.9	Jan 07 04:00	0.5	Jan 16 08:00	99.9	0	0	16.71	73.85	8.36	1.08	0.00	0.00
February	670	5.9	13.5	Feb 08	1.0	Feb 22	34.2	Feb 08 18:00	0.2	Feb 23 08:00	100.0	0	0	16.27	74.33	6.87	2.54	0.00	0.00
March	742	5.1	10.4	Mar 06	1.9	Mar 26	22.5	Mar 06 09:00	0.5	Mar 24 03:00	99.9	0	0	8.63	85.04	5.93	0.40	0.00	0.00
April	718	4.2	6.7	Apr 10	1.3	Apr 22	12.0	Apr 10 21:00	0.6	Apr 22 19:00	100.0	0	0	8.77	89.00	2.23	0.00	0.00	0.00
May	735	5.8	19.1	May 30	2.8	May 21	71.4	May 30 07:00	0.8	May 18 16:00	98.9	0	0	2.31	89.39	7.07	0.82	0.41	0.00
June	699	15.0	80.2	Jun 11	2.3	Jun 28	174.5	Jun 10 20:00	1.0	Jun 21 13:00	100.0	4	16	5.01	63.81	14.16	5.87	8.87	2.29
July	740	12.8	63.9	Jul 15	2.8	Jul 04	189.7	Jul 14 20:00	1.2	Jul 14 09:00	99.9	4	14	1.76	70.00	16.62	4.86	4.86	1.89
August	742	8.3	56.8	Aug 09	2.6	Aug 11	156.5	Aug 09 15:00	1.6	Aug 08 11:00	100.0	1	6	1.08	85.31	8.76	3.37	0.67	0.81
September	719	14.2	48.6	Sep 02	3.5	Sep 22	91.7	Sep 02 07:00	1.4	Sep 22 12:00	100.0	2	3	1.81	38.66	45.06	10.99	3.06	0.42
October	739	4.2	9.5	Oct 03	1.5	Oct 26	29.4	Oct 03 21:00	0.4	Oct 26 07:00	99.5	0	0	14.88	82.81	1.76	0.54	0.00	0.00
November	715	5.7	13.8	Nov 27	1.8	Nov 02	20.8	Nov 27 08:00	0.8	Nov 02 08:00	99.6	0	0	8.95	80.00	10.77	0.28	0.00	0.00
December	743	5.8	14.5	Dec 26	0.9	Dec 08	29.1	Dec 25 19:00	0.2	Dec 09 03:00	100.0	0	0	16.02	67.56	15.88	0.54	0.00	0.00
Annual	8704	7.7	80.2	Jun 11	0.9	Dec 08	189.7	Jul 14 20:00	0.2	Dec 09 03:00	99.8	11	39	8.52	74.98	11.96	2.61	1.49	0.45

AAAQO: 24-Hr: 29 µg/m³, 1-Hr: 80 µg/m³

Carbon Monoxide (CO) – Crescent Heights 2025 Summary and Frequency Distribution

Crescent Heights CO (ppm)													2025						
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	707	0.2	0.3	100.0	0.1	0.0	0.3	Jan 29 00:00	0.1	Jan 10 17:00	99.9	0	0	0.28	99.72	0	0	0	0
February	638	0.2	0.3	100.0	0.1	0.0	0.4	Feb 12 11:00	0.1	Feb 12 21:00	99.9	0	0	0.47	99.53	0	0	0	0
March	707	0.2	0.3	100.0	0.1	0.0	0.5	Mar 12 09:00	0.1	Mar 31 01:00	99.7	0	0	0	100	0	0	0	0
April	686	0.1	0.2	100.0	0.1	0.0	0.3	Apr 24 08:00	0.1	Apr 16 22:00	100.0	0	0	0	100	0	0	0	0
May	700	0.1	0.2	100.0	0.1	0.0	0.3	May 30 07:00	0.1	May 27 13:00	98.9	0	0	0	100	0	0	0	0
June	685	0.2	0.6	100.0	0.1	0.0	0.6	Jun 10 20:00	0.1	Jun 14 02:00	99.9	0	0	0	100	0	0	0	0
July	706	0.2	0.7	100.0	0.1	0.0	1.0	Jul 14 23:00	0.1	Jul 26 05:00	99.7	0	0	0.14	99.86	0	0	0	0
August	706	0.1	0.7	98.8	0.1	0.0	0.9	Aug 09 15:00	0.1	Aug 16 14:00	99.9	0	0	3.54	96.46	0	0	0	0
September	684	0.2	0.5	100.0	0.1	0.0	0.6	Sep 02 09:00	0.1	Sep 23 16:00	99.9	0	0	0	100	0	0	0	0
October	704	0.1	0.2	88.7	0.1	0.0	0.3	Oct 07 08:00	0.1	Oct 23 00:00	99.3	0	0	14.91	85.09	0	0	0	0
November	683	0.1	0.3	93.9	0.1	0.0	0.5	Nov 17 09:00	0.1	Nov 13 19:00	99.6	0	0	10.4	89.6	0	0	0	0
December	708	0.1	0.2	100.0	0.1	0.0	0.4	Dec 23 08:00	0.1	Dec 23 13:00	100.0	0	0	1.13	98.87	0	0	0	0
Annual	8314	0.2	0.7	100.0	0.1	0.0	1.0	Jul 14 23:00	0.1	Feb 12 21:00	99.7	0	0	2.57	97.43	0.00	0.00	0.00	0.00

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

Ambient Temperature – Crescent Heights 2025 Summary

Crescent Heights Ambient Temperature (°C) 2025											
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	743	-6.2	3.4	Jan 16	-24.1	Jan 19	8.5	Jan 16 14:00	-27.8	Jan 19 08:00	99.9
February	672	-13.4	8.7	Feb 27	-28.9	Feb 17	16.2	Feb 27 15:00	-33.4	Feb 18 07:00	100.0
March	743	2.3	9.5	Mar 09	-7.1	Mar 15	14.7	Mar 25 15:00	-12.0	Mar 15 05:00	99.9
April	720	8.1	15.3	Apr 11	-0.6	Apr 03	23.4	Apr 07 16:00	-5.7	Apr 18 06:00	100.0
May	736	15.8	25.9	May 29	8.0	May 18	33.0	May 31 17:00	0.3	May 06 05:00	98.9
June	720	18.3	23.8	Jun 09	9.6	Jun 22	32.7	Jun 09 14:00	6.3	Jun 23 02:00	100.0
July	743	20.2	27.7	Jul 02	13.4	Jul 22	35.2	Jul 02 13:00	6.6	Jul 16 05:00	99.9
August	744	20.7	24.2	Aug 13	15.2	Aug 08	34.7	Aug 13 14:00	8.2	Aug 23 06:00	100.0
September	720	18.5	23.1	Sep 01	13.5	Sep 05	32.8	Sep 01 18:00	3.5	Sep 05 06:00	100.0
October	740	8.6	15.6	Oct 11	-0.2	Oct 13	26.1	Oct 10 16:00	-7.0	Oct 31 08:00	99.5
November	717	1.3	14.6	Nov 01	-19.7	Nov 30	21.1	Nov 13 15:00	-27.2	Nov 30 08:00	99.6
December	744	-7.0	7.5	Dec 15	-19.4	Dec 12	10.1	Dec 16 01:00	-27.1	Dec 28 09:00	100.0
Annual	8742	7.3	27.7	Jul 02	-28.9	Feb 17	35.2	Jul 02 13:00	-33.4	Feb 18 07:00	99.8

Relative Humidity – Crescent Heights 2025 Summary

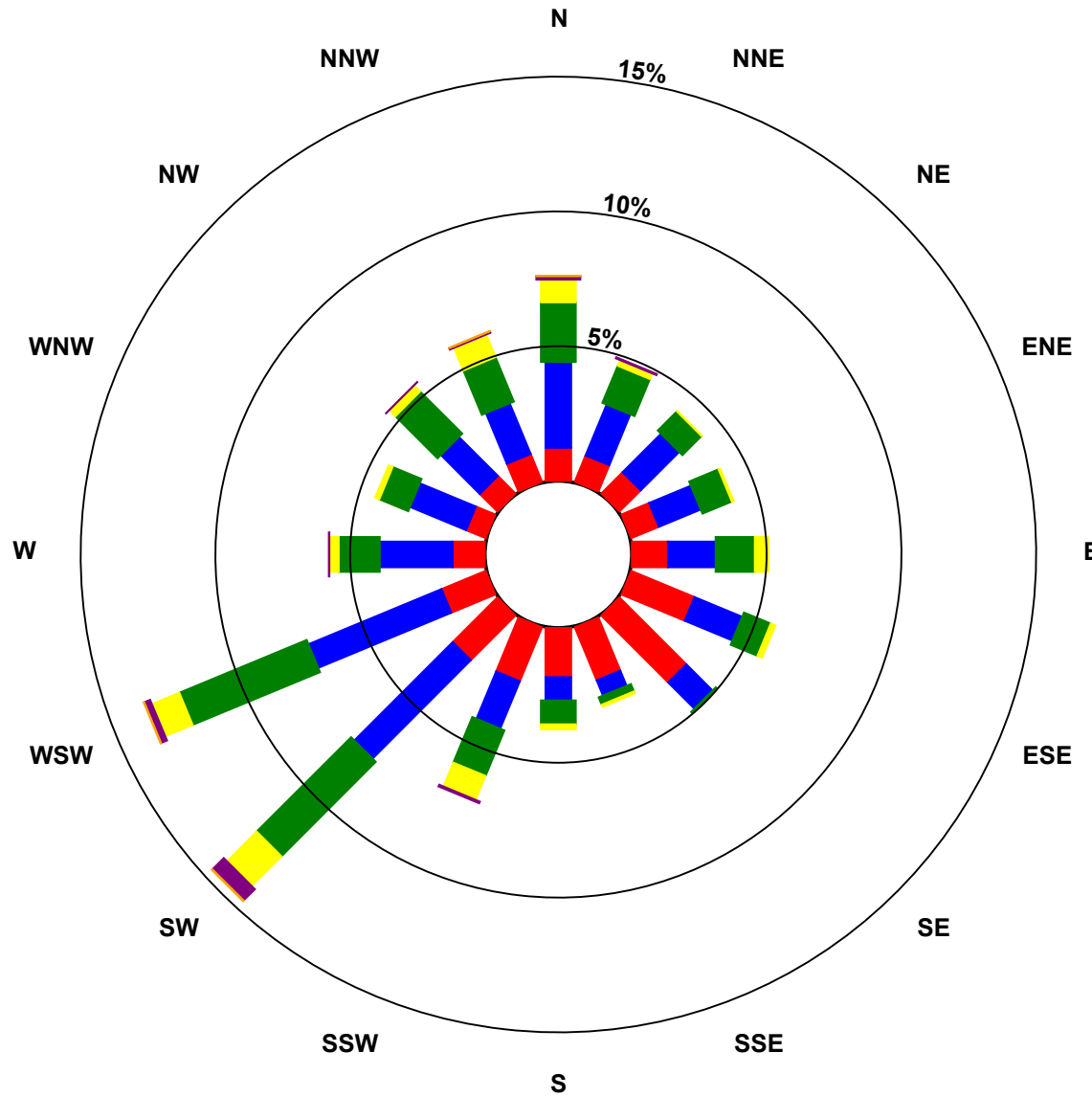
Crescent Heights Relative Humidity (%) 2025											
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	743	81.2	99.2	Jan 12	64.4	Jan 27	100.0	Jan 05 03:00	39.7	Jan 20 13:00	99.9
February	672	73.5	91.9	Feb 07	49.2	Feb 27	100.0	Feb 01 03:00	29.7	Feb 27 15:00	100.0
March	743	70.6	98.5	Mar 03	36.8	Mar 09	100.0	Mar 01 07:00	17.9	Mar 21 16:00	99.9
April	720	53.4	89.8	Apr 21	25.7	Apr 11	100.0	Apr 02 10:00	12.3	Apr 05 18:00	100.0
May	736	47.9	92.0	May 18	25.4	May 02	100.0	May 18 12:00	8.8	May 03 16:00	98.9
June	720	48.4	94.0	Jun 21	22.6	Jun 10	100.0	Jun 12 19:00	8.9	Jun 08 17:00	100.0
July	743	62.3	100.0	Jul 22	31.7	Jul 09	100.0	Jul 06 02:00	14.5	Jul 09 15:00	99.9
August	744	60.5	94.9	Aug 08	38.4	Aug 27	100.0	Aug 03 03:00	14.2	Aug 18 19:00	100.0
September	720	46.4	61.4	Sep 03	31.3	Sep 23	100.0	Sep 11 06:00	11.1	Sep 20 17:00	100.0
October	740	53.8	86.2	Oct 12	32.5	Oct 29	100.0	Oct 12 01:00	17.4	Oct 25 16:00	99.5
November	717	73.5	99.9	Nov 18	35.4	Nov 03	100.0	Nov 07 06:00	13.0	Nov 02 15:00	99.6
December	744	80.7	97.7	Dec 26	61.6	Dec 14	100.0	Dec 05 08:00	48.0	Dec 28 14:00	100.0
Annual	8742	62.7	100.0	Jul 22	22.6	Jun 10	100.0	Jan 05 03:00	8.8	May 03 16:00	99.8

Wind Speed and Wind Direction Frequency Distribution – Crescent Heights 2025 Summary

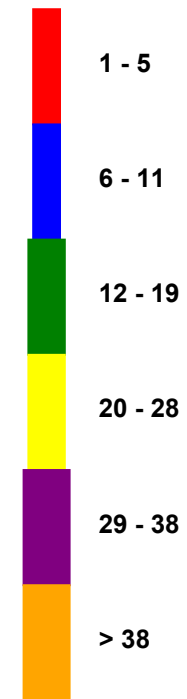
Crescent Heights								2025
Direction	# of Readings	% of wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
N	644	1.23	3.19	2.21	0.84	0.13	0.01	7.61
NNE	411	1.05	2.04	1.49	0.22	0.05	0.00	4.86
NE	352	1.11	2.02	1.00	0.02	0.00	0.00	4.16
ENE	342	1.11	1.68	1.18	0.07	0.00	0.00	4.04
E	428	1.34	1.77	1.45	0.50	0.00	0.00	5.06
ESE	484	2.54	1.91	1.08	0.19	0.00	0.00	5.72
SE	419	3.51	1.37	0.07	0.00	0.00	0.00	4.95
SSE	264	2.13	0.61	0.30	0.08	0.00	0.00	3.12
S	318	1.82	0.86	0.89	0.19	0.00	0.00	3.76
SSW	586	2.16	1.90	1.83	0.96	0.07	0.00	6.93
SW	1239	2.34	5.16	4.95	1.56	0.59	0.04	14.64
WSW	1150	1.77	5.34	5.12	1.10	0.24	0.02	13.59
WSW	490	1.19	2.71	1.52	0.34	0.02	0.00	5.79
WNW	369	0.78	2.26	1.16	0.17	0.00	0.00	4.36
NW	466	0.92	2.04	2.21	0.32	0.01	0.00	5.51
NNW	500	1.11	2.03	1.78	0.91	0.06	0.01	5.91
Totals	8462	26.12	36.92	28.24	7.47	1.17	0.08	100

Wind Rose

Wind Speed (WS) (km/h)
Crescent Heights - 2025



Wind Speed Classes (km/h)



PAS

BROOKS MEADOWPLACE
CONTINUOUS AMBIENT AIR MONITORING STATION

2025
SUMMARY TABLES

Nitric Oxide (NO) – Brooks Meadowplace 2025 Summary and Frequency Distribution

Brooks Meadowplace												NO (ppb)					2025	
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	638	0.9	3.2	Jan 29	0.0	Jan 16	19.8	Jan 15 10:00	0.0	Jan 01 01:00	100.0	100.00	0.00	0.00	0.00			
February	706	0.7	6.4	Mar 02	0.0	Mar 09	28.1	Mar 11 08:00	0.0	Mar 01 04:00	99.9	99.72	0.28	0.00	0.00			
March	681	0.4	2.2	Apr 24	0.0	Apr 11	16.4	Apr 24 07:00	0.0	Apr 01 01:00	99.4	100.00	0.00	0.00	0.00			
April	707	0.3	3.0	May 28	0.0	May 04	18.1	May 28 06:00	0.0	May 01 01:00	100.0	100.00	0.00	0.00	0.00			
May	682	0.2	0.6	Jun 16	0.0	Jun 07	6.4	Jun 03 07:00	0.0	Jun 01 01:00	99.6	100.00	0.00	0.00	0.00			
June	705	0.2	1.2	Jul 23	0.0	Jul 26	8.5	Jul 23 04:00	0.0	Jul 01 01:00	99.9	100.00	0.00	0.00	0.00			
July	703	0.3	0.8	Aug 23	0.0	Aug 08	7.1	Aug 23 07:00	0.0	Aug 01 01:00	99.6	100.00	0.00	0.00	0.00			
August	677	0.3	1.5	Sep 05	0.0	Sep 21	8.4	Sep 19 08:00	0.0	Sep 01 01:00	99.9	100.00	0.00	0.00	0.00			
September	703	0.5	2.4	Oct 06	0.0	Oct 11	16.5	Oct 06 08:00	0.0	Oct 01 01:00	99.5	100.00	0.00	0.00	0.00			
October	678	1.4	5.3	Nov 26	0.0	Nov 02	27.4	Nov 29 22:00	0.0	Nov 01 01:00	99.2	99.71	0.29	0.00	0.00			
November	708	0.5	2.6	Dec 07	0.0	Dec 15	14.7	Dec 23 12:00	0.0	Dec 01 01:00	100.0	100.00	0.00	0.00	0.00			
December	8277	0.6	6.4	Mar 02	0.0	Mar 09	28.4	Feb 18 10:00	0.0	Jan 01 01:00	99.7	99.93	0.07	0.00	0.00			
Annual																		

No AAAQO

Nitrogen Dioxide (NO₂) – Brooks Meadowplace 2025 Summary and Frequency Distribution

Brooks Meadowplace												NO ₂ (ppb)					2025	
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	689	6.5	14.6	Jan 29	1.8	Jan 16	27.0	Jan 29 02:00	0.5	Jan 16 07:00	100.0	0	0	99.56	0.44	0.00	0.00	0.00
February	638	6.3	13.5	Feb 16	1.4	Feb 19	37.7	Feb 13 07:00	0.6	Feb 23 00:00	100.0	0	0	98.28	1.72	0.00	0.00	0.00
March	706	3.7	9.9	Mar 06	1.0	Mar 28	24.1	Mar 25 05:00	0.2	Mar 23 15:00	99.9	0	0	100.00	0.00	0.00	0.00	0.00
April	681	3.0	5.9	Apr 17	1.4	Apr 20	23.2	Apr 18 00:00	0.1	Apr 10 11:00	99.4	0	0	100.00	0.00	0.00	0.00	0.00
May	707	3.4	8.4	May 28	1.7	May 04	24.1	May 28 04:00	0.4	May 05 16:00	100.0	0	0	100.00	0.00	0.00	0.00	0.00
June	682	3.2	5.7	Jun 12	0.8	Jun 22	12.8	Jun 03 06:00	0.0	Jun 22 02:00	99.6	0	0	100.00	0.00	0.00	0.00	0.00
July	705	2.3	3.8	Jul 06	1.3	Jul 26	12.8	Jul 13 00:00	0.2	Jul 01 16:00	99.9	0	0	100.00	0.00	0.00	0.00	0.00
August	703	2.7	4.4	Aug 31	1.0	Aug 16	13.6	Aug 27 00:00	0.0	Aug 29 13:00	99.6	0	0	100.00	0.00	0.00	0.00	0.00
September	677	3.8	6.5	Sep 08	1.5	Sep 27	20.6	Sep 09 21:00	0.2	Sep 30 23:00	99.9	0	0	100.00	0.00	0.00	0.00	0.00
October	703	3.6	8.1	Oct 09	0.7	Oct 26	24.1	Oct 09 20:00	0.2	Oct 27 00:00	99.5	0	0	100.00	0.00	0.00	0.00	0.00
November	678	5.6	12.7	Nov 26	1.2	Nov 01	30.2	Nov 30 02:00	0.2	Nov 01 02:00	99.2	0	0	99.85	0.15	0.00	0.00	0.00
December	708	5.0	9.9	Dec 07	1.5	Dec 15	29.9	Dec 07 08:00	0.5	Dec 15 23:00	100.0	0	0	99.29	0.71	0.00	0.00	0.00
Annual	8277	4.1	14.6	Jan 29	0.7	Oct 26	37.7	Feb 13 07:00	0.0	Jun 22 02:00	99.7	0	0	99.75	0.25	0.00	0.00	0.00

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

Total Oxides of Nitrogen (NOx) – Brooks Meadowplace 2025 Summary and Frequency Distribution

Brooks Meadowplace												NOx (ppb)					2025	
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	689	7.3	17.7	Jan 29	1.6	Jan 16	40.3	Jan 15 10:00	0.0	Jan 16 07:00	100.0	97.24	2.76	0.00	0.00	0.00		
February	638	7.5	18.1	Feb 16	1.5	Feb 19	61.3	Feb 16 08:00	0.3	Feb 23 00:00	100.0	95.92	3.76	0.31	0.00	0.00		
March	706	4.4	13.7	Mar 02	0.9	Mar 28	44.5	Mar 02 08:00	0.1	Mar 23 15:00	99.9	97.73	2.27	0.00	0.00	0.00		
April	681	3.3	8.0	Apr 24	1.2	Apr 11	30.4	Apr 24 05:00	0.0	Apr 10 11:00	99.4	99.41	0.59	0.00	0.00	0.00		
May	707	3.6	11.3	May 28	1.5	May 04	37.3	May 28 07:00	0.3	May 05 16:00	100.0	99.29	0.71	0.00	0.00	0.00		
June	682	3.3	5.6	Jun 12	0.9	Jun 22	18.8	Jun 03 07:00	0.0	Jun 22 02:00	99.6	100.00	0.00	0.00	0.00	0.00		
July	705	2.5	4.0	Jul 06	1.2	Jul 26	13.7	Jul 23 04:00	0.0	Jul 01 16:00	99.9	100.00	0.00	0.00	0.00	0.00		
August	703	2.8	4.8	Aug 31	1.0	Aug 16	18.8	Aug 28 07:00	0.0	Aug 02 15:00	99.6	100.00	0.00	0.00	0.00	0.00		
September	677	3.9	7.1	Sep 19	1.3	Sep 27	21.7	Sep 09 21:00	0.0	Sep 01 17:00	99.9	100.00	0.00	0.00	0.00	0.00		
October	703	4.0	9.8	Oct 09	0.5	Oct 26	28.8	Oct 16 07:00	0.0	Oct 27 00:00	99.5	99.43	0.57	0.00	0.00	0.00		
November	678	7.0	18.0	Nov 26	1.1	Nov 02	49.0	Nov 29 22:00	0.1	Nov 01 05:00	99.2	96.76	3.24	0.00	0.00	0.00		
December	708	5.5	12.4	Dec 07	1.3	Dec 15	40.4	Dec 07 09:00	0.2	Dec 16 00:00	100.0	98.73	1.27	0.00	0.00	0.00		
Annual	8277	4.6	18.1	Feb 16	0.5	Oct 26	61.3	Feb 16 08:00	0.0	Jan 16 07:00	99.7	98.71	1.26	0.03	0.00	0.00		

No AAAQO

Ozone (O₃) – Brooks Meadowplace 2025 Summary and Frequency Distribution

Brooks Meadowplace												O ₃ (ppb)					2025	
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	27.0	37.8	Jan 21	13.9	Jan 06	47.6	Jan 16 18:00	0.5	Jan 06 08:00	100.0	0	0.56	5.50	14.25	75.88	3.81	0.00
February	640	29.8	38.7	Feb 22	21.9	Feb 26	46.3	Feb 25 15:00	0.0	Feb 13 07:00	100.0	0	0.63	1.72	8.13	83.28	6.25	0.00
March	708	27.9	37.0	Mar 09	18.0	Mar 02	49.2	Mar 26 13:00	0.0	Mar 02 00:00	99.9	0	2.26	5.37	13.14	68.22	11.02	0.00
April	685	34.1	42.1	Apr 11	21.9	Apr 01	57.6	Apr 24 15:00	0.1	Apr 24 05:00	99.9	0	0.58	3.80	11.97	44.82	38.83	0.00
May	707	37.6	45.8	May 08	25.3	May 18	70.0	May 03 17:00	0.9	May 28 03:00	99.9	0	0.28	1.98	10.47	41.58	45.69	0.00
June	685	37.4	57.5	Jun 11	26.8	Jun 28	67.9	Jun 11 17:00	8.3	Jun 03 06:00	99.9	0	0.00	0.15	8.76	48.03	43.07	0.00
July	708	29.1	41.1	Jul 02	17.1	Jul 22	56.6	Jul 31 18:00	0.9	Jul 23 03:00	99.9	0	0.28	3.11	22.03	54.94	19.63	0.00
August	706	26.2	33.2	Aug 02	14.7	Aug 11	54.6	Aug 31 15:00	1.2	Aug 11 23:00	99.6	0	0.42	7.65	27.48	47.59	16.86	0.00
September	684	30.4	41.0	Sep 21	21.7	Sep 03	59.6	Sep 20 17:00	1.6	Sep 05 05:00	99.9	0	0.29	3.95	19.44	52.05	24.27	0.00
October	703	24.2	34.7	Oct 25	9.9	Oct 15	47.4	Oct 11 15:00	0.6	Oct 09 07:00	99.3	0	1.71	9.25	24.61	57.89	6.54	0.00
November	680	16.2	31.6	Nov 02	3.9	Nov 18	40.8	Nov 02 15:00	0.0	Nov 15 18:00	99.2	0	6.03	27.06	31.62	35.15	0.15	0.00
December	709	23.2	30.4	Dec 12	12.3	Dec 10	38.8	Dec 16 01:00	0.3	Dec 07 07:00	100.0	0	0.56	4.23	22.43	72.78	0.00	0.00
Annual	8324	28.6	57.5	Jun 11	3.9	Nov 18	70.0	May 03 17:00	0.0	Feb 13 07:00	99.8	0	1.13	6.15	17.86	56.85	18.01	0.00

AAAQO: 1-Hr: 76 ppb

Particulate Matter (PM_{2.5}) – Brooks Meadowplace 2025 Summary and Frequency Distribution

Brooks Meadowplace												PM _{2.5} (µg/m ³)						2025	
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	6.4	25.2	Jan 06	1.7	Jan 16	42.1	Jan 06 21:00	0.4	Jan 11 08:00	100.0	0	0	13.32	69.04	12.52	4.17	0.94	0.00
February	671	6.6	16.9	Feb 08	0.8	Feb 23	50.8	Feb 15 07:00	0.3	Feb 23 05:00	100.0	0	0	15.50	66.32	13.11	4.62	0.45	0.00
March	742	5.9	18.4	Mar 06	1.8	Mar 23	32.9	Mar 06 09:00	0.5	Mar 24 16:00	99.9	0	0	9.30	75.07	13.34	2.29	0.00	0.00
April	718	4.0	6.3	Apr 10	1.5	Apr 08	12.1	Apr 10 19:00	0.3	Apr 21 22:00	100.0	0	0	10.45	88.02	1.53	0.00	0.00	0.00
May	742	6.2	15.4	May 30	2.8	May 21	32.6	May 30 08:00	1.5	May 21 15:00	100.0	0	0	2.43	85.04	11.19	1.35	0.00	0.00
June	719	18.0	94.6	Jun 11	2.1	Jun 28	194.3	Jun 10 21:00	1.0	Jun 28 16:00	100.0	6	20	4.87	53.96	20.17	7.65	10.57	2.78
July	741	12.0	41.0	Jul 14	3.1	Jul 04	211.1	Jul 14 17:00	1.5	Jul 14 08:00	99.9	3	7	1.08	65.05	22.67	6.48	3.78	0.94
August	740	8.7	32.6	Aug 09	3.3	Aug 14	66.2	Aug 09 12:00	1.9	Aug 08 08:00	99.6	1	0	0.14	78.38	15.54	4.86	1.08	0.00
September	718	18.9	66.5	Sep 02	4.1	Sep 22	136.7	Sep 02 03:00	1.5	Sep 26 12:00	99.9	4	6	1.11	29.81	34.96	25.07	8.22	0.84
October	738	4.6	9.3	Oct 10	1.4	Oct 26	26.2	Oct 03 22:00	0.5	Oct 19 10:00	99.5	0	0	11.92	84.15	3.79	0.14	0.00	0.00
November	666	7.2	16.8	Nov 30	1.8	Nov 02	33.6	Nov 28 05:00	0.7	Nov 02 07:00	92.6	0	0	6.91	71.92	16.37	4.80	0.00	0.00
December	743	7.0	20.0	Dec 26	2.3	Dec 15	31.4	Dec 26 12:00	0.1	Dec 09 04:00	100.0	0	0	11.17	65.55	20.46	2.83	0.00	0.00
Annual	8681	8.8	94.6	Jun 11	0.8	Feb 23	211.1	Jul 14 17:00	0.1	Dec 09 04:00	99.3	14	33	7.35	69.36	15.47	5.36	2.09	0.38

AAAQO: 24-Hr: 29 µg/m³, 1-Hr: 80 µg/m³

Ambient Temperature – Brooks Meadowplace 2025 Summary

Brooks Meadowplace											Ambient Temperature (°C)		2025
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)		
January	744	-7.0	2.8	Jan 27	-24.1	Jan 19	7.8	Jan 15 13:00	-29.7	Jan 20 07:00	100.0		
February	672	-13.9	7.7	Feb 27	-28.8	Feb 18	15.9	Feb 27 16:00	-33.8	Feb 18 07:00	100.0		
March	743	0.5	8.3	Mar 09	-8.8	Mar 15	14.5	Mar 09 16:00	-12.4	Mar 15 01:00	99.9		
April	720	6.6	13.3	Apr 11	-1.6	Apr 02	21.7	Apr 07 14:00	-7.5	Apr 18 06:00	100.0		
May	744	14.0	22.6	May 29	7.8	May 18	32.6	May 31 18:00	-0.6	May 06 05:00	100.0		
June	720	16.6	21.0	Jun 30	10.1	Jun 22	28.9	Jun 09 17:00	6.0	Jun 24 05:00	100.0		
July	743	18.0	24.6	Jul 02	11.8	Jul 22	33.1	Jul 02 17:00	6.0	Jul 23 04:00	99.9		
August	741	19.1	22.3	Aug 27	14.9	Aug 14	32.0	Aug 26 16:00	7.1	Aug 23 06:00	99.6		
September	719	16.7	22.3	Sep 01	12.0	Sep 28	31.0	Sep 01 16:00	2.8	Sep 05 05:00	99.9		
October	740	7.0	13.8	Oct 11	-2.1	Oct 13	22.9	Oct 10 16:00	-7.4	Oct 31 07:00	99.5		
November	714	-0.8	13.1	Nov 01	-21.2	Nov 30	18.6	Nov 13 15:00	-28.5	Nov 30 07:00	99.2		
December	744	-9.6	7.5	Dec 15	-21.3	Dec 21	12.2	Dec 15 16:00	-29.1	Dec 28 08:00	100.0		
Annual	8744	5.6	24.6	Jul 02	-28.8	Feb 18	33.1	Jul 02 17:00	-33.8	Feb 18 07:00	99.8		

Relative Humidity – Brooks Meadowplace 2025 Summary

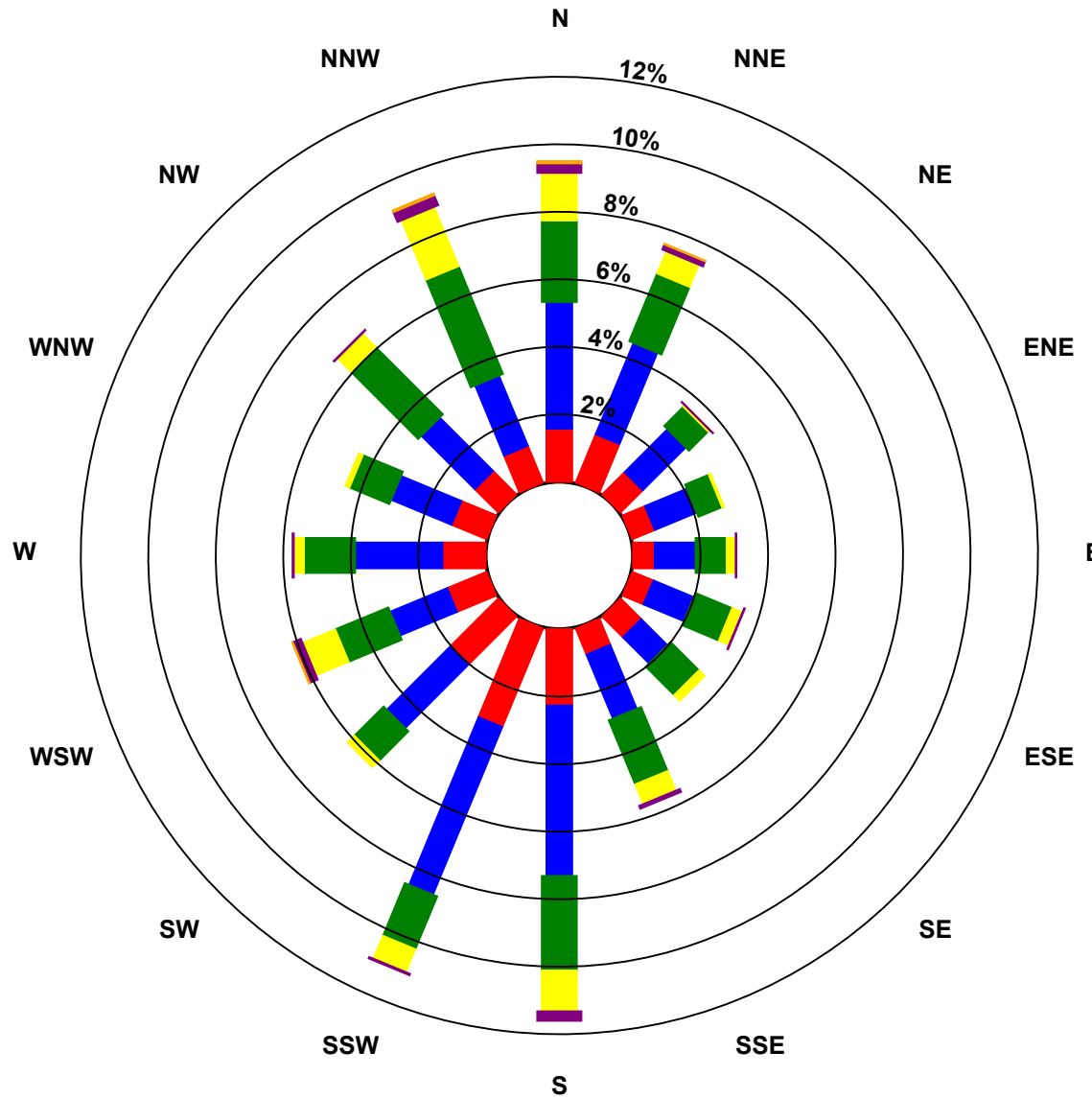
Brooks Meadowplace		Relative Humidity (%)									2025
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	744	76.9	92.8	Jan 31	52.5	Jan 27	99.8	Jan 11 22:00	39.2	Jan 27 13:00	100.0
February	672	73.2	85.1	Feb 07	52.0	Feb 27	99.4	Feb 26 00:00	29.7	Feb 27 14:00	100.0
March	743	76.5	94.7	Mar 16	45.1	Mar 09	100.0	Mar 02 01:00	20.5	Mar 09 16:00	99.9
April	720	59.8	93.3	Apr 21	35.9	Apr 11	100.0	Apr 02 09:00	14.8	Apr 11 14:00	100.0
May	744	56.3	88.7	May 18	29.1	May 10	100.0	May 14 03:00	14.4	May 03 16:00	100.0
June	720	58.6	99.2	Jun 21	29.6	Jun 10	100.0	Jun 12 20:00	16.0	Jun 08 15:00	100.0
July	743	71.9	99.0	Jul 22	49.2	Jul 02	100.0	Jul 14 05:00	21.0	Jul 08 18:00	99.9
August	719	67.7	90.8	Aug 03	46.0	Aug 27	100.0	Aug 04 05:00	15.9	Aug 18 17:00	96.6
September	719	56.5	73.4	Sep 10	40.9	Sep 27	99.7	Sep 19 07:00	14.7	Sep 06 17:00	99.9
October	740	61.7	85.3	Oct 12	42.6	Oct 29	100.0	Oct 12 00:00	20.8	Oct 23 16:00	99.5
November	714	80.1	99.6	Nov 18	44.6	Nov 10	100.0	Nov 08 05:00	14.9	Nov 02 15:00	99.2
December	744	83.1	95.3	Dec 31	71.8	Dec 15	100.0	Dec 17 11:00	48.7	Dec 16 17:00	100.0
Annual	8722	68.5	99.6	Nov 18	29.1	May 10	100.0	Mar 02 01:00	14.4	May 03 16:00	99.6

Wind Speed and Wind Direction Frequency Distribution – Brooks Meadowplace 2025 Summary

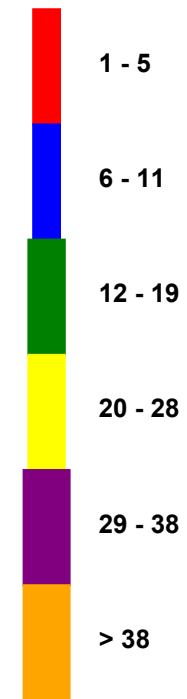
Brooks Meadowplace								2025
Direction	# of Readings	% of wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
N	815	1.57	3.75	2.41	1.41	0.28	0.07	9.50
NNE	647	1.55	2.93	2.17	0.71	0.16	0.02	7.54
NE	309	0.93	1.80	0.80	0.06	0.01	0.00	3.60
ENE	247	0.72	1.34	0.76	0.06	0.00	0.00	2.88
E	262	0.64	1.21	0.92	0.27	0.01	0.00	3.06
ESE	300	0.68	1.29	1.18	0.33	0.02	0.00	3.50
SE	290	0.86	1.10	1.19	0.23	0.00	0.00	3.38
SSE	486	0.84	2.05	2.05	0.63	0.09	0.00	5.67
S	995	2.26	5.05	2.80	1.21	0.28	0.00	11.60
SSW	944	3.16	5.38	1.69	0.73	0.05	0.00	11.01
SW	529	1.99	2.67	1.22	0.28	0.00	0.00	6.17
WSW	525	1.26	1.83	1.70	1.05	0.26	0.02	6.12
WSW	491	1.28	2.59	1.52	0.30	0.03	0.00	5.73
WNW	383	1.12	1.94	1.28	0.13	0.00	0.00	4.47
NW	568	0.98	2.24	2.82	0.56	0.02	0.00	6.62
NNW	785	1.18	2.25	3.45	1.90	0.31	0.06	9.15
Totals	8576	21.04	39.41	27.97	9.86	1.54	0.17	100

Wind Rose

Wind Speed (WS) (km/h)
Brooks Meadowplace - 2025



Wind Speed Classes (km/h)



PAS
HANNA
CONTINUOUS AMBIENT AIR MONITORING STATION
2025
SUMMARY TABLES

Nitric Oxide (NO) – Hanna 2025 Summary and Frequency Distribution

Hanna-Airpointer NO (ppb)												2025				
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	695	3.4	9.2	Jan 14	1.1	Jan 08	69.2	Jan 14 09:00	0.0	Jan 12 05:00	98.5	99.14	0.72	0.14	0.00	0.00
February	627	3.8	8.6	Feb 04	0.8	Feb 27	23.4	Feb 21 08:00	0.0	Feb 23 19:00	99.1	100.00	0.00	0.00	0.00	0.00
March	701	2.2	4.6	Mar 15	1.0	Mar 22	19.9	Mar 08 08:00	0.0	Mar 01 07:00	100.0	100.00	0.00	0.00	0.00	0.00
April	657	1.1	2.5	Apr 06	0.3	Apr 14	12.1	Apr 06 07:00	0.0	Apr 07 22:00	100.0	100.00	0.00	0.00	0.00	0.00
May	705	0.8	1.8	May 28	0.3	May 24	9.3	May 28 07:00	0.0	May 03 22:00	100.0	100.00	0.00	0.00	0.00	0.00
June	679	0.6	0.9	Jun 15	0.2	Jun 13	6.0	Jun 15 07:00	0.0	Jun 04 22:00	100.0	100.00	0.00	0.00	0.00	0.00
July	705	0.6	1.4	Jul 11	0.2	Jul 26	7.3	Jul 11 17:00	0.0	Jul 01 21:00	100.0	100.00	0.00	0.00	0.00	0.00
August	695	0.5	1.6	Aug 05	0.2	Aug 09	6.9	Aug 05 06:00	0.0	Aug 01 21:00	98.8	100.00	0.00	0.00	0.00	0.00
September	681	0.6	1.8	Sep 27	0.2	Sep 07	23.3	Sep 27 08:00	0.0	Sep 01 01:00	100.0	100.00	0.00	0.00	0.00	0.00
October	642	1.2	3.6	Oct 22	0.4	Oct 26	18.6	Oct 22 08:00	0.0	Oct 01 20:00	91.7	100.00	0.00	0.00	0.00	0.00
November	579	3.2	6.6	Nov 12	0.4	Nov 09	22.9	Nov 12 08:00	0.0	Nov 01 07:00	85.0	100.00	0.00	0.00	0.00	0.00
December	702	3.2	8.0	Dec 30	1.1	Dec 04	27.6	Dec 30 10:00	0.1	Dec 15 20:00	99.3	99.72	0.28	0.00	0.00	0.00
Annual	8068	1.8	9.2	Jan 14	0.2	Jun 13	69.2	Jan 14 09:00	0.0	Jan 12 05:00	97.7	99.91	0.08	0.01	0.00	0.00

No AAAQO

Nitrogen Dioxide (NO₂) – Hanna 2025 Summary and Frequency Distribution

Hanna-Airpointer NO ₂ (ppb)												2025						
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	695	7.7	15.6	Jan 14	2.5	Jan 24	55.8	Jan 14 09:00	1.0	Jan 17 01:00	98.5	0	97.55	2.30	0.14	0.00	0.00	
February	627	8.1	19.2	Feb 21	3.0	Feb 02	38.9	Feb 21 08:00	1.4	Feb 02 14:00	99.1		97.13	2.87	0.00	0.00	0.00	
March	701	5.1	11.2	Mar 02	2.5	Mar 31	31.0	Mar 08 08:00	0.9	Mar 30 16:00	100.0		99.86	0.14	0.00	0.00	0.00	
April	657	3.0	5.8	Apr 06	1.3	Apr 25	22.1	Apr 06 06:00	0.4	Apr 20 17:00	100.0		100.00	0.00	0.00	0.00	0.00	
May	705	2.5	7.3	May 28	1.2	May 04	25.7	May 28 05:00	0.0	May 30 11:00	100.0		99.86	0.14	0.00	0.00	0.00	
June	679	2.8	4.9	Jun 04	1.3	Jun 01	14.9	Jun 03 03:00	0.1	Jun 01 15:00	100.0		100.00	0.00	0.00	0.00	0.00	
July	705	1.7	2.4	Jul 11	1.2	Jul 27	7.2	Jul 18 05:00	0.0	Jul 30 10:00	100.0		100.00	0.00	0.00	0.00	0.00	
August	695	1.6	2.6	Aug 28	0.9	Aug 14	9.4	Aug 28 21:00	0.0	Aug 21 12:00	98.8		100.00	0.00	0.00	0.00	0.00	
September	681	2.3	4.2	Sep 30	1.0	Sep 28	19.6	Sep 27 08:00	0.0	Sep 26 11:00	100.0		100.00	0.00	0.00	0.00	0.00	
October	642	2.7	7.8	Oct 21	0.6	Oct 13	18.4	Oct 21 08:00	0.0	Oct 05 01:00	91.7		100.00	0.00	0.00	0.00	0.00	
November	579	6.5	10.9	Nov 25	1.7	Nov 02	27.2	Nov 04 18:00	0.4	Nov 02 16:00	85.0		99.65	0.35	0.00	0.00	0.00	
December	702	6.5	22.8	Dec 30	2.8	Dec 06	44.6	Dec 30 08:00	1.3	Dec 06 17:00	99.3		97.72	2.28	0.00	0.00	0.00	
Annual	8068	4.2	22.8	Dec 30	0.6	Oct 13	55.8	Jan 14 09:00	0.0	May 30 11:00	97.7	0	0	99.31	0.67	0.01	0.00	

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

Total Oxides of Nitrogen (NOx) – Hanna 2025 Summary and Frequency Distribution

Hanna-Airpointer NOx (ppb)												2025				
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	695	11.0	24.9	Jan 14	3.6	Jan 24	125.0	Jan 14 09:00	1.0	Jan 16 23:00	98.5	95.25	3.60	1.01	0.14	0.00
February	627	12.0	24.8	Feb 21	4.2	Feb 27	62.3	Feb 21 08:00	2.5	Feb 23 01:00	99.1	95.06	4.63	0.32	0.00	0.00
March	701	7.3	15.2	Mar 02	4.1	Mar 27	50.9	Mar 08 08:00	1.1	Mar 30 16:00	100.0	98.29	1.57	0.14	0.00	0.00
April	657	4.1	8.3	Apr 06	2.0	Apr 25	32.3	Apr 06 06:00	0.6	Apr 14 18:00	100.0	99.70	0.30	0.00	0.00	0.00
May	705	3.3	9.0	May 28	1.6	May 04	31.8	May 28 05:00	0.0	May 30 11:00	100.0	99.57	0.43	0.00	0.00	0.00
June	679	3.4	5.7	Jun 04	1.7	Jun 01	15.4	Jun 09 06:00	0.4	Jun 29 12:00	100.0	100.00	0.00	0.00	0.00	0.00
July	705	2.3	3.8	Jul 11	1.5	Jul 27	10.6	Jul 11 17:00	0.0	Jul 30 10:00	100.0	100.00	0.00	0.00	0.00	0.00
August	695	2.1	4.2	Aug 05	1.3	Aug 24	12.5	Aug 05 06:00	0.2	Aug 21 12:00	98.8	100.00	0.00	0.00	0.00	0.00
September	681	2.8	5.3	Sep 30	1.5	Sep 28	42.9	Sep 27 08:00	0.0	Sep 21 20:00	100.0	99.85	0.15	0.00	0.00	0.00
October	642	3.9	11.0	Oct 21	1.2	Oct 05	33.8	Oct 22 08:00	0.0	Oct 05 11:00	91.7	99.38	0.62	0.00	0.00	0.00
November	579	9.6	16.1	Nov 26	2.4	Nov 02	43.6	Nov 19 18:00	1.1	Nov 02 16:00	85.0	96.55	3.45	0.00	0.00	0.00
December	702	9.7	30.7	Dec 30	4.7	Dec 27	65.4	Dec 30 08:00	1.9	Dec 19 01:00	99.3	96.44	2.71	0.85	0.00	0.00
Annual	8068	6.0	30.7	Dec 30	1.2	Oct 05	125.0	Jan 14 09:00	0.0	May 30 11:00	97.7	98.34	1.46	0.19	0.01	0.00

No AAAQO

Ozone (O₃) – Hanna 2025 Summary and Frequency Distribution

Hanna-Airpointer O ₃ (ppb)												2025						
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	694	28.6	37.8	Jan 24	17.1	Jan 07	40.9	Jan 16 20:00	0.0	Jan 07 07:00	98.4	0	0.29	2.16	10.37	86.17	1.01	0.00
February	630	29.4	39.1	Feb 27	21.5	Feb 03	46.1	Feb 27 14:00	2.3	Feb 21 08:00	99.4	0	0.00	1.11	7.78	84.60	6.51	0.00
March	701	30.6	35.7	Mar 01	22.4	Mar 31	46.5	Mar 20 16:00	2.9	Mar 02 05:00	100.0	0	0.00	2.00	7.13	83.17	7.70	0.00
April	674	35.3	40.9	Apr 25	23.8	Apr 01	56.6	Apr 26 18:00	3.8	Apr 06 07:00	99.3	0	0.00	1.34	7.72	50.74	40.21	0.00
May	700	36.3	48.5	May 03	22.0	May 21	65.8	May 03 16:00	2.4	May 28 05:00	99.1	0	0.00	0.43	9.29	49.86	40.43	0.00
June	679	35.6	47.7	Jun 09	24.2	Jun 22	63.0	Jun 08 19:00	5.2	Jun 15 05:00	100.0	0	0.00	0.59	9.13	51.25	39.03	0.00
July	702	28.9	38.3	Jul 02	17.5	Jul 22	52.6	Jul 02 15:00	4.3	Jul 23 02:00	99.2	0	0.00	0.57	17.09	69.09	13.25	0.00
August	693	26.1	35.6	Aug 02	16.5	Aug 11	50.0	Aug 02 15:00	0.8	Aug 05 06:00	98.0	0	0.14	1.88	28.28	58.30	11.40	0.00
September	678	31.0	38.9	Sep 12	23.3	Sep 30	54.2	Sep 24 17:00	3.7	Sep 27 08:00	99.0	0	0.00	1.03	14.01	63.86	21.09	0.00
October	624	20.9	32.5	Oct 11	9.0	Oct 30	47.6	Oct 11 15:00	0.0	Oct 21 08:00	92.6	0	2.40	11.54	32.05	51.60	2.40	0.00
November	570	12.9	20.4	Nov 02	4.7	Nov 06	31.3	Nov 24 15:00	0.0	Nov 04 03:00	83.1	0	10.00	24.91	45.44	19.65	0.00	0.00
December	702	23.5	29.2	Dec 27	15.3	Dec 10	36.0	Dec 01 14:00	1.1	Dec 01 06:00	99.2	0	0.14	1.99	19.80	78.06	0.00	0.00
Annual	8047	28.2	48.5	May 03	4.7	Nov 06	65.8	May 03 16:00	0.0	Jan 07 07:00	97.3	0	1.08	4.13	17.34	62.20	15.25	0.00

AAAQO: 1-Hr: 76 ppb

Particulate Matter (PM_{2.5}) – Hanna 2025 Summary and Frequency Distribution

Hanna-Airpointer PM _{2.5} (µg/m ³)															2025				
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	742	4.9	18.6	Jan 06	0.2	Jan 17	147.3	Jan 19 05:00	0.0	Jan 17 02:00	100.0	0	1	34.77	54.18	8.49	2.16	0.27	0.13
February	626	4.9	13.2	Feb 21	1.9	Feb 23	46.2	Feb 06 22:00	0.0	Feb 07 21:00	93.3	0	0	29.87	56.71	12.78	0.48	0.16	0.00
March	743	4.3	9.0	Mar 18	1.5	Mar 28	23.8	Mar 02 18:00	0.8	Mar 28 10:00	100.0	0	0	18.17	75.50	6.19	0.13	0.00	0.00
April	716	3.3	6.8	Apr 23	2.0	Apr 21	15.9	Apr 02 01:00	0.1	Apr 28 04:00	99.6	0	0	24.16	74.58	1.26	0.00	0.00	0.00
May	741	5.3	19.1	May 12	1.5	May 19	69.8	May 31 22:00	0.8	May 19 09:00	99.9	0	0	15.92	74.90	5.80	2.56	0.81	0.00
June	719	11.2	53.4	Jun 12	2.0	Jun 01	92.7	Jun 11 10:00	0.9	Jun 14 10:00	100.0	4	5	16.97	53.82	14.05	8.76	5.70	0.70
July	742	6.8	26.1	Jul 16	1.7	Jul 04	37.3	Jul 14 16:00	1.2	Jul 09 09:00	100.0	0	0	22.24	56.33	16.85	4.58	0.00	0.00
August	734	5.4	17.3	Aug 09	1.4	Aug 07	38.1	Aug 09 10:00	0.0	Aug 13 23:00	98.8	0	0	29.56	55.31	11.17	3.95	0.00	0.00
September	718	11.4	41.4	Sep 01	0.8	Sep 22	104.1	Sep 01 21:00	0.1	Sep 22 03:00	100.0	1	4	13.65	44.43	24.65	15.74	0.97	0.56
October	734	3.9	9.6	Oct 02	0.4	Oct 18	39.8	Oct 16 13:00	0.0	Oct 05 02:00	99.1	0	0	30.25	62.94	6.13	0.68	0.00	0.00
November	717	5.2	12.8	Nov 26	1.3	Nov 02	117.6	Nov 04 23:00	0.0	Nov 19 10:00	99.7	0	1	29.99	57.46	10.18	2.23	0.00	0.14
December	742	5.3	13.4	Dec 25	0.3	Dec 06	71.0	Dec 18 01:00	0.0	Dec 05 10:00	100.0	0	0	32.88	53.23	13.07	0.67	0.13	0.00
Annual	8674	6.0	53.4	Jun 12	0.2	Jan 17	147.3	Jan 19 05:00	0.0	Jan 17 02:00	99.2	5	11	24.87	59.95	10.89	3.50	0.67	0.13

AAAQO: 24-Hr: 29 µg/m³, 1-Hr: 80 µg/m³

Ambient Temperature – Hanna 2025 Summary

Hanna-Airpointer Ambient Temperature (°C)												2025
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)	
January	743	-8.6	1.9	Jan 28	-26.1	Jan 19	5.0	Jan 16 11:00	-31.4	Jan 20 04:00	99.9	
February	670	-15.8	4.4	Feb 27	-31.8	Feb 18	8.5	Feb 27 12:00	-35.0	Feb 18 06:00	99.7	
March	744	-1.6	5.5	Mar 26	-13.0	Mar 15	11.6	Mar 24 16:00	-16.1	Mar 15 04:00	100.0	
April	720	6.1	11.6	Apr 11	-2.4	Apr 03	21.2	Apr 07 15:00	-8.8	Apr 04 04:00	100.0	
May	744	13.3	21.9	May 29	6.5	May 19	31.3	May 29 16:00	1.9	May 05 06:00	100.0	
June	720	15.8	21.1	Jun 30	8.9	Jun 21	28.2	Jun 09 16:00	4.6	Jun 24 05:00	100.0	
July	744	17.5	23.2	Jul 02	11.2	Jul 22	32.4	Jul 02 16:00	7.4	Jul 16 06:00	100.0	
August	735	18.8	23.0	Aug 27	13.5	Aug 15	31.6	Aug 26 17:00	8.1	Aug 21 06:00	98.8	
September	720	16.4	20.7	Sep 01	10.5	Sep 28	29.8	Sep 01 16:00	4.0	Sep 25 04:00	100.0	
October	739	6.3	12.5	Oct 07	-4.2	Oct 13	21.3	Oct 01 17:00	-8.0	Oct 13 07:00	99.3	
November	718	-2.4	10.9	Nov 01	-19.2	Nov 29	16.6	Nov 13 15:00	-23.6	Nov 30 04:00	99.7	
December	744	-12.7	1.4	Dec 04	-23.8	Dec 21	6.8	Dec 15 23:00	-27.7	Dec 28 06:00	100.0	
Annual	8741	4.4	23.2	Jul 02	-31.8	Feb 18	32.4	Jul 02 16:00	-35.0	Feb 18 06:00	99.8	

Relative Humidity – Hanna 2025 Summary

Hanna-Airpointer											2025
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	743	77.3	90.3	Jan 22	56.3	Jan 27	95.1	Jan 11 00:00	46.8	Jan 28 00:00	99.9
February	670	72.7	80.1	Feb 07	60.8	Feb 27	91.0	Feb 01 01:00	42.9	Feb 27 11:00	99.7
March	744	74.9	94.2	Mar 13	56.7	Mar 23	96.6	Mar 13 16:00	29.8	Mar 19 13:00	100.0
April	720	56.3	80.2	Apr 08	40.1	Apr 14	96.1	Apr 02 02:00	16.3	Apr 18 17:00	100.0
May	744	54.7	88.4	May 21	30.9	May 06	97.9	May 24 06:00	11.0	May 02 17:00	100.0
June	720	56.6	93.2	Jun 21	28.1	Jun 09	97.2	Jun 12 23:00	14.1	Jun 09 15:00	100.0
July	744	65.9	89.7	Jul 20	51.1	Jul 12	98.0	Jul 21 07:00	24.9	Jul 02 16:00	100.0
August	735	63.3	89.5	Aug 03	42.0	Aug 26	96.3	Aug 03 11:00	18.6	Aug 26 17:00	98.8
September	720	51.6	66.8	Sep 15	38.6	Sep 07	95.4	Sep 14 05:00	15.5	Sep 21 15:00	100.0
October	739	57.9	82.0	Oct 12	41.7	Oct 18	96.5	Oct 12 05:00	20.6	Oct 18 16:00	99.3
November	718	78.7	94.0	Nov 18	42.7	Nov 03	97.6	Nov 09 08:00	20.8	Nov 02 16:00	99.7
December	744	81.5	93.8	Dec 30	71.3	Dec 08	97.4	Dec 30 00:00	51.1	Dec 08 14:00	100.0
Annual	8741	65.9	94.2	Mar 13	28.1	Jun 09	98.0	Jul 21 07:00	11.0	May 02 17:00	99.8

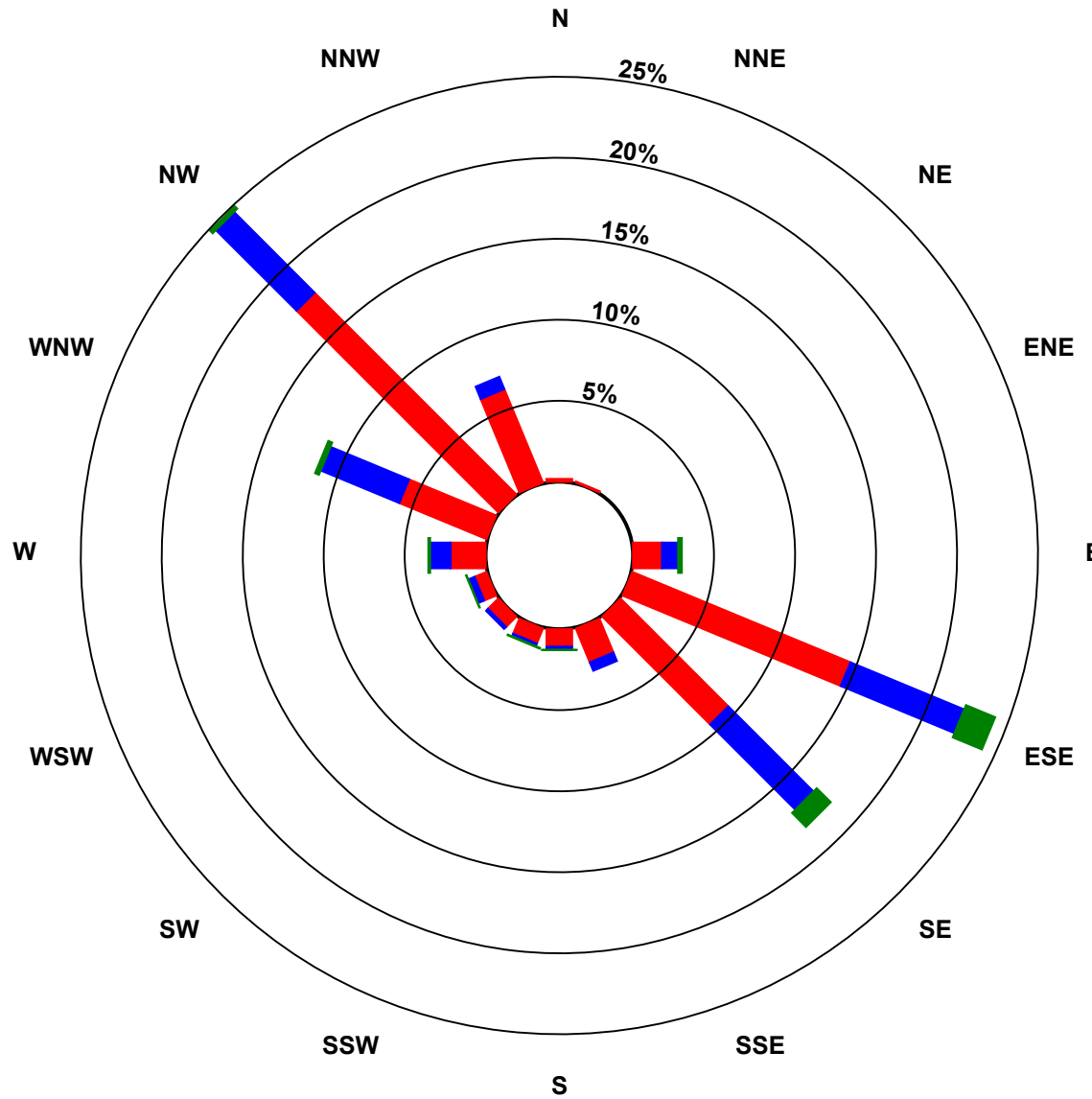
Wind Speed and Wind Direction Frequency Distribution – Hanna 2025 Summary

Hanna								2025
Direction	# of Readings	Wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
N	13	0.19	0.00	0.00	0.00	0.00	0.00	0.19
NNE	5	0.07	0.00	0.00	0.00	0.00	0.00	0.07
NE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ENE	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E	211	1.79	0.99	0.24	0.00	0.00	0.00	3.02
ESE	1687	14.58	7.60	1.96	0.00	0.00	0.00	24.13
SE	1263	9.41	7.42	1.23	0.00	0.00	0.00	18.07
SSE	198	2.26	0.57	0.00	0.00	0.00	0.00	2.83
S	90	1.07	0.20	0.01	0.00	0.00	0.00	1.29
SSW	86	1.00	0.17	0.06	0.00	0.00	0.00	1.23
SW	75	0.89	0.19	0.00	0.00	0.00	0.00	1.07
WSW	88	0.80	0.41	0.04	0.00	0.00	0.00	1.26
WSW	248	2.16	1.27	0.11	0.00	0.00	0.00	3.55
WNW	793	5.82	5.25	0.27	0.00	0.00	0.00	11.34
NW	1739	17.61	7.04	0.23	0.00	0.00	0.00	24.88
NNW	494	6.24	0.83	0.00	0.00	0.00	0.00	7.07
Totals	6990	63.89	31.95	4.16	0.00	0.00	0.00	100

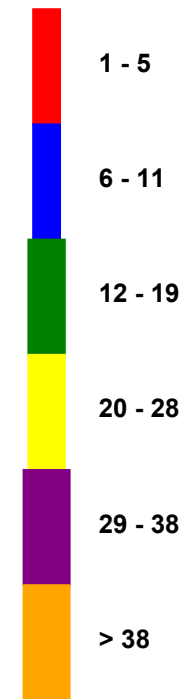
Wind Rose

Wind Speed (WS) (km/h)

Hanna AP - 2025



Wind Speed Classes (km/h)



PAS
RAYMOND
CONTINUOUS AMBIENT AIR MONITORING STATION

2025
SUMMARY TABLES

Nitric Oxide (NO) – Raymond 2025 Summary and Frequency Distribution

Raymond-Airpointer NO (ppb)												2025				
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	656	0.2	0.6	Jan 05	0.0	Jan 25	6.7	Jan 31 11:00	0.0	Jan 02 00:00	93.2	100.00	0.00	0.00	0.00	
February	634	0.2	0.4	Feb 05	0.0	Feb 22	2.0	Feb 05 11:00	0.0	Feb 01 01:00	100.0	100.00	0.00	0.00	0.00	
March	704	0.2	0.5	Mar 27	0.1	Mar 01	4.1	Mar 26 08:00	0.0	Mar 01 02:00	100.0	100.00	0.00	0.00	0.00	
April	681	0.2	0.5	Apr 07	0.1	Apr 18	7.5	Apr 07 08:00	0.0	Apr 04 02:00	100.0	100.00	0.00	0.00	0.00	
May	704	0.3	0.9	May 09	0.0	May 06	10.0	May 22 08:00	0.0	May 05 01:00	100.0	100.00	0.00	0.00	0.00	
June	682	0.3	0.9	Jun 04	0.0	Jun 21	8.6	Jun 04 14:00	0.0	Jun 01 01:00	100.0	100.00	0.00	0.00	0.00	
July	667	0.3	1.0	Jul 31	0.1	Jul 12	11.6	Jul 31 06:00	0.0	Jul 03 04:00	94.8	100.00	0.00	0.00	0.00	
August	704	0.3	1.4	Aug 28	0.0	Aug 17	16.4	Aug 28 07:00	0.0	Aug 02 02:00	100.0	100.00	0.00	0.00	0.00	
September	666	0.4	1.9	Sep 17	0.0	Sep 27	29.7	Sep 18 07:00	0.0	Sep 01 01:00	97.5	99.70	0.30	0.00	0.00	
October	700	0.2	1.2	Oct 10	0.0	Oct 25	10.9	Oct 10 09:00	0.0	Oct 01 03:00	99.1	100.00	0.00	0.00	0.00	
November	648	0.3	1.0	Nov 18	0.0	Nov 16	8.4	Nov 27 11:00	0.0	Nov 02 00:00	94.9	100.00	0.00	0.00	0.00	
December	0	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	
Annual	7446	0.3	1.9	Sep 17	0.0	Nov 16	29.7	Sep 18 07:00	0.0	Jan 02 00:00	89.9	99.97	0.03	0.00	0.00	

No AAAQO

Nitrogen Dioxide (NO₂) – Raymond 2025 Summary and Frequency Distribution

Raymond-Airpointer NO ₂ (ppb)												2025						
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	656	2.3	4.7	Jan 06	0.9	Jan 16	11.3	Jan 24 10:00	0.0	Jan 16 14:00	93.2	0	100.00	0.00	0.00	0.00	0.00	
February	634	2.6	5.4	Feb 05	0.6	Feb 27	13.0	Feb 20 06:00	0.4	Feb 27 14:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
March	704	1.5	2.5	Mar 14	0.5	Mar 09	7.0	Mar 11 08:00	0.2	Mar 09 12:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
April	681	1.6	3.4	Apr 26	0.7	Apr 08	12.6	Apr 27 00:00	0.3	Apr 08 18:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
May	704	2.8	5.0	May 28	1.4	May 19	17.1	May 11 22:00	0.4	May 08 16:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
June	682	2.6	6.2	Jun 11	1.2	Jun 29	17.1	Jun 08 04:00	0.5	Jun 13 17:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
July	667	1.6	2.4	Jul 15	0.9	Jul 24	5.2	Jul 31 06:00	0.3	Jul 31 13:00	94.8	0	100.00	0.00	0.00	0.00	0.00	
August	704	1.3	2.2	Aug 29	0.6	Aug 17	13.1	Aug 28 07:00	0.0	Aug 28 09:00	100.0	0	100.00	0.00	0.00	0.00	0.00	
September	666	1.9	3.8	Sep 10	0.7	Sep 21	19.9	Sep 18 07:00	0.2	Sep 21 17:00	97.5	0	100.00	0.00	0.00	0.00	0.00	
October	700	1.2	2.9	Oct 09	0.6	Oct 29	8.7	Oct 31 09:00	0.2	Oct 26 12:00	99.1	0	100.00	0.00	0.00	0.00	0.00	
November	648	2.0	6.9	Nov 28	0.4	Nov 01	15.0	Nov 28 07:00	0.2	Nov 01 16:00	94.9	0	100.00	0.00	0.00	0.00	0.00	
December	0	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-		
Annual	7446	2.0	6.9	Nov 28	0.4	Nov 01	19.9	Sep 18 07:00	0.0	Aug 28 09:00	89.9	0	0	100.00	0.00	0.00	0.00	

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

Total Oxides of Nitrogen (NOx) – Raymond 2025 Summary and Frequency Distribution

Raymond-Airpointer NOx (ppb)												2025				
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	656	2.5	5.1	Jan 06	1.0	Jan 16	17.6	Jan 31 11:00	0.3	Jan 16 12:00	93.2	100.00	0.00	0.00	0.00	0.00
February	634	2.8	5.8	Feb 05	0.8	Feb 27	13.4	Feb 20 06:00	0.5	Feb 28 14:00	100.0	100.00	0.00	0.00	0.00	0.00
March	704	1.7	2.8	Mar 14	0.6	Mar 09	10.1	Mar 26 08:00	0.3	Mar 13 16:00	100.0	100.00	0.00	0.00	0.00	0.00
April	681	1.9	3.8	Apr 26	0.9	Apr 08	15.1	Apr 07 08:00	0.4	Apr 13 15:00	100.0	100.00	0.00	0.00	0.00	0.00
May	704	3.1	5.7	May 28	1.6	May 19	21.5	May 09 02:00	0.5	May 09 17:00	100.0	100.00	0.00	0.00	0.00	0.00
June	682	2.9	6.4	Jun 11	1.3	Jun 29	17.4	Jun 08 04:00	0.5	Jun 13 17:00	100.0	100.00	0.00	0.00	0.00	0.00
July	667	1.9	2.9	Jul 15	1.1	Jul 11	16.8	Jul 31 06:00	0.4	Jul 30 17:00	94.8	100.00	0.00	0.00	0.00	0.00
August	704	1.6	3.4	Aug 28	0.6	Aug 17	29.5	Aug 28 07:00	0.0	Aug 28 09:00	100.0	99.86	0.14	0.00	0.00	0.00
September	666	2.3	5.3	Sep 10	0.8	Sep 21	49.6	Sep 18 07:00	0.3	Sep 21 17:00	97.5	99.70	0.30	0.00	0.00	0.00
October	700	1.5	3.9	Oct 10	0.6	Oct 25	19.5	Oct 10 09:00	0.2	Oct 29 03:00	99.1	100.00	0.00	0.00	0.00	0.00
November	648	2.3	7.6	Nov 28	0.5	Nov 01	20.3	Nov 12 12:00	0.2	Nov 10 04:00	94.9	100.00	0.00	0.00	0.00	0.00
December	0	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-
Annual	7446	2.2	7.6	Nov 28	0.5	Nov 01	49.6	Sep 18 07:00	0.0	Aug 28 09:00	89.9	99.96	0.04	0.00	0.00	0.00

No AAAQO

Ozone (O₃) – Raymond 2025 Summary and Frequency Distribution

Raymond-Airpointer O ₃ (ppb)												2025						
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	656	31.8	39.4	Jan 07	18.7	Jan 06	44.5	Jan 08 04:00	3.7	Jan 31 09:00	93.2	0	0.00	0.76	5.95	84.45	8.84	0.00
February	634	32.7	40.7	Feb 27	21.4	Feb 01	46.0	Feb 28 15:00	15.8	Feb 01 02:00	100.0	0	0.00	0.00	2.52	88.01	9.46	0.00
March	704	32.4	42.2	Mar 22	22.4	Mar 31	53.2	Mar 01 15:00	11.4	Mar 06 03:00	100.0	0	0.00	0.00	5.40	72.16	22.44	0.00
April	681	35.8	45.4	Apr 11	22.2	Apr 01	54.4	Apr 12 15:00	4.4	Apr 28 06:00	100.0	0	0.00	1.62	3.96	58.30	36.12	0.00
May	704	34.8	44.7	May 03	22.3	May 18	58.4	May 03 16:00	1.8	May 09 02:00	100.0	0	0.14	2.98	9.80	50.00	37.07	0.00
June	682	32.8	44.7	Jun 11	22.5	Jun 24	70.5	Jun 11 17:00	5.4	Jun 24 04:00	100.0	0	0.00	1.61	11.29	62.46	24.63	0.00
July	668	24.3	33.1	Jul 25	12.8	Jul 22	46.5	Jul 29 14:00	3.2	Jul 16 00:00	94.9	0	0.00	5.39	31.14	57.93	5.54	0.00
August	702	27.1	35.8	Aug 20	19.6	Aug 08	48.0	Aug 31 14:00	3.9	Aug 30 06:00	99.1	0	0.00	2.71	24.93	61.54	10.83	0.00
September	666	30.6	41.6	Sep 14	25.0	Sep 10	51.8	Sep 08 15:00	3.9	Sep 05 07:00	97.2	0	0.00	2.85	14.56	60.66	21.92	0.00
October	701	26.7	36.2	Oct 25	13.1	Oct 14	43.1	Oct 11 13:00	4.1	Oct 10 08:00	98.9	0	0.00	3.28	21.68	73.18	1.85	0.00
November	648	26.0	35.9	Nov 11	9.0	Nov 18	43.5	Nov 10 15:00	1.4	Nov 28 07:00	94.6	0	0.15	6.33	18.36	74.23	0.93	0.00
December	0	-	-	-	-	-	-	-	-	-	0.0	-	-	-	-	-	-	0.00
Annual	7446	30.5	45.4	Apr 11	9.0	Nov 18	70.5	Jun 11 17:00	1.4	Nov 28 07:00	89.8	0	0.03	2.50	13.60	67.54	16.33	0.00

AAAQO: 1-Hr: 76 ppb

Particulate Matter (PM_{2.5}) – Raymond 2025 Summary and Frequency Distribution

Raymond-Airpointer PM _{2.5} (µg/m ³)														2025					
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	689	5.2	14.3	Jan 06	1.3	Jan 29	28.3	Jan 06 22:00	0.0	Jan 10 15:00	92.7	0	0	15.97	71.84	11.61	0.58	0.00	0.00
February	671	5.0	13.2	Feb 09	0.8	Feb 23	27.4	Feb 08 19:00	0.0	Feb 20 16:00	100.0	0	0	21.01	71.39	5.81	1.79	0.00	0.00
March	716	4.7	8.6	Mar 02	1.4	Mar 23	20.8	Mar 02 19:00	0.0	Mar 01 14:00	96.4	0	0	15.22	79.47	5.03	0.28	0.00	0.00
April	657	3.9	10.7	Apr 10	1.9	Apr 16	24.8	Apr 10 12:00	0.0	Apr 09 03:00	91.4	0	0	32.88	63.32	3.20	0.61	0.00	0.00
May	623	3.9	9.7	May 30	0.6	May 20	54.8	May 30 10:00	0.0	May 15 05:00	83.9	0	0	38.36	56.02	4.82	0.48	0.32	0.00
June	718	12.4	94.6	Jun 11	1.5	Jun 01	138.3	Jun 11 05:00	0.0	Jun 02 08:00	100.0	3	13	16.43	54.74	13.37	7.80	5.85	1.81
July	643	8.3	20.8	Jul 15	3.6	Jul 19	103.6	Jul 15 00:00	0.8	Jul 26 04:00	86.7	0	3	1.87	78.38	14.93	3.27	1.09	0.47
August	743	6.3	17.3	Aug 13	0.7	Aug 17	192.1	Aug 13 17:00	0.0	Aug 13 22:00	100.0	0	3	27.05	56.53	12.52	2.96	0.54	0.40
September	695	14.4	65.9	Sep 02	2.2	Sep 22	134.2	Sep 02 07:00	0.0	Sep 22 06:00	96.7	3	7	7.77	42.73	29.35	13.96	5.18	1.01
October	737	4.0	9.7	Oct 09	0.6	Oct 05	45.2	Oct 09 18:00	0.0	Oct 01 01:00	99.7	0	0	35.69	56.17	7.33	0.68	0.14	0.00
November	719	5.1	19.3	Nov 28	0.3	Nov 16	63.9	Nov 12 18:00	0.0	Nov 01 17:00	100.0	0	0	47.01	38.94	9.04	4.17	0.83	0.00
December	610	4.5	17.1	Dec 26	0.6	Dec 16	32.6	Dec 25 15:00	0.0	Dec 02 03:00	82.3	0	0	52.95	30.82	10.98	5.25	0.00	0.00
Annual	8221	6.5	94.6	Jun 11	0.3	Nov 16	192.1	Aug 13 17:00	0.0	Jan 10 15:00	94.1	6	26	26.02	58.36	10.67	3.49	1.16	0.31

AAAQO: 24-Hr: 29 µg/m³, 1-Hr: 80 µg/m³

Ambient Temperature – Raymond 2025 Summary

Raymond-Airpointer Ambient Temperature (°C)											2025
Month	# of Readings	Average	24-hr Maximum	Date	24-hr Minimum	Date	1-hr Maximum	Date	1-hr Minimum	Date	Operational Time (%)
January	696	-3.7	6.2	Jan 29	-16.2	Jan 18	12.4	Jan 29 15:00	-21.4	Jan 19 01:00	93.6
February	672	-11.1	9.3	Feb 27	-24.6	Feb 03	15.2	Feb 27 13:00	-29.5	Feb 10 09:00	100.0
March	744	2.2	11.4	Mar 24	-6.2	Mar 15	17.2	Mar 01 16:00	-9.6	Mar 15 00:00	100.0
April	720	6.7	13.5	Apr 15	-2.6	Apr 03	20.2	Apr 15 17:00	-8.2	Apr 04 07:00	100.0
May	744	13.7	22.9	May 31	6.0	May 15	32.1	May 31 15:00	-0.1	May 22 05:00	100.0
June	720	15.6	24.1	Jun 09	7.7	Jun 21	31.3	Jun 09 14:00	3.4	Jun 23 05:00	100.0
July	706	17.5	23.4	Jul 02	11.4	Jul 22	32.7	Jul 02 16:00	5.9	Jul 16 05:00	94.9
August	744	18.9	22.8	Aug 26	13.7	Aug 08	32.0	Aug 26 16:00	6.3	Aug 23 06:00	100.0
September	707	16.8	20.4	Sep 29	11.1	Sep 28	30.8	Sep 01 16:00	2.5	Sep 05 07:00	98.2
October	742	7.4	13.9	Oct 07	-1.8	Oct 13	23.5	Oct 07 16:00	-6.9	Oct 31 08:00	99.7
November	720	2.0	13.9	Nov 13	-18.3	Nov 29	20.1	Nov 13 14:00	-26.2	Nov 30 03:00	100.0
December	611	-5.0	8.3	Dec 15	-19.8	Dec 27	11.6	Dec 15 14:00	-27.1	Dec 27 22:00	82.1
Annual	8526	6.8	24.1	Jun 09	-24.6	Feb 03	32.7	Jul 02 16:00	-29.5	Feb 10 09:00	97.4

Relative Humidity – Raymond 2025 Summary

Raymond-Airpointer											2025
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	696	68.8	92.7	Jan 01	30.4	Jan 29	100.0	Jan 01 01:00	17.6	Jan 29 15:00	93.6
February	672	68.6	90.9	Feb 01	38.9	Feb 27	100.0	Feb 01 04:00	24.1	Feb 27 13:00	100.0
March	744	65.5	96.3	Mar 16	34.4	Mar 09	100.0	Mar 03 12:00	15.5	Mar 01 15:00	100.0
April	720	55.7	89.3	Apr 20	31.6	Apr 11	100.0	Apr 03 03:00	14.0	Apr 11 16:00	100.0
May	744	54.2	91.7	May 15	31.4	May 03	100.0	May 16 02:00	13.1	May 08 16:00	100.0
June	720	58.9	95.0	Jun 21	35.3	Jun 09	99.7	Jun 21 01:00	17.0	Jun 19 16:00	100.0
July	706	70.7	97.9	Jul 22	45.4	Jul 09	100.0	Jul 14 04:00	22.1	Jul 03 17:00	94.9
August	744	59.0	83.9	Aug 08	34.8	Aug 26	99.6	Aug 30 06:00	15.7	Aug 27 17:00	100.0
September	707	54.4	74.6	Sep 10	31.7	Sep 06	100.0	Sep 05 04:00	13.6	Sep 25 15:00	98.2
October	742	58.0	86.0	Oct 12	40.0	Oct 23	100.0	Oct 12 00:00	20.8	Oct 25 16:00	99.7
November	720	66.9	98.1	Nov 24	40.8	Nov 10	100.0	Nov 14 19:00	21.3	Nov 02 13:00	100.0
December	611	72.8	92.3	Dec 11	47.4	Dec 31	100.0	Dec 11 02:00	32.3	Dec 31 14:00	82.1
Annual	8526	62.8	98.1	Nov 24	30.4	Jan 29	100.0	Jan 01 01:00	13.1	May 08 16:00	97.4

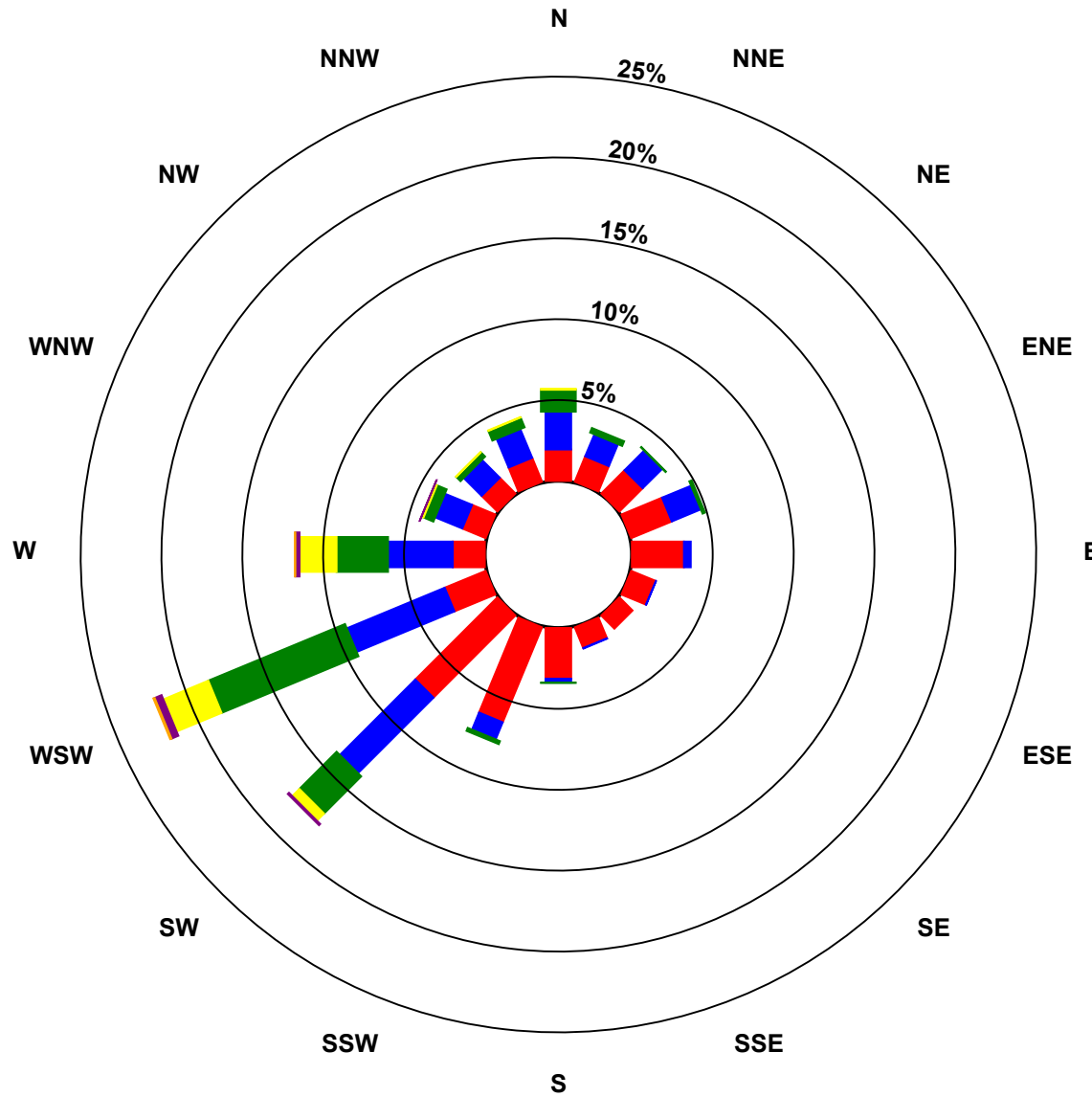
Wind Speed and Wind Direction Frequency Distribution – Raymond 2025 Summary

Raymond								2025
Direction	# of Readings	% of wind speed (km/h)						Totals
		1-5	6-11	12-19	20-28	29-38	>38	
N	454	1.95	2.34	1.36	0.06	0.00	0.00	5.70
NNE	277	1.70	1.47	0.31	0.00	0.00	0.00	3.48
NE	301	2.04	1.71	0.04	0.00	0.00	0.00	3.78
ENE	384	2.71	1.95	0.16	0.00	0.00	0.00	4.83
E	290	3.22	0.43	0.00	0.00	0.00	0.00	3.64
ESE	132	1.65	0.01	0.00	0.00	0.00	0.00	1.66
SE	91	1.14	0.00	0.00	0.00	0.00	0.00	1.14
SSE	113	1.38	0.04	0.00	0.00	0.00	0.00	1.42
S	270	3.13	0.25	0.01	0.00	0.00	0.00	3.39
SSW	613	6.36	1.14	0.20	0.00	0.00	0.00	7.70
SW	1413	7.18	6.60	3.25	0.63	0.10	0.00	17.76
WSW	1751	2.74	6.55	9.16	3.00	0.46	0.09	22.00
WSW	935	1.99	4.01	3.18	2.29	0.26	0.03	11.75
WNW	333	1.56	1.82	0.65	0.14	0.01	0.00	4.18
NW	266	1.37	1.57	0.38	0.03	0.00	0.00	3.34
NNW	335	1.60	1.92	0.65	0.04	0.00	0.00	4.21
Totals	7958	41.69	31.80	19.36	6.18	0.84	0.11	100

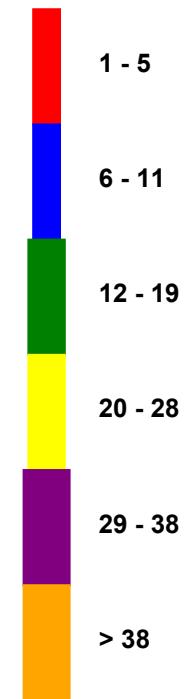
Wind Rose

Wind Speed (WS) (km/h)

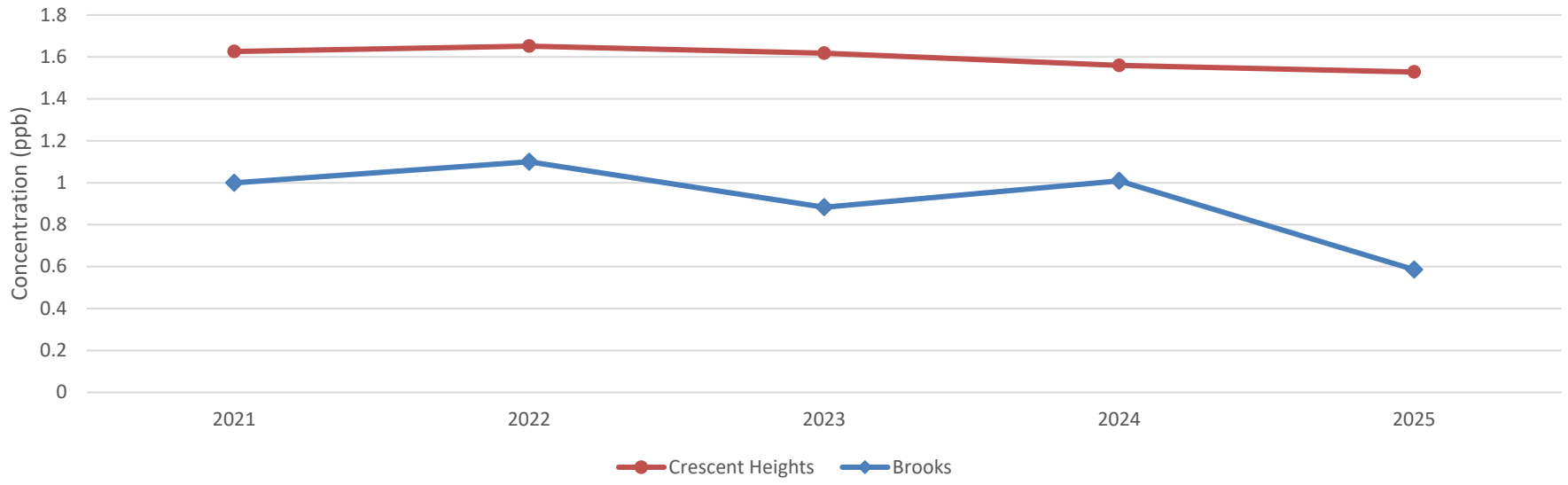
Raymond AP - 2025



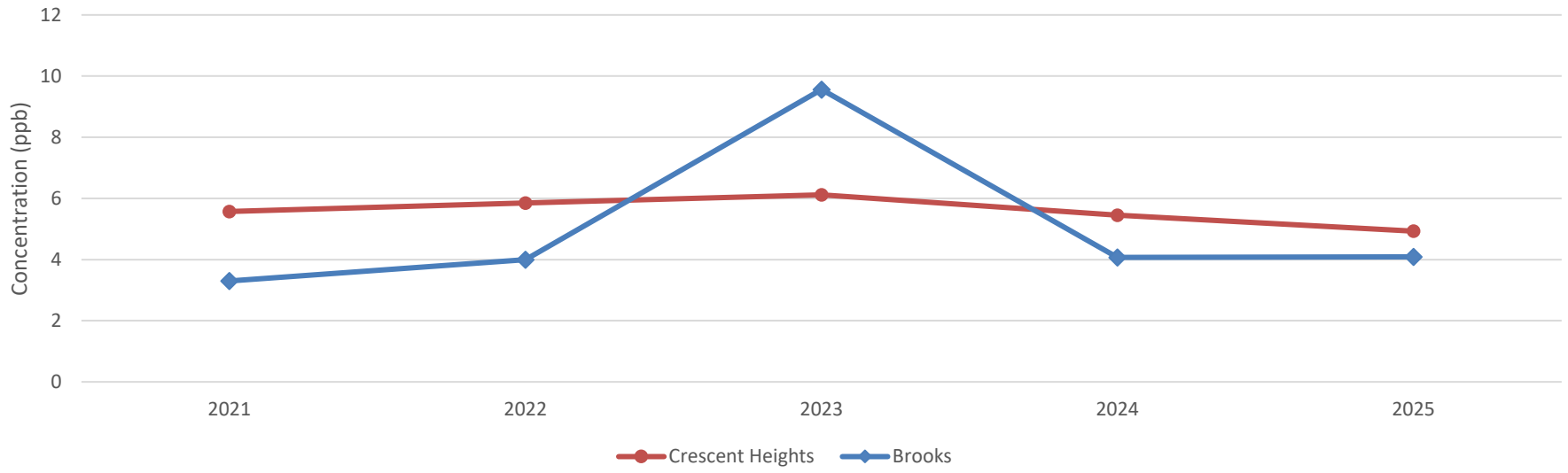
Wind Speed Classes (km/h)



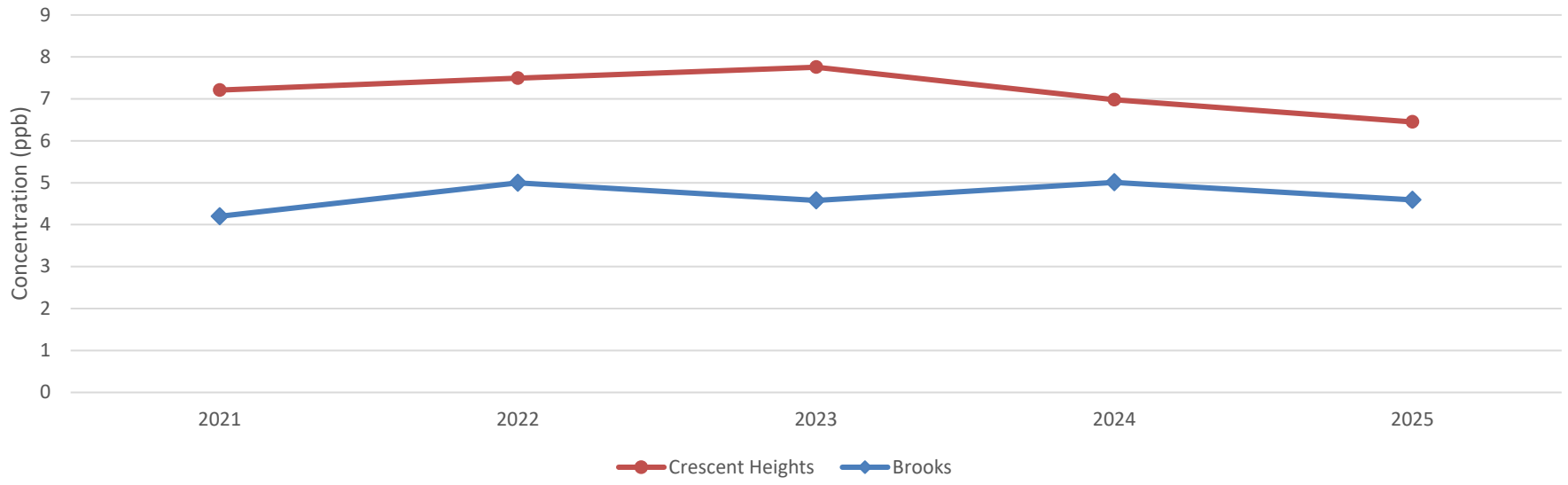
5-Year Annual Average NO



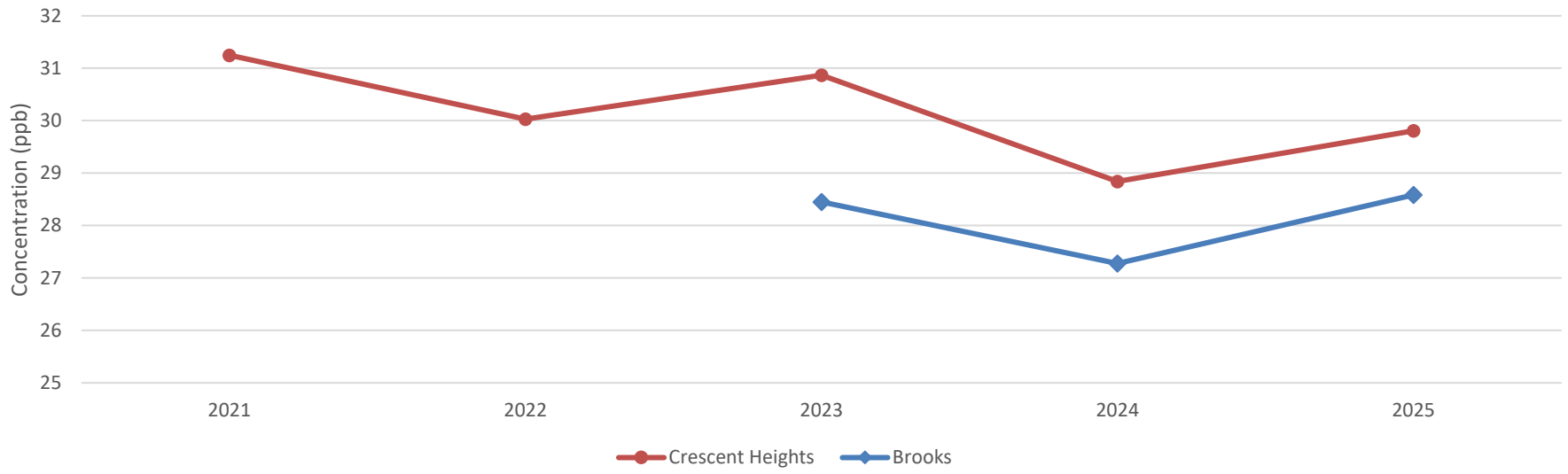
5-Year Annual Average NO₂



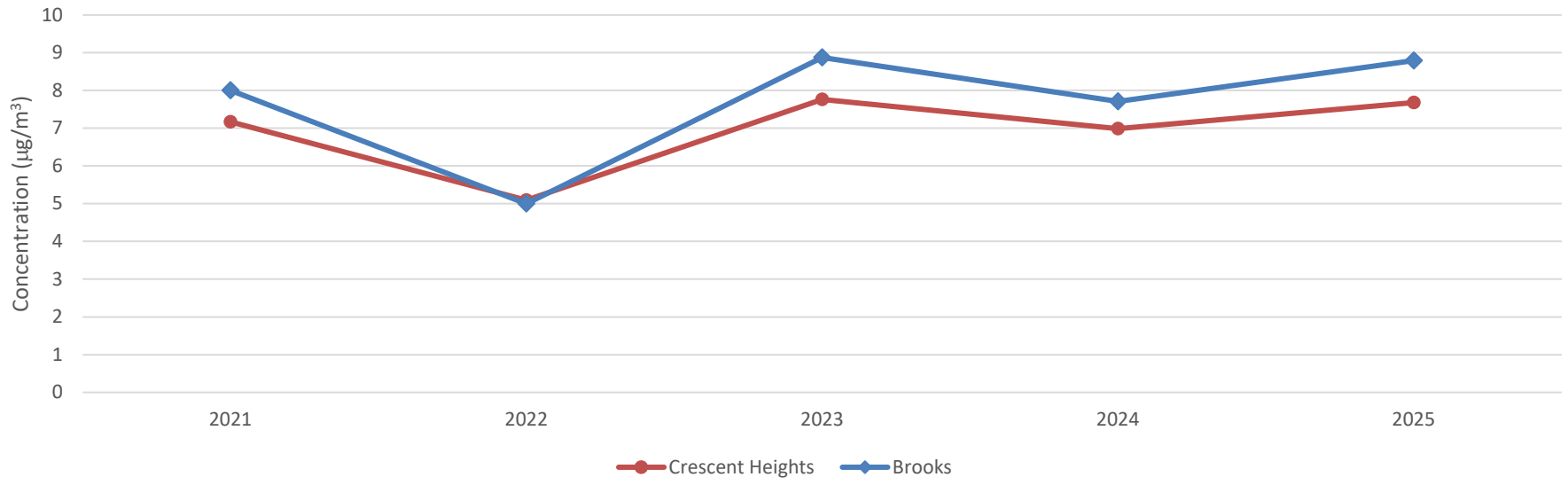
5-Year Annual Average NOx



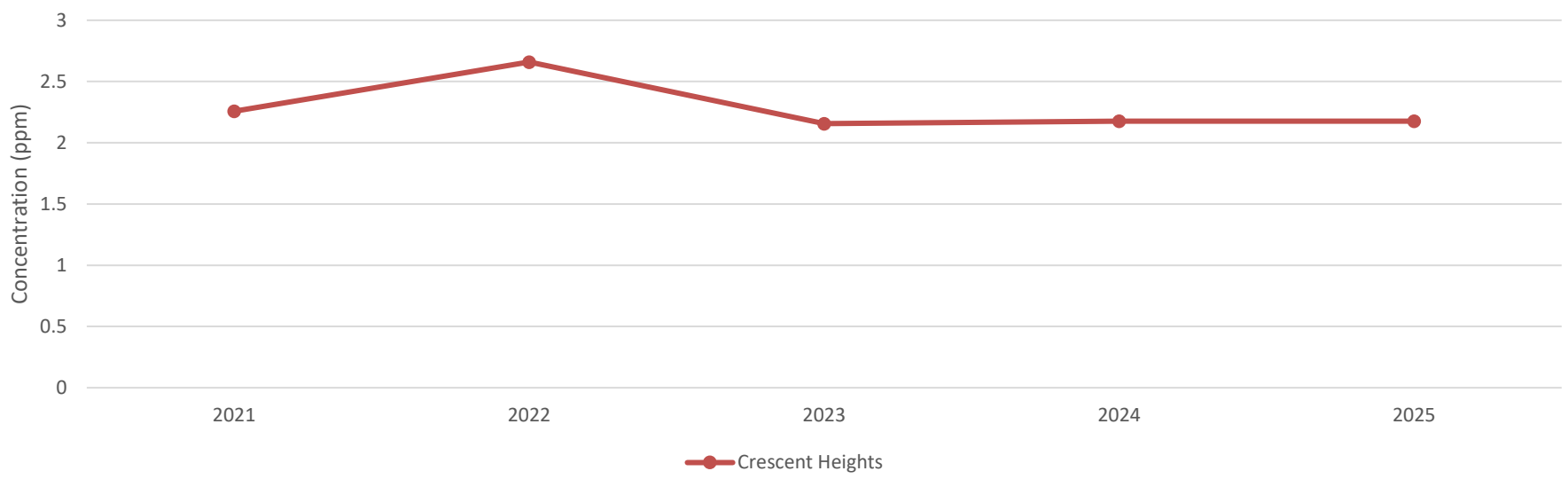
5-Year Annual Average O₃



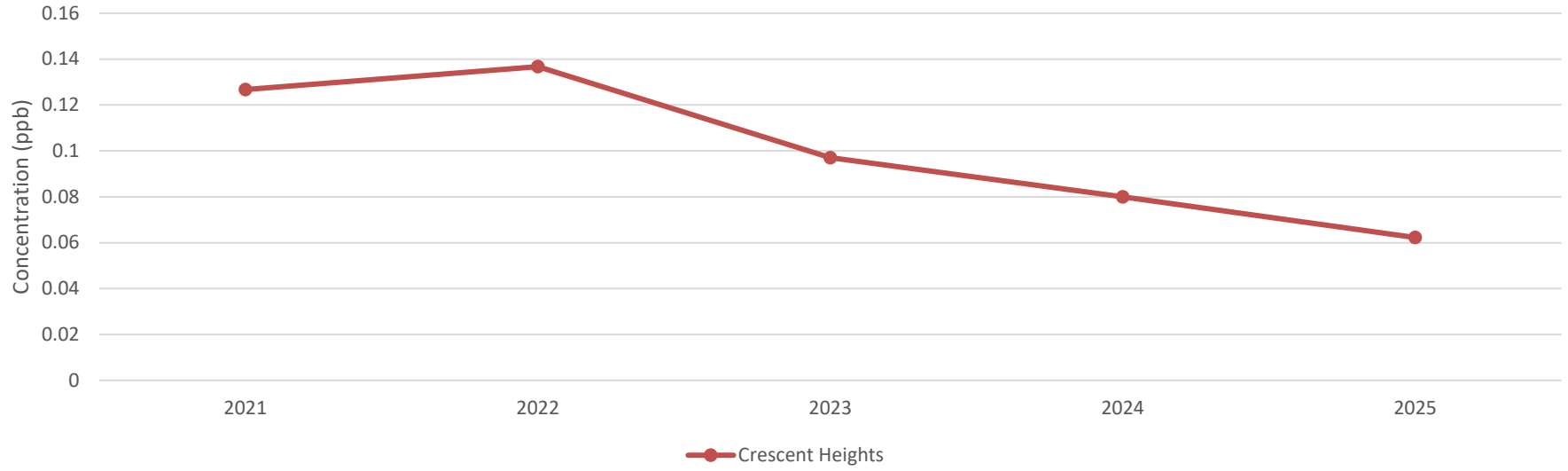
5-Year Annual Average PM_{2.5}



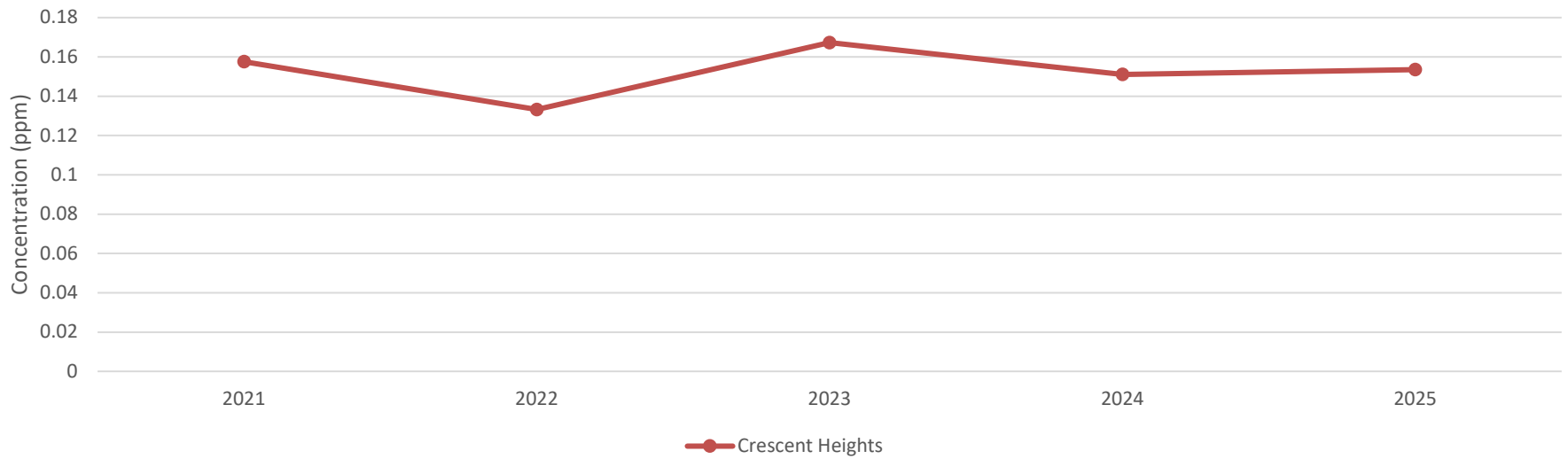
5-Year Annual Average THC

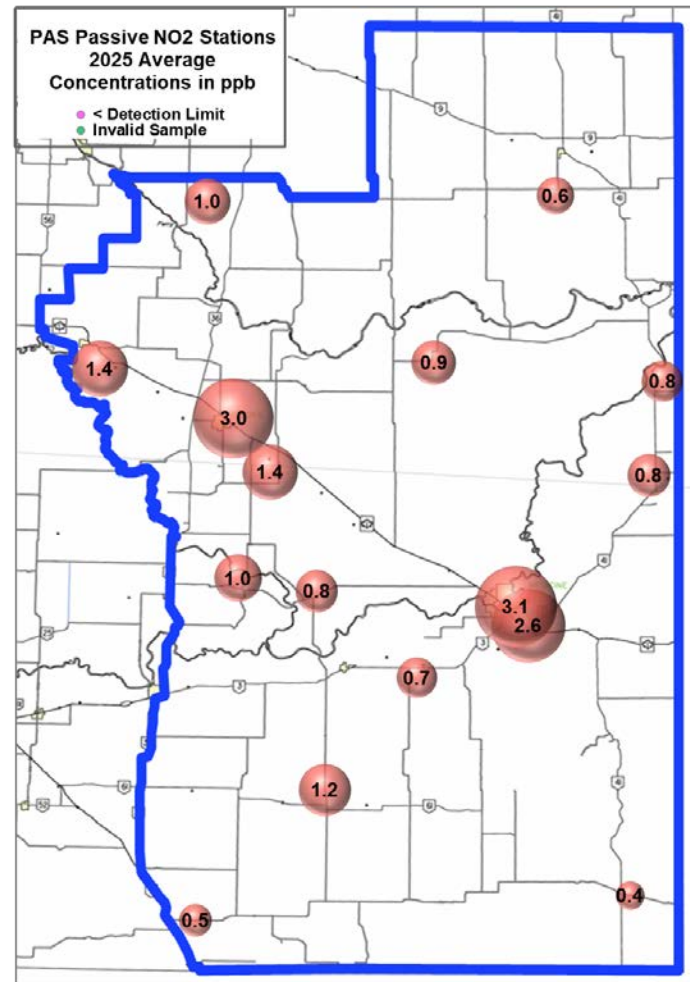
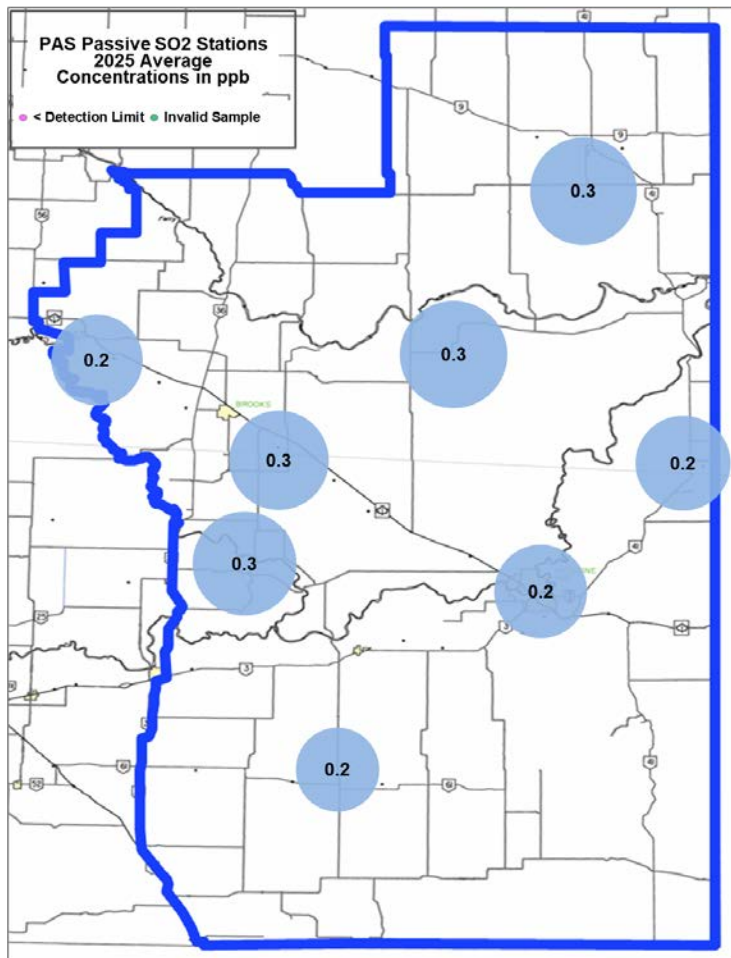


5-Year Annual Average SO₂



5-Year Annual Average CO





Palliser Airshed Society - Palliser Passive Stations for 2025

Station Number	Station Name	SO2 ppb	NO2 ppb
1	Site 1	0.2	0.8
2	Site 2	N/A	0.8
3	Site 3	0.3	0.6
6	Site 6	N/A	1.0
7	Site 7	0.2	1.4
8	Site 8	0.3	0.9
11	Site 11 - Brooks	N/A	3.0
12	Site 12	0.3	1.4
13	Site 13	N/A	0.8
14	Site 14	N/A	0.7
15	Site 15	0.2	1.2
17	Site 17	N/A	0.4
18	Site 18 - Christian School Park	N/A	2.6
19	Site 19 - Monitoring Station	0.2	3.1
21	Site 21	0.3	1.0
23	Site 23	0.0	0.5

BDL = Below Detection Limit

Stats:

	SO2	NO2
Mean	0.2	1.3
Standard Deviation	0.1	0.9
Minimum	0.0	0.4
Minimum Site	Site 23	Site 18 - Christian School Park
Maximum	0.3	3.1
Maximum Site	Site 3	Site 20 - Redcliff

PAS

**2025 Annual Report
End of Report**