

Capital Power

AIR QUALITY MONITORING **January 2018** **Monthly Report**

Prepared by:

West Central Airshed Society
Drayton Valley, Alberta

February 15, 2018

Capital Power
Mr. Kevin Parry
Box 20, Site 2, RR 1
Warburg, AB T0C 2T0

Dear Mr. Parry:

Monthly Ambient Air Quality Monitoring Report for January 2018 for Capital Power

Enclosed are the reports for the continuous ambient air quality monitoring station of the West Central Airshed Society network.

Network Station is AMS 910 Genesee
Identified as:

The person responsible for this reporting is Gary Redmond, Executive Director of West Central Airshed Society.

The following operational notes are included as required by the Air Monitoring Directive:

1. Concentrations in excess of the Clean Air (Maximum Levels) Regulation:

There were no readings in excess of guidelines as indicated in Air Monitoring Directive Section III.A.3. (a&b) for SO₂, NO₂ or PM_{2.5}.

2. Operational times less than 90 percent:

There were no operational times less than 90% for the month of January.

3. Monitoring Notes:

AMS 910 (Genesee)

All analyzers and meteorological sensors returned an uptime of 100% for the month of January.

If additional information is required, please call (587) 499-4900.

Sincerely,



Patrick Andersen
Environmental Specialist

WEST CENTRAL AIRSHED SOCIETY

**CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT
CONTINUOUS AIR MONITORING DATA**

**AMS 910
GENESEE
JANUARY 2018**

Operations and Data Collection by:
West Central Airshed Society
Drayton Valley, Alberta

QA/QC, Data Validation and Reporting by:
West Central Airshed Society
Drayton Valley, Alberta

Summary Report

Continuous air quality/meteorological monitoring measurements

West Central Airshed Society

| EPCOR / Genesee Station 910 | | | | | | | | | | | | | January 2018 | | |
|--|-------------------|----------------|----------------|------|-------|-------|------------|-------|--------|------|-------|-------------|--------------|---------------------------|--|
| Parameter | Calibration Hours | Number of Data | Percent Uptime | Mean | Min | Max | Percentile | | | | | Exceedences | | 24 Hour Average Max (ppm) | |
| | | | | | | | P10 | Q1 | Median | Q3 | P90 | 1-hour | 24-hour | | |
| SO ₂ (ppb) | 35 | 709 | 100.0 | 0.6 | 0.0 | 6.7 | 0.0 | 0.1 | 0.4 | 0.7 | 1.0 | 0 | 0 | 0.002 | |
| O ₃ (ppb) | 35 | 709 | 100.0 | 12.1 | 0.0 | 32.6 | 1.8 | 7.3 | 12.5 | 17.3 | 20.3 | 0 | - | 0.022 | |
| NO (ppb) | 38 | 706 | 100.0 | 1.0 | 0.0 | 13.3 | 0.0 | 0.1 | 0.3 | 1.2 | 2.8 | - | - | - | |
| NO ₂ (ppb) | 38 | 706 | 100.0 | 7.4 | 1.3 | 24.9 | 2.6 | 4.6 | 6.4 | 9.3 | 13.1 | 0 | 0 | 0.015 | |
| NO _x (ppb) | 38 | 706 | 100.0 | 8.4 | 1.2 | 36.6 | 2.8 | 4.9 | 7.0 | 10.1 | 16.4 | - | - | - | |
| Particulate Matter 2.5 microns (µ/m ³) | 0 | 744 | 100.0 | 9.1 | 2.1 | 27.2 | 3.6 | 4.6 | 7.5 | 11.7 | 18.7 | 0 | 0 | 20.29 ug/m3 | |
| Wind Speed (kph) | 0 | 744 | 100.0 | 10.6 | 0.1 | 31.6 | 3.2 | 5.8 | 9.9 | 14.3 | 18.2 | - | - | - | |
| Temperature - 2m (°C) | 0 | 744 | 100.0 | -9.1 | -31.2 | 7.4 | -22.5 | -15.3 | -7.3 | -2.1 | 1.1 | - | - | - | |
| Temperature - 10m (°C) | 0 | 744 | 100.0 | -8.9 | -30.2 | 8.0 | -23.0 | -15.9 | -8.0 | -1.1 | 1.7 | - | - | - | |
| Delta Temperature (°C) | 0 | 744 | 100.0 | 0.2 | -2.2 | 3.1 | -0.9 | -0.6 | -0.2 | 0.9 | 1.8 | - | - | - | |
| Relative Humidity (%) | 0 | 744 | 100.0 | 77.9 | 37.5 | 98.3 | 64.7 | 71.6 | 77.4 | 85.8 | 92.3 | - | - | - | |
| Global Solar Radiation (W/m ²) | 0 | 744 | 100.0 | 45.7 | 0.0 | 378.0 | 0.0 | 0.0 | 0.0 | 54.9 | 189.3 | - | - | - | |
| Std Dev Wind Direction (deg) | 0 | 744 | 100.0 | 16.7 | 2.6 | 92.8 | 6.5 | 8.7 | 11.7 | 18.1 | 38.0 | - | - | - | |
| Std Dev Wind Speed (kph) | 0 | 744 | 100.0 | 2.3 | 0.2 | 15.8 | 1.2 | 1.5 | 2.1 | 2.9 | 3.9 | - | - | - | |



WCAS - Genesee
Summary of Hourly Averages

Sulphur Dioxide (SO₂) - ppb
January 2018

| Maximum Value: 6.66 ppb on Jan 30 17:00 Maximum Daily Average: 2.20 ppb on Jan 26 | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 Hours of Data: 709 | | | | | | |
|---|-------------------------|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|-----------------|---------------|---------------|
| Minimum Value: 0.0 ppb on Jan 1 01:00 Minimum Daily Average: 0.02 ppb on Jan 31 Maximum Diurnal Average: 0.70 ppb at hour 13 Minimum Diurnal Average: 0.42 ppb at hour 7 Monthly Average: 0.555 ppb Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.1 Median = 0.4 Q ₃ = 0.7 P ₉₀ = 1.0 P ₉₉ = 4.1 | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 35 Hours of Calibration: 35 Percent Operational Time: 100.0 | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1-Jan | 0.0 | 0.0 | Z | 0.4 | 0.1 | 0.0 | 0.2 | 0.3 | 0.0 | 0.3 | 0.1 | 0.3 | 0.1 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.5 | 0.0 | 0.4 | 0.5 | 0.0 | 0.5 | 0.21 | 0.52 |
| 2-Jan | 1.0 | 1.7 | Z | 0.9 | 0.3 | 1.0 | 0.9 | 0.9 | 0.6 | 0.4 | 0.8 | 0.7 | 0.7 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.7 | 0.9 | 0.5 | 0.6 | 0.5 | 0.72 | 1.71 |
| 3-Jan | 0.7 | 0.9 | Z | 0.5 | 0.9 | 0.7 | 0.3 | 0.9 | 0.7 | 0.8 | 0.6 | 0.4 | 0.7 | 0.2 | 0.3 | 0.5 | 0.5 | 0.8 | 0.3 | 0.4 | 0.5 | 0.3 | 0.5 | 0.5 | 0.56 | 0.95 |
| 4-Jan | 0.4 | 0.1 | Z | 0.1 | 0.2 | 0.6 | 0.2 | 0.3 | 0.0 | 0.2 | 0.5 | 0.4 | 0.3 | 0.3 | 0.6 | 0.5 | 0.5 | 0.7 | 0.8 | 0.9 | 0.8 | 0.3 | 0.5 | 0.4 | 0.42 | 0.92 |
| 5-Jan | 0.3 | 0.3 | Z | 0.4 | 0.2 | 0.6 | 0.1 | 0.2 | 0.3 | 0.6 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.7 | 0.5 | 0.8 | 0.3 | 0.4 | 0.2 | 0.3 | 0.4 | 0.9 | 0.42 | 0.87 |
| 6-Jan | 0.5 | 0.7 | Z | 0.5 | 0.2 | 0.1 | 0.4 | 0.8 | 0.3 | 0.1 | 0.2 | 0.9 | 0.4 | 0.5 | 0.8 | 0.6 | 0.6 | 0.9 | 0.6 | 0.5 | 0.5 | 0.8 | 0.5 | 0.4 | 0.51 | 0.91 |
| 7-Jan | 0.3 | 0.4 | Z | 0.5 | 0.3 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 | 0.3 | 0.6 | 0.5 | 0.5 | 0.2 | 0.3 | 0.3 | 0.4 | 0.3 | 0.5 | 0.3 | 0.3 | 0.7 | 0.7 | 0.42 | 0.69 |
| 8-Jan | 0.7 | 2.5 | Z | 1.4 | 1.3 | 0.9 | 1.0 | 1.1 | 0.7 | 0.7 | 1.2 | 1.1 | 0.8 | 0.6 | 0.6 | 0.6 | 0.9 | 0.7 | 0.7 | 0.7 | 0.8 | 0.9 | 1.2 | 1.3 | 0.98 | 2.51 |
| 9-Jan | 0.6 | 0.3 | Z | 0.9 | 0.8 | 0.8 | 0.9 | 0.7 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.2 | 0.4 | 0.6 | 0.6 | 0.4 | 0.1 | 0.3 | 0.3 | 0.2 | 0.0 | 0.0 | 0.47 | 0.89 |
| 10-Jan | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.4 | 0.3 | 0.1 | 0.4 | 0.3 | 0.3 | 0.7 | 0.5 | 0.4 | 0.4 | 0.5 | 0.8 | 0.6 | 0.25 | 0.79 |
| 11-Jan | 0.1 | 0.5 | Z | 0.4 | 0.4 | 0.5 | 0.5 | 0.3 | 0.5 | 0.2 | 0.5 | 0.3 | 0.9 | 0.6 | 0.6 | 0.9 | 0.6 | 0.9 | 1.0 | 0.5 | 1.1 | 1.1 | 1.1 | 1.1 | 0.64 | 1.14 |
| 12-Jan | 0.5 | 0.5 | Z | 0.4 | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | 0.4 | 0.2 | 0.3 | 0.4 | 0.0 | 0.7 | 0.5 | 0.7 | 0.3 | 0.7 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.30 | 0.69 |
| 13-Jan | 0.3 | 0.1 | Z | 0.1 | 0.2 | 0.3 | 0.5 | 0.4 | 0.2 | 0.3 | 0.6 | 0.2 | 0.5 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 2.9 | 1.6 | 3.9 | 1.6 | 2.7 | 0.3 | 0.75 | 3.91 |
| 14-Jan | 0.4 | 0.9 | Z | 0.3 | 0.4 | 0.5 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.6 | 4.9 | 1.6 | 0.3 | 0.5 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.54 | 4.91 |
| 15-Jan | 0.2 | 0.6 | Z | 0.3 | 0.6 | 0.3 | 0.6 | 0.5 | 0.3 | 0.3 | 0.4 | 0.2 | 0.3 | 0.2 | 0.5 | 0.2 | 0.3 | 0.3 | 0.1 | 0.3 | 0.4 | 0.5 | 0.6 | 0.5 | 0.37 | 0.64 |
| 16-Jan | 0.3 | 0.7 | Z | 0.4 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.5 | 0.6 | 0.5 | 0.9 | 0.8 | 0.8 | 0.6 | 0.9 | 1.0 | 0.9 | 0.54 | 1.00 |
| 17-Jan | 1.0 | 0.7 | Z | 0.7 | 0.6 | 0.9 | 0.7 | 0.6 | 0.7 | 0.3 | 0.4 | 0.4 | 0.7 | 0.4 | 0.8 | 0.2 | 0.4 | 0.3 | 0.4 | 0.3 | 0.7 | 0.4 | 0.6 | 0.8 | 0.56 | 0.96 |
| 18-Jan | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.05 | 0.34 |
| 19-Jan | 0.0 | 0.3 | Z | 0.0 | 0.0 | 0.2 | 0.0 | 0.1 | 0.2 | 0.6 | 0.4 | 0.0 | 0.1 | 0.0 | 0.3 | 0.2 | 0.2 | 1.1 | 0.9 | 0.1 | 0.5 | 1.7 | 0.9 | 0.4 | 0.35 | 1.71 |
| 20-Jan | 0.1 | 0.8 | Z | 0.4 | 0.4 | 0.8 | 0.2 | 0.4 | 0.3 | 0.3 | 0.7 | 0.7 | 0.7 | 0.4 | 0.6 | 0.1 | 0.6 | 0.7 | 0.5 | 0.3 | 0.0 | 0.6 | 0.8 | 1.1 | 0.49 | 1.06 |
| 21-Jan | 0.4 | 0.9 | Z | 0.0 | 0.5 | 0.1 | 0.2 | 0.1 | 0.5 | 0.8 | 0.6 | 0.5 | 1.0 | 0.8 | 1.1 | 0.7 | 0.9 | 0.3 | 0.7 | 0.8 | 0.6 | 0.7 | 0.2 | 0.0 | 0.53 | 1.08 |
| 22-Jan | 0.7 | 0.6 | Z | 0.5 | 0.3 | 0.4 | 0.3 | 0.4 | 0.8 | 0.8 | C | C | C | C | 0.7 | 0.7 | 0.4 | 0.4 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.39 | 0.75 |
| 23-Jan | 0.0 | 0.0 | Z | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.3 | 0.4 | 0.0 | 0.0 | 0.06 | 0.37 |
| 24-Jan | 0.0 | 0.0 | Z | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.06 | 1.13 |
| 25-Jan | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.6 | 1.4 | 1.6 | 0.9 | 0.3 | 0.8 | 0.25 | 1.63 |
| 26-Jan | 4.1 | 1.9 | Z | 2.9 | 3.9 | 3.1 | 3.0 | 3.9 | 3.6 | 5.0 | 3.9 | 2.7 | 2.1 | 2.0 | 3.6 | 2.4 | 0.6 | 0.0 | 0.3 | 0.4 | 0.5 | 0.1 | 0.0 | 0.5 | 2.20 | 5.01 |
| 27-Jan | 0.5 | 0.1 | Z | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 | 1.3 | 0.8 | 0.7 | 0.5 | 0.3 | 0.5 | 0.8 | 0.8 | 1.5 | 0.8 | 0.43 | 1.51 |
| 28-Jan | 0.3 | 0.2 | Z | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.2 | 0.9 | 0.5 | 0.5 | 0.2 | 0.6 | 0.3 | 0.6 | 0.8 | 1.0 | 0.28 | 0.98 |
| 29-Jan | 1.9 | 2.2 | Z | 2.0 | 2.3 | 1.9 | 1.1 | 1.0 | 1.9 | 2.2 | 2.0 | 1.4 | 0.7 | 0.7 | 0.7 | 0.8 | 0.8 | 1.0 | 1.0 | 1.0 | 0.6 | 0.8 | 0.7 | 0.6 | 1.27 | 2.26 |
| 30-Jan | 0.4 | 2.1 | Z | 1.2 | 1.5 | 1.1 | 0.4 | 2.2 | 4.4 | 5.1 | 3.9 | 4.2 | 3.3 | 4.1 | 3.4 | 4.1 | 6.7 | 0.3 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.13 | 6.66 |
| 31-Jan | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.1 | 0.02 | 0.23 |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | |
| 0.51 0.64 -- 0.51 0.52 0.51 0.42 0.52 0.58 0.67 0.63 0.63 0.70 0.53 0.65 0.63 0.62 0.47 0.50 0.45 0.56 0.52 0.53 0.47 4.12 2.51 -- 2.92 3.92 3.06 2.99 3.88 4.45 5.13 3.91 4.21 4.91 4.08 3.61 4.13 6.66 1.13 2.89 1.60 3.91 1.71 2.68 1.26 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z - zerospan C - Calibration Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 172 ppb 24-hr 48 ppb | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Genesee
Summary of Hourly Averages

Ozone (O₃) - ppb
January 2018

| Maximum Value: 32.61 ppb on Jan 15 14:00 | | Maximum Daily Average: 22.19 ppb on Jan 15 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|--|------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-----------------|--|--|--|
| Minimum Value: 0.0 ppb on Jan 5 01:00 | | Minimum Daily Average: 2.85 ppb on Jan 5 | | Hours of Data: 709 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 15.02 ppb at hour 15 | | Minimum Diurnal Average: 10.39 ppb at hour 9 | | Hours of Missing Data: 35 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 12.130 ppb | | Percentiles: P ₁ = 0.0 P ₁₀ = 1.8 Q ₁ = 7.3 Median = 12.5 Q ₃ = 17.3 P ₉₀ = 20.3 P ₉₉ = 30.5 | | Hours of Calibration: 35 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | |
| 1-Jan | 13.0 | Z | 10.9 | 9.7 | 9.2 | 8.1 | 9.7 | 7.6 | 2.8 | 7.2 | 11.6 | 12.0 | 10.9 | 16.7 | 20.7 | 22.2 | 20.7 | 20.6 | 22.4 | 19.3 | 20.6 | 17.6 | 18.5 | 17.3 | 14.31 | 22.38 | | | |
| 2-Jan | 12.9 | Z | 17.0 | 14.0 | 14.6 | 15.4 | 16.8 | 17.6 | 12.9 | 15.2 | 19.8 | 20.4 | 19.6 | 19.7 | 18.9 | 17.9 | 16.6 | 15.4 | 17.8 | 17.1 | 17.2 | 14.6 | 13.3 | 13.3 | 16.44 | 20.39 | | | |
| 3-Jan | 15.0 | Z | 16.1 | 11.7 | 11.7 | 13.0 | 13.4 | 11.9 | 11.3 | 11.1 | 13.3 | 15.4 | 17.0 | 17.5 | 18.5 | 17.6 | 16.3 | 15.5 | 15.1 | 14.9 | 15.9 | 17.2 | 16.6 | 15.6 | 14.84 | 18.47 | | | |
| 4-Jan | 14.5 | Z | 16.0 | 15.6 | 15.2 | 15.1 | 13.2 | 12.6 | 14.3 | 14.0 | 12.8 | 9.0 | 13.9 | 14.0 | 13.3 | 13.4 | 13.5 | 12.2 | 10.6 | 10.5 | 13.6 | 8.3 | 7.7 | 4.0 | 12.50 | 15.98 | | | |
| 5-Jan | 0.0 | Z | 0.0 | 0.0 | 0.0 | 2.0 | 1.7 | 0.0 | 6.2 | 7.1 | 6.2 | 7.1 | 6.8 | 6.5 | 6.9 | 5.5 | 3.7 | 1.4 | 0.0 | 0.0 | 0.0 | 2.6 | 1.7 | 0.0 | 2.85 | 7.11 | | | |
| 6-Jan | 0.0 | Z | 0.7 | 0.0 | 0.5 | 8.8 | 9.5 | 3.0 | 2.2 | 6.7 | 11.3 | 15.5 | 16.2 | 15.3 | 11.8 | 16.5 | 8.1 | 5.3 | 15.9 | 14.2 | 18.6 | 19.5 | 22.3 | 20.0 | 10.52 | 22.28 | | | |
| 7-Jan | 18.4 | Z | 16.5 | 16.6 | 16.5 | 13.6 | 13.1 | 14.8 | 14.5 | 17.4 | 17.7 | 19.3 | 17.4 | 20.1 | 19.4 | 20.0 | 21.1 | 20.1 | 19.1 | 19.8 | 19.9 | 17.8 | 17.3 | 19.0 | 17.80 | 21.08 | | | |
| 8-Jan | 20.5 | Z | 20.3 | 18.2 | 16.9 | 16.7 | 17.7 | 15.2 | 13.8 | 12.6 | 11.2 | 9.7 | 9.9 | 8.6 | 7.0 | 3.8 | 1.3 | 2.3 | 1.8 | 3.2 | 3.5 | 4.2 | 5.2 | 5.1 | 9.95 | 20.48 | | | |
| 9-Jan | 4.2 | Z | 7.9 | 9.0 | 9.7 | 10.7 | 11.3 | 12.1 | 12.9 | 13.0 | 10.1 | 10.3 | 11.5 | 12.7 | 12.5 | 12.0 | 11.4 | 11.7 | 13.3 | 14.1 | 13.0 | 15.4 | 16.8 | 16.4 | 11.83 | 16.85 | | | |
| 10-Jan | 14.8 | Z | 15.6 | 15.6 | 16.2 | 17.6 | 18.2 | 19.1 | 18.1 | 18.9 | 19.4 | 18.9 | 20.4 | 20.8 | 20.4 | 21.3 | 21.5 | 21.7 | 20.7 | 18.9 | 18.5 | 17.2 | 16.2 | 15.9 | 18.51 | 21.72 | | | |
| 11-Jan | 17.2 | Z | 19.1 | 18.2 | 17.9 | 18.0 | 16.9 | 16.7 | 14.2 | 13.0 | 14.5 | 15.2 | 14.3 | 15.4 | 16.2 | 14.0 | 11.8 | 14.3 | 12.7 | 10.3 | 10.2 | 11.5 | 11.4 | 11.2 | 14.53 | 19.09 | | | |
| 12-Jan | 9.5 | Z | 9.9 | 8.1 | 9.0 | 8.2 | 6.4 | 6.1 | 4.2 | 1.3 | 5.8 | 7.8 | 6.6 | 7.3 | 8.0 | 7.0 | 4.9 | 1.2 | 1.7 | 2.9 | 1.3 | 0.0 | 0.0 | 0.0 | 5.10 | 9.88 | | | |
| 13-Jan | 0.0 | Z | 0.7 | 0.9 | 0.0 | 0.3 | 4.7 | 9.1 | 12.1 | 14.2 | 16.5 | 18.8 | 20.3 | 20.6 | 20.1 | 17.7 | 17.3 | 18.3 | 7.1 | 10.3 | 7.1 | 9.3 | 13.7 | 15.6 | 11.08 | 20.64 | | | |
| 14-Jan | 16.2 | Z | 17.5 | 17.9 | 19.8 | 22.4 | 23.0 | 23.8 | 23.6 | 24.4 | 23.6 | 20.8 | 20.0 | 25.1 | 25.7 | 24.2 | 22.9 | 21.3 | 19.9 | 19.7 | 20.0 | 21.3 | 20.3 | 19.7 | 21.44 | 25.70 | | | |
| 15-Jan | 17.7 | Z | 16.5 | 15.7 | 15.7 | 16.7 | 16.4 | 16.9 | 17.5 | 17.8 | 26.9 | 30.6 | 32.2 | 32.6 | 32.4 | 32.0 | 30.8 | 30.5 | 22.8 | 19.9 | 19.4 | 18.9 | 16.4 | 14.3 | 22.19 | 32.61 | | | |
| 16-Jan | 14.0 | Z | 15.1 | 14.5 | 13.3 | 11.7 | 9.9 | 8.6 | 3.0 | 5.0 | 8.3 | 8.1 | 9.3 | 9.8 | 11.0 | 9.8 | 8.2 | 6.1 | 4.7 | 1.4 | 1.1 | 4.9 | 8.1 | 12.8 | 8.65 | 15.15 | | | |
| 17-Jan | 17.0 | Z | 11.4 | 21.2 | 22.4 | 19.6 | 20.3 | 22.0 | 20.1 | 19.2 | 20.5 | 21.0 | 23.2 | 23.9 | 25.1 | 26.6 | 25.0 | 20.8 | 17.1 | 16.8 | 18.5 | 14.1 | 13.7 | 13.0 | 19.68 | 26.65 | | | |
| 18-Jan | 14.2 | Z | 18.6 | 18.7 | 18.3 | 17.3 | 16.5 | 12.1 | 14.5 | 15.5 | 17.7 | 19.6 | 19.2 | 19.9 | 19.4 | 18.5 | 17.7 | 23.8 | 24.5 | 24.3 | 22.0 | 22.6 | 21.1 | 21.6 | 19.02 | 24.45 | | | |
| 19-Jan | 21.5 | Z | 19.8 | 19.2 | 19.5 | 17.5 | 16.8 | 17.1 | 18.0 | 18.2 | 19.5 | 21.6 | 21.1 | 21.0 | 22.7 | 23.0 | 18.4 | 17.0 | 17.3 | 17.3 | 17.6 | 15.9 | 14.9 | 10.7 | 18.49 | 23.05 | | | |
| 20-Jan | 16.7 | Z | 18.0 | 17.6 | 16.8 | 15.2 | 17.4 | 12.5 | 11.8 | 10.8 | 12.5 | 10.0 | 11.1 | 11.4 | 12.7 | 11.8 | 10.1 | 9.3 | 6.6 | 4.5 | 2.3 | 0.0 | 0.0 | 0.0 | 10.39 | 18.00 | | | |
| 21-Jan | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 5.4 | 7.8 | 8.6 | 10.4 | 9.8 | 8.4 | 7.0 | 7.3 | 7.5 | 8.4 | 8.5 | 9.1 | 8.7 | 1.0 | 4.71 | 10.44 | | | |
| 22-Jan | 3.4 | Z | 0.0 | 1.6 | 2.1 | 4.8 | 7.9 | 7.7 | 7.1 | 6.0 | C | C | C | C | 17.0 | 15.8 | 14.7 | 15.9 | 13.7 | 14.1 | 15.5 | 18.0 | 17.0 | 14.4 | 10.36 | 18.01 | | | |
| 23-Jan | 14.2 | Z | 13.3 | 13.2 | 12.5 | 14.2 | 13.3 | 13.1 | 12.7 | 14.6 | 16.2 | 19.1 | 21.9 | 18.6 | 17.6 | 16.6 | 20.6 | 20.4 | 23.3 | 19.8 | 17.4 | 14.5 | 13.5 | 12.9 | 16.23 | 23.29 | | | |
| 24-Jan | 14.2 | Z | 14.0 | 12.7 | 12.1 | 11.2 | 10.6 | 9.4 | 8.9 | 5.0 | 5.4 | 8.6 | 10.8 | 9.5 | 9.3 | 6.9 | 6.4 | 6.3 | 5.1 | 5.7 | 7.2 | 7.7 | 8.0 | 8.0 | 8.83 | 14.18 | | | |
| 25-Jan | 7.4 | Z | 7.2 | 7.3 | 7.8 | 8.3 | 8.0 | 7.5 | 5.3 | 4.8 | 6.5 | 7.8 | 7.6 | 7.8 | 7.7 | 8.7 | 8.8 | 5.9 | 1.8 | 0.0 | 0.0 | 1.0 | 1.9 | 1.9 | 5.71 | 8.82 | | | |
| 26-Jan | 0.0 | Z | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 1.1 | 6.5 | 8.3 | 7.9 | 7.9 | 8.4 | 7.2 | 8.4 | 7.7 | 2.87 | 8.38 | | | |
| 27-Jan | 7.4 | Z | 8.3 | 9.0 | 9.8 | 9.3 | 7.4 | 6.2 | 6.5 | 8.1 | 11.4 | 11.8 | 11.5 | 11.7 | 11.2 | 11.0 | 9.8 | 9.3 | 5.4 | 0.0 | 0.0 | 0.8 | 2.9 | 5.2 | 7.57 | 11.77 | | | |
| 28-Jan | 7.1 | Z | 7.4 | 6.5 | 7.6 | 8.7 | 9.6 | 10.2 | 10.6 | 10.9 | 10.0 | 10.5 | 12.6 | 12.5 | 12.7 | 12.6 | 11.3 | 11.5 | 10.5 | 9.7 | 9.1 | 9.6 | 9.6 | 9.1 | 9.99 | 12.66 | | | |
| 29-Jan | 8.2 | Z | 6.2 | 6.6 | 6.6 | 6.5 | 6.2 | 7.2 | 7.9 | 8.9 | 11.3 | 11.2 | 12.4 | 12.3 | 11.9 | 11.4 | 10.1 | 10.1 | 10.6 | 10.1 | 10.2 | 8.6 | 8.3 | 5.3 | 9.05 | 12.44 | | | |
| 30-Jan | 2.7 | Z | 0.6 | 0.6 | 0.0 | 0.1 | 4.7 | 3.6 | 0.3 | 2.7 | 3.2 | 3.9 | 5.4 | 5.2 | 6.6 | 5.8 | 2.7 | 6.0 | 5.6 | 7.4 | 6.9 | 6.6 | 7.2 | 7.2 | 4.13 | 7.42 | | | |
| 31-Jan | 8.7 | Z | 10.0 | 11.3 | 12.9 | 13.3 | 13.6 | 14.4 | 14.9 | 17.9 | 17.8 | 19.3 | 19.3 | 19.7 | 19.4 | 19.8 | 19.9 | 19.5 | 18.6 | 16.5 | 16.9 | 16.3 | 16.1 | 15.6 | 16.16 | 19.87 | | | |
| | | 10.66 | -- | 10.85 | 10.68 | 10.78 | 11.10 | 11.43 | 10.91 | 10.39 | 11.04 | 12.88 | 13.69 | 14.37 | 14.92 | 15.02 | 14.62 | 13.52 | 13.21 | 12.30 | 11.58 | 11.63 | 11.37 | 11.51 | 10.77 | Diurnal Average | | | |
| | | 21.45 | -- | 20.29 | 21.25 | 22.38 | 22.44 | 23.02 | 23.83 | 23.55 | 24.44 | 26.91 | 30.58 | 32.21 | 32.61 | 32.35 | 31.97 | 30.76 | 30.51 | 24.45 | 24.31 | 21.99 | 22.65 | 22.28 | 21.63 | Diurnal Maximum | | | |
| Z - zerospan | | C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): | | 1-hr 82.5 ppb | | 24-hr -- ppb | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Genesee
Eight Hour Running Averages

Ozone (O₃) - ppb
January 2018

| Maximum Value: 30.99 ppb on Jan 15 18:00 | | Maximum Daily Average: 22.33 ppb on Jan 15 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|--|------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|---------------|---------------|
| Minimum Value: 0.0 ppb on Jan 5 08:00 | | Minimum Daily Average: 1.51 ppb on Jan 26 | | Hours of Data: 737 | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 14.17 ppb at hour 18 | | Minimum Diurnal Average: 10.92 ppb at hour 7 | | Hours of Missing Data: 7 | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 12.180 ppb | | Percentiles: P ₁ = 0.0 P ₁₀ = 3.4 Q ₁ = 7.4 Median = 12.6 Q ₃ = 17.0 P ₉₀ = 19.8 P ₉₉ = 24.4 | | Hours of Calibration: 7 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1-Jan | 15.0 | 14.5 | 13.7 | 13.0 | 12.2 | 11.2 | 10.6 | 9.7 | 8.3 | 8.1 | 8.2 | 8.5 | 8.7 | 9.8 | 11.2 | 13.0 | 15.2 | 16.9 | 18.3 | 19.2 | 20.4 | 20.5 | 20.2 | 19.6 | 13.59 | 20.51 |
| 2-Jan | 18.7 | 18.4 | 17.6 | 16.8 | 16.0 | 15.7 | 15.4 | 15.5 | 15.5 | 15.4 | 15.8 | 16.6 | 17.2 | 17.8 | 18.0 | 18.1 | 18.5 | 18.5 | 18.3 | 17.9 | 17.6 | 16.9 | 16.2 | 15.7 | 17.00 | 18.65 |
| 3-Jan | 15.5 | 15.5 | 15.2 | 14.5 | 13.7 | 13.4 | 13.5 | 13.3 | 12.7 | 12.5 | 12.2 | 12.6 | 13.3 | 13.9 | 14.5 | 15.2 | 15.8 | 16.4 | 16.6 | 16.5 | 16.4 | 16.4 | 16.1 | 15.9 | 14.64 | 16.60 |
| 4-Jan | 15.6 | 15.7 | 15.8 | 15.9 | 15.8 | 15.5 | 15.0 | 14.6 | 14.6 | 14.5 | 14.1 | 13.3 | 13.1 | 13.0 | 13.0 | 13.1 | 13.0 | 12.8 | 12.5 | 12.7 | 12.6 | 11.9 | 11.2 | 10.0 | 13.73 | 15.91 |
| 5-Jan | 8.2 | 7.6 | 5.8 | 4.1 | 2.1 | 1.2 | 0.3 | 0.0 | 0.8 | 1.6 | 2.7 | 3.7 | 4.6 | 5.2 | 5.8 | 6.5 | 6.2 | 5.5 | 4.7 | 3.8 | 2.9 | 2.4 | 1.7 | 0.8 | 3.68 | 8.19 |
| 6-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | 2.1 | 2.8 | 3.5 | 3.9 | 5.2 | 7.2 | 9.1 | 10.0 | 10.2 | 11.9 | 12.7 | 12.5 | 13.1 | 12.9 | 13.2 | 13.7 | 15.1 | 15.5 | 7.32 | 15.49 |
| 7-Jan | 16.8 | 18.4 | 18.5 | 18.8 | 18.5 | 17.7 | 16.4 | 15.6 | 15.1 | 15.4 | 15.5 | 15.9 | 16.0 | 16.8 | 17.6 | 18.2 | 19.1 | 19.4 | 19.6 | 19.6 | 19.9 | 19.7 | 19.4 | 19.3 | 17.80 | 19.94 |
| 8-Jan | 19.2 | 19.1 | 19.2 | 19.0 | 18.6 | 18.4 | 18.5 | 17.9 | 17.0 | 16.4 | 15.3 | 14.2 | 13.4 | 12.3 | 11.0 | 9.6 | 8.0 | 6.7 | 5.5 | 4.7 | 3.9 | 3.4 | 3.2 | 3.3 | 12.42 | 19.23 |
| 9-Jan | 3.7 | 3.9 | 4.8 | 5.6 | 6.5 | 7.4 | 8.3 | 9.3 | 10.5 | 10.8 | 11.1 | 11.3 | 11.5 | 11.7 | 11.9 | 11.9 | 11.7 | 11.5 | 11.9 | 12.4 | 12.6 | 12.9 | 13.5 | 14.0 | 10.02 | 14.02 |
| 10-Jan | 14.4 | 14.8 | 15.2 | 15.4 | 15.8 | 16.1 | 16.3 | 16.7 | 17.2 | 17.4 | 17.9 | 18.3 | 18.8 | 19.2 | 19.5 | 19.8 | 20.2 | 20.6 | 20.7 | 20.7 | 20.5 | 20.0 | 19.5 | 18.8 | 18.08 | 20.72 |
| 11-Jan | 18.3 | 17.8 | 17.6 | 17.5 | 17.4 | 17.5 | 17.6 | 17.7 | 17.3 | 16.8 | 16.2 | 15.8 | 15.4 | 15.0 | 14.9 | 14.6 | 14.3 | 14.5 | 14.2 | 13.6 | 13.1 | 12.6 | 12.0 | 11.7 | 15.56 | 18.31 |
| 12-Jan | 11.4 | 11.0 | 10.6 | 10.3 | 10.1 | 9.6 | 8.9 | 8.2 | 7.4 | 6.6 | 6.1 | 6.1 | 5.8 | 5.7 | 5.9 | 6.0 | 6.1 | 6.1 | 5.6 | 5.0 | 4.3 | 3.4 | 2.2 | 1.2 | 6.81 | 11.39 |
| 13-Jan | 0.4 | 0.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.4 | 1.9 | 3.9 | 5.2 | 7.1 | 9.4 | 12.0 | 14.5 | 16.5 | 17.5 | 18.2 | 18.7 | 17.5 | 16.5 | 14.8 | 13.4 | 12.6 | 12.3 | 8.88 | 18.70 |
| 14-Jan | 12.2 | 11.3 | 12.8 | 13.9 | 15.7 | 17.6 | 18.9 | 20.1 | 21.1 | 21.6 | 22.3 | 22.7 | 23.0 | 23.4 | 23.4 | 23.3 | 22.9 | 22.5 | 22.3 | 22.3 | 21.9 | 21.2 | 20.6 | 20.0 | 20.00 | 23.42 |
| 15-Jan | 20.0 | 19.8 | 19.3 | 18.7 | 18.1 | 17.5 | 16.9 | 16.5 | 16.5 | 16.6 | 17.9 | 19.8 | 21.9 | 23.9 | 25.9 | 27.7 | 29.4 | 31.0 | 30.5 | 29.1 | 27.5 | 25.8 | 23.8 | 21.6 | 22.33 | 30.99 |
| 16-Jan | 19.5 | 18.0 | 16.9 | 16.1 | 15.2 | 14.2 | 13.3 | 12.4 | 10.9 | 10.1 | 9.3 | 8.5 | 8.0 | 7.8 | 7.9 | 8.1 | 8.7 | 8.8 | 8.4 | 7.6 | 6.5 | 5.9 | 5.6 | 5.9 | 10.56 | 19.52 |
| 17-Jan | 7.0 | 7.2 | 8.1 | 10.9 | 14.0 | 16.1 | 17.8 | 19.1 | 19.6 | 19.5 | 20.7 | 20.6 | 20.7 | 21.3 | 21.9 | 22.5 | 23.1 | 23.3 | 22.8 | 22.3 | 21.7 | 20.5 | 19.1 | 17.4 | 18.22 | 23.27 |
| 18-Jan | 16.0 | 15.3 | 15.5 | 15.8 | 15.8 | 16.2 | 16.6 | 16.5 | 16.6 | 16.4 | 16.3 | 16.4 | 16.5 | 16.9 | 17.2 | 18.0 | 18.4 | 19.5 | 20.3 | 20.9 | 21.3 | 21.6 | 21.8 | 22.2 | 17.85 | 22.21 |
| 19-Jan | 22.7 | 22.5 | 21.8 | 21.1 | 20.8 | 20.0 | 19.4 | 18.8 | 18.3 | 18.3 | 18.2 | 18.5 | 18.7 | 19.1 | 19.9 | 20.6 | 20.7 | 20.5 | 20.3 | 19.7 | 19.3 | 18.6 | 17.7 | 16.1 | 19.65 | 22.68 |
| 20-Jan | 15.9 | 15.8 | 15.9 | 16.0 | 15.9 | 15.9 | 16.3 | 16.7 | 16.2 | 15.6 | 15.1 | 14.2 | 13.7 | 13.3 | 12.9 | 12.9 | 12.8 | 12.8 | 12.2 | 11.7 | 10.7 | 8.9 | 6.9 | 5.2 | 13.48 | 16.72 |
| 21-Jan | 3.9 | 2.8 | 1.3 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.4 | 3.0 | 4.7 | 6.7 | 8.4 | 9.9 | 11.2 | 12.1 | 12.4 | 12.5 | 12.6 | 12.5 | 12.4 | 11.5 | 5.82 | 12.59 |
| 22-Jan | 11.2 | 11.1 | 9.9 | 8.9 | 7.7 | 6.9 | 6.4 | 6.9 | 6.9 | 6.8 | 7.3 | 7.6 | C | C | C | C | C | C | C | 15.2 | 15.3 | 15.6 | 15.6 | 15.4 | -- | 15.60 |
| 23-Jan | 15.3 | 15.3 | 15.2 | 15.1 | 14.7 | 14.1 | 13.6 | 13.4 | 13.2 | 13.4 | 13.7 | 14.5 | 15.6 | 16.2 | 16.7 | 17.2 | 18.1 | 18.9 | 19.8 | 19.9 | 19.3 | 18.8 | 18.3 | 17.8 | 16.16 | 19.85 |
| 24-Jan | 17.0 | 16.5 | 15.2 | 14.2 | 13.4 | 12.9 | 12.5 | 12.0 | 11.3 | 10.5 | 9.4 | 8.9 | 8.7 | 8.5 | 8.4 | 8.1 | 7.7 | 7.9 | 7.9 | 7.5 | 7.1 | 6.8 | 6.7 | 6.8 | 10.24 | 17.00 |
| 25-Jan | 6.9 | 7.0 | 7.3 | 7.6 | 7.6 | 7.7 | 7.7 | 7.7 | 7.4 | 7.0 | 6.9 | 7.0 | 7.0 | 6.9 | 6.9 | 7.0 | 7.5 | 7.6 | 7.0 | 5.8 | 4.8 | 3.9 | 3.2 | 2.3 | 6.58 | 7.72 |
| 26-Jan | 1.1 | 0.4 | 0.4 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 1.6 | 2.7 | 3.8 | 5.0 | 5.8 | 7.0 | 7.8 | 1.51 | 7.79 |
| 27-Jan | 7.9 | 7.8 | 7.9 | 8.0 | 8.3 | 8.6 | 8.4 | 8.2 | 8.1 | 8.1 | 8.5 | 8.8 | 9.0 | 9.3 | 9.8 | 10.4 | 10.8 | 11.0 | 10.2 | 8.4 | 6.6 | 5.2 | 4.2 | 3.5 | 8.21 | 10.96 |
| 28-Jan | 3.1 | 2.3 | 2.5 | 3.9 | 5.4 | 6.5 | 7.4 | 8.1 | 8.6 | 8.9 | 9.2 | 9.8 | 10.4 | 10.9 | 11.2 | 11.5 | 11.6 | 11.7 | 11.8 | 11.7 | 11.2 | 10.9 | 10.5 | 10.1 | 8.72 | 11.78 |
| 29-Jan | 9.7 | 9.4 | 8.8 | 8.3 | 8.0 | 7.5 | 7.1 | 6.8 | 6.7 | 7.0 | 7.7 | 8.2 | 9.0 | 9.7 | 10.4 | 10.9 | 11.2 | 11.3 | 11.3 | 11.1 | 10.8 | 10.4 | 9.9 | 9.2 | 9.18 | 11.34 |
| 30-Jan | 8.2 | 8.0 | 6.6 | 5.2 | 3.5 | 2.3 | 1.7 | 1.5 | 1.1 | 1.3 | 1.7 | 2.1 | 3.0 | 3.6 | 3.9 | 4.1 | 4.4 | 4.9 | 5.2 | 5.6 | 5.8 | 6.0 | 6.0 | 6.2 | 4.24 | 8.25 |
| 31-Jan | 7.0 | 7.1 | 7.7 | 8.3 | 9.1 | 10.1 | 11.0 | 12.0 | 12.9 | 13.5 | 14.5 | 15.5 | 16.3 | 17.1 | 17.8 | 18.5 | 19.1 | 19.3 | 19.4 | 19.1 | 18.8 | 18.4 | 17.9 | 17.4 | 14.50 | 19.43 |
| 11.67 11.43 11.20 11.07 10.97 10.93 10.92 10.97 10.93 10.95 11.21 11.58 12.16 12.64 13.09 13.55 13.92 14.17 14.10 13.86 13.51 13.06 12.61 12.11 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | |
| 22.68 22.51 21.85 21.12 20.77 20.03 19.41 20.09 21.14 21.55 22.31 22.68 22.70 23.86 25.85 27.74 29.40 30.99 30.47 29.13 27.54 25.82 23.83 22.21 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | |
| C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Genesee
Summary of Hourly Averages

Nitrogen Oxide (NO) - ppb
January 2018

| Maximum Value: 13.33 ppb on Jan 20 23:00 | | Maximum Daily Average: 3.31 ppb on Jan 26 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|--|------|---------------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------|-----------------|--|
| Minimum Value: 0.0 ppb on Jan 1 01:00 | | Minimum Daily Average: 0.00 ppb on Jan 10 | | Hours of Data: 706 | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 2.45 ppb at hour 13 | | Minimum Diurnal Average: 0.29 ppb at hour 19 | | Hours of Missing Data: 38 | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 1.023 ppb | | Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.1 Median = 0.3 Q ₃ = 1.2 P ₉₀ = 2.8 P ₉₉ = 8.3 | | Hours of Calibration: 38 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | |
| 1-Jan | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1.0 | 1.4 | 2.2 | 2.5 | 1.4 | 0.6 | 0.4 | 0.2 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.44 | 2.45 | |
| 2-Jan | 0.2 | 0.2 | 0.2 | Z | 0.3 | 0.2 | 0.2 | 0.2 | 0.6 | 0.8 | 0.5 | 1.0 | 1.7 | 1.3 | 1.5 | 1.2 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.55 | 1.74 | |
| 3-Jan | 0.2 | 0.2 | 0.2 | Z | 0.5 | 0.2 | 0.2 | 0.2 | 0.2 | 0.8 | 1.5 | 1.7 | 1.7 | 1.6 | 1.5 | 1.1 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.61 | 1.75 | |
| 4-Jan | 0.2 | 0.3 | 0.2 | Z | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 3.6 | 9.0 | 2.8 | 3.0 | 2.4 | 1.8 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 1.28 | 9.02 | |
| 5-Jan | 1.8 | 2.4 | 2.6 | Z | 2.2 | 1.6 | 1.3 | 2.1 | 1.4 | 1.6 | 3.3 | 4.9 | 7.1 | 7.2 | 6.5 | 5.1 | 2.8 | 1.2 | 1.1 | 1.3 | 1.3 | 1.3 | 1.0 | 1.8 | 2.75 | 7.24 | |
| 6-Jan | 1.8 | 3.9 | 2.0 | Z | 1.7 | 1.5 | 0.9 | 1.4 | 1.0 | 0.7 | 0.6 | 1.4 | 1.4 | 2.1 | 4.6 | 1.0 | 5.2 | 2.1 | 0.7 | 0.4 | 0.3 | 0.2 | 0.2 | 0.2 | 1.53 | 5.25 | |
| 7-Jan | 0.2 | 0.2 | 0.2 | Z | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.5 | 1.1 | 1.3 | 2.9 | 1.1 | 0.9 | 0.6 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.53 | 2.87 | |
| 8-Jan | 0.1 | 0.1 | 0.2 | Z | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 1.4 | 3.1 | 3.4 | 4.0 | 4.8 | 4.6 | 2.9 | 1.2 | 1.1 | 1.0 | 0.6 | 0.5 | 0.4 | 0.4 | 1.36 | 4.78 | |
| 9-Jan | 0.3 | 0.2 | 0.1 | Z | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.05 | 0.31 | |
| 10-Jan | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.05 | |
| 11-Jan | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 1.8 | 2.9 | 2.5 | 1.7 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.58 | 2.88 | |
| 12-Jan | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 4.5 | 4.8 | 5.6 | 9.6 | 8.8 | 6.1 | 4.5 | 2.7 | 0.6 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 2.09 | 9.61 | |
| 13-Jan | 0.2 | 0.2 | 0.2 | Z | 0.4 | 1.7 | 0.3 | 0.1 | 0.1 | 0.5 | 1.1 | 1.5 | 1.8 | 1.2 | 1.0 | 1.0 | 0.6 | 0.3 | 0.5 | 0.4 | 0.6 | 0.4 | 0.3 | 0.3 | 0.64 | 1.84 | |
| 14-Jan | 0.2 | 0.2 | 0.2 | Z | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 1.2 | 2.1 | 0.5 | 0.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.29 | 2.11 | |
| 15-Jan | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.8 | 0.8 | 0.9 | 0.9 | 1.0 | 0.7 | 0.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.28 | 1.00 | |
| 16-Jan | 0.1 | 0.1 | 0.0 | Z | 0.1 | 0.1 | 0.1 | 0.1 | 1.1 | 2.4 | 3.0 | 5.3 | 5.1 | 6.7 | 4.7 | 4.2 | 1.9 | 0.6 | 0.4 | 1.0 | 1.0 | 0.9 | 0.5 | 0.4 | 1.73 | 6.68 | |
| 17-Jan | 0.4 | 0.5 | 0.6 | Z | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.5 | 0.9 | 1.3 | 1.4 | 1.1 | 1.0 | 0.8 | 0.5 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.51 | 1.39 | |
| 18-Jan | 0.3 | 0.3 | 0.3 | Z | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.5 | 0.8 | 1.2 | 1.6 | 1.7 | 1.5 | 1.4 | 1.1 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.63 | 1.66 | |
| 19-Jan | 0.2 | 0.2 | 0.2 | Z | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.6 | 0.6 | 0.6 | 0.9 | 0.6 | 0.4 | 0.7 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.5 | 0.41 | 0.86 | |
| 20-Jan | 0.4 | 0.3 | 0.3 | Z | 0.3 | 0.3 | 0.2 | 0.3 | 0.4 | 0.7 | 0.9 | 1.3 | 1.7 | 2.0 | 1.6 | 1.4 | 0.9 | 0.4 | 0.4 | 0.4 | 0.7 | 8.4 | 13.3 | 7.6 | 1.92 | 13.33 | |
| 21-Jan | 3.4 | 4.3 | 7.5 | Z | 5.1 | 4.4 | 2.9 | 2.3 | 2.0 | 5.1 | 4.3 | 2.6 | 3.2 | 3.0 | 2.7 | 2.5 | 1.2 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 2.6 | 2.65 | 7.51 | |
| 22-Jan | 0.8 | 0.5 | 1.9 | Z | 1.5 | 1.1 | 0.5 | 0.5 | 0.5 | C | C | C | C | C | C | C | 1.4 | 0.6 | 0.5 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | -- | 1.87 | |
| 23-Jan | 0.2 | 0.2 | 0.2 | Z | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 1.2 | 1.9 | 1.6 | 2.2 | 2.1 | 1.4 | 0.6 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.63 | 2.24 | |
| 24-Jan | 0.2 | 0.1 | 0.1 | Z | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 1.5 | 3.0 | 2.0 | 1.5 | 1.9 | 1.9 | 2.2 | 1.1 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.77 | 2.96 | |
| 25-Jan | 0.2 | 0.2 | 0.2 | Z | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 | 0.8 | 1.3 | 1.1 | 0.7 | 0.4 | 0.3 | 0.2 | 0.4 | 0.9 | 1.9 | 1.1 | 0.7 | 1.1 | 0.60 | 1.87 | |
| 26-Jan | 4.1 | 2.3 | 1.4 | Z | 6.5 | 5.6 | 4.9 | 6.0 | 5.0 | 9.0 | 8.6 | 6.4 | 3.8 | 2.7 | 5.0 | 3.4 | 0.5 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 3.31 | 8.98 | |
| 27-Jan | 0.1 | 0.1 | 0.1 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.8 | 0.7 | 1.1 | 1.2 | 2.0 | 1.7 | 1.5 | 0.9 | 0.2 | 0.1 | 2.2 | 1.7 | 0.6 | 0.3 | 0.2 | 0.68 | 2.19 | |
| 28-Jan | 0.1 | 0.0 | 0.1 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.1 | 1.0 | 0.5 | 0.9 | 0.6 | 0.6 | 0.5 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.25 | 1.07 | |
| 29-Jan | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 1.0 | 1.9 | 2.1 | 2.5 | 2.4 | 1.9 | 1.7 | 1.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.68 | 2.48 | |
| 30-Jan | 0.2 | 3.2 | 1.2 | Z | 2.8 | 1.2 | 0.3 | 1.2 | 3.5 | 6.7 | 6.5 | 6.4 | 6.3 | 7.5 | 7.4 | 6.6 | 8.0 | 1.0 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 3.08 | 8.02 | |
| 31-Jan | 0.0 | 0.0 | 0.0 | Z | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.06 | 0.34 | |
| | | 0.51 | 0.65 | 0.65 | -- | 0.76 | 0.65 | 0.45 | 0.53 | 0.61 | 1.41 | 1.85 | 2.33 | 2.45 | 2.40 | 2.22 | 1.78 | 1.26 | 0.41 | 0.29 | 0.38 | 0.38 | 0.55 | 0.66 | 0.59 | Diurnal Average | |
| | | 4.13 | 4.27 | 7.51 | -- | 6.49 | 5.56 | 4.90 | 6.05 | 4.97 | 8.98 | 8.62 | 9.02 | 9.61 | 8.80 | 7.42 | 6.57 | 8.02 | 2.08 | 1.10 | 2.19 | 1.87 | 8.41 | 13.33 | 7.61 | Diurnal Maximum | |
| Z - zerospan | | C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): | | 1-hr --- ppb 24-hr --- ppb | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Genesee
Summary of Hourly Averages

Nitrogen Dioxide (NO₂) - ppb
January 2018

| Maximum Value: 24.91 ppb on Jan 5 02:00 | | Maximum Daily Average: 15.18 ppb on Jan 5 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|--|------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------|---------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--|
| Minimum Value: 1.3 ppb on Jan 10 08:00 | | Minimum Daily Average: 1.95 ppb on Jan 10 | | Hours of Data: 706 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 8.86 ppb at hour 20 | | Minimum Diurnal Average: 6.01 ppb at hour 13 | | Hours of Missing Data: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 7.435 ppb | | Percentiles: P ₁ = 1.4 P ₁₀ = 2.6 Q ₁ = 4.6 Median = 6.4 Q ₃ = 9.3 P ₉₀ = 13.1 P ₉₉ = 21.4 | | Hours of Calibration: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Jan | 7.1 | 7.5 | 7.6 | Z | 7.8 | 7.0 | 7.6 | 9.1 | 13.1 | 10.1 | 6.5 | 6.7 | 5.7 | 5.6 | 5.4 | 5.4 | 5.8 | 6.6 | 5.7 | 6.7 | 6.1 | 5.9 | 6.0 | 7.8 | 7.09 | 13.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Jan | 6.8 | 7.3 | 6.5 | Z | 6.7 | 5.4 | 5.7 | 4.7 | 11.8 | 9.7 | 4.3 | 4.5 | 5.9 | 6.4 | 7.3 | 7.6 | 8.7 | 10.3 | 7.3 | 7.0 | 6.5 | 7.6 | 7.0 | 6.4 | 7.02 | 11.83 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Jan | 5.4 | 4.4 | 5.7 | Z | 10.4 | 8.0 | 6.2 | 9.2 | 9.2 | 9.0 | 7.2 | 6.4 | 6.0 | 5.8 | 6.5 | 7.0 | 7.4 | 7.7 | 7.6 | 7.4 | 7.0 | 6.4 | 6.3 | 7.0 | 7.10 | 10.43 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Jan | 8.1 | 11.5 | 7.4 | Z | 6.2 | 6.1 | 6.2 | 6.3 | 6.1 | 6.6 | 8.5 | 12.9 | 8.1 | 9.3 | 9.8 | 9.6 | 10.4 | 13.6 | 14.9 | 13.7 | 10.1 | 10.8 | 11.6 | 16.9 | 9.76 | 16.89 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Jan | 23.5 | 24.9 | 23.3 | Z | 17.3 | 13.7 | 12.4 | 14.1 | 9.8 | 8.3 | 7.7 | 8.2 | 9.3 | 9.5 | 10.3 | 12.4 | 16.9 | 20.5 | 21.8 | 19.7 | 18.9 | 15.1 | 14.5 | 17.1 | 15.18 | 24.91 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Jan | 16.2 | 17.6 | 16.4 | Z | 14.1 | 9.1 | 9.5 | 10.3 | 9.5 | 6.2 | 4.7 | 6.1 | 5.5 | 6.5 | 11.8 | 6.0 | 16.2 | 19.2 | 7.9 | 6.1 | 4.7 | 4.3 | 3.5 | 4.2 | 9.36 | 19.15 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Jan | 4.5 | 4.9 | 4.8 | Z | 4.9 | 7.3 | 7.1 | 6.0 | 9.1 | 8.1 | 7.2 | 6.1 | 9.4 | 6.2 | 6.4 | 6.8 | 6.2 | 6.2 | 6.2 | 5.7 | 5.5 | 5.8 | 6.8 | 5.7 | 6.38 | 9.42 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Jan | 5.6 | 5.5 | 5.0 | Z | 6.5 | 5.6 | 4.8 | 5.3 | 6.0 | 7.2 | 8.7 | 10.1 | 9.8 | 11.5 | 13.4 | 15.0 | 16.9 | 16.1 | 15.4 | 13.5 | 15.2 | 14.1 | 11.4 | 8.7 | 10.05 | 16.85 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Jan | 6.4 | 5.2 | 4.2 | Z | 3.1 | 2.8 | 2.6 | 2.5 | 2.4 | 2.4 | 2.5 | 2.5 | 2.4 | 2.3 | 2.2 | 2.3 | 2.5 | 2.7 | 2.7 | 2.2 | 2.1 | 1.6 | 1.7 | 1.8 | 2.74 | 6.44 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Jan | 1.9 | 1.9 | 2.0 | Z | 1.7 | 1.5 | 1.4 | 1.3 | 1.4 | 1.4 | 1.3 | 1.4 | 1.4 | 1.4 | 1.7 | 1.8 | 1.7 | 1.8 | 2.1 | 2.4 | 3.0 | 4.1 | 3.9 | 2.4 | 1.95 | 4.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Jan | 2.2 | 2.3 | 2.2 | Z | 2.0 | 2.2 | 2.8 | 3.4 | 5.8 | 5.7 | 4.1 | 4.8 | 5.7 | 6.0 | 5.4 | 7.7 | 10.7 | 9.1 | 10.2 | 11.3 | 11.3 | 10.0 | 9.9 | 9.3 | 6.27 | 11.34 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Jan | 9.9 | 9.3 | 9.5 | Z | 9.8 | 10.3 | 10.9 | 11.9 | 13.6 | 13.4 | 11.2 | 10.2 | 11.6 | 12.2 | 12.0 | 13.7 | 16.5 | 21.3 | 21.5 | 20.2 | 21.0 | 21.1 | 19.8 | 18.5 | 14.32 | 21.52 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Jan | 18.6 | 19.2 | 19.0 | Z | 19.5 | 18.9 | 14.9 | 12.2 | 9.9 | 9.1 | 8.0 | 7.0 | 6.4 | 4.9 | 5.1 | 6.3 | 6.8 | 5.7 | 10.8 | 8.7 | 12.5 | 9.0 | 9.3 | 5.6 | 10.75 | 19.52 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Jan | 6.7 | 6.2 | 4.2 | Z | 2.5 | 2.2 | 2.1 | 2.0 | 1.9 | 2.0 | 2.4 | 6.0 | 7.1 | 3.4 | 3.1 | 3.9 | 4.8 | 4.0 | 3.8 | 4.2 | 4.2 | 4.5 | 4.7 | 4.3 | 3.93 | 7.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Jan | 4.2 | 4.6 | 5.2 | Z | 6.3 | 5.9 | 6.2 | 5.9 | 5.8 | 5.7 | 4.0 | 2.7 | 2.6 | 2.8 | 3.5 | 4.0 | 4.6 | 4.6 | 5.5 | 5.9 | 6.5 | 7.2 | 7.8 | 8.9 | 5.24 | 8.89 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Jan | 8.3 | 6.9 | 7.1 | Z | 6.8 | 6.7 | 7.1 | 9.0 | 13.5 | 12.0 | 8.5 | 9.0 | 8.4 | 9.8 | 9.5 | 11.1 | 11.6 | 13.7 | 13.6 | 17.6 | 17.3 | 12.2 | 8.5 | 7.1 | 10.24 | 17.58 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Jan | 5.7 | 5.6 | 5.9 | Z | 3.0 | 3.3 | 3.1 | 3.1 | 4.2 | 6.0 | 5.6 | 5.9 | 5.4 | 5.0 | 4.9 | 5.1 | 6.3 | 7.0 | 8.6 | 9.4 | 9.0 | 10.4 | 10.1 | 10.1 | 6.20 | 10.37 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Jan | 7.6 | 5.1 | 4.4 | Z | 4.5 | 4.9 | 5.3 | 7.8 | 7.4 | 5.8 | 5.6 | 5.2 | 5.3 | 5.3 | 5.4 | 6.2 | 8.1 | 4.0 | 3.2 | 3.7 | 4.5 | 4.7 | 4.2 | 4.0 | 5.31 | 8.08 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Jan | 3.8 | 3.8 | 3.9 | Z | 4.4 | 5.2 | 5.7 | 5.2 | 4.9 | 5.6 | 5.4 | 4.6 | 4.1 | 4.7 | 4.0 | 3.8 | 9.0 | 7.5 | 5.9 | 4.6 | 4.1 | 8.2 | 9.2 | 14.6 | 5.74 | 14.62 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Jan | 6.2 | 4.2 | 4.0 | Z | 4.1 | 6.4 | 4.8 | 7.7 | 6.8 | 6.8 | 4.9 | 5.3 | 5.9 | 6.6 | 6.5 | 6.8 | 7.6 | 10.1 | 12.5 | 12.5 | 12.9 | 19.8 | 23.3 | 16.8 | 8.80 | 23.25 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Jan | 15.6 | 18.4 | 21.2 | Z | 19.8 | 20.0 | 17.9 | 16.0 | 14.7 | 11.9 | 7.6 | 6.0 | 6.1 | 6.3 | 6.7 | 7.5 | 8.3 | 7.9 | 7.4 | 6.1 | 5.8 | 5.5 | 5.1 | 11.7 | 11.02 | 21.22 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Jan | 9.0 | 8.9 | 13.0 | Z | 11.2 | 8.6 | 7.2 | 7.3 | 8.0 | C | C | C | C | C | C | C | 9.9 | 9.3 | 10.9 | 9.4 | 7.6 | 4.8 | 4.5 | 5.8 | -- | 12.98 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Jan | 5.4 | 5.7 | 5.5 | Z | 8.6 | 6.3 | 6.2 | 6.5 | 6.9 | 6.9 | 7.4 | 6.5 | 5.6 | 6.1 | 6.5 | 7.5 | 7.2 | 8.0 | 7.6 | 8.4 | 9.1 | 9.9 | 8.6 | 8.1 | 7.15 | 9.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Jan | 6.8 | 6.8 | 6.3 | Z | 5.7 | 5.3 | 4.7 | 4.2 | 4.0 | 6.6 | 6.6 | 5.1 | 4.4 | 4.5 | 5.1 | 7.0 | 6.8 | 7.3 | 7.8 | 7.8 | 5.9 | 4.9 | 4.3 | 4.2 | 5.74 | 7.82 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Jan | 4.3 | 4.1 | 3.9 | Z | 4.1 | 3.6 | 3.3 | 3.6 | 5.5 | 7.6 | 6.1 | 5.1 | 5.6 | 5.6 | 5.3 | 4.5 | 3.6 | 3.9 | 5.9 | 10.2 | 11.0 | 9.9 | 8.6 | 9.3 | 5.85 | 10.96 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Jan | 11.8 | 9.5 | 8.3 | Z | 12.0 | 11.1 | 11.6 | 12.6 | 12.2 | 12.8 | 12.0 | 10.9 | 10.8 | 9.8 | 12.7 | 11.0 | 5.3 | 3.7 | 4.2 | 4.5 | 3.8 | 3.5 | 3.5 | 4.3 | 8.77 | 12.79 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Jan | 6.6 | 6.1 | 5.6 | Z | 4.1 | 4.8 | 6.2 | 6.3 | 6.0 | 5.4 | 3.7 | 3.4 | 3.4 | 4.3 | 4.8 | 5.2 | 6.4 | 7.0 | 10.8 | 21.5 | 22.1 | 15.5 | 10.7 | 6.7 | 7.67 | 22.08 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Jan | 4.5 | 4.0 | 3.6 | Z | 3.5 | 3.2 | 2.9 | 2.7 | 2.7 | 2.6 | 3.2 | 2.8 | 2.3 | 2.5 | 2.4 | 2.8 | 3.9 | 4.6 | 4.6 | 5.5 | 6.2 | 6.0 | 6.1 | 6.4 | 3.86 | 6.37 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Jan | 7.6 | 8.9 | 10.0 | Z | 9.1 | 8.6 | 8.6 | 8.4 | 7.8 | 6.6 | 5.8 | 5.5 | 5.5 | 5.7 | 6.3 | 6.9 | 7.5 | 7.1 | 7.2 | 6.9 | 6.6 | 7.1 | 7.0 | 6.8 | 7.28 | 10.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Jan | 6.6 | 10.5 | 11.0 | Z | 11.2 | 9.9 | 5.9 | 8.7 | 12.6 | 10.5 | 9.9 | 10.2 | 9.2 | 9.1 | 9.3 | 10.5 | 14.4 | 8.9 | 8.4 | 6.4 | 7.0 | 6.4 | 4.2 | 2.8 | 8.85 | 14.35 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Jan | 2.3 | 2.0 | 1.8 | Z | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | 2.1 | 2.1 | 2.4 | 2.6 | 3.2 | 5.2 | 4.8 | 5.8 | 5.3 | 5.3 | 2.68 | 5.78 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 7.72 | 7.84 | 7.69 | -- | 7.50 | 6.95 | 6.54 | 6.94 | 7.56 | 7.11 | 6.07 | 6.09 | 6.01 | 6.02 | 6.51 | 6.92 | 8.20 | 8.45 | 8.56 | 8.86 | 8.79 | 8.45 | 7.98 | 8.02 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 23.55 | 24.91 | 23.33 | -- | 19.83 | 19.96 | 17.92 | 16.00 | 14.66 | 13.36 | 12.00 | 12.85 | 11.62 | 12.16 | 13.45 | 15.02 | 16.89 | 21.28 | 21.79 | 21.47 | 22.08 | 21.11 | 23.25 | 18.50 | Diurnal Maximum | |
| Z - zerospan C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 159 ppb 24-hr 106 ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Genesee
Summary of Hourly Averages

NOx (NO_x) - ppb
January 2018

| Maximum Value: 36.58 ppb on Jan 20 23:00 | | Maximum Daily Average: 17.87 ppb on Jan 5 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------|---|------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|---------------|---------------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--|
| Minimum Value: 1.2 ppb on Jan 10 08:00 | | Minimum Daily Average: 1.91 ppb on Jan 10 | | Hours of Data: 706 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 9.43 ppb at hour 17 | | Minimum Diurnal Average: 6.95 ppb at hour 7 | | Hours of Missing Data: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 8.416 ppb | | Percentiles: P ₁ = 1.4 P ₁₀ = 2.8 Q ₁ = 4.9 Median = 7.0 Q ₃ = 10.1 P ₉₀ = 16.4 P ₉₉ = 24.7 | | Hours of Calibration: 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Percentiles: P ₁ = 1.4 P ₁₀ = 2.8 Q ₁ = 4.9 Median = 7.0 Q ₃ = 10.1 P ₉₀ = 16.4 P ₉₉ = 24.7 | | Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Jan | 6.9 | 7.4 | 7.4 | Z | 7.7 | 6.9 | 7.5 | 9.0 | 13.1 | 11.0 | 7.8 | 8.9 | 8.1 | 7.0 | 6.0 | 5.8 | 6.0 | 6.6 | 5.7 | 6.7 | 6.1 | 6.0 | 6.1 | 8.0 | 7.48 | 13.15 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Jan | 7.0 | 7.5 | 6.7 | Z | 7.0 | 5.7 | 5.9 | 4.9 | 12.4 | 10.6 | 4.8 | 5.5 | 7.6 | 7.7 | 8.7 | 8.8 | 9.3 | 10.7 | 7.6 | 7.3 | 6.7 | 7.8 | 7.2 | 6.6 | 7.56 | 12.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Jan | 5.6 | 4.6 | 5.9 | Z | 10.9 | 8.2 | 6.4 | 9.4 | 9.4 | 9.7 | 8.7 | 8.1 | 7.6 | 7.4 | 7.9 | 8.1 | 7.9 | 7.9 | 7.8 | 7.6 | 7.2 | 6.6 | 6.5 | 7.2 | 7.69 | 10.93 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Jan | 8.3 | 11.8 | 7.6 | Z | 6.4 | 6.3 | 6.4 | 6.6 | 6.3 | 7.1 | 12.1 | 21.8 | 10.9 | 12.2 | 12.0 | 11.3 | 11.2 | 14.0 | 15.3 | 14.2 | 10.6 | 11.3 | 12.1 | 17.3 | 11.01 | 21.80 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Jan | 25.3 | 27.3 | 26.0 | Z | 19.4 | 15.2 | 13.7 | 16.2 | 11.2 | 9.8 | 10.9 | 13.0 | 16.2 | 16.5 | 16.7 | 17.4 | 19.7 | 21.7 | 22.9 | 21.0 | 20.2 | 16.3 | 15.5 | 18.9 | 17.87 | 27.35 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Jan | 17.9 | 21.5 | 18.3 | Z | 15.7 | 10.5 | 10.3 | 11.6 | 10.4 | 6.9 | 5.3 | 7.5 | 6.8 | 8.5 | 16.3 | 7.0 | 21.4 | 21.2 | 8.6 | 6.5 | 5.0 | 4.5 | 3.7 | 4.4 | 10.86 | 21.48 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Jan | 4.7 | 5.1 | 4.9 | Z | 5.1 | 7.5 | 7.3 | 6.2 | 9.3 | 8.5 | 8.2 | 7.4 | 12.2 | 7.3 | 7.4 | 6.5 | 6.4 | 6.4 | 5.9 | 5.8 | 6.0 | 7.0 | 6.0 | 6.0 | 6.89 | 12.20 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Jan | 5.8 | 5.6 | 5.1 | Z | 6.7 | 5.8 | 5.0 | 5.5 | 6.2 | 7.7 | 10.0 | 13.2 | 13.1 | 15.4 | 18.2 | 19.6 | 19.7 | 17.2 | 16.5 | 14.5 | 15.8 | 14.6 | 11.8 | 9.0 | 11.39 | 19.67 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Jan | 6.8 | 5.4 | 4.3 | Z | 3.2 | 2.9 | 2.7 | 2.6 | 2.4 | 2.4 | 2.6 | 2.7 | 2.5 | 2.4 | 2.3 | 2.3 | 2.5 | 2.7 | 2.7 | 2.2 | 2.1 | 1.5 | 1.7 | 1.8 | 2.81 | 6.76 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Jan | 1.9 | 1.9 | 1.9 | Z | 1.6 | 1.4 | 1.4 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.4 | 1.5 | 1.8 | 1.9 | 1.7 | 1.7 | 2.0 | 2.4 | 3.0 | 4.0 | 3.8 | 2.4 | 1.91 | 3.96 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Jan | 2.2 | 2.2 | 2.1 | Z | 2.0 | 2.2 | 2.7 | 3.3 | 6.1 | 6.1 | 4.9 | 6.6 | 8.6 | 8.4 | 7.0 | 9.6 | 11.6 | 9.0 | 10.1 | 11.2 | 11.2 | 9.9 | 9.7 | 9.2 | 6.79 | 11.62 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Jan | 9.7 | 9.2 | 9.4 | Z | 9.7 | 10.2 | 10.8 | 11.8 | 13.6 | 17.7 | 15.9 | 15.6 | 21.1 | 20.9 | 18.0 | 18.1 | 19.2 | 21.9 | 21.7 | 20.3 | 21.1 | 21.3 | 19.9 | 18.7 | 16.34 | 21.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Jan | 18.8 | 19.3 | 19.1 | Z | 19.9 | 20.7 | 15.1 | 12.3 | 10.0 | 9.5 | 9.1 | 8.5 | 8.2 | 6.0 | 6.1 | 7.3 | 7.4 | 6.0 | 11.3 | 9.0 | 13.0 | 9.3 | 9.5 | 5.9 | 11.36 | 20.65 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Jan | 6.9 | 6.4 | 4.4 | Z | 2.7 | 2.3 | 2.2 | 2.1 | 2.0 | 2.0 | 2.6 | 7.1 | 9.1 | 4.0 | 3.6 | 4.4 | 5.1 | 4.1 | 3.8 | 4.2 | 4.2 | 4.5 | 4.8 | 4.3 | 4.21 | 9.11 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Jan | 4.2 | 4.6 | 5.2 | Z | 6.3 | 6.0 | 6.3 | 5.9 | 5.9 | 6.1 | 4.8 | 3.6 | 3.5 | 3.8 | 4.5 | 4.7 | 4.9 | 4.6 | 5.7 | 6.0 | 6.6 | 7.3 | 7.9 | 9.0 | 5.55 | 8.97 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Jan | 8.4 | 7.0 | 7.2 | Z | 6.9 | 6.8 | 7.2 | 9.1 | 14.6 | 14.3 | 11.4 | 14.2 | 13.3 | 16.3 | 14.1 | 15.3 | 13.4 | 14.3 | 14.0 | 18.5 | 18.2 | 13.0 | 8.9 | 7.5 | 11.93 | 18.50 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Jan | 6.1 | 6.1 | 6.5 | Z | 3.4 | 3.6 | 3.4 | 3.3 | 4.4 | 6.5 | 6.5 | 7.1 | 6.7 | 6.1 | 5.8 | 5.9 | 6.7 | 7.3 | 8.8 | 9.6 | 9.1 | 10.6 | 10.2 | 10.3 | 6.70 | 10.56 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Jan | 7.9 | 5.4 | 4.7 | Z | 4.8 | 5.2 | 5.6 | 8.1 | 7.7 | 6.3 | 6.3 | 6.4 | 6.8 | 6.9 | 6.9 | 7.6 | 9.1 | 4.5 | 3.6 | 4.0 | 4.8 | 5.0 | 4.5 | 4.2 | 5.92 | 9.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Jan | 4.0 | 4.0 | 4.0 | Z | 4.6 | 5.4 | 5.9 | 5.4 | 5.0 | 5.9 | 6.0 | 5.2 | 4.7 | 5.5 | 4.5 | 4.2 | 9.7 | 8.0 | 6.3 | 5.0 | 4.5 | 8.5 | 9.4 | 15.0 | 6.11 | 15.02 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Jan | 6.5 | 4.5 | 4.3 | Z | 4.3 | 6.6 | 5.1 | 8.0 | 7.1 | 7.4 | 5.8 | 6.5 | 7.6 | 8.6 | 8.0 | 8.1 | 8.4 | 10.5 | 12.8 | 12.9 | 13.6 | 28.2 | 36.6 | 24.3 | 10.68 | 36.58 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Jan | 18.9 | 22.7 | 28.8 | Z | 24.9 | 24.4 | 20.8 | 18.3 | 16.6 | 16.9 | 11.8 | 8.6 | 9.3 | 9.3 | 9.3 | 10.0 | 9.5 | 8.3 | 7.7 | 6.4 | 6.0 | 5.7 | 5.3 | 14.3 | 13.64 | 28.78 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Jan | 9.7 | 9.4 | 14.8 | Z | 12.5 | 9.6 | 7.5 | 7.5 | 8.2 | C | C | C | C | C | C | C | 11.6 | 10.2 | 11.7 | 10.2 | 8.3 | 5.3 | 4.9 | 6.2 | -- | 14.78 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Jan | 5.7 | 5.9 | 5.6 | Z | 8.6 | 6.4 | 6.4 | 6.6 | 7.0 | 7.3 | 8.5 | 8.3 | 7.1 | 8.2 | 8.4 | 8.8 | 7.7 | 8.2 | 7.6 | 8.5 | 9.2 | 9.9 | 8.7 | 8.2 | 7.69 | 9.94 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Jan | 6.9 | 6.8 | 6.3 | Z | 5.8 | 5.3 | 4.7 | 4.3 | 4.1 | 8.0 | 9.5 | 7.0 | 5.8 | 6.2 | 6.9 | 9.2 | 7.8 | 7.5 | 8.0 | 8.0 | 6.0 | 5.0 | 4.4 | 4.4 | 6.43 | 9.50 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Jan | 4.5 | 4.3 | 4.1 | Z | 4.2 | 3.8 | 3.5 | 3.8 | 5.7 | 8.2 | 6.8 | 5.9 | 6.8 | 6.7 | 5.9 | 4.9 | 3.8 | 4.1 | 6.2 | 11.0 | 12.7 | 10.8 | 9.2 | 10.3 | 6.39 | 12.69 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Jan | 15.8 | 11.6 | 9.5 | Z | 18.3 | 16.4 | 16.3 | 18.5 | 17.0 | 21.6 | 20.5 | 17.1 | 14.5 | 12.3 | 17.5 | 14.3 | 5.7 | 3.8 | 4.4 | 4.6 | 3.9 | 3.6 | 3.5 | 4.4 | 11.96 | 21.63 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Jan | 6.7 | 6.2 | 5.6 | Z | 4.1 | 4.8 | 6.2 | 6.3 | 6.1 | 6.1 | 4.4 | 4.5 | 4.5 | 6.2 | 6.4 | 6.6 | 7.3 | 7.2 | 10.8 | 23.6 | 23.7 | 16.0 | 11.0 | 6.8 | 8.29 | 23.72 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Jan | 4.6 | 4.0 | 3.6 | Z | 3.5 | 3.2 | 2.9 | 2.7 | 2.8 | 2.8 | 4.2 | 3.7 | 2.8 | 3.4 | 3.1 | 3.3 | 4.4 | 4.7 | 4.6 | 5.5 | 6.2 | 5.9 | 6.1 | 6.3 | 4.09 | 6.33 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Jan | 7.5 | 8.9 | 9.9 | Z | 9.0 | 8.6 | 8.5 | 8.4 | 7.9 | 7.6 | 7.7 | 7.5 | 7.9 | 8.0 | 8.1 | 8.5 | 8.5 | 7.3 | 7.2 | 6.9 | 6.6 | 7.1 | 7.0 | 6.9 | 7.89 | 9.91 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Jan | 6.7 | 13.5 | 12.1 | Z | 13.8 | 10.9 | 6.2 | 9.9 | 16.0 | 17.1 | 16.2 | 16.4 | 15.3 | 16.4 | 16.5 | 16.9 | 22.3 | 9.7 | 8.7 | 6.6 | 7.1 | 6.5 | 4.3 | 2.9 | 11.83 | 22.27 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Jan | 2.3 | 2.0 | 1.8 | Z | 1.7 | 1.8 | 1.7 | 1.7 | 1.7 | 1.5 | 1.7 | 1.7 | 1.7 | 1.9 | 2.4 | 2.3 | 2.5 | 2.6 | 3.1 | 5.1 | 4.7 | 5.7 | 5.3 | 5.2 | 2.70 | 5.70 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 8.20 | 8.46 | 8.30 | -- | 8.22 | 7.56 | 6.95 | 7.42 | 8.12 | 8.47 | 7.88 | 8.36 | 8.39 | 8.36 | 8.68 | 8.65 | 9.43 | 8.83 | 8.82 | 9.21 | 9.14 | 8.96 | 8.60 | 8.57 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 25.32 | 27.35 | 28.78 | -- | 24.91 | 24.37 | 20.79 | 18.48 | 16.97 | 21.63 | 20.45 | 21.80 | 21.11 | 20.86 | 18.15 | 19.60 | 22.27 | 21.86 | 22.90 | 23.62 | 23.72 | 28.20 | 36.58 | 24.34 | Diurnal Maximum | |
| Z - zerospan C - Calibration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alberta Ambient Air Quality Objectives (AAAQO): 1-hr --- ppb 24-hr --- ppb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



WCAS - Genesee
Summary of Hourly Averages

PM2.5_Sharp (PM_{2.5}) - µg/m³
January 2018

| Maximum Value: 27.24 µg/m ³ on Jan 22 09:00 Maximum Daily Average: 20.29 µg/m ³ on Jan 5 | | | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 Hours of Data: 744 | | | | |
|---|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|-----------------|---------------|---------------|
| Minimum Value: 2.1 µg/m ³ on Jan 17 04:00 Minimum Daily Average: 3.65 µg/m ³ on Jan 19 Maximum Diurnal Average: 10.62 µg/m ³ at hour 1 Minimum Diurnal Average: 7.39 µg/m ³ at hour 14 Monthly Average: 9.091 µg/m ³ Percentiles: P ₁ = 2.3 P ₁₀ = 3.6 Q ₁ = 4.6 Median = 7.5 Q ₃ = 11.7 P ₉₀ = 18.7 P ₉₉ = 24.7 | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 0 Hours of Calibration: 0 Percent Operational Time: 100.0 | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1-Jan | 8.0 | 9.2 | 9.9 | 10.4 | 10.9 | 9.0 | 8.5 | 8.6 | 9.6 | 9.4 | 7.8 | 5.5 | 5.6 | 3.4 | 2.8 | 3.1 | 3.1 | 2.7 | 3.4 | 2.8 | 2.5 | 3.0 | 3.8 | 3.4 | 6.09 | 10.86 |
| 2-Jan | 3.3 | 3.4 | 3.7 | 3.7 | 3.2 | 3.7 | 4.5 | 4.3 | 4.8 | 4.8 | 4.8 | 4.3 | 3.6 | 4.8 | 6.6 | 7.7 | 7.8 | 7.1 | 8.2 | 8.8 | 7.3 | 9.5 | 11.4 | 10.2 | 5.89 | 11.38 |
| 3-Jan | 10.0 | 8.1 | 7.1 | 7.7 | 8.2 | 9.4 | 7.9 | 8.5 | 8.1 | 8.5 | 7.7 | 6.2 | 5.2 | 5.4 | 6.8 | 6.5 | 6.9 | 6.4 | 8.7 | 6.2 | 6.5 | 7.6 | 7.9 | 10.6 | 7.59 | 10.63 |
| 4-Jan | 10.4 | 7.0 | 8.9 | 9.7 | 9.2 | 9.7 | 10.5 | 9.9 | 8.9 | 8.1 | 8.1 | 7.1 | 6.7 | 6.9 | 7.9 | 8.0 | 8.4 | 8.8 | 9.6 | 10.3 | 12.5 | 16.7 | 22.8 | 23.6 | 10.41 | 23.62 |
| 5-Jan | 21.9 | 19.5 | 17.9 | 18.5 | 11.8 | 14.9 | 11.9 | 16.8 | 20.1 | 19.1 | 20.1 | 19.7 | 21.3 | 23.6 | 22.2 | 22.0 | 24.5 | 24.9 | 26.5 | 25.6 | 26.2 | 20.2 | 18.3 | 19.5 | 20.29 | 26.53 |
| 6-Jan | 23.1 | 22.9 | 19.5 | 17.7 | 16.7 | 9.1 | 7.3 | 7.7 | 6.5 | 3.9 | 4.2 | 4.4 | 3.5 | 3.3 | 3.5 | 3.2 | 4.0 | 4.2 | 3.8 | 5.5 | 4.9 | 5.0 | 4.4 | 5.8 | 8.10 | 23.14 |
| 7-Jan | 6.7 | 6.3 | 6.6 | 6.7 | 5.4 | 5.6 | 5.7 | 4.4 | 3.9 | 3.9 | 4.0 | 3.4 | 3.6 | 4.4 | 5.7 | 5.7 | 6.0 | 7.2 | 8.9 | 7.2 | 6.0 | 6.4 | 7.4 | 6.0 | 5.72 | 8.93 |
| 8-Jan | 5.7 | 4.9 | 5.0 | 6.2 | 7.5 | 8.5 | 10.3 | 12.6 | 13.4 | 12.8 | 11.3 | 10.9 | 9.6 | 9.4 | 10.3 | 11.1 | 9.4 | 12.8 | 10.0 | 13.0 | 13.3 | 21.3 | 24.8 | 21.6 | 11.48 | 24.80 |
| 9-Jan | 22.2 | 22.3 | 16.7 | 15.6 | 13.5 | 8.9 | 6.9 | 6.2 | 5.2 | 5.1 | 4.9 | 4.7 | 4.3 | 4.1 | 4.4 | 4.6 | 5.3 | 6.3 | 6.3 | 6.6 | 9.4 | 6.9 | 9.5 | 8.3 | 8.67 | 22.31 |
| 10-Jan | 9.6 | 8.3 | 7.5 | 7.2 | 6.3 | 6.1 | 5.9 | 5.5 | 5.2 | 4.8 | 4.5 | 4.1 | 4.1 | 4.3 | 4.3 | 4.6 | 4.2 | 5.4 | 4.7 | 5.0 | 4.5 | 4.2 | 4.6 | 3.8 | 5.37 | 9.59 |
| 11-Jan | 4.6 | 4.9 | 5.1 | 4.0 | 4.3 | 5.6 | 7.2 | 6.0 | 5.9 | 6.1 | 5.6 | 5.3 | 4.7 | 5.2 | 7.0 | 8.5 | 8.4 | 8.1 | 8.4 | 8.7 | 8.8 | 9.2 | 10.3 | 10.6 | 6.77 | 10.59 |
| 12-Jan | 11.8 | 14.6 | 15.9 | 15.8 | 14.9 | 15.9 | 17.9 | 18.5 | 18.8 | 17.7 | 17.6 | 16.3 | 15.1 | 13.7 | 14.1 | 17.1 | 20.0 | 19.7 | 17.9 | 18.1 | 19.0 | 19.9 | 21.6 | 22.1 | 17.25 | 22.08 |
| 13-Jan | 21.7 | 19.4 | 19.4 | 18.8 | 18.1 | 17.9 | 14.0 | 10.4 | 9.4 | 8.9 | 8.0 | 6.0 | 4.4 | 3.3 | 3.8 | 4.3 | 4.4 | 4.6 | 4.3 | 3.3 | 3.0 | 2.8 | 3.1 | 3.1 | 9.04 | 21.73 |
| 14-Jan | 3.2 | 3.3 | 3.6 | 4.4 | 5.4 | 5.2 | 5.0 | 5.0 | 4.2 | 4.0 | 4.4 | 10.2 | 21.5 | 6.1 | 6.3 | 6.2 | 6.0 | 7.1 | 7.2 | 7.1 | 7.5 | 6.9 | 6.8 | 7.2 | 6.41 | 21.53 |
| 15-Jan | 7.5 | 8.6 | 9.2 | 9.3 | 10.6 | 13.1 | 10.8 | 9.1 | 9.4 | 9.2 | 8.4 | 8.2 | 7.7 | 6.4 | 4.9 | 4.0 | 4.3 | 4.4 | 5.7 | 7.4 | 8.5 | 10.0 | 11.4 | 13.0 | 8.38 | 13.06 |
| 16-Jan | 12.9 | 11.9 | 12.0 | 14.0 | 14.7 | 19.5 | 21.7 | 19.4 | 20.5 | 19.8 | 20.2 | 18.4 | 15.9 | 16.2 | 16.5 | 16.4 | 16.4 | 17.4 | 18.0 | 17.7 | 9.9 | 5.5 | 6.5 | 10.8 | 15.50 | 21.71 |
| 17-Jan | 7.9 | 5.0 | 2.8 | 2.1 | 2.6 | 4.2 | 5.0 | 5.0 | 4.4 | 2.8 | 2.3 | 2.1 | 2.1 | 2.5 | 2.6 | 3.6 | 9.2 | 6.7 | 5.9 | 4.6 | 5.0 | 5.5 | 5.6 | 4.23 | 9.16 | |
| 18-Jan | 6.1 | 4.8 | 3.9 | 4.0 | 5.2 | 8.9 | 7.4 | 4.6 | 3.6 | 5.1 | 3.9 | 2.7 | 2.5 | 2.2 | 2.5 | 2.4 | 2.8 | 2.4 | 2.3 | 3.5 | 2.8 | 2.7 | 3.8 | 3.8 | 3.91 | 8.86 |
| 19-Jan | 3.6 | 3.7 | 3.9 | 4.4 | 4.7 | 4.6 | 4.5 | 4.7 | 4.7 | 4.4 | 3.9 | 3.2 | 2.5 | 2.3 | 2.4 | 2.7 | 4.3 | 3.1 | 2.6 | 2.4 | 2.4 | 3.2 | 4.4 | 5.1 | 3.65 | 5.11 |
| 20-Jan | 4.7 | 4.6 | 4.6 | 4.4 | 4.7 | 5.4 | 6.0 | 7.5 | 8.7 | 9.9 | 7.6 | 12.3 | 14.2 | 15.8 | 19.2 | 18.0 | 18.8 | 18.9 | 17.1 | 19.3 | 22.0 | 26.8 | 24.3 | 13.6 | 12.85 | 26.76 |
| 21-Jan | 15.3 | 16.0 | 14.6 | 16.3 | 12.2 | 13.0 | 14.1 | 17.1 | 18.8 | 15.6 | 16.3 | 14.8 | 14.6 | 12.4 | 12.2 | 11.2 | 9.9 | 10.5 | 11.3 | 10.8 | 9.0 | 7.8 | 8.0 | 11.7 | 13.05 | 18.77 |
| 22-Jan | 15.0 | 16.4 | 17.7 | 18.1 | 18.0 | 19.4 | 19.9 | 23.9 | 27.2 | 22.8 | 19.1 | 16.9 | 14.2 | 12.9 | 10.6 | 8.9 | 7.5 | 8.5 | 8.0 | 5.8 | 5.8 | 5.7 | 6.2 | 7.0 | 13.98 | 27.24 |
| 23-Jan | 7.0 | 6.0 | 5.3 | 4.9 | 4.9 | 4.6 | 4.6 | 4.7 | 4.7 | 4.1 | 3.5 | 3.3 | 3.0 | 4.1 | 5.6 | 5.9 | 6.4 | 5.3 | 9.9 | 14.0 | 13.7 | 12.6 | 16.8 | 14.2 | 7.06 | 16.80 |
| 24-Jan | 11.5 | 10.6 | 10.6 | 11.2 | 11.5 | 11.1 | 13.2 | 12.1 | 12.1 | 14.9 | 15.0 | 11.9 | 11.5 | 11.8 | 14.4 | 14.4 | 14.0 | 18.8 | 20.7 | 20.1 | 19.6 | 20.0 | 20.2 | 21.2 | 14.69 | 21.24 |
| 25-Jan | 22.5 | 22.0 | 21.4 | 20.5 | 18.9 | 17.2 | 18.7 | 20.3 | 22.4 | 21.1 | 19.2 | 18.1 | 17.3 | 13.9 | 13.6 | 10.4 | 6.0 | 7.9 | 8.9 | 11.2 | 11.6 | 10.4 | 10.8 | 9.4 | 15.57 | 22.52 |
| 26-Jan | 8.1 | 7.7 | 6.9 | 6.5 | 6.1 | 5.7 | 5.0 | 4.8 | 4.3 | 4.2 | 3.8 | 4.0 | 3.5 | 3.7 | 4.3 | 3.9 | 4.1 | 4.2 | 3.7 | 3.7 | 4.0 | 4.6 | 6.0 | 5.6 | 4.93 | 8.13 |
| 27-Jan | 7.9 | 7.5 | 6.5 | 6.5 | 6.9 | 7.0 | 7.1 | 6.5 | 7.4 | 7.2 | 5.5 | 4.6 | 3.7 | 3.6 | 3.7 | 4.5 | 5.9 | 6.8 | 7.8 | 10.1 | 11.5 | 9.9 | 10.6 | 9.9 | 7.03 | 11.50 |
| 28-Jan | 7.5 | 7.2 | 5.5 | 4.5 | 3.9 | 4.0 | 3.7 | 3.7 | 4.0 | 3.7 | 3.7 | 3.0 | 2.9 | 2.7 | 2.8 | 3.7 | 4.4 | 5.5 | 6.1 | 6.9 | 7.3 | 8.1 | 9.7 | 10.2 | 5.20 | 10.17 |
| 29-Jan | 10.8 | 11.7 | 11.8 | 9.8 | 8.7 | 10.2 | 12.1 | 12.5 | 11.3 | 9.4 | 8.8 | 10.6 | 10.4 | 10.3 | 9.7 | 9.9 | 10.0 | 8.5 | 8.6 | 8.3 | 8.7 | 9.3 | 9.9 | 10.7 | 10.09 | 12.51 |
| 30-Jan | 10.9 | 12.2 | 11.7 | 9.9 | 7.0 | 5.7 | 6.0 | 7.1 | 8.1 | 8.3 | 7.8 | 7.2 | 7.1 | 8.0 | 8.4 | 7.7 | 7.5 | 11.3 | 11.1 | 9.6 | 8.9 | 9.6 | 7.5 | 7.7 | 8.60 | 12.18 |
| 31-Jan | 7.8 | 6.0 | 4.9 | 4.5 | 4.0 | 3.9 | 4.3 | 4.3 | 3.8 | 3.3 | 3.4 | 2.8 | 2.4 | 2.6 | 2.8 | 3.2 | 3.6 | 3.9 | 3.8 | 4.2 | 4.0 | 4.1 | 4.2 | 4.8 | 4.03 | 7.83 |
| 10.62 10.20 9.69 9.60 9.03 9.25 9.27 9.41 9.66 9.13 8.56 8.14 8.02 7.39 7.80 7.83 8.00 8.77 9.03 9.32 9.21 9.51 10.41 10.33 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | |
| 23.14 22.95 21.43 20.55 18.92 19.54 21.71 23.89 27.24 22.84 20.22 19.75 21.53 23.58 22.16 21.98 24.51 24.93 26.53 25.61 26.23 26.76 24.80 23.62 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | |
| Alberta Ambient Air Quality Objectives (AAAQO): 1-hr 80 ul/m^3 24-hr 30 ul/m^3 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee
 Calibration Date: January 22, 2018
 Parameter: NO/NO₂/NO_x

| | | |
|---|---|---|
| Instrument: Teco 42 i | Serial Number: 1150790046 | Previous Calibration Date: December 19 2017 |
| Calibration: Routine | Calibration Equipment: SABIO 2010 sn 04300810 | Barometric Pressure: 27.20" Hg |
| Calibration Method: Standard Gas Dilution/ GPT | Cylinder ID: EX00124987 | Temperature: 21.7° C |
| Cylinder Concentration: 27.4 ppm NO, 27.5 NO _x | In Service: Dec 6 2017 Exp: Oct 2020 | Technician: Dean Yustak |

| Instrument Settings | NO bkg ppb | NO _x bkg ppb | Pre-reactor bkg ppb | NO Coefficient | NO _x Coefficient | NO ₂ Coefficient | Monitoring Range |
|---------------------|---------------|----------------------------|------------------------|-------------------|--------------------------------|--------------------------------|---------------------|
| Previous | 2.9 | 4.0 | na | 1.511 | 1.006 | 1.000 | 500 ppb |
| Current | 2.7 | 3.5 | na | 1.459 | 1.008 | 1.000 | 500 ppb |

| | | | |
|-----------------|----------------------|-----------------------|-----------------------------------|
| NO | Final Zero: -0.2 ppb | Final Span: 343.5 ppb | As Found Correction Factor: 0.973 |
| NO ₂ | Final Zero: -1.0 ppb | Final Span: 1.9 ppb | As Found Correction Factor: NA |
| NO _x | Final Zero: -0.7 ppb | Final Span: 345.1 ppb | As Found Correction Factor: 0.974 |

| Results of Linear Regression | | | Slope | Intercept | R ² |
|------------------------------|----------------------------------|----------|-----------|-----------|----------------|
| NO | R _c vs C _c | Previous | 59.932170 | 24.641570 | 0.999999 |
| | | Current | 59.810860 | 18.981490 | 0.999997 |
| | C _i vs C _c | Current | 1.000000 | 0.000044 | 0.999996 |
| NO ₂ | R _c vs C _c | Previous | 59.966340 | -8.934217 | 0.999999 |
| | | Current | 59.784720 | 42.836920 | 0.999988 |
| | C _i vs C _c | Current | 1.000000 | 0.000037 | 0.999988 |
| NO _x | R _c vs C _c | Previous | 59.958410 | 18.606020 | 0.999999 |
| | | Current | 59.903760 | 16.772350 | 0.999998 |
| | C _i vs C _c | Current | 1.000000 | -0.000008 | 0.999998 |

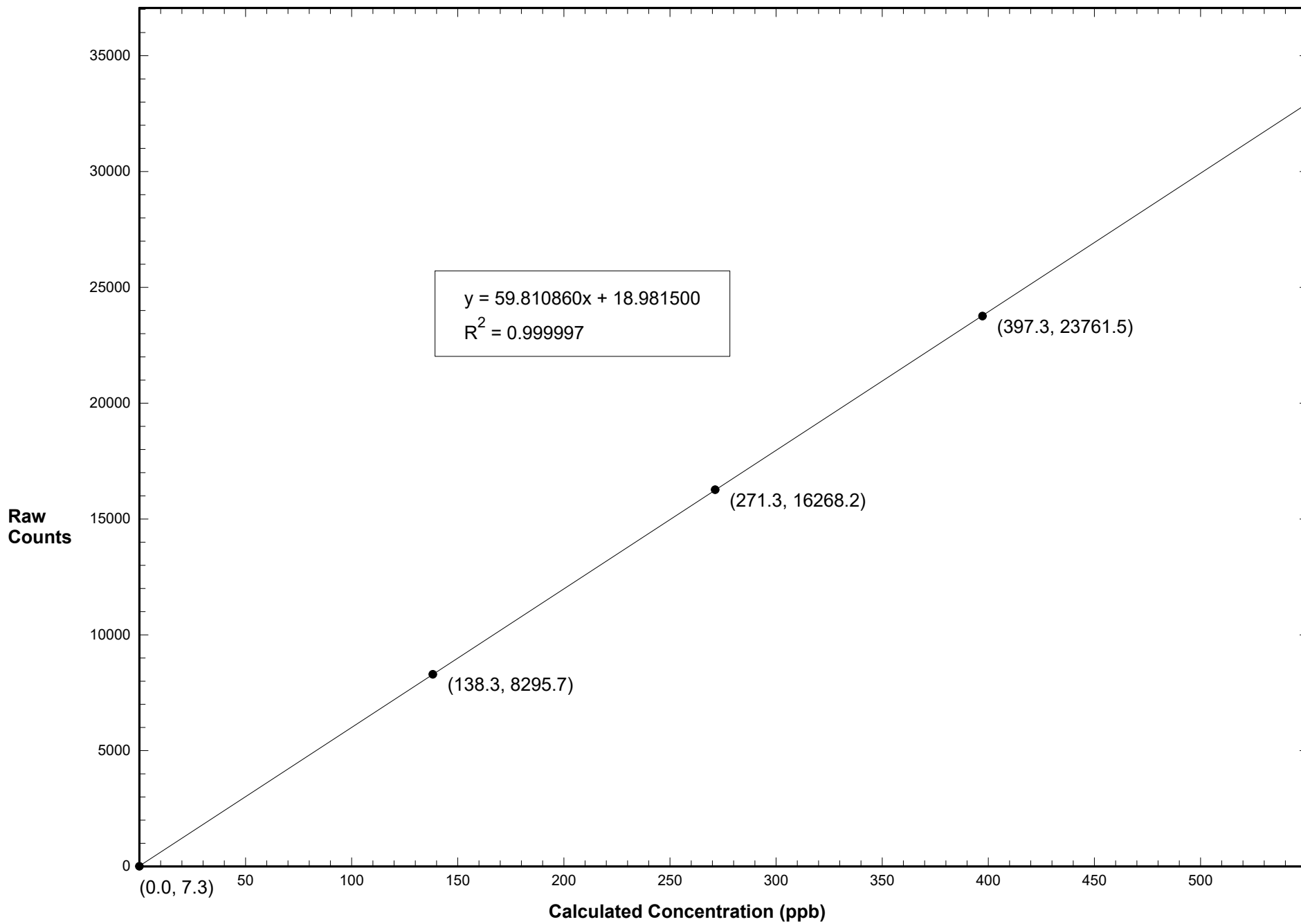
Comments: Sample Flow: 0.468 lpm

Calibration Data Summary (Page 2)

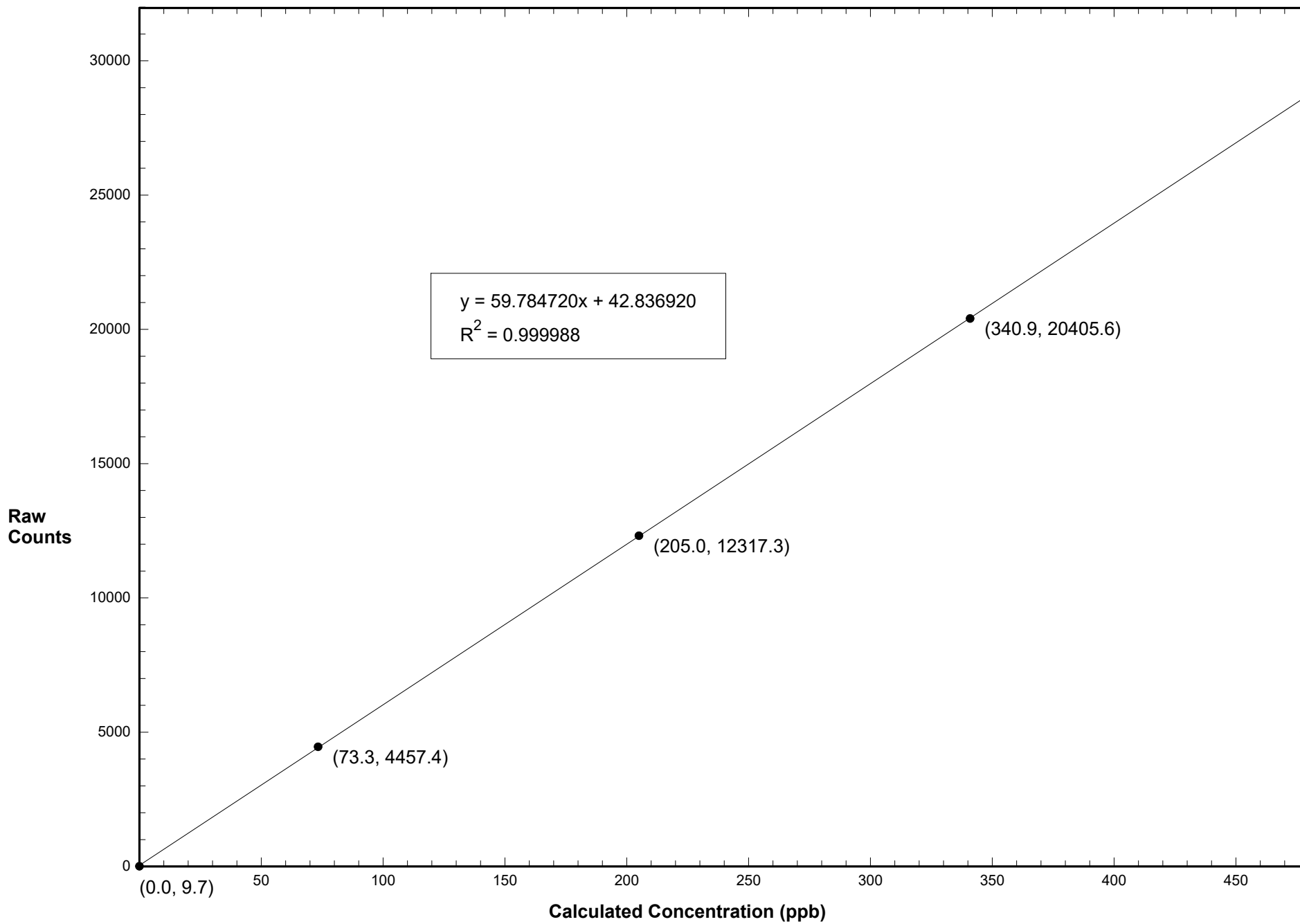
January 22, 2018 - Station 910

| NO Flow Rate (LPM) | Dilution Flow Rate (LPM) | Calculated Concentration C _c (ppb) | Raw Count Output R _c | Indicated Concentration C _i (ppb) | Correction Factor C _c /C _i | | |
|-------------------------------------|------------------------------|---|---|--|--|--|---|
| 0.07356 | 5.000 | 397.3 | 23761.5 | 397.0 | 1.001 | | |
| 0.05000 | 5.000 | 271.3 | 16268.2 | 271.7 | 0.999 | | |
| 0.02536 | 5.000 | 138.3 | 8295.7 | 138.4 | 0.999 | | |
| 0.00000 | 4.942 | 0.0 | 7.3 | -0.2 | | | |
| NO Calibration | | | | | Average Correction Factor: | 1.000 | |
| 0.07356 | 5.000 | 398.7 | 23888.2 | 398.5 | 1.001 | | |
| 0.05000 | 5.000 | 272.3 | 16341.4 | 272.5 | 0.999 | | |
| 0.02536 | 5.000 | 138.8 | 8339.6 | 138.9 | 0.999 | | |
| 0.00000 | 4.942 | 0.0 | 6.0 | -0.2 | | | |
| NO _x Calibration | | | | | Average Correction Factor: | 1.000 | |
| Reference Concentration NO (ppb) | Raw Count Output NO | Calculated Concentration NO (ppb) | Calculated Concentration NO ₂ , C _c (ppb) | Raw Count Output R _c | Indicated Concentration C _i (ppb) | Correction Factor C _c /C _i | Converter Efficiency C _i /C _c |
| 398.3 | 3450.0 | 57.4 | 340.9 | 20405.6 | 340.6 | 1.001 | 0.999 |
| 398.3 | 11578.4 | 193.3 | 205.0 | 12317.3 | 205.3 | 0.999 | 1.002 |
| 398.3 | 19456.2 | 325.0 | 73.3 | 4457.4 | 73.8 | 0.993 | 1.008 |
| | | | 0.0 | 9.7 | -0.6 | | |
| | | | | | | Average Correction Factor: | 0.997 |
| NO ₂ Gas Phase Titration | | | | | | Average Converter Efficiency: | 1.003 |
| Parameter | Correction Factor (Previous) | Correction Factor: (Current) | Percent Change of Correction Factor | | | | |
| NO | 1.000 | 1.001 | 0.1 | | | | |
| NO ₂ | 0.999 | 1.001 | 0.2 | | | | |
| NO _x | 1.000 | 1.001 | 0.1 | | | | |

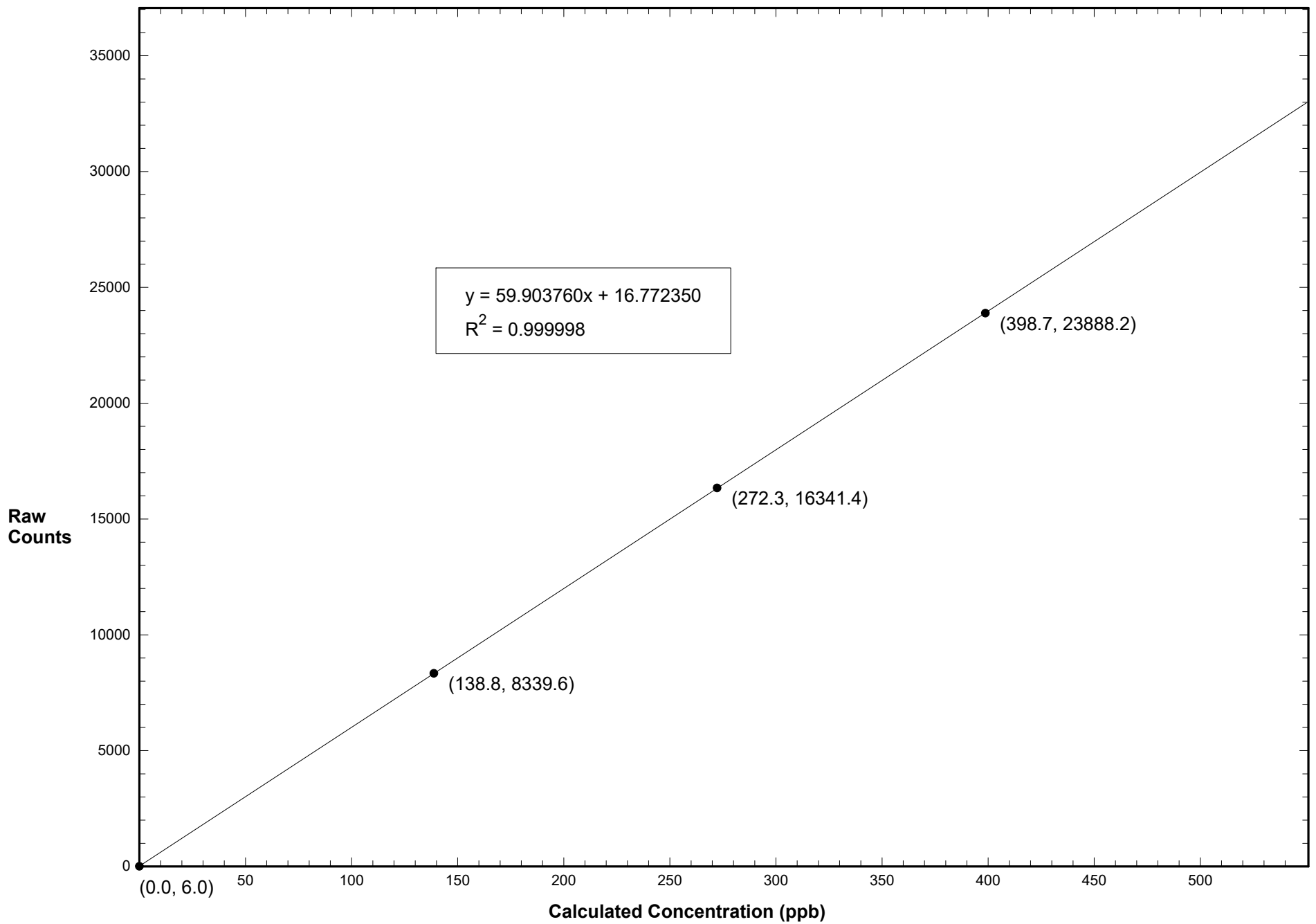
Station 910 NO January 22, 2018: Linear Regression



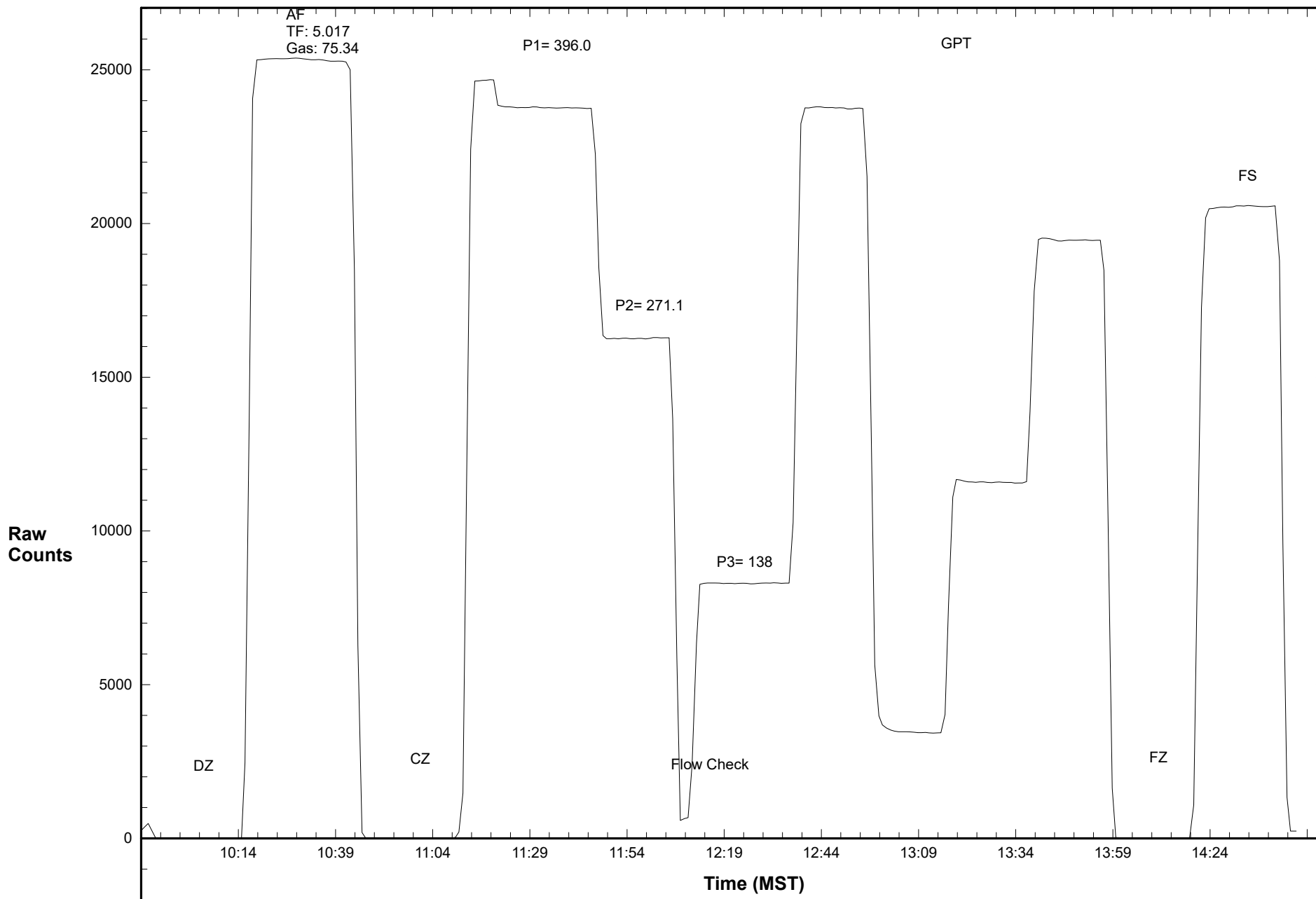
Station 910 NO2 January 22, 2018: Linear Regression



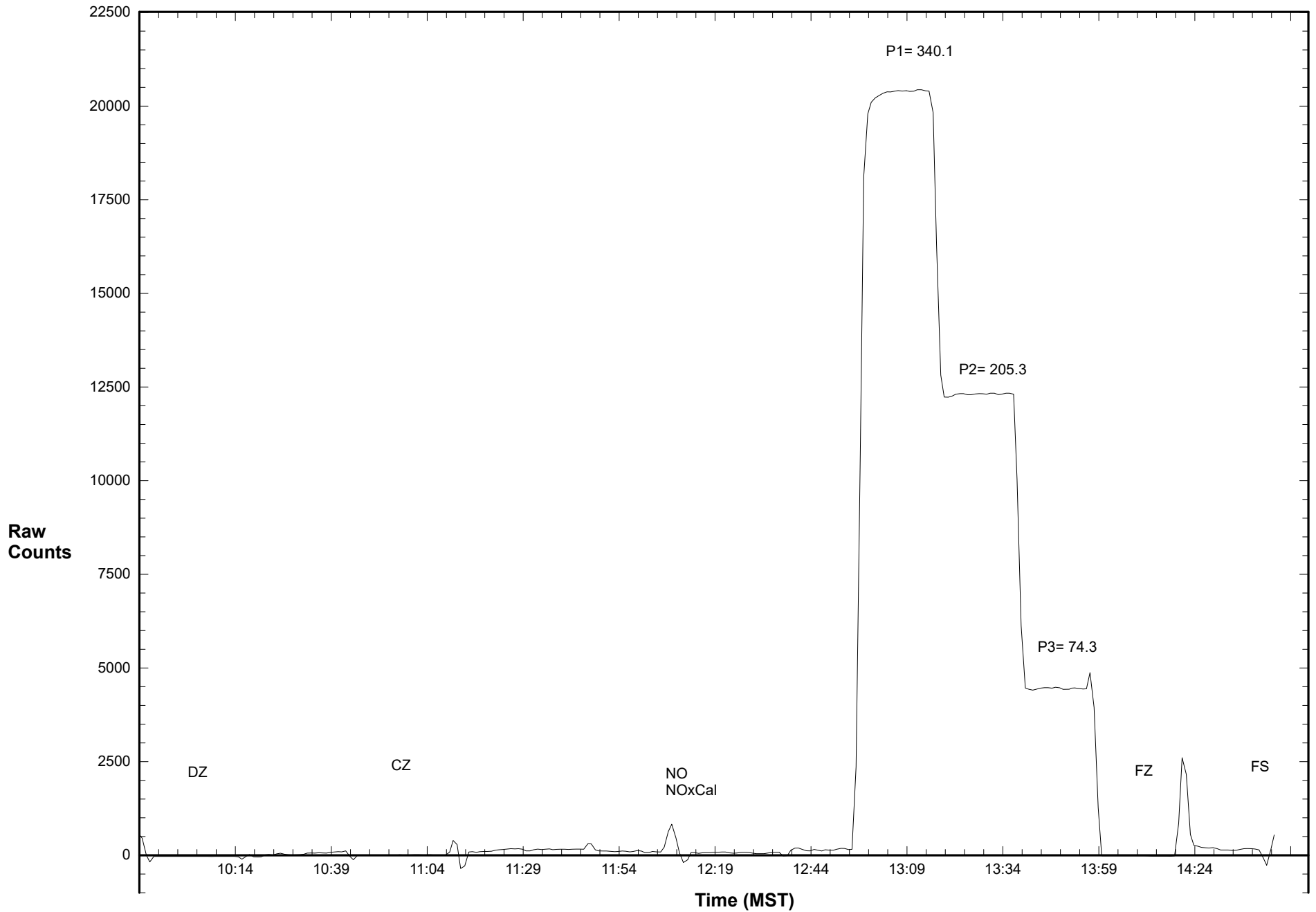
Station 910 NOX January 22, 2018: Linear Regression



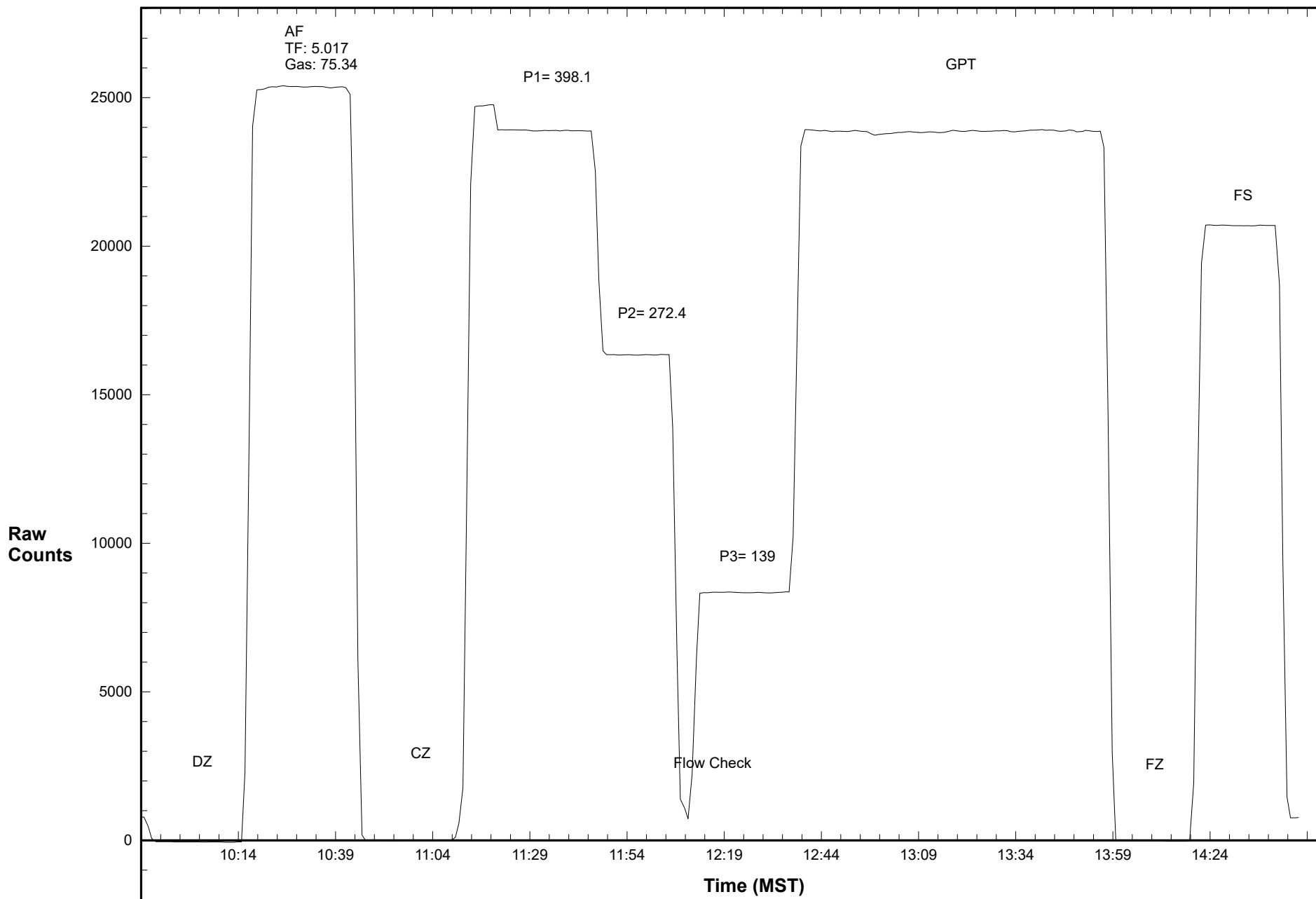
Station 910 NO January 22, 2018: Calibration Graph



Station 910 NO2 January 22, 2018: Calibration Graph



Station 910 NOX January 22, 2018: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee
 Calibration Date: January 22, 2018
 Parameter: O₃

Instrument: Teco 49i

Serial Number: 1150790051

Previous Calibration Date: December 19 2017

Calibration: Routine

Calibration Equipment: 2B Technology 306 SN 135 Barometric Pressure: 27.20" Hg

Calibration Method: Certified Ozone Calibrator January 16 2017

Temperature: 21.7° C

Technician: Dean Yustak

| Instrument Settings | Background | Coefficient | Monitoring Range |
|---------------------|------------|-------------|------------------|
| Previous | -0.7 | 0.984 | 500 ppb |
| Current | -0.7 | 1.013 | 500 ppb |

Final Zero: -1.0 ppb

Final Span: 417.8 ppb

As Found Correction Factor: 1.019

| Calibration System Flow Rate (LPM) | Calculated Concentration C _c (ppb) | Raw Count Output R _c | Indicated Concentration C _i (ppb) | Correction Factor C _c /C _i |
|------------------------------------|---|---------------------------------|--|--|
| 3.000 | 403.0 | 24169.1 | 402.9 | 1.000 |
| 3.000 | 254.0 | 15238.7 | 253.7 | 1.001 |
| 3.000 | 100.1 | 6119.6 | 101.3 | 0.988 |
| 3.000 | 0.0 | 4.2 | -0.8 | |

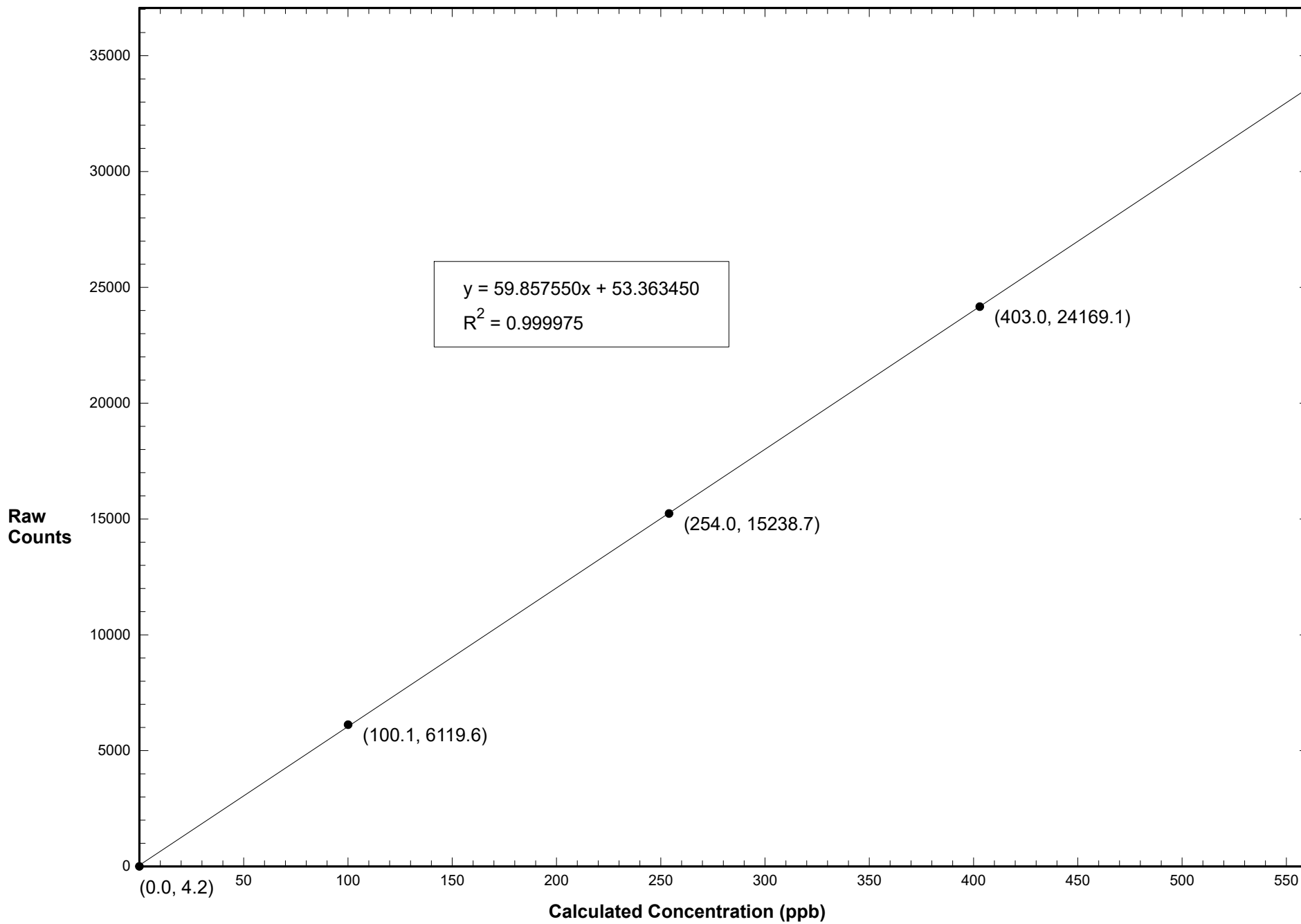
Results of Linear Regression

| R _c vs C _c | Slope | Intercept | R ² |
|----------------------------------|-----------|-----------|----------------|
| Previous | 59.929620 | -6.354441 | 0.999993 |
| Current | 59.857550 | 53.363450 | 0.999975 |
| C _i vs C _c | | | |
| Current | 1.000000 | -0.000039 | 0.999975 |

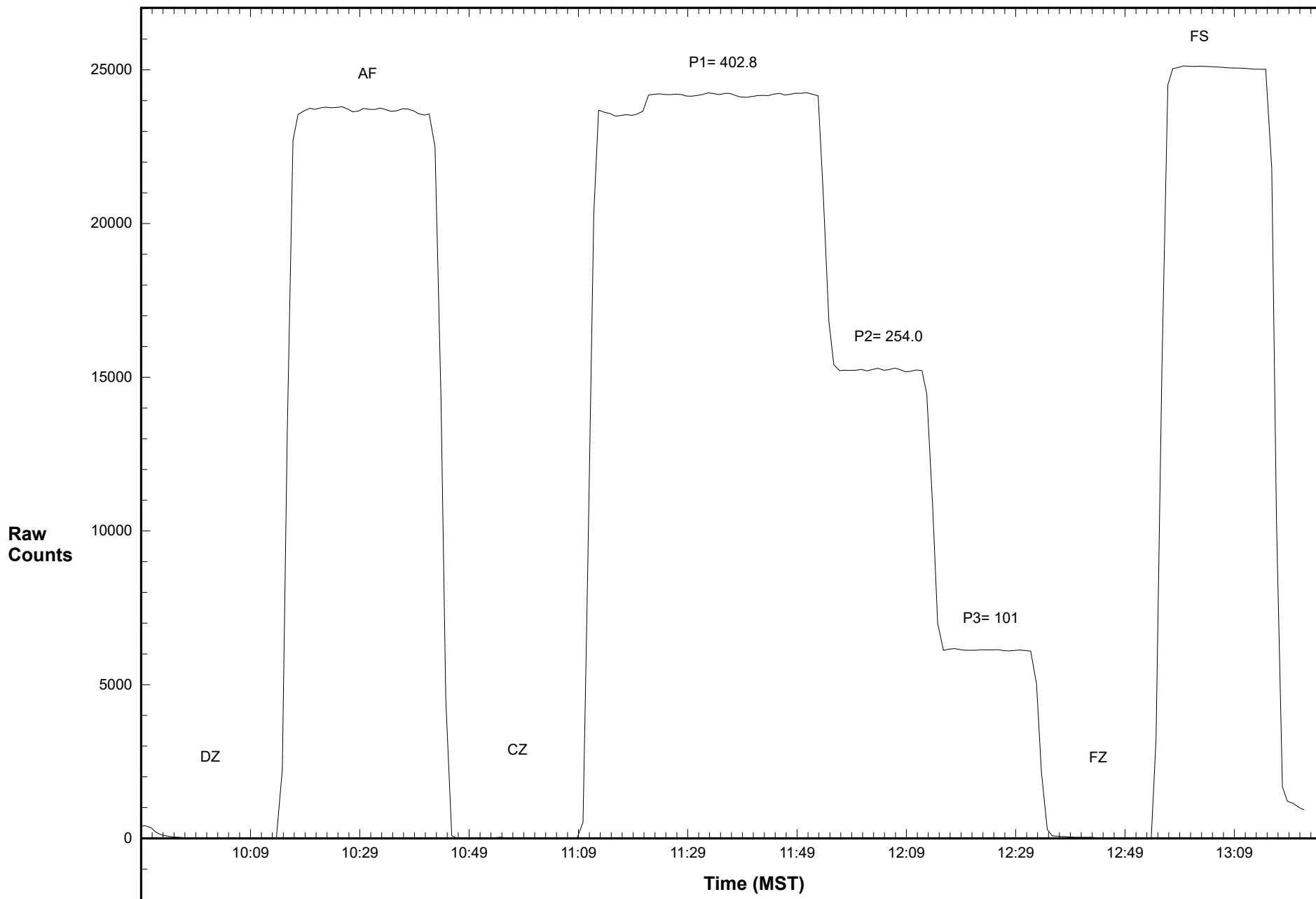
Average Correction Factor: 0.996
 Previous Correction Factor: 0.999
 Current Correction Factor: 1.000
 Percent Change of Correction Factor: 0.1

Comments: Sample Flows: 0.667 & 0.667 lpm

Station 910 O3 January 22, 2018: Linear Regression



Station 910 O3 January 22, 2018: Calibration Graph



Calibration Data Summary

West Central Airshed Society

Operator: WCAS

Location: Station 910, Genesee
 Calibration Date: January 22, 2018
 Parameter: SO₂

| | | |
|--|---|---|
| Instrument: Teco 43 i | Serial Number: JC1433001437 | Previous Calibration Date: December 19 2017 |
| Calibration: Routine | Calibration Equipment: SABIO 2010 sn 04300810 | Barometric Pressure: 27.20" Hg |
| Calibration Method: Standard Gas Dilution | Cylinder ID: EX0012497 | Temperature: 21.7° C |
| Cylinder Concentration: 24.4 ppm SO ₂ | In Service: Dec 6 2017 Exp: Oct 2020 | Technician: Dean Yustak |

| Instrument Settings | SO ₂ bkg ppb | SO ₂ Coefficient | Monitoring Range |
|---------------------|-------------------------|-----------------------------|------------------|
| Previous | 37.0 | 1.088 | 500 ppb |
| Current | 37.5 | 1.096 | 500 ppb |

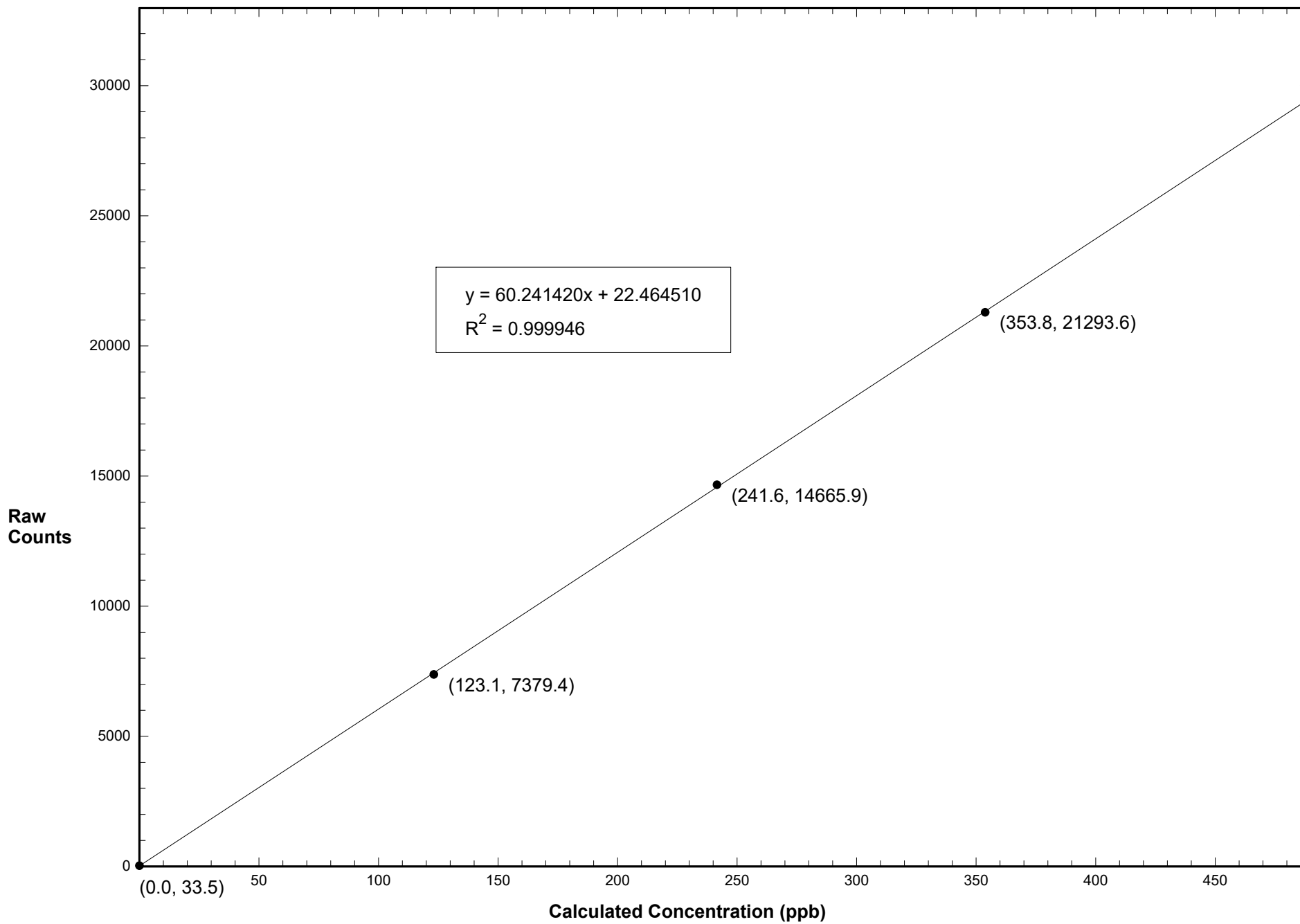
Final Zero: -0.4 ppb Final Span: 331.6 ppb As Found Correction Factor: 1.003

| SO ₂ Flow Rate (LPM) | Dilution Flow Rate (LPM) | Calculated Concentration C _c (ppb) | Raw Count Output R _c | Indicated Concentration C _i (ppb) | Correction Factor C _c /C _i |
|---------------------------------|--------------------------|---|---------------------------------|--|--|
| 0.0736 | 5.000 | 353.8 | 21293.6 | 353.1 | 1.002 |
| 0.0500 | 5.000 | 241.6 | 14665.9 | 243.1 | 0.994 |
| 0.0254 | 5.000 | 123.1 | 7379.4 | 122.1 | 1.008 |
| 0.0000 | 4.942 | 0.0 | 33.5 | 0.2 | |

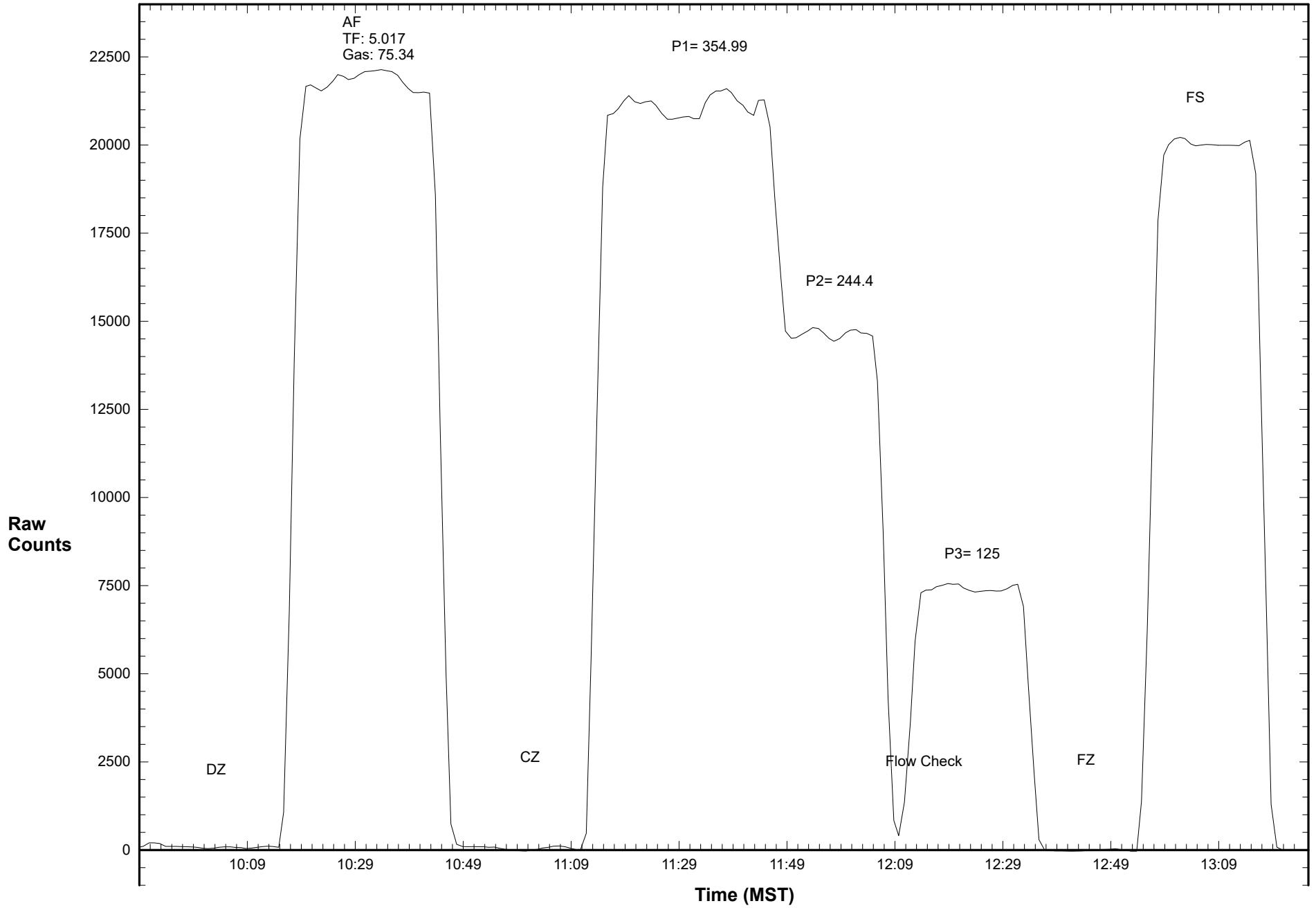
| Results of Linear Regression | | | | Average Correction Factor: | 1.001 |
|----------------------------------|-----------|------------|----------------|--------------------------------------|-------|
| R _c vs C _c | Slope | Intercept | R ² | Previous Correction Factor: | 0.999 |
| Previous | 60.127000 | -11.032000 | 0.999986 | Current Correction Factor: | 1.002 |
| Current | 60.241420 | 22.464510 | 0.999946 | Percent Change of Correction Factor: | 0.3 |
| C _i vs C _c | | | | | |
| Current | 1.000000 | -0.000040 | 0.999946 | | |

Comments: Sample Flow: 0.450 lpm

Station 910 SO2 January 22, 2018: Linear Regression



Station 910 SO2 January 22, 2018: Calibration Graph



WEST CENTRAL AIRSHED SOCIETY

**CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT
METEROLOGICAL DATA**

**AMS 910
GENESEE
JANUARY 2018**

Operations and Data Collection by:
West Central Airshed Society
Drayton Valley, Alberta

QA/QC, Data Validation and Reporting by:
West Central Airshed Society
Drayton Valley, Alberta



WCAS - Genesee
Summary of Hourly Averages

External Temperature (ET) - C
January 2018

| Maximum Value: 7.41 C on Jan 18 16:00 | | | | | | | | | | | | | | | | | | | | | | | | Maximum Daily Average: 3.02 C on Jan 18 | | | | | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 | |
|---|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------|--|
| Minimum Value: -31.2 C on Jan 12 10:00 | | | | | | | | | | | | | | | | | | | | | | | | Minimum Daily Average: -26.14 C on Jan 12 | | | | | | | | | | | | | | | | | | | | | | | | Hours of Data: 744 | |
| Maximum Diurnal Average: -6.15 C at hour 15 | | | | | | | | | | | | | | | | | | | | | | | | Minimum Diurnal Average: -11.28 C at hour 9 | | | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 0 | |
| Monthly Average: -9.060 C | | | | | | | | | | | | | | | | | | | | | | | | Percentiles: P ₁ = -29.0 P ₁₀ = -22.5 Q ₁ = -15.3 Median = -7.3 Q ₃ = -2.1 P ₉₀ = 1.1 P ₉₉ = 6.0 | | | | | | | | | | | | | | | | | | | | | | | | Hours of Calibration: 0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Jan | -27.4 | -27.8 | -28.5 | -28.8 | -28.3 | -29.0 | -26.2 | -26.1 | -28.2 | -25.7 | -21.6 | -18.9 | -17.0 | -13.8 | -11.3 | -10.2 | -9.2 | -8.0 | -6.9 | -8.4 | -4.7 | -4.7 | -6.1 | -2.1 | -17.46 | -2.12 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Jan | 0.0 | -0.2 | -0.9 | -1.2 | -0.3 | -0.5 | -0.9 | -0.8 | -1.4 | -2.3 | -2.2 | -0.1 | 1.1 | 1.9 | 2.5 | 2.4 | 0.3 | 0.4 | -0.4 | -1.2 | -1.9 | -2.3 | -3.4 | -4.4 | -0.65 | 2.52 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Jan | -3.6 | -2.6 | -2.5 | -1.4 | -1.8 | -4.4 | -3.6 | -3.0 | -4.5 | -4.3 | -2.2 | -0.1 | 1.1 | 1.8 | 2.1 | 1.3 | -0.6 | -1.7 | -1.4 | -2.0 | -1.2 | -1.8 | -1.3 | -1.1 | -1.62 | 2.08 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Jan | -0.9 | 0.1 | -3.2 | -3.3 | -3.1 | -3.4 | -3.5 | -3.6 | -3.1 | -3.8 | -2.1 | 0.5 | 1.8 | 2.3 | 1.1 | 0.9 | -0.2 | -0.8 | -1.6 | -2.2 | -3.3 | -6.0 | -6.0 | -5.4 | -2.03 | 2.29 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Jan | -7.0 | -7.7 | -7.7 | -8.5 | -11.2 | -11.0 | -12.8 | -12.4 | -11.3 | -10.8 | -8.8 | -7.8 | -6.9 | -5.8 | -5.4 | -4.9 | -5.9 | -5.8 | -6.4 | -6.9 | -7.6 | -4.5 | -4.9 | -5.6 | -7.81 | -4.52 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Jan | -6.9 | -6.6 | -4.2 | -4.6 | -2.9 | 0.9 | 1.4 | 3.7 | 2.6 | 3.2 | 3.3 | 3.0 | 3.6 | 2.8 | 4.2 | 2.6 | 2.1 | 0.3 | -0.7 | -3.6 | -2.6 | -2.7 | 0.1 | -1.2 | -0.09 | 4.21 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Jan | -3.0 | -3.8 | -4.2 | -5.1 | -1.5 | -1.1 | -1.1 | -0.4 | -0.3 | -1.5 | -1.1 | 1.2 | 1.8 | 0.2 | 0.0 | -0.5 | -0.6 | -1.1 | -1.5 | -1.4 | -1.2 | -2.0 | -2.7 | -3.0 | -1.41 | 1.76 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Jan | -2.8 | -1.8 | -2.3 | -3.5 | -3.7 | -3.5 | -4.0 | -4.6 | -4.9 | -3.6 | -2.2 | -1.9 | -1.4 | 0.2 | 0.5 | 0.2 | -0.8 | -1.4 | -2.4 | -2.3 | -2.6 | -3.1 | -3.5 | -4.5 | -2.50 | 0.53 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Jan | -7.2 | -9.4 | -10.4 | -11.5 | -12.2 | -12.9 | -14.1 | -15.2 | -15.9 | -16.4 | -16.9 | -17.4 | -17.6 | -18.1 | -18.0 | -18.1 | -18.5 | -19.0 | -20.0 | -20.5 | -20.9 | -21.4 | -21.8 | -22.0 | -16.48 | -7.21 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Jan | -22.0 | -21.9 | -21.9 | -22.0 | -22.1 | -22.5 | -23.4 | -23.5 | -23.4 | -23.1 | -22.8 | -22.5 | -22.2 | -22.1 | -22.3 | -22.7 | -23.0 | -22.5 | -22.9 | -23.5 | -23.1 | -23.4 | -23.1 | -23.0 | -22.71 | -21.88 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Jan | -23.1 | -23.3 | -24.3 | -26.4 | -27.4 | -27.8 | -28.5 | -28.7 | -29.4 | -30.4 | -26.6 | -25.0 | -24.2 | -22.6 | -22.3 | -22.1 | -22.9 | -23.6 | -24.7 | -26.0 | -26.8 | -26.7 | -27.2 | -27.9 | -25.75 | -22.10 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Jan | -28.8 | -27.9 | -28.6 | -30.6 | -27.8 | -28.9 | -29.7 | -29.1 | -29.8 | -31.2 | -27.2 | -25.4 | -23.9 | -23.4 | -22.8 | -22.6 | -22.6 | -23.0 | -23.1 | -23.3 | -24.1 | -24.7 | -24.4 | -24.4 | -26.14 | -22.58 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Jan | -23.0 | -21.6 | -19.2 | -17.0 | -16.0 | -13.5 | -10.1 | -8.4 | -7.6 | -5.5 | -3.8 | -1.9 | 0.0 | 2.3 | 3.3 | 3.4 | 2.5 | 1.9 | 2.3 | 2.1 | 1.7 | 1.3 | 1.2 | 1.0 | -5.20 | 3.35 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Jan | 0.9 | 0.3 | 0.1 | -1.5 | -4.4 | -5.0 | -5.6 | -6.0 | -6.5 | -6.5 | -6.4 | -6.7 | -7.0 | -7.2 | -8.3 | -10.6 | -12.0 | -13.2 | -13.8 | -14.6 | -14.6 | -15.1 | -16.1 | -7.77 | 0.90 | | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Jan | -18.1 | -18.1 | -18.0 | -17.7 | -16.9 | -15.4 | -14.6 | -14.4 | -13.7 | -12.6 | -7.7 | -5.3 | -4.5 | -3.8 | -3.6 | -3.8 | -4.7 | -5.5 | -8.2 | -10.8 | -11.0 | -11.2 | -12.4 | -13.3 | -11.05 | -3.56 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Jan | -13.9 | -14.1 | -14.1 | -13.9 | -14.9 | -15.0 | -14.5 | -14.7 | -15.8 | -13.5 | -10.7 | -9.6 | -7.1 | -4.9 | -3.3 | -3.4 | -4.6 | -6.1 | -7.4 | -7.2 | -3.6 | 4.3 | 5.8 | 6.1 | -8.18 | 6.11 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Jan | 6.2 | 5.7 | 4.8 | 4.6 | 3.1 | 0.4 | -0.9 | -2.2 | -2.9 | -1.8 | 0.0 | 1.2 | 3.7 | 4.7 | 5.0 | 4.3 | 2.6 | 0.6 | -0.6 | -1.5 | -0.8 | -1.5 | -1.6 | -1.7 | 1.31 | 6.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Jan | -0.3 | 2.9 | 3.0 | 1.5 | 3.1 | 3.2 | 3.0 | 0.2 | 2.9 | 0.1 | 1.9 | 4.6 | 5.7 | 6.4 | 6.8 | 7.4 | 6.8 | 6.0 | 4.1 | 1.0 | 0.5 | 2.3 | -0.8 | 0.0 | 3.02 | 7.41 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Jan | 0.6 | -3.6 | -4.9 | -4.2 | -3.1 | -2.6 | -2.5 | -2.7 | -2.6 | -1.5 | 1.1 | 2.8 | 3.4 | 4.1 | 4.0 | 3.5 | 3.4 | 2.7 | 1.8 | 1.5 | 0.9 | -0.1 | -0.2 | 0.1 | 0.08 | 4.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Jan | -1.3 | -1.6 | -1.5 | -1.7 | -3.2 | -3.2 | -4.4 | -5.6 | -6.6 | -6.2 | -5.0 | -4.5 | -3.6 | -3.1 | -2.4 | -2.7 | -3.8 | -3.7 | -4.4 | -4.1 | -4.2 | -6.0 | -6.3 | -8.6 | -4.07 | -1.25 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Jan | -8.0 | -8.9 | -8.8 | -8.8 | -9.3 | -9.1 | -9.7 | -9.8 | -10.8 | -11.5 | -10.5 | -9.2 | -7.7 | -6.7 | -6.1 | -5.9 | -6.8 | -6.9 | -6.9 | -6.9 | -6.6 | -6.1 | -5.9 | -6.2 | -8.04 | -5.90 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Jan | -6.5 | -7.0 | -6.9 | -7.2 | -7.6 | -8.5 | -8.9 | -8.5 | -9.1 | -9.9 | -7.3 | -3.9 | -1.3 | 0.4 | 2.1 | 1.6 | 0.8 | -1.1 | -2.7 | -2.9 | -3.4 | -3.8 | -5.7 | -6.1 | -4.73 | 2.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Jan | -5.9 | -6.6 | -7.3 | -5.7 | -6.1 | -5.6 | -5.8 | -6.9 | -7.3 | -5.2 | -3.9 | -1.3 | 0.5 | 0.0 | 0.1 | -1.2 | -1.4 | -2.3 | -2.9 | -3.6 | -4.1 | -4.5 | -5.6 | -6.0 | -4.11 | 0.50 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Jan | -6.2 | -7.2 | -8.2 | -9.5 | -10.0 | -10.8 | -11.3 | -11.6 | -11.7 | -11.1 | -9.2 | -8.4 | -7.2 | -6.9 | -6.8 | -7.1 | -7.2 | -8.0 | -8.3 | -8.3 | -8.3 | -7.9 | -7.7 | -7.6 | -8.63 | -6.24 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Jan | -7.5 | -7.5 | -7.5 | -7.4 | -7.3 | -7.4 | -7.5 | -7.5 | -7.5 | -7.5 | -7.3 | -7.3 | -7.4 | -7.1 | -7.1 | -7.0 | -7.2 | -7.6 | -8.1 | -8.4 | -8.7 | -9.1 | -9.3 | -9.3 | -7.72 | -7.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Jan | -9.2 | -9.3 | -9.7 | -10.2 | -10.9 | -11.4 | -12.1 | -12.5 | -13.3 | -13.6 | -13.6 | -13.2 | -13.3 | -13.4 | -13.4 | -13.6 | -13.5 | -13.8 | -14.3 | -14.9 | -15.3 | -15.2 | -15.9 | -16.8 | -13.01 | -9.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Jan | -17.2 | -17.8 | -19.2 | -20.0 | -20.9 | -21.0 | -21.1 | -20.3 | -19.1 | -18.0 | -17.3 | -16.7 | -16.5 | -15.3 | -15.4 | -15.6 | -15.9 | -16.1 | -16.2 | -16.4 | -16.2 | -16.1 | -16.3 | -16.3 | -17.54 | -15.27 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Jan | -16.6 | -16.9 | -16.3 | -16.0 | -16.1 | -16.1 | -17.0 | -19.2 | -18.9 | -17.6 | -16.4 | -15.5 | -15.1 | -15.3 | -15.1 | -15.9 | -16.5 | -16.1 | -16.3 | -16.0 | -15.8 | -15.6 | -15.5 | -15.3 | -16.30 | -15.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Jan | -14.9 | -14.6 | -14.4 | -14.7 | -14.7 | -14.8 | -14.8 | -14.4 | -14.5 | -13.9 | -13.2 | -12.5 | -11.7 | -11.0 | -10.7 | -10.3 | -10.1 | -10.9 | -11.1 | -10.8 | -10.4 | -10.0 | -9.6 | -9.5 | -12.39 | -9.46 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Jan | -10.7 | -11.1 | -9.9 | -8.7 | -7.5 | -8.7 | -10.4 | -11.8 | -12.6 | -12.3 | -10.8 | -9.9 | -9.5 | -9.1 | -8.7 | -8.5 | -9.9 | -11.2 | -12.5 | -13.4 | -13.8 | -13.4 | -13.7 | -15.1 | -10.97 | -7.49 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Jan | -16.3 | -17.2 | -18.4 | -19.5 | -20.8 | -22.2 | -22.6 | -22.8 | -22.6 | -22.7 | -22.5 | -21.8 | -21.6 | -21.0 | -20.3 | -20.8 | -20.7 | -20.6 | -21.7 | -22.0 | -21.6 | -21.0 | -20.9 | -20.5 | -20.92 | -16.31 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | -9.70 | -9.91 | -10.16 | -10.47 | -10.51 | -10.67 | -10.87 | -11.06 | -11.28 | -10.99 | -9.46 | -8.18 | -7.22 | -6.55 | -6.15 | -6.37 | -7.05 | -7.65 | -8.34 | -8.97 | -8.88 | -8.75 | -9.03 | -9.22 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 6.16 | 5.74 | 4.84 | 4.56 | 3.15 | 3.17 | 3.00 | 3.70 | 2.88 | 3.17 | 3.32 | 4.62 | 5.70 | 6.35 | 6.78 | 7.41 | 6.76 | 6.04 | 4.11 | 2.09 | 1.69 | 4.34 | 5.75 | 6.11 | Diurnal Maximum | |



WCAS - Genesee
Summary of Hourly Averages

External Temperature 10 m (ET_10) - C
January 2018

| Maximum Value: 7.97 C on Jan 18 16:00 Maximum Daily Average: 4.20 C on Jan 18 Minimum Value: -30.2 C on Jan 12 10:00 Minimum Daily Average: -25.78 C on Jan 12 Maximum Diurnal Average: -6.66 C at hour 16 Minimum Diurnal Average: -10.74 C at hour 9 Monthly Average: -8.893 C Percentiles: P ₁ = -28.2 P ₁₀ = -23.0 Q ₁ = -15.9 Median = -8.0 Q ₃ = -1.1 P ₉₀ = 1.7 P ₉₉ = 5.5 | | | | | | | | | | | | | | | | | | | | | | | | Hours in Service: | 744 | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------------|---------------|---------------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | Hours of Data: | 744 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Hours of Calibration: | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Percent Operational Time: | 100.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Jan | -27.0 | -27.3 | -27.6 | -27.5 | -27.1 | -28.2 | -23.7 | -23.4 | -26.6 | -24.4 | -22.0 | -19.1 | -18.4 | -14.7 | -11.7 | -10.6 | -9.1 | -7.7 | -6.2 | -6.5 | -3.8 | -4.0 | -4.3 | -1.7 | -16.77 | -1.73 | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Jan | 0.1 | -0.4 | -1.1 | -1.1 | -0.1 | -0.5 | -0.8 | -0.7 | -0.9 | -1.2 | -2.0 | -0.7 | 0.3 | 0.9 | 2.0 | 3.0 | 2.4 | 2.5 | 1.4 | 0.7 | 0.8 | -0.3 | -2.0 | -3.0 | -0.02 | 2.99 | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Jan | -1.2 | -0.8 | -1.2 | -0.3 | -1.0 | -2.4 | -2.4 | -2.1 | -3.1 | -3.8 | -3.2 | -1.1 | 0.0 | 1.1 | 1.7 | 1.8 | 1.8 | 1.0 | 1.0 | 0.0 | 1.1 | 0.6 | 0.7 | 0.5 | -0.47 | 1.79 | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Jan | 0.9 | 1.5 | -1.1 | -0.9 | -1.1 | -0.9 | -1.7 | -1.9 | -2.0 | -2.6 | -2.0 | -0.5 | 0.8 | 1.7 | 1.1 | 1.2 | 1.1 | 1.0 | 0.1 | -0.5 | -1.0 | -3.4 | -3.8 | -4.9 | -0.79 | 1.71 | | | | | | | | | | | | | | | | | | | | | | | |
| 5-Jan | -5.7 | -6.7 | -7.6 | -8.2 | -9.1 | -8.4 | -10.9 | -10.3 | -8.2 | -8.2 | -8.8 | -8.5 | -8.2 | -7.2 | -5.9 | -5.0 | -5.0 | -5.3 | -5.7 | -5.7 | -6.4 | -2.5 | -2.5 | -2.9 | -6.79 | -2.51 | | | | | | | | | | | | | | | | | | | | | | | |
| 6-Jan | -5.9 | -4.6 | -1.8 | -2.4 | 0.0 | 2.5 | 3.2 | 3.6 | 2.6 | 3.2 | 3.3 | 2.8 | 3.2 | 2.8 | 3.8 | 3.3 | 2.9 | 2.3 | 1.4 | -1.9 | -0.9 | -1.3 | 0.8 | -0.4 | 0.94 | 3.77 | | | | | | | | | | | | | | | | | | | | | | | |
| 7-Jan | -1.2 | -1.7 | -2.4 | -2.6 | -0.6 | -0.7 | -0.8 | -0.2 | 0.0 | -0.7 | -0.3 | 0.8 | 1.3 | 0.0 | -0.3 | -0.2 | -0.1 | -0.3 | -0.7 | -0.6 | -0.4 | -0.8 | -1.2 | -1.5 | -0.62 | 1.28 | | | | | | | | | | | | | | | | | | | | | | | |
| 8-Jan | -1.5 | -1.1 | -1.6 | -1.7 | -2.5 | -2.9 | -3.4 | -4.4 | -4.1 | -3.4 | -2.8 | -2.8 | -2.1 | -0.7 | -0.4 | -0.1 | -0.6 | -1.2 | -1.5 | -2.1 | -2.9 | -3.5 | -4.0 | -5.1 | -2.34 | -0.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 9-Jan | -7.9 | -10.1 | -11.0 | -12.2 | -12.9 | -13.6 | -14.8 | -15.9 | -16.6 | -17.2 | -17.8 | -18.3 | -18.5 | -19.0 | -18.8 | -18.9 | -19.2 | -19.6 | -20.4 | -20.9 | -21.4 | -21.9 | -22.1 | -22.3 | -17.13 | -7.86 | | | | | | | | | | | | | | | | | | | | | | | |
| 10-Jan | -22.5 | -22.5 | -22.5 | -22.5 | -22.8 | -23.2 | -24.0 | -24.1 | -24.1 | -23.9 | -23.6 | -23.4 | -23.2 | -23.0 | -23.1 | -23.2 | -23.4 | -23.4 | -23.9 | -24.2 | -24.1 | -24.2 | -23.8 | -23.6 | -23.43 | -22.49 | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Jan | -23.7 | -23.8 | -24.2 | -25.6 | -26.4 | -26.9 | -27.7 | -28.1 | -28.5 | -29.1 | -28.6 | -27.0 | -25.1 | -23.4 | -22.9 | -22.5 | -22.8 | -23.4 | -23.9 | -24.9 | -25.3 | -25.8 | -26.0 | -27.1 | -25.54 | -22.55 | | | | | | | | | | | | | | | | | | | | | | | |
| 12-Jan | -28.2 | -26.7 | -27.3 | -28.2 | -27.2 | -27.5 | -28.0 | -28.2 | -28.3 | -30.2 | -28.5 | -27.2 | -25.7 | -24.2 | -23.5 | -23.0 | -22.6 | -22.8 | -22.9 | -23.1 | -23.6 | -23.7 | -23.9 | -24.1 | -25.78 | -22.62 | | | | | | | | | | | | | | | | | | | | | | | |
| 13-Jan | -23.4 | -22.5 | -20.0 | -18.2 | -16.7 | -14.4 | -10.4 | -8.4 | -7.6 | -5.9 | -4.2 | -2.4 | -0.8 | 1.9 | 3.1 | 3.1 | 2.5 | 2.0 | 2.4 | 2.1 | 1.7 | 1.2 | 1.0 | 0.8 | -5.54 | 3.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 14-Jan | 0.7 | 0.3 | -0.1 | -1.8 | -4.9 | -5.5 | -6.1 | -6.6 | -7.0 | -7.1 | -7.1 | -7.7 | -8.0 | -8.1 | -8.3 | -9.0 | -10.5 | -11.8 | -12.9 | -13.5 | -14.1 | -14.5 | -14.8 | -15.5 | -8.08 | 0.65 | | | | | | | | | | | | | | | | | | | | | | | |
| 15-Jan | -16.8 | -17.1 | -17.5 | -17.6 | -17.0 | -15.5 | -15.1 | -14.3 | -13.7 | -11.9 | -8.0 | -5.8 | -5.1 | -4.6 | -4.5 | -4.4 | -4.9 | -5.3 | -7.7 | -9.5 | -10.4 | -11.1 | -11.9 | -12.5 | -10.92 | -4.45 | | | | | | | | | | | | | | | | | | | | | | | |
| 16-Jan | -13.4 | -13.9 | -13.7 | -13.1 | -13.6 | -12.2 | -13.3 | -13.4 | -14.9 | -13.5 | -12.3 | -11.3 | -8.8 | -6.0 | -4.5 | -4.0 | -3.6 | -4.1 | -4.7 | -4.2 | -0.7 | 4.6 | 5.7 | 6.2 | -7.61 | 6.22 | | | | | | | | | | | | | | | | | | | | | | | |
| 17-Jan | 6.2 | 5.8 | 4.9 | 4.6 | 3.8 | 2.6 | 1.7 | 0.0 | -0.9 | -0.8 | 0.1 | 1.0 | 2.6 | 3.8 | 4.6 | 4.9 | 3.8 | 1.5 | 0.3 | 0.3 | 0.5 | -0.8 | -0.4 | -0.4 | 2.07 | 6.24 | | | | | | | | | | | | | | | | | | | | | | | |
| 18-Jan | 0.9 | 4.7 | 5.2 | 4.4 | 5.4 | 5.3 | 4.3 | 2.3 | 3.6 | 1.3 | 3.1 | 4.4 | 5.0 | 5.7 | 6.5 | 8.0 | 7.5 | 6.6 | 5.1 | 2.9 | 2.3 | 3.4 | 1.2 | 1.7 | 4.20 | 7.97 | | | | | | | | | | | | | | | | | | | | | | | |
| 19-Jan | 1.8 | -0.8 | -1.8 | -2.1 | -1.6 | -1.6 | -1.2 | -1.1 | -0.5 | -0.5 | 0.9 | 2.4 | 3.1 | 3.7 | 3.6 | 3.5 | 3.6 | 3.0 | 2.3 | 1.6 | 1.0 | 0.5 | 0.1 | 0.1 | 0.83 | 3.66 | | | | | | | | | | | | | | | | | | | | | | | |
| 20-Jan | -0.7 | -1.2 | -1.2 | -1.3 | -1.7 | -1.6 | -1.8 | -3.7 | -3.8 | -5.2 | -5.9 | -5.7 | -4.4 | -3.8 | -3.1 | -3.0 | -3.3 | -3.1 | -3.2 | -3.4 | -4.1 | -5.0 | -5.8 | -7.8 | -3.49 | -0.66 | | | | | | | | | | | | | | | | | | | | | | | |
| 21-Jan | -8.1 | -8.5 | -9.2 | -9.6 | -10.0 | -9.8 | -10.5 | -10.4 | -11.4 | -12.1 | -11.2 | -10.0 | -8.6 | -7.4 | -6.8 | -6.5 | -7.1 | -7.2 | -7.3 | -7.3 | -7.1 | -6.7 | -6.6 | -6.7 | -8.58 | -6.54 | | | | | | | | | | | | | | | | | | | | | | | |
| 22-Jan | -7.0 | -7.2 | -7.2 | -7.7 | -8.0 | -8.8 | -9.4 | -9.1 | -9.4 | -9.9 | -8.0 | -5.2 | -2.3 | -1.2 | 1.0 | 1.0 | 0.7 | -0.2 | -0.6 | -0.6 | -1.3 | -1.4 | -2.9 | -4.0 | -4.53 | 1.03 | | | | | | | | | | | | | | | | | | | | | | | |
| 23-Jan | -4.2 | -4.3 | -4.8 | -4.1 | -4.9 | -4.8 | -4.8 | -5.1 | -5.7 | -5.0 | -4.3 | -2.2 | -0.5 | -0.6 | -0.2 | -0.3 | -0.3 | -1.3 | -1.7 | -2.8 | -3.2 | -4.1 | -5.6 | -6.3 | -3.37 | -0.17 | | | | | | | | | | | | | | | | | | | | | | | |
| 24-Jan | -6.6 | -7.2 | -8.1 | -8.7 | -9.1 | -10.0 | -10.9 | -11.0 | -11.5 | -11.0 | -9.8 | -9.4 | -8.1 | -7.8 | -7.7 | -7.7 | -7.6 | -8.3 | -8.8 | -9.2 | -8.8 | -8.4 | -8.3 | -8.2 | -8.84 | -6.56 | | | | | | | | | | | | | | | | | | | | | | | |
| 25-Jan | -8.0 | -8.0 | -8.0 | -7.9 | -7.9 | -8.0 | -8.0 | -8.0 | -8.1 | -8.1 | -8.0 | -8.1 | -8.3 | -8.1 | -8.0 | -7.9 | -7.9 | -8.3 | -8.7 | -8.9 | -9.2 | -9.5 | -9.8 | -9.8 | -8.36 | -7.91 | | | | | | | | | | | | | | | | | | | | | | | |
| 26-Jan | -9.6 | -9.8 | -10.1 | -10.6 | -11.2 | -11.8 | -12.5 | -12.9 | -13.6 | -14.0 | -14.2 | -14.0 | -14.1 | -14.2 | -14.2 | -14.2 | -14.0 | -14.1 | -14.6 | -15.2 | -15.6 | -15.7 | -16.2 | -17.0 | -13.48 | -9.60 | | | | | | | | | | | | | | | | | | | | | | | |
| 27-Jan | -17.5 | -17.9 | -18.2 | -18.5 | -19.5 | -20.1 | -20.1 | -20.1 | -20.1 | -19.1 | -18.4 | -17.9 | -17.5 | -16.7 | -16.3 | -16.5 | -16.7 | -16.7 | -16.9 | -17.0 | -16.9 | -16.8 | -16.9 | -16.9 | -17.88 | -16.33 | | | | | | | | | | | | | | | | | | | | | | | |
| 28-Jan | -17.1 | -17.2 | -16.9 | -16.6 | -16.7 | -16.7 | -17.2 | -17.8 | -18.2 | -18.0 | -18.1 | -17.7 | -17.1 | -16.7 | -16.7 | -17.0 | -17.2 | -17.0 | -17.1 | -16.9 | -16.6 | -16.5 | -16.4 | -16.2 | -17.06 | -16.23 | | | | | | | | | | | | | | | | | | | | | | | |
| 29-Jan | -15.9 | -15.4 | -15.2 | -15.4 | -15.4 | -15.5 | -15.5 | -15.3 | -15.3 | -15.0 | -14.4 | -13.9 | -13.2 | -12.5 | -12.1 | -11.5 | -11.1 | -11.6 | -11.7 | -11.4 | -11.1 | -10.7 | -10.3 | -10.1 | -13.32 | -10.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 30-Jan | -11.1 | -11.6 | -10.4 | -9.1 | -8.0 | -8.9 | -10.4 | -11.4 | -12.1 | -12.1 | -11.5 | -10.8 | -10.4 | -10.0 | -9.5 | -8.9 | -9.4 | -11.5 | -13.0 | -13.5 | -14.1 | -14.0 | -14.3 | -15.7 | -11.32 | -7.96 | | | | | | | | | | | | | | | | | | | | | | | |
| 31-Jan | -16.7 | -17.7 | -18.9 | -20.0 | -21.3 | -22.5 | -22.8 | -23.1 | -23.3 | -23.5 | -23.3 | -23.0 | -22.6 | -22.2 | -21.9 | -21.6 | -21.4 | -21.5 | -22.0 | -22.4 | -22.4 | -22.1 | -21.8 | -21.5 | -21.65 | -16.73 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | -9.36 | -9.47 | -9.70 | -9.89 | -9.97 | -10.08 | -10.29 | -10.49 | -10.74 | -10.73 | -10.02 | -9.12 | -8.22 | -7.43 | -6.87 | -6.66 | -6.82 | -7.28 | -7.81 | -8.34 | -8.33 | -8.33 | -8.58 | -8.89 | Diurnal Average | |
| | | | | | | | | | | | | | | | | | | | | | | | | 6.24 | 5.82 | 5.18 | 4.59 | 5.38 | 5.32 | 4.28 | 3.64 | 3.61 | 3.23 | 3.30 | 4.44 | 5.00 | 5.72 | 6.47 | 7.97 | 7.46 | 6.61 | 5.05 | 2.91 | 2.29 | 4.58 | 5.74 | 6.22 | Diurnal Maximum | |



WCAS - Genesee
Summary of Hourly Averages

Delta Temperature (ET_D) - C
January 2018

| Maximum Value: 3.14 C on Jan 19 03:00 | | Maximum Daily Average: 1.23 C on Jan 4 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------|--|------|---------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|---------------|-----------------|-------|
| Minimum Value: -2.2 C on Jan 28 12:00 | | Minimum Daily Average: -0.91 C on Jan 29 | | Hours of Data: 744 | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 0.63 C at hour 20 | | Minimum Diurnal Average: -0.99 C at hour 13 | | Hours of Missing Data: 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 0.169 C | | Percentiles: P ₁ = -1.7 P ₁₀ = -0.9 Q ₁ = -0.6 Median = -0.2 Q ₃ = 0.9 P ₉₀ = 1.8 P ₉₉ = 2.7 | | Hours of Calibration: 0 | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | |
| 1-Jan | 0.5 | 0.5 | 0.9 | 1.2 | 1.2 | 0.8 | 2.6 | 2.7 | 1.5 | 1.2 | -0.4 | -0.2 | -1.4 | -0.9 | -0.4 | -0.4 | 0.1 | 0.3 | 0.6 | 1.9 | 0.9 | 0.7 | 1.9 | 0.4 | 0.68 | 2.70 | |
| 2-Jan | 0.1 | -0.2 | -0.2 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.5 | 1.0 | 0.3 | -0.6 | -0.8 | -1.0 | -0.5 | 0.5 | 2.2 | 2.1 | 1.8 | 1.9 | 2.6 | 2.0 | 1.4 | 1.3 | 0.62 | 2.64 | |
| 3-Jan | 2.5 | 1.8 | 1.3 | 1.1 | 0.7 | 2.0 | 1.2 | 0.8 | 1.4 | 0.5 | -1.0 | -1.0 | -1.1 | -0.8 | -0.4 | 0.5 | 2.4 | 2.7 | 2.4 | 2.0 | 2.3 | 2.4 | 2.1 | 1.6 | 1.14 | 2.68 | |
| 4-Jan | 1.8 | 1.4 | 2.1 | 2.4 | 2.0 | 2.5 | 1.8 | 1.6 | 1.1 | 1.2 | 0.1 | -0.9 | -1.0 | -0.6 | 0.0 | 0.3 | 1.3 | 1.8 | 1.6 | 1.6 | 2.2 | 2.6 | 2.2 | 0.5 | 1.23 | 2.63 | |
| 5-Jan | 1.2 | 0.9 | 0.2 | 0.3 | 2.1 | 2.6 | 1.8 | 2.1 | 3.1 | 2.6 | 0.0 | -0.8 | -1.3 | -1.4 | -0.4 | -0.1 | 0.8 | 0.5 | 0.7 | 1.2 | 1.2 | 2.0 | 2.4 | 2.7 | 1.02 | 3.09 | |
| 6-Jan | 1.0 | 2.1 | 2.3 | 2.3 | 2.9 | 1.6 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3 | -0.3 | -0.1 | -0.4 | 0.7 | 0.8 | 1.9 | 2.1 | 1.7 | 1.6 | 1.3 | 0.7 | 0.8 | 1.02 | 2.94 | |
| 7-Jan | 1.8 | 2.1 | 1.8 | 2.5 | 0.9 | 0.3 | 0.3 | 0.2 | 0.3 | 0.8 | 0.8 | -0.4 | -0.5 | -0.2 | -0.3 | 0.3 | 0.4 | 0.8 | 0.8 | 0.9 | 0.7 | 1.2 | 1.6 | 1.5 | 0.78 | 2.52 | |
| 8-Jan | 1.3 | 0.8 | 0.6 | 1.8 | 1.2 | 0.7 | 0.6 | 0.3 | 0.8 | 0.3 | -0.6 | -0.9 | -0.8 | -0.9 | -0.9 | -0.2 | 0.2 | 0.2 | 0.9 | 0.2 | -0.4 | -0.4 | -0.5 | -0.5 | 0.16 | 1.83 | |
| 9-Jan | -0.6 | -0.6 | -0.6 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 | -0.7 | -0.8 | -0.9 | -0.9 | -0.9 | -0.8 | -0.7 | -0.7 | -0.5 | -0.3 | -0.4 | -0.4 | -0.4 | -0.3 | -0.3 | -0.63 | -0.30 |
| 10-Jan | -0.5 | -0.6 | -0.6 | -0.5 | -0.6 | -0.6 | -0.7 | -0.6 | -0.7 | -0.7 | -0.7 | -0.8 | -0.9 | -0.9 | -0.9 | -0.8 | -0.5 | -0.4 | -0.9 | -0.9 | -0.7 | -1.0 | -0.8 | -0.7 | -0.6 | -0.71 | -0.42 |
| 11-Jan | -0.5 | -0.5 | 0.1 | 0.8 | 0.9 | 0.9 | 0.7 | 0.6 | 0.9 | 1.2 | -1.9 | -2.1 | -0.9 | -0.8 | -0.5 | -0.4 | 0.1 | 0.1 | 0.8 | 1.1 | 1.5 | 0.9 | 1.2 | 0.8 | 0.21 | 1.50 | |
| 12-Jan | 0.6 | 1.2 | 1.3 | 2.3 | 0.6 | 1.4 | 1.7 | 0.9 | 1.5 | 1.0 | -1.3 | -1.8 | -1.8 | -0.7 | -0.7 | -0.3 | 0.0 | 0.2 | 0.2 | 0.2 | 0.5 | 0.9 | 0.5 | 0.3 | 0.36 | 2.30 | |
| 13-Jan | -0.4 | -0.8 | -0.8 | -1.2 | -0.7 | -0.9 | -0.3 | 0.0 | 0.1 | -0.3 | -0.4 | -0.5 | -0.8 | -0.4 | -0.2 | -0.2 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | -0.2 | -0.2 | -0.34 | 0.12 | |
| 14-Jan | -0.2 | 0.0 | -0.1 | -0.3 | -0.5 | -0.5 | -0.5 | -0.6 | -0.5 | -0.6 | -0.6 | -1.0 | -1.3 | -1.1 | -1.0 | -0.7 | 0.1 | 0.2 | 0.4 | 0.3 | 0.4 | 0.1 | 0.2 | 0.6 | -0.31 | 0.60 | |
| 15-Jan | 1.3 | 1.0 | 0.5 | 0.1 | -0.1 | -0.1 | -0.5 | 0.1 | 0.0 | 0.7 | -0.2 | -0.5 | -0.7 | -0.8 | -0.9 | -0.6 | -0.1 | 0.3 | 0.4 | 1.2 | 0.6 | 0.1 | 0.4 | 0.7 | 0.12 | 1.34 | |
| 16-Jan | 0.5 | 0.2 | 0.3 | 0.8 | 1.3 | 2.8 | 1.1 | 1.3 | 0.9 | 0.1 | -1.5 | -1.8 | -1.7 | -1.1 | -1.2 | -0.6 | 1.0 | 2.1 | 2.6 | 3.0 | 2.9 | 0.2 | 0.0 | 0.1 | 0.56 | 2.98 | |
| 17-Jan | 0.1 | 0.1 | 0.0 | 0.0 | 0.7 | 2.1 | 2.5 | 2.1 | 1.9 | 1.0 | 0.1 | -0.1 | -1.1 | -0.9 | -0.4 | 0.5 | 1.2 | 0.9 | 0.8 | 1.8 | 1.2 | 0.8 | 1.2 | 1.4 | 0.76 | 2.53 | |
| 18-Jan | 1.1 | 1.8 | 2.2 | 2.9 | 2.2 | 2.1 | 1.3 | 2.2 | 0.7 | 1.2 | 1.2 | -0.2 | -0.7 | -0.6 | -0.3 | 0.6 | 0.7 | 0.5 | 0.9 | 1.9 | 1.7 | 1.0 | 2.0 | 1.7 | 1.17 | 2.90 | |
| 19-Jan | 1.2 | 2.8 | 3.1 | 2.1 | 1.4 | 1.0 | 1.3 | 1.6 | 2.1 | 1.0 | -0.1 | -0.4 | -0.3 | -0.4 | -0.4 | -0.1 | 0.2 | 0.3 | 0.5 | 0.1 | 0.1 | 0.5 | 0.3 | 0.1 | 0.74 | 3.14 | |
| 20-Jan | 0.6 | 0.4 | 0.3 | 0.4 | 1.5 | 1.6 | 2.6 | 1.9 | 2.8 | 1.0 | -0.9 | -1.2 | -0.8 | -0.7 | -0.7 | -0.4 | 0.4 | 0.5 | 1.2 | 0.7 | 0.2 | 1.0 | 0.5 | 0.8 | 0.57 | 2.81 | |
| 21-Jan | -0.1 | 0.4 | -0.4 | -0.8 | -0.7 | -0.7 | -0.8 | -0.6 | -0.5 | -0.5 | -0.6 | -0.8 | -0.9 | -0.7 | -0.7 | -0.6 | -0.3 | -0.4 | -0.4 | -0.4 | -0.5 | -0.6 | -0.6 | -0.5 | -0.53 | 0.42 | |
| 22-Jan | -0.5 | -0.2 | -0.3 | -0.4 | -0.4 | -0.3 | -0.5 | -0.6 | -0.3 | 0.0 | -0.7 | -1.4 | -1.0 | -1.5 | -1.0 | -0.6 | 0.0 | 0.9 | 2.1 | 2.3 | 2.1 | 2.5 | 2.8 | 2.0 | 0.21 | 2.79 | |
| 23-Jan | 1.6 | 2.3 | 2.5 | 1.7 | 1.2 | 0.8 | 1.0 | 1.8 | 1.6 | 0.2 | -0.4 | -0.9 | -1.0 | -0.6 | -0.3 | 0.9 | 1.0 | 0.9 | 1.2 | 0.8 | 0.9 | 0.5 | 0.0 | -0.2 | 0.73 | 2.48 | |
| 24-Jan | -0.3 | 0.0 | 0.1 | 0.8 | 0.9 | 0.8 | 0.5 | 0.6 | 0.2 | 0.1 | -0.6 | -1.0 | -0.9 | -0.8 | -0.9 | -0.6 | -0.4 | -0.3 | -0.5 | -0.5 | -0.6 | -0.6 | -0.5 | -0.6 | -0.21 | 0.91 | |
| 25-Jan | -0.5 | -0.5 | -0.5 | -0.5 | -0.6 | -0.5 | -0.5 | -0.5 | -0.6 | -0.6 | -0.7 | -0.8 | -0.9 | -1.0 | -0.8 | -0.9 | -0.8 | -0.6 | -0.6 | -0.5 | -0.5 | -0.5 | -0.5 | -0.4 | -0.62 | -0.43 | |
| 26-Jan | -0.4 | -0.4 | -0.4 | -0.4 | -0.4 | -0.4 | -0.4 | -0.4 | -0.3 | -0.4 | -0.6 | -0.8 | -0.8 | -0.8 | -0.7 | -0.6 | -0.5 | -0.4 | -0.3 | -0.2 | -0.3 | -0.5 | -0.3 | -0.2 | -0.45 | -0.18 | |
| 27-Jan | -0.2 | -0.1 | 1.0 | 1.5 | 1.4 | 0.8 | 1.0 | 0.2 | -1.1 | -1.1 | -1.0 | -1.2 | -1.0 | -1.4 | -0.9 | -0.9 | -0.8 | -0.6 | -0.6 | -0.6 | -0.6 | -0.6 | -0.6 | -0.6 | -0.33 | 1.46 | |
| 28-Jan | -0.4 | -0.3 | -0.5 | -0.6 | -0.5 | -0.5 | -0.2 | 1.4 | 0.7 | -0.4 | -1.7 | -2.2 | -2.0 | -1.4 | -1.5 | -1.1 | -0.7 | -0.8 | -0.8 | -0.8 | -0.8 | -0.9 | -0.9 | -0.9 | -0.75 | 1.37 | |
| 29-Jan | -0.9 | -0.8 | -0.9 | -0.7 | -0.7 | -0.7 | -0.7 | -0.9 | -0.7 | -1.0 | -1.2 | -1.4 | -1.5 | -1.6 | -1.4 | -1.2 | -1.0 | -0.7 | -0.6 | -0.7 | -0.7 | -0.7 | -0.6 | -0.7 | -0.91 | -0.58 | |
| 30-Jan | -0.4 | -0.5 | -0.5 | -0.3 | -0.5 | -0.2 | 0.0 | 0.4 | 0.5 | 0.2 | -0.6 | -0.8 | -0.8 | -0.9 | -0.8 | -0.4 | 0.4 | -0.3 | -0.5 | -0.1 | -0.3 | -0.5 | -0.6 | -0.5 | -0.34 | 0.49 | |
| 31-Jan | -0.4 | -0.5 | -0.5 | -0.5 | -0.5 | -0.3 | -0.2 | -0.3 | -0.6 | -0.7 | -0.8 | -1.2 | -1.0 | -1.2 | -1.5 | -0.8 | -0.7 | -0.8 | -0.3 | -0.4 | -0.8 | -1.0 | -0.9 | -1.0 | -0.71 | -0.21 | |
| | 0.34 | 0.44 | 0.46 | 0.58 | 0.54 | 0.59 | 0.57 | 0.56 | 0.54 | 0.26 | -0.55 | -0.93 | -0.99 | -0.86 | -0.71 | -0.28 | 0.22 | 0.36 | 0.53 | 0.63 | 0.54 | 0.42 | 0.46 | 0.33 | | Diurnal Average | |
| | 2.47 | 2.76 | 3.14 | 2.90 | 2.94 | 2.77 | 2.61 | 2.70 | 3.09 | 2.55 | 1.20 | -0.10 | -0.27 | -0.06 | -0.02 | 0.90 | 2.41 | 2.68 | 2.63 | 2.98 | 2.95 | 2.63 | 2.79 | 2.73 | | Diurnal Maximum | |



WCAS - Genesee
Summary of Hourly Averages

Wind Speed (WS) - kph
January 2018

| Day | Hourly Period Ending At (MST) | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
|--------|-------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------|---------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1 Spd | 8.1 | 9.5 | 7.2 | 5.4 | 4.1 | 8.5 | 11.0 | 5.7 | 1.0 | 2.1 | 2.5 | 6.8 | 3.7 | 8.6 | 17.1 | 11.6 | 21.5 | 19.4 | 15.7 | 16.2 | 10.6 | 14.4 | 16.3 | 19.2 | 9.24 | 21.48 |
| Dir | SW | SW | SW | SW | SSW | SSW | SW | WNW | E | SSW | WSW | NW | WSW | WSW | SW | WSW | SW | WSW | SW | WSW | W | WNW | WSW | W | WSW | SW |
| 2 Spd | 22.7 | 17.5 | 16.2 | 16.6 | 19.9 | 18.8 | 17.4 | 16.8 | 14.2 | 13.4 | 11.2 | 13.6 | 12.2 | 7.6 | 8.9 | 11.5 | 5.3 | 12.9 | 12.3 | 13.5 | 12.3 | 15.0 | 17.3 | 15.3 | 13.39 | 22.69 |
| Dir | WNW | WNW | W | W | WNW | WNW | W | W | W | WSW | WSW | WSW | WSW | SW | WSW | WSW | W | WSW | WSW | WSW | WSW | WSW | WSW | WSW | W | WNW |
| 3 Spd | 16.3 | 17.3 | 17.4 | 15.9 | 12.7 | 13.1 | 19.4 | 14.2 | 10.6 | 11.4 | 8.5 | 7.3 | 7.8 | 13.7 | 13.3 | 10.7 | 13.0 | 15.7 | 16.9 | 17.4 | 15.3 | 11.4 | 17.9 | 17.8 | 13.77 | 19.44 |
| Dir | WSW | WSW | WSW | W | W | WSW | WSW | WSW | WSW | WSW | SW | SW | SW | SW | SW | WSW | WSW | SW | WSW | SW | WSW | WSW | WSW | WSW | WSW | WSW |
| 4 Spd | 16.5 | 16.0 | 8.0 | 13.6 | 11.7 | 10.7 | 17.9 | 19.2 | 13.5 | 9.8 | 3.1 | 6.9 | 14.9 | 2.8 | 3.3 | 2.1 | 4.9 | 4.0 | 5.2 | 6.4 | 5.5 | 7.6 | 6.3 | 2.0 | 5.80 | 19.17 |
| Dir | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | SW | W | WSW | WSW | NNE | ENE | E | SE | ESE | SE | SSE | SSW | N | NE | NE | NE | WSW |
| 5 Spd | 4.0 | 3.3 | 3.9 | 2.1 | 3.7 | 1.3 | 0.9 | 2.9 | 3.3 | 0.3 | 1.7 | 2.1 | 2.9 | 2.8 | 2.5 | 5.5 | 5.6 | 3.1 | 1.5 | 5.5 | 5.8 | 10.2 | 3.4 | 4.5 | 0.73 | 10.20 |
| Dir | NE | ESE | ENE | SE | SW | SSE | SSW | S | SW | E | NNE | ENE | E | SE | ENE | ENE | ENE | SE | SW | SSW | WSW | SW | NW | NW | SSE | WSW |
| 6 Spd | 1.9 | 3.1 | 1.7 | 5.0 | 4.6 | 12.4 | 13.4 | 27.5 | 27.0 | 24.8 | 18.4 | 9.4 | 10.2 | 9.0 | 9.4 | 8.3 | 7.8 | 6.2 | 9.4 | 11.6 | 10.5 | 11.7 | 14.9 | 14.3 | 9.65 | 27.52 |
| Dir | S | NW | WSW | SW | SW | WSW | WSW | WNW | NW | NW | NW | WSW | W | WSW | W | W | W | W | WSW | WSW | WSW | SW | WSW | SW | W | WNW |
| 7 Spd | 12.9 | 14.8 | 16.3 | 13.0 | 16.5 | 19.2 | 20.7 | 20.6 | 18.1 | 14.2 | 14.7 | 13.9 | 10.8 | 9.0 | 9.0 | 5.0 | 4.7 | 6.2 | 6.9 | 3.9 | 2.7 | 7.3 | 8.0 | 9.0 | 9.33 | 20.71 |
| Dir | SW | SW | WSW | WSW | W | W | W | W | W | W | W | W | W | SW | SW | SSW | S | S | SSE | S | SSE | SSE | SSE | S | WSW | W |
| 8 Spd | 9.5 | 12.0 | 10.8 | 11.0 | 9.8 | 7.4 | 7.0 | 4.6 | 7.1 | 10.8 | 4.1 | 3.4 | 3.9 | 2.1 | 5.5 | 3.1 | 4.9 | 2.1 | 4.5 | 10.5 | 11.3 | 12.1 | 15.2 | 19.4 | 1.00 | 19.45 |
| Dir | SE | SE | SSE | S | SSE | SSW | SSW | SW | SW | WSW | SW | SW | WSW | SW | SW | NW | NNE | S | NE | NE | NE | NNE | NNE | NNE | SE | NNE |
| 9 Spd | 22.6 | 21.2 | 20.3 | 18.4 | 19.1 | 18.6 | 19.4 | 19.7 | 21.2 | 20.6 | 23.2 | 23.0 | 22.6 | 22.5 | 22.9 | 24.5 | 25.2 | 27.3 | 25.0 | 23.8 | 27.4 | 22.2 | 15.3 | 15.5 | 20.50 | 27.44 |
| Dir | NNE | NNE | NNE | NNE | N | N | NNW | N | NNW | NNW | NW | NW | NW | NNW | NW | NW | NW | NNW | NNW | NNW | NNW | NNW | NW | NNW | NNW | NNW |
| 10 Spd | 16.4 | 16.6 | 14.9 | 15.6 | 15.7 | 14.3 | 14.3 | 13.0 | 14.5 | 13.9 | 12.7 | 14.7 | 11.9 | 9.5 | 9.8 | 7.6 | 6.5 | 3.6 | 3.8 | 1.1 | 3.7 | 3.1 | 6.2 | 13.0 | 9.23 | 16.57 |
| Dir | NW | NW | NNW | NNW | NNW | NNW | N | NNW | NNW | NNW | NNW | NNW | N | N | N | N | NE | E | SE | S | S | SSW | NW | NW | NNW | NW |
| 11 Spd | 11.3 | 6.3 | 1.0 | 3.2 | 6.2 | 6.3 | 5.3 | 4.2 | 3.6 | 4.4 | 4.6 | 3.6 | 5.1 | 7.8 | 10.3 | 9.9 | 8.4 | 12.3 | 10.1 | 8.9 | 6.6 | 5.6 | 6.4 | 3.0 | 2.68 | 12.31 |
| Dir | NW | NNW | W | SW | WSW | SW | SW | SSW | SSW | SSW | S | SSE | E | ENE | ENE | ENE | E | ESE | ESE | ESE | ESE | ESE | SE | SE | ESE | ESE |
| 12 Spd | 4.1 | 8.8 | 6.7 | 5.1 | 4.6 | 5.9 | 8.6 | 7.7 | 8.4 | 3.2 | 0.3 | 2.7 | 4.0 | 6.0 | 8.6 | 7.4 | 7.8 | 5.7 | 4.3 | 3.7 | 4.9 | 4.5 | 5.3 | 0.9 | 1.78 | 8.77 |
| Dir | SSW | SW | SW | SW | WSW | WSW | WSW | WSW | WSW | SSW | SSE | SE | ESE | ENE | ENE | ENE | ENE | E | ESE | ESE | SSW | SW | SW | SW | SSW | SW |
| 13 Spd | 3.7 | 4.5 | 4.9 | 3.4 | 1.1 | 6.3 | 18.1 | 16.7 | 17.8 | 16.7 | 17.5 | 15.1 | 12.3 | 17.7 | 17.8 | 17.9 | 15.2 | 13.6 | 21.4 | 20.3 | 20.4 | 21.1 | 12.2 | 14.2 | 11.91 | 21.45 |
| Dir | SSW | SSW | SW | SSW | WNW | SW | SW | WSW | WSW | SW | SW | SW | SW | WSW | W | W | W | W | WNW | WNW | WNW | WNW | WNW | WNW | WNW | W |
| 14 Spd | 10.2 | 9.0 | 9.0 | 10.3 | 14.3 | 8.8 | 7.3 | 6.2 | 8.0 | 5.7 | 8.8 | 9.8 | 9.3 | 8.0 | 8.0 | 7.5 | 8.9 | 7.7 | 9.3 | 10.0 | 10.5 | 13.2 | 12.1 | 10.8 | 6.30 | 14.26 |
| Dir | WNW | NW | NW | N | NE | NE | NE | ENE | NE | NE | ENE | E | E | E | E | E | ENE | E | E | ESE | ESE | ESE | ESE | ESE | ENE | ENE |
| 15 Spd | 9.7 | 11.3 | 11.8 | 12.7 | 11.1 | 10.0 | 10.0 | 10.4 | 9.1 | 9.3 | 20.5 | 30.5 | 31.6 | 24.4 | 20.2 | 18.3 | 17.7 | 17.3 | 9.6 | 6.9 | 8.5 | 10.5 | 8.4 | 5.2 | 12.93 | 31.62 |
| Dir | E | E | E | E | E | E | E | E | E | E | SE | SE | SE | SE | SE | ESE | ESE | ESE | ESE | E | ESE | SE | SE | ESE | ESE | SE |
| 16 Spd | 5.1 | 5.4 | 3.0 | 3.9 | 7.3 | 5.8 | 8.7 | 2.4 | 3.9 | 4.5 | 3.2 | 2.5 | 3.2 | 3.2 | 3.2 | 1.5 | 2.5 | 6.5 | 4.8 | 6.7 | 13.1 | 26.0 | 24.1 | 17.6 | 3.90 | 26.01 |
| Dir | ENE | ENE | ESE | SW | SW | WSW | NNW | NW | SSW | SW | SSW | SSE | SSE | ESE | SE | NW | SSE | SSW | N | WSW | W | W | WNW | W | W | W |
| 17 Spd | 17.7 | 19.6 | 24.1 | 14.4 | 13.0 | 10.8 | 12.8 | 11.0 | 14.8 | 13.7 | 13.8 | 11.0 | 6.1 | 2.8 | 5.8 | 9.3 | 9.3 | 8.9 | 7.5 | 7.4 | 10.6 | 7.2 | 6.9 | 12.1 | 4.54 | 24.05 |
| Dir | W | WNW | NW | W | WSW | SW | WSW | SW | SW | SW | WSW | WSW | SW | SSE | SE | ESE | E | E | E | ESE | ESE | E | ESE | SSE | SW | NW |
| 18 Spd | 15.7 | 17.2 | 3.2 | 5.7 | 11.4 | 14.6 | 12.1 | 8.6 | 9.6 | 7.9 | 6.3 | 5.2 | 1.1 | 2.4 | 4.7 | 16.3 | 14.1 | 16.0 | 13.7 | 10.6 | 13.0 | 10.5 | 12.2 | 14.9 | 9.32 | 17.15 |
| Dir | SW | SW | WSW | SSW | WSW | WSW | WSW | WNW | W | SSW | SW | SW | WSW | SE | WSW | W | WNW | W | W | WSW | WSW | WSW | SW | WSW | WSW | WSW |
| 19 Spd | 16.2 | 12.1 | 15.2 | 15.3 | 11.6 | 12.0 | 10.0 | 13.1 | 11.3 | 11.3 | 11.1 | 11.9 | 18.0 | 15.4 | 13.5 | 10.6 | 9.0 | 11.3 | 13.2 | 15.4 | 14.8 | 9.9 | 10.0 | 9.5 | 10.61 | 18.03 |
| Dir | W | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | SW | WSW | W | W | W | WSW | W | NW | NW | NW | WNW | W | W | W | WSW |
| 20 Spd | 9.1 | 10.2 | 9.4 | 9.5 | 2.1 | 2.5 | 2.3 | 5.7 | 3.1 | 5.2 | 4.2 | 1.5 | 3.9 | 4.4 | 1.6 | 1.7 | 0.1 | 1.7 | 3.2 | 2.7 | 4.0 | 6.8 | 3.8 | 6.3 | 0.99 | 10.19 |
| Dir | WSW | WSW | WSW | WSW | WSW | W | WNW | SW | WNW | NNE | E | SSE | NE | NE | NE | E | ENE | ENE | ESE | E | NNE | NNE | NE | SW | W | WSW |
| 21 Spd | 6.7 | 3.4 | 1.9 | 3.1 | 2.2 | 1.7 | 2.4 | 5.6 | 7.0 | 9.2 | 11.4 | 10.6 | 11.9 | 13.4 | 14.1 | 14.4 | 11.9 | 13.3 | 11.9 | 10.5 | 10.4 | 5.8 | 2.1 | 7.7 | 6.32 | 14.43 |
| Dir | SW | N | NE | SW | N | ENE | E | ENE | E | ENE | ENE | ENE | ENE | ENE | ENE | ENE | E | ENE | E | ENE | ENE | E | SSW | WNW | ENE | ENE |
| 22 Spd | 8.3 | 7.8 | 8.7 | 6.9 | 6.5 | 12.2 | 11.4 | 11.4 | 9.6 | 6.3 | 7.4 | 4.1 | 8.0 | 6.1 | 9.9 | 13.7 | 12.1 | 9.8 | 8.0 | 11.4 | 12.2 | 13.8 | 13.5 | 15.0 | 9.44 | 14.96 |
| Dir | W | W | WNW | WSW | WSW | W | W | W | WSW | WSW | WSW | SW | WSW | SW | W | W | WNW | W | W | W | WSW | WSW | WSW | WSW | WSW | WSW |



WCAS - Genesee
Summary of Hourly Averages

Wind Speed (WS) - kph
January 2018

| Day | Hourly Period Ending At (MST) | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum | |
|--|-------------------------------|---------|----------|----------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|---------------------------|-----------------|---------------|-----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | | |
| 23 Spd | 16.4 | 16.2 | 14.9 | 14.2 | 3.4 | 6.2 | 13.8 | 15.5 | 16.7 | 16.8 | 13.9 | 9.8 | 2.0 | 3.9 | 4.0 | 5.3 | 6.7 | 7.4 | 10.3 | 8.1 | 7.7 | 7.4 | 11.4 | 11.8 | 4.23 | 16.80 | |
| Dir | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | WSW | SSW | NE | ENE | E | ESE | ESE | SE | ESE | ESE | E | ENE | ENE | ENE | SW | WSW | |
| 24 Spd | 10.0 | 10.6 | 11.3 | 7.5 | 5.3 | 4.1 | 1.8 | 5.0 | 1.0 | 4.0 | 7.2 | 6.2 | 3.6 | 4.7 | 6.7 | 6.3 | 9.3 | 10.9 | 10.6 | 10.7 | 11.3 | 11.3 | 11.2 | 9.9 | 6.08 | 11.31 | |
| Dir | E | E | ESE | ESE | E | E | NE | N | NNW | WSW | NNW | NNW | NE | ENE | ENE | NE | NE | ENE | ENE | ENE | E | ENE | ENE | E | ENE | ENE | |
| 25 Spd | 7.4 | 9.2 | 9.9 | 6.0 | 5.5 | 5.6 | 6.3 | 6.7 | 8.2 | 5.6 | 7.5 | 10.7 | 10.5 | 10.6 | 13.6 | 12.5 | 15.0 | 19.8 | 22.1 | 17.4 | 15.1 | 15.3 | 17.5 | 16.0 | 7.57 | 22.12 | |
| Dir | ENE | ENE | NE | NE | E | ENE | NNE | NNE | NNE | NNE | N | NNE | N | NW | NNW | NW | NW | NW | NW | NW | WNW | W | W | W | NNW | NW | |
| 26 Spd | 20.1 | 17.2 | 19.6 | 25.7 | 23.3 | 23.1 | 24.6 | 24.2 | 24.5 | 25.0 | 26.3 | 25.6 | 31.5 | 29.0 | 29.0 | 26.7 | 22.2 | 19.7 | 17.5 | 16.1 | 16.2 | 18.0 | 15.5 | 15.1 | 22.09 | 31.54 | |
| Dir | WNW | WNW | WNW | WNW | WNW | WNW | WNW | WNW | WNW | WNW | WNW | NW | NW | NW | NW | NW | NW | NW | NW | NW | NW | NW | NW | NW | NW | NW | NW |
| 27 Spd | 11.2 | 10.8 | 11.2 | 10.0 | 8.3 | 2.7 | 5.9 | 2.6 | 3.1 | 0.2 | 3.2 | 5.9 | 7.0 | 7.4 | 9.0 | 11.0 | 9.2 | 9.9 | 8.5 | 9.5 | 10.8 | 11.1 | 14.7 | 14.7 | 4.33 | 14.73 | |
| Dir | WNW | WNW | NW | NW | NW | SW | WSW | SW | SSW | ENE | ENE | ENE | E | ENE | ENE | ENE | ENE | NE | N | N | NW | NW | NW | NW | N | NW | |
| 28 Spd | 13.8 | 11.7 | 13.4 | 15.1 | 12.8 | 10.4 | 9.1 | 7.1 | 5.9 | 2.4 | 2.6 | 3.8 | 7.3 | 9.1 | 9.3 | 10.5 | 10.0 | 13.0 | 11.8 | 13.7 | 14.2 | 15.8 | 15.8 | 14.7 | 3.18 | 15.82 | |
| Dir | NW | NW | NW | NW | NW | NW | NNW | NW | NW | NNW | SSE | S | ESE | E | E | E | E | ESE | E | ESE | ESE | ESE | ESE | ESE | ESE | ENE | ESE |
| 29 Spd | 14.2 | 11.9 | 14.3 | 14.0 | 14.1 | 12.9 | 11.1 | 12.8 | 12.9 | 10.1 | 12.1 | 10.5 | 12.4 | 11.8 | 11.7 | 10.8 | 9.7 | 8.5 | 10.6 | 7.9 | 9.0 | 5.8 | 5.2 | 14.9 | 9.93 | 14.91 | |
| Dir | ESE | ESE | ESE | ESE | ESE | ESE | ESE | SE | ESE | ESE | ESE | ESE | ESE | SE | ESE | ESE | ESE | ESE | ESE | ESE | ESE | E | ENE | NNW | ESE | NNW | |
| 30 Spd | 27.4 | 27.8 | 17.1 | 17.2 | 29.0 | 28.6 | 20.5 | 12.0 | 7.8 | 8.7 | 12.6 | 11.2 | 9.1 | 9.7 | 5.8 | 7.9 | 8.0 | 7.0 | 8.5 | 5.2 | 4.2 | 7.0 | 12.3 | 18.2 | 11.64 | 29.02 | |
| Dir | NW | WNW | WNW | NW | NW | NW | NW | WNW | WNW | WNW | WNW | WNW | NW | NW | NW | NNW | NNW | NE | NNE | NNE | NNE | NNE | NNE | N | NW | NW | |
| 31 Spd | 16.4 | 16.7 | 17.0 | 14.6 | 9.6 | 7.8 | 7.0 | 6.2 | 7.9 | 6.5 | 5.1 | 3.9 | 2.4 | 0.3 | 1.3 | 0.7 | 3.3 | 4.2 | 4.3 | 4.6 | 6.5 | 7.3 | 6.3 | 6.3 | 5.20 | 17.03 | |
| Dir | N | NNE | N | N | NE | NE | NNE | N | N | NE | NNE | ENE | ENE | W | SSW | ENE | ENE | E | ESE | ESE | ESE | ESE | E | E | NE | NE | |
| Spd | 5.58 | 5.16 | 4.44 | 4.78 | 4.43 | 4.94 | 6.50 | 6.39 | 5.64 | 4.64 | 3.58 | 2.55 | 1.75 | 1.00 | 1.26 | 1.80 | 1.65 | 0.70 | 1.10 | 1.49 | 1.99 | 3.02 | 2.82 | 4.31 | Diurnal Average | | |
| Dir | WNW | W | WNW | W | WNW | W | W | W | W | W | W | WSW | W | WNW | NW | NW | NNW | NNW | NNW | WNW | WNW | WNW | W | WNW | Diurnal Maximum | | |
| Spd | 27.40 | 27.84 | 24.05 | 25.73 | 29.02 | 28.62 | 24.55 | 27.52 | 26.98 | 25.03 | 26.26 | 30.51 | 31.62 | 29.04 | 28.95 | 26.73 | 25.23 | 27.32 | 25.02 | 23.82 | 27.44 | 26.01 | 24.08 | 19.45 | Diurnal Maximum | | |
| Dir | 317.47 | 296.64 | 303.95 | 299.57 | 304.95 | 319.14 | 302.58 | 294.43 | 316.20 | 299.40 | 299.44 | 142.22 | 144.09 | 311.49 | 312.26 | 317.34 | 322.62 | 328.16 | 335.87 | 327.84 | 329.17 | 276.23 | 282.97 | 23.58 | Diurnal Maximum | | |
| Maximum Speed Value: 31.6 kph on Jan 15 13:00 | | | | | | | | | | | | | | | | | | Minimum Speed Value: 0.1 kph on Jan 20 17:00 | | | | | | Hours in Service: | | 744 | |
| Maximum Daily Speed Average: 22.09 kph on Jan 26 | | | | | | | | | | | | | | | | | | Minimum Daily Speed Average: 0.73 kph on Jan 5 | | | | | | Hours of Data: | | 744 | |
| Maximum Diurnal Speed Average: 6.50 kph at hour 7 | | | | | | | | | | | | | | | | | | Minimum Diurnal Speed Average: 0.70 kph at hour 18 | | | | | | Hours of Missing Data: | | 0 | |
| Monthly Average Velocity: 3.283 kph 282.19 deg | | | | | | | | | | | | | | | | | | Speed Percentiles: P ₁ = 0.9 P ₁₀ = 3.2 Q ₁ = 5.8 Median = 9.9 Q ₃ = 14.3 P ₉₀ = 18.2 P ₉₉ = 28.3 | | | | | | Percent Operational Time: | | 100.0 | |
| All monthly, daily, and diurnal averages have been calculated using vector methods | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency Distribution | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speed Range (kph) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direction | 0 to 5 | 5 to 11 | 11 to 19 | 19 to 28 | 28 to 38 | > 38 | Total | | | | | | | | | | | | | | | | | | | | |
| North | 5 | 18 | 14 | 7 | 0 | 0 | 44 | | | | | | | | | | | | | | | | | | | | |
| NorthEast | 25 | 37 | 5 | 1 | 0 | 0 | 68 | | | | | | | | | | | | | | | | | | | | |
| East | 23 | 72 | 30 | 0 | 0 | 0 | 125 | | | | | | | | | | | | | | | | | | | | |
| SouthEast | 16 | 24 | 16 | 3 | 2 | 0 | 61 | | | | | | | | | | | | | | | | | | | | |
| South | 23 | 9 | 0 | 0 | 0 | 0 | 32 | | | | | | | | | | | | | | | | | | | | |
| SouthWest | 32 | 59 | 80 | 4 | 0 | 0 | 175 | | | | | | | | | | | | | | | | | | | | |
| West | 13 | 41 | 59 | 10 | 0 | 0 | 123 | | | | | | | | | | | | | | | | | | | | |
| NorthWest | 9 | 21 | 42 | 39 | 5 | 0 | 116 | | | | | | | | | | | | | | | | | | | | |
| Total | 146 | 281 | 246 | 64 | 7 | 0 | 744 | | | | | | | | | | | | | | | | | | | | |



WCAS - Genesee
Summary of Hourly Averages

Relative Humidity (RH) - %
January 2018

| Maximum Value: 98.31 % on Jan 20 11:00 Maximum Daily Average: 95.37 % on Jan 20 | | | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 Hours of Data: 744 | | | | |
|---|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|------|-----------------|---------------|---------------|
| Minimum Value: 37.5 % on Jan 18 18:00 Minimum Daily Average: 60.98 % on Jan 18 Maximum Diurnal Average: 81.94 % at hour 6 Minimum Diurnal Average: 69.07 % at hour 15 Monthly Average: 77.910 % Percentiles: P₁ = 48.4 P₁₀ = 64.7 Q₁ = 71.6 Median = 77.4 Q₃ = 85.8 P₉₀ = 92.3 P₉₉ = 97.5 | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 0 Hours of Calibration: 0 Percent Operational Time: 100.0 | | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1-Jan | 73.2 | 73.0 | 72.1 | 72.9 | 74.8 | 72.4 | 77.1 | 77.4 | 76.3 | 77.6 | 80.2 | 77.1 | 65.1 | 65.3 | 62.0 | 63.2 | 64.1 | 64.2 | 65.1 | 71.3 | 65.1 | 67.1 | 72.6 | 65.2 | 70.61 | 80.18 |
| 2-Jan | 64.1 | 66.7 | 67.6 | 68.3 | 67.1 | 70.8 | 71.6 | 73.6 | 76.6 | 77.9 | 77.4 | 72.0 | 68.0 | 66.3 | 67.4 | 67.6 | 70.8 | 72.7 | 74.3 | 77.0 | 76.4 | 81.2 | 83.8 | 87.6 | 72.79 | 87.56 |
| 3-Jan | 85.9 | 83.2 | 82.8 | 77.7 | 76.9 | 84.2 | 82.3 | 78.6 | 82.3 | 81.9 | 74.5 | 69.7 | 65.4 | 63.7 | 63.0 | 64.8 | 71.3 | 74.8 | 73.9 | 76.4 | 74.1 | 75.3 | 74.8 | 75.7 | 75.55 | 85.89 |
| 4-Jan | 76.4 | 72.4 | 82.8 | 84.7 | 84.1 | 82.8 | 84.3 | 83.7 | 82.0 | 83.2 | 78.6 | 72.3 | 67.0 | 66.7 | 70.7 | 72.5 | 77.5 | 79.8 | 87.7 | 92.2 | 90.2 | 95.1 | 95.6 | 95.4 | 81.57 | 95.59 |
| 5-Jan | 97.0 | 95.9 | 97.0 | 93.9 | 92.3 | 93.4 | 90.8 | 91.1 | 92.3 | 92.2 | 93.8 | 93.7 | 92.8 | 91.5 | 84.6 | 78.8 | 81.9 | 86.8 | 89.3 | 88.1 | 90.0 | 86.1 | 80.6 | 90.2 | 90.16 | 97.02 |
| 6-Jan | 87.8 | 91.0 | 92.9 | 89.2 | 83.4 | 85.5 | 80.2 | 72.3 | 78.6 | 75.1 | 72.8 | 72.4 | 70.8 | 70.9 | 61.3 | 67.7 | 68.5 | 74.1 | 76.6 | 83.5 | 72.3 | 70.4 | 58.9 | 64.9 | 75.88 | 92.89 |
| 7-Jan | 71.2 | 72.2 | 74.6 | 78.3 | 65.9 | 62.3 | 61.7 | 56.5 | 55.1 | 59.0 | 59.2 | 53.8 | 51.7 | 57.7 | 59.9 | 61.7 | 61.5 | 66.1 | 68.9 | 69.9 | 68.4 | 72.6 | 74.5 | 76.6 | 64.97 | 78.26 |
| 8-Jan | 74.5 | 73.4 | 74.3 | 78.1 | 79.9 | 80.3 | 80.2 | 82.6 | 83.7 | 79.5 | 76.0 | 72.7 | 71.3 | 67.3 | 68.5 | 74.1 | 78.2 | 78.7 | 80.9 | 78.7 | 78.3 | 83.1 | 85.8 | 88.7 | 77.87 | 88.70 |
| 9-Jan | 93.1 | 92.8 | 89.9 | 88.0 | 85.9 | 83.9 | 82.2 | 80.9 | 79.5 | 80.6 | 80.5 | 78.2 | 77.3 | 77.3 | 76.3 | 76.8 | 78.0 | 75.1 | 74.8 | 71.7 | 70.8 | 71.1 | 74.3 | 75.7 | 79.77 | 93.13 |
| 10-Jan | 76.1 | 75.9 | 74.5 | 73.7 | 74.3 | 73.4 | 73.5 | 72.3 | 70.7 | 69.8 | 69.2 | 68.7 | 67.3 | 65.9 | 66.3 | 68.5 | 71.3 | 75.3 | 76.5 | 78.6 | 77.8 | 77.6 | 77.3 | 74.0 | 72.85 | 78.55 |
| 11-Jan | 73.6 | 75.2 | 77.0 | 77.4 | 77.3 | 76.8 | 76.1 | 75.9 | 75.3 | 74.4 | 76.7 | 76.8 | 74.1 | 69.4 | 68.1 | 67.1 | 67.3 | 70.1 | 72.3 | 75.1 | 76.7 | 76.6 | 75.8 | 75.7 | 74.20 | 77.41 |
| 12-Jan | 75.7 | 76.3 | 75.3 | 73.9 | 76.5 | 74.8 | 74.3 | 75.1 | 73.5 | 72.0 | 75.5 | 73.7 | 70.3 | 67.3 | 66.4 | 67.6 | 69.8 | 73.3 | 75.4 | 76.3 | 76.7 | 76.9 | 75.5 | 76.2 | 73.67 | 76.87 |
| 13-Jan | 76.4 | 76.2 | 77.3 | 75.7 | 77.3 | 79.3 | 79.8 | 76.8 | 80.0 | 83.6 | 83.7 | 78.8 | 72.9 | 64.7 | 59.4 | 59.0 | 63.3 | 66.6 | 67.2 | 68.9 | 69.5 | 71.0 | 72.8 | 75.7 | 73.16 | 83.71 |
| 14-Jan | 76.7 | 79.7 | 79.5 | 78.9 | 81.3 | 85.5 | 87.2 | 86.9 | 85.8 | 84.4 | 83.5 | 78.4 | 73.5 | 68.2 | 69.0 | 70.6 | 74.2 | 82.0 | 87.7 | 88.2 | 88.6 | 87.1 | 85.9 | 86.2 | 81.21 | 88.63 |
| 15-Jan | 86.8 | 86.3 | 85.5 | 85.8 | 87.2 | 87.4 | 87.3 | 87.9 | 88.4 | 89.5 | 92.6 | 87.7 | 82.4 | 79.0 | 76.3 | 73.2 | 76.2 | 79.9 | 84.2 | 88.7 | 90.7 | 89.3 | 88.0 | 89.4 | 85.40 | 92.56 |
| 16-Jan | 90.4 | 89.5 | 89.1 | 88.8 | 87.0 | 88.2 | 89.7 | 89.1 | 86.6 | 89.2 | 90.8 | 89.0 | 78.8 | 67.6 | 62.3 | 63.2 | 68.8 | 72.8 | 75.8 | 80.8 | 78.1 | 59.0 | 58.5 | 58.9 | 78.84 | 90.82 |
| 17-Jan | 54.7 | 56.7 | 77.0 | 75.6 | 81.6 | 88.3 | 75.4 | 71.8 | 70.4 | 62.8 | 56.0 | 54.2 | 46.6 | 43.1 | 45.5 | 48.5 | 51.6 | 64.0 | 67.8 | 69.5 | 67.3 | 69.6 | 72.0 | 74.9 | 64.37 | 88.25 |
| 18-Jan | 74.5 | 67.8 | 66.3 | 72.6 | 69.3 | 66.7 | 66.1 | 71.4 | 63.0 | 73.5 | 68.7 | 60.6 | 59.1 | 58.3 | 56.8 | 45.2 | 44.8 | 37.5 | 45.9 | 57.8 | 61.2 | 53.8 | 66.2 | 56.7 | 60.98 | 74.46 |
| 19-Jan | 52.3 | 64.6 | 70.0 | 69.2 | 69.9 | 72.0 | 70.6 | 72.4 | 71.6 | 70.6 | 62.8 | 57.4 | 55.0 | 52.3 | 56.3 | 60.9 | 58.7 | 66.7 | 72.0 | 76.7 | 82.9 | 85.5 | 86.4 | 86.3 | 68.46 | 86.41 |
| 20-Jan | 89.2 | 90.6 | 89.7 | 89.4 | 89.8 | 94.9 | 94.2 | 96.8 | 96.0 | 98.2 | 98.3 | 96.8 | 97.3 | 97.7 | 97.6 | 96.6 | 96.8 | 97.9 | 97.4 | 97.7 | 97.8 | 96.7 | 96.6 | 94.6 | 95.37 | 98.31 |
| 21-Jan | 95.9 | 95.4 | 96.0 | 94.5 | 94.6 | 95.5 | 94.6 | 95.4 | 92.8 | 91.2 | 92.6 | 93.2 | 93.1 | 92.4 | 92.0 | 89.8 | 88.5 | 88.8 | 90.0 | 90.8 | 90.8 | 90.1 | 91.2 | 90.9 | 92.51 | 95.98 |
| 22-Jan | 91.5 | 92.2 | 93.3 | 92.9 | 92.9 | 94.5 | 95.6 | 95.2 | 94.1 | 92.6 | 93.1 | 91.4 | 78.2 | 72.0 | 61.6 | 63.0 | 65.9 | 70.5 | 76.4 | 75.7 | 75.1 | 75.5 | 78.7 | 79.3 | 82.97 | 95.57 |
| 23-Jan | 76.6 | 77.0 | 75.7 | 67.4 | 68.7 | 73.1 | 73.2 | 70.7 | 70.4 | 66.1 | 63.6 | 54.8 | 49.6 | 54.8 | 55.5 | 58.7 | 58.0 | 61.7 | 68.6 | 68.8 | 70.7 | 71.1 | 75.4 | 76.5 | 66.95 | 76.97 |
| 24-Jan | 76.1 | 78.1 | 81.4 | 84.9 | 87.5 | 89.5 | 91.3 | 91.2 | 91.8 | 92.3 | 94.1 | 88.3 | 79.9 | 76.8 | 75.2 | 80.0 | 86.2 | 90.1 | 91.0 | 92.4 | 94.2 | 94.8 | 95.5 | 95.5 | 87.41 | 95.46 |
| 25-Jan | 95.7 | 96.3 | 96.7 | 96.4 | 95.9 | 96.0 | 96.5 | 96.4 | 95.9 | 95.4 | 95.3 | 94.9 | 93.9 | 92.0 | 90.6 | 88.1 | 90.2 | 91.6 | 92.1 | 90.7 | 89.3 | 87.8 | 86.8 | 87.1 | 92.98 | 96.70 |
| 26-Jan | 85.7 | 84.5 | 82.9 | 82.1 | 80.8 | 80.2 | 79.1 | 79.8 | 80.5 | 79.9 | 77.7 | 76.2 | 73.9 | 72.5 | 72.0 | 71.8 | 72.1 | 73.3 | 75.3 | 77.2 | 79.2 | 79.6 | 81.4 | 82.4 | 78.33 | 85.66 |
| 27-Jan | 83.6 | 83.1 | 83.5 | 83.1 | 82.4 | 82.2 | 82.5 | 82.6 | 83.2 | 83.8 | 82.4 | 80.4 | 78.8 | 75.1 | 75.5 | 77.2 | 78.6 | 81.6 | 83.4 | 84.0 | 84.1 | 84.0 | 83.8 | 83.5 | 81.78 | 84.12 |
| 28-Jan | 83.6 | 84.2 | 84.0 | 83.9 | 84.2 | 83.3 | 83.3 | 84.4 | 84.9 | 83.3 | 77.8 | 73.3 | 71.1 | 71.7 | 72.0 | 75.4 | 78.3 | 79.6 | 80.5 | 81.1 | 80.7 | 80.8 | 80.9 | 82.0 | 80.18 | 84.87 |
| 29-Jan | 81.4 | 80.2 | 78.3 | 78.3 | 78.5 | 78.2 | 78.3 | 78.2 | 78.4 | 77.6 | 74.5 | 71.9 | 70.7 | 69.2 | 71.7 | 73.3 | 75.2 | 80.5 | 83.3 | 83.9 | 84.4 | 84.3 | 84.7 | 84.5 | 78.31 | 84.69 |
| 30-Jan | 83.8 | 85.7 | 87.5 | 90.0 | 85.7 | 85.8 | 85.9 | 87.6 | 85.5 | 86.8 | 83.2 | 82.0 | 79.1 | 76.1 | 73.9 | 74.2 | 77.6 | 78.0 | 79.7 | 81.4 | 83.3 | 86.7 | 86.6 | 82.6 | 82.87 | 90.04 |
| 31-Jan | 80.0 | 80.3 | 79.0 | 78.2 | 79.1 | 78.8 | 78.6 | 78.1 | 76.9 | 75.0 | 74.5 | 70.5 | 68.0 | 65.7 | 63.5 | 64.5 | 67.8 | 69.4 | 72.0 | 71.7 | 72.3 | 70.7 | 70.9 | 72.1 | 73.24 | 80.34 |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | |
| 80.12 80.53 81.72 81.42 81.04 81.94 81.40 81.04 80.71 80.62 79.34 76.16 72.36 70.27 69.07 69.80 72.02 74.95 77.61 79.49 79.25 79.05 79.74 80.16 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | |
| 96.97 96.28 97.02 96.44 95.85 96.04 96.49 96.77 95.95 98.24 98.31 96.84 97.32 97.72 97.58 96.61 96.81 97.92 97.41 97.73 97.76 96.71 96.64 95.45 | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | |



WCAS - Genesee
Summary of Hourly Averages

Global Solar Radiation (GSR) - W/m2
January 2018

| Maximum Value: 377.96 W/m2 on Jan 16 13:00 Maximum Daily Average: 70.50 W/m2 on Jan 16 | | | | | | | | | | | | | | | | | | | | | | | Hours in Service: | 744 | | |
|---|-------------------------|-----|-----|-----|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-----|-----|-----|---------------------------|-------|---------------|---------------|
| Minimum Value: 0.0 W/m2 on Jan 1 01:00 Minimum Daily Average: 16.48 W/m2 on Jan 25 | | | | | | | | | | | | | | | | | | | | | | | Hours of Data: | 744 | | |
| Maximum Diurnal Average: 230.15 W/m2 at hour 13 Minimum Diurnal Average: 0.00 W/m2 at hour 1 | | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: | 0 | | |
| Monthly Average: 45.673 W/m2 Percentiles: P ₁ = 0.0 P ₁₀ = 0.0 Q ₁ = 0.0 Median = 0.0 Q ₃ = 54.9 P ₉₀ = 189.3 P ₉₉ = 323.2 | | | | | | | | | | | | | | | | | | | | | | | Hours of Calibration: | 0 | | |
| | | | | | | | | | | | | | | | | | | | | | | | Percent Operational Time: | 100.0 | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 84.0 | 208.9 | 294.9 | 317.2 | 215.6 | 99.3 | 52.4 | 10.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.45 | 317.18 |
| 2-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 43.5 | 128.0 | 203.6 | 240.9 | 133.7 | 119.3 | 49.3 | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.66 | 240.91 |
| 3-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 54.4 | 163.4 | 192.4 | 236.6 | 220.2 | 162.6 | 47.1 | 8.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45.21 | 236.63 |
| 4-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 33.8 | 122.0 | 214.1 | 238.7 | 172.8 | 85.0 | 65.3 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 39.41 | 238.65 |
| 5-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 78.4 | 175.7 | 223.0 | 247.6 | 251.3 | 234.3 | 67.7 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.54 | 251.25 |
| 6-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 32.6 | 57.4 | 123.8 | 109.9 | 147.7 | 166.3 | 48.2 | 14.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 29.20 | 166.32 |
| 7-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 37.2 | 119.9 | 211.9 | 191.6 | 127.4 | 89.7 | 46.8 | 7.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 34.69 | 211.85 |
| 8-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 | 56.0 | 108.0 | 129.1 | 106.6 | 93.2 | 45.8 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.35 | 129.09 |
| 9-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.8 | 45.1 | 95.3 | 115.5 | 110.0 | 86.2 | 49.7 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.88 | 115.52 |
| 10-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 29.5 | 56.3 | 102.7 | 147.2 | 218.3 | 148.9 | 64.0 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.54 | 218.34 |
| 11-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 83.1 | 204.2 | 290.9 | 323.5 | 308.5 | 244.4 | 75.3 | 27.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 64.93 | 323.48 |
| 12-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 97.6 | 224.7 | 300.6 | 344.6 | 311.2 | 174.3 | 52.7 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 63.46 | 344.56 |
| 13-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.9 | 68.5 | 154.8 | 243.7 | 240.5 | 159.7 | 83.1 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 41.19 | 243.66 |
| 14-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 11.9 | 46.9 | 94.3 | 165.2 | 185.2 | 157.7 | 75.0 | 14.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.28 | 185.16 |
| 15-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 65.1 | 227.7 | 347.0 | 344.1 | 299.9 | 223.6 | 69.8 | 22.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 66.68 | 347.00 |
| 16-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 116.8 | 233.8 | 338.6 | 378.0 | 310.3 | 223.8 | 66.6 | 21.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 70.50 | 377.96 |
| 17-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 64.3 | 173.0 | 196.0 | 298.0 | 245.5 | 210.7 | 77.5 | 15.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.42 | 297.99 |
| 18-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 40.2 | 76.7 | 239.3 | 302.8 | 289.0 | 217.0 | 79.1 | 28.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.02 | 302.75 |
| 19-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 32.9 | 84.8 | 127.4 | 121.3 | 184.4 | 151.3 | 75.4 | 17.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 33.18 | 184.41 |
| 20-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 72.1 | 87.8 | 87.3 | 118.1 | 97.0 | 88.8 | 52.7 | 27.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.59 | 118.12 |
| 21-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.1 | 95.3 | 183.4 | 94.3 | 180.8 | 156.2 | 124.7 | 76.8 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 38.78 | 183.40 |
| 22-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 87.0 | 108.9 | 298.1 | 293.7 | 327.0 | 292.0 | 100.5 | 24.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 63.98 | 327.01 |
| 23-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.4 | 40.6 | 98.7 | 275.0 | 311.6 | 294.7 | 188.0 | 72.7 | 27.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 54.81 | 311.62 |
| 24-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 81.8 | 232.5 | 330.7 | 236.3 | 238.2 | 153.4 | 90.5 | 33.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 58.31 | 330.66 |
| 25-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 16.7 | 42.3 | 84.8 | 97.6 | 76.0 | 40.7 | 25.5 | 11.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.48 | 97.63 |
| 26-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.3 | 48.5 | 128.2 | 201.4 | 212.2 | 200.6 | 167.9 | 113.1 | 66.9 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.84 | 212.24 |
| 27-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.2 | 55.8 | 110.6 | 268.6 | 258.6 | 254.5 | 155.2 | 112.3 | 33.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.62 | 268.58 |
| 28-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.6 | 86.1 | 206.5 | 308.9 | 284.0 | 280.6 | 208.9 | 96.7 | 38.9 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 63.45 | 308.94 |
| 29-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 40.7 | 103.0 | 137.6 | 156.3 | 134.7 | 79.8 | 62.5 | 33.3 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.38 | 156.27 |
| 30-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.0 | 119.3 | 182.5 | 145.6 | 230.0 | 347.1 | 272.5 | 89.9 | 35.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 59.96 | 347.13 |
| 31-Jan | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 63.4 | 105.6 | 216.7 | 260.1 | 228.1 | 177.2 | 118.5 | 68.9 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.09 | 260.09 |
| | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | | |
| | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | | |



WCAS - Genesee
Summary of Hourly Standard Deviations

Wind Speed (WS) - kph
January 2018

| Maximum Value: 15.85 kph on Jan 30 00:00 | | Maximum Daily Average: 4.09 kph on Jan 9 | | Hours in Service: 744 | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------|--|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------|---------------|---------------|
| Minimum Value: 0.2 kph on Jan 20 17:00 | | Minimum Daily Average: 1.48 kph on Jan 20 | | Hours of Data: 744 | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Diurnal Average: 2.71 kph at hour 24 | | Minimum Diurnal Average: 2.10 kph at hour 20 | | Hours of Missing Data: 0 | | | | | | | | | | | | | | | | | | | | | | |
| Monthly Average: 2.348 kph | | Percentiles: P ₁ = 0.7 P ₁₀ = 1.2 Q ₁ = 1.5 Median = 2.1 Q ₃ = 2.9 P ₉₀ = 3.9 P ₉₉ = 6.1 | | Hours of Calibration: 0 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Percent Operational Time: 100.0 | | | | | | | | | | | | | | | | | | | | | | |
| Day | Hourly Period Ending At (MST) | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1-Jan | 0.6 | 1.5 | 1.2 | 1.5 | 1.5 | 1.3 | 1.3 | 4.6 | 1.7 | 2.4 | 2.7 | 3.6 | 4.4 | 3.1 | 2.9 | 3.2 | 4.3 | 3.2 | 5.3 | 2.9 | 5.6 | 2.6 | 2.3 | 3.2 | 2.78 | 5.60 |
| 2-Jan | 4.1 | 3.8 | 2.4 | 2.6 | 4.9 | 4.2 | 3.1 | 3.0 | 2.4 | 1.7 | 1.0 | 1.5 | 2.7 | 1.4 | 1.5 | 1.6 | 1.7 | 1.3 | 1.4 | 1.1 | 1.5 | 1.8 | 1.2 | 1.2 | 2.22 | 4.92 |
| 3-Jan | 1.4 | 2.1 | 1.9 | 3.5 | 3.5 | 4.7 | 3.2 | 3.7 | 4.2 | 3.1 | 2.1 | 1.5 | 2.3 | 3.6 | 1.6 | 1.9 | 1.5 | 1.3 | 1.1 | 1.0 | 1.3 | 3.3 | 1.3 | 1.6 | 2.37 | 4.69 |
| 4-Jan | 3.3 | 3.3 | 3.8 | 3.4 | 1.7 | 3.6 | 2.4 | 1.3 | 1.7 | 3.7 | 2.9 | 4.3 | 2.5 | 3.6 | 1.2 | 1.8 | 1.0 | 1.3 | 0.7 | 0.8 | 2.5 | 2.1 | 1.3 | 2.0 | 2.34 | 4.26 |
| 5-Jan | 1.4 | 0.9 | 0.9 | 1.3 | 2.8 | 1.5 | 1.5 | 1.6 | 1.8 | 0.8 | 1.5 | 1.2 | 1.1 | 1.2 | 1.3 | 1.1 | 1.3 | 1.4 | 1.8 | 2.9 | 3.9 | 4.1 | 2.4 | 2.1 | 1.75 | 4.14 |
| 6-Jan | 1.8 | 2.9 | 1.8 | 3.8 | 2.1 | 2.1 | 2.2 | 5.7 | 4.0 | 3.5 | 4.5 | 2.5 | 2.1 | 1.8 | 2.0 | 1.0 | 0.9 | 2.0 | 1.1 | 1.6 | 1.4 | 1.9 | 1.9 | 2.4 | 2.37 | 5.71 |
| 7-Jan | 1.4 | 1.9 | 2.1 | 1.9 | 2.7 | 3.1 | 3.7 | 3.8 | 3.0 | 2.6 | 2.6 | 2.8 | 3.2 | 1.9 | 2.2 | 1.0 | 1.3 | 0.8 | 0.9 | 0.7 | 2.0 | 0.7 | 1.5 | 1.8 | 2.07 | 3.77 |
| 8-Jan | 1.1 | 2.1 | 1.4 | 1.7 | 1.0 | 1.6 | 1.2 | 2.3 | 3.0 | 3.7 | 2.1 | 1.9 | 3.5 | 1.6 | 3.4 | 2.1 | 1.3 | 1.6 | 3.4 | 2.8 | 2.0 | 2.0 | 2.7 | 3.5 | 2.21 | 3.66 |
| 9-Jan | 4.1 | 3.6 | 3.3 | 2.9 | 3.1 | 3.1 | 2.8 | 3.5 | 3.6 | 3.4 | 3.9 | 3.9 | 4.4 | 4.4 | 4.0 | 5.1 | 4.8 | 5.7 | 6.3 | 5.4 | 5.0 | 5.8 | 3.7 | 2.6 | 4.09 | 6.32 |
| 10-Jan | 2.5 | 2.7 | 2.6 | 2.7 | 2.5 | 3.0 | 2.1 | 2.3 | 2.5 | 2.7 | 2.2 | 2.3 | 2.9 | 1.9 | 1.5 | 1.1 | 1.4 | 1.8 | 1.6 | 1.2 | 1.3 | 2.2 | 4.3 | 2.0 | 2.22 | 4.33 |
| 11-Jan | 1.7 | 2.7 | 1.7 | 1.5 | 3.6 | 1.5 | 1.0 | 1.4 | 0.8 | 0.9 | 0.9 | 0.8 | 1.7 | 1.7 | 2.0 | 2.0 | 1.5 | 1.8 | 2.4 | 1.3 | 0.8 | 1.1 | 0.8 | 1.9 | 1.56 | 3.63 |
| 12-Jan | 1.2 | 0.9 | 1.0 | 1.8 | 2.8 | 0.9 | 2.9 | 1.6 | 2.1 | 1.9 | 0.7 | 1.1 | 1.5 | 1.7 | 1.9 | 1.4 | 1.2 | 1.5 | 0.8 | 1.5 | 1.7 | 2.0 | 1.5 | 1.3 | 1.53 | 2.89 |
| 13-Jan | 1.9 | 2.7 | 1.9 | 2.0 | 1.4 | 2.6 | 4.7 | 2.0 | 2.8 | 2.2 | 1.6 | 1.8 | 3.3 | 3.5 | 3.0 | 3.4 | 2.5 | 2.0 | 3.6 | 3.9 | 3.4 | 3.2 | 3.8 | 2.2 | 2.72 | 4.65 |
| 14-Jan | 2.6 | 1.1 | 1.4 | 4.4 | 2.4 | 2.4 | 2.2 | 1.6 | 2.1 | 1.4 | 3.0 | 2.6 | 2.2 | 2.3 | 2.5 | 2.4 | 1.8 | 1.5 | 1.9 | 1.4 | 1.4 | 1.9 | 1.9 | 1.9 | 2.09 | 4.36 |
| 15-Jan | 1.9 | 1.6 | 1.5 | 1.6 | 1.9 | 2.0 | 1.6 | 1.8 | 1.7 | 2.0 | 6.8 | 4.4 | 4.5 | 4.2 | 3.8 | 2.9 | 3.3 | 2.8 | 3.2 | 2.4 | 2.7 | 1.7 | 1.8 | 1.7 | 2.65 | 6.83 |
| 16-Jan | 1.1 | 1.4 | 1.3 | 1.0 | 1.6 | 2.6 | 2.3 | 1.4 | 0.9 | 0.7 | 0.8 | 1.7 | 1.2 | 1.5 | 1.1 | 1.4 | 3.2 | 4.3 | 3.1 | 3.6 | 7.5 | 6.1 | 6.7 | 3.2 | 2.49 | 7.53 |
| 17-Jan | 3.5 | 4.1 | 6.8 | 2.7 | 1.8 | 1.1 | 1.1 | 2.4 | 2.7 | 1.9 | 2.0 | 2.1 | 1.7 | 1.4 | 2.7 | 1.4 | 1.9 | 2.2 | 2.0 | 1.2 | 1.5 | 1.5 | 1.6 | 5.6 | 2.38 | 6.83 |
| 18-Jan | 3.6 | 2.3 | 4.5 | 3.9 | 2.5 | 1.4 | 3.7 | 3.6 | 3.9 | 1.9 | 1.4 | 2.8 | 2.5 | 2.0 | 4.6 | 4.0 | 3.3 | 3.3 | 4.0 | 1.5 | 1.9 | 2.1 | 1.4 | 2.0 | 2.84 | 4.59 |
| 19-Jan | 2.7 | 1.4 | 1.5 | 2.0 | 1.8 | 2.1 | 2.4 | 2.0 | 1.6 | 1.5 | 2.1 | 2.1 | 2.9 | 3.6 | 2.4 | 2.3 | 1.7 | 3.0 | 1.6 | 2.3 | 2.2 | 2.4 | 1.5 | 1.6 | 2.11 | 3.56 |
| 20-Jan | 1.7 | 1.1 | 1.1 | 2.2 | 1.9 | 1.7 | 1.3 | 2.5 | 1.6 | 2.3 | 1.6 | 1.6 | 1.3 | 1.3 | 1.4 | 1.4 | 0.2 | 1.3 | 1.0 | 1.9 | 2.4 | 1.0 | 1.0 | 0.9 | 1.48 | 2.50 |
| 21-Jan | 1.5 | 1.9 | 2.3 | 1.4 | 2.0 | 1.2 | 1.6 | 2.5 | 1.9 | 2.2 | 2.5 | 2.9 | 3.1 | 3.0 | 3.4 | 3.4 | 2.8 | 2.6 | 2.8 | 2.2 | 2.0 | 2.4 | 1.9 | 1.8 | 2.30 | 3.44 |
| 22-Jan | 2.5 | 1.5 | 1.8 | 1.7 | 2.0 | 3.9 | 4.1 | 2.5 | 4.2 | 1.9 | 3.0 | 2.1 | 3.0 | 2.5 | 2.9 | 2.9 | 2.7 | 1.7 | 2.3 | 2.0 | 1.5 | 0.7 | 1.5 | 1.7 | 2.35 | 4.17 |
| 23-Jan | 1.6 | 1.3 | 0.9 | 2.2 | 3.4 | 4.5 | 1.7 | 2.1 | 2.2 | 1.8 | 2.3 | 2.8 | 2.0 | 1.6 | 1.2 | 1.2 | 1.1 | 1.6 | 2.0 | 3.1 | 1.7 | 2.2 | 1.9 | 2.5 | 2.04 | 4.49 |
| 24-Jan | 2.5 | 2.7 | 2.4 | 1.9 | 1.1 | 1.4 | 1.6 | 1.6 | 2.2 | 1.9 | 1.3 | 2.5 | 2.0 | 1.2 | 1.9 | 2.5 | 2.6 | 2.3 | 2.9 | 2.4 | 2.9 | 2.6 | 2.6 | 2.5 | 2.14 | 2.91 |
| 25-Jan | 2.2 | 2.6 | 2.6 | 1.6 | 1.5 | 1.3 | 1.5 | 1.2 | 1.5 | 1.4 | 1.6 | 1.6 | 2.2 | 2.8 | 2.7 | 2.2 | 3.2 | 3.8 | 3.3 | 2.7 | 3.1 | 3.2 | 3.8 | 3.5 | 2.38 | 3.81 |
| 26-Jan | 3.5 | 4.3 | 5.4 | 4.0 | 3.5 | 4.5 | 4.0 | 3.7 | 3.9 | 3.9 | 3.7 | 4.2 | 4.0 | 4.2 | 4.0 | 4.0 | 4.0 | 3.5 | 2.2 | 2.1 | 2.3 | 2.3 | 2.5 | 1.8 | 3.58 | 5.45 |
| 27-Jan | 2.0 | 1.3 | 0.7 | 0.8 | 3.1 | 2.3 | 1.0 | 2.4 | 1.4 | 1.2 | 2.3 | 1.7 | 1.7 | 2.2 | 2.4 | 2.3 | 2.0 | 2.4 | 1.7 | 1.4 | 1.5 | 1.8 | 2.0 | 2.0 | 1.81 | 3.10 |
| 28-Jan | 2.3 | 1.3 | 2.2 | 2.0 | 2.0 | 1.7 | 1.4 | 0.6 | 0.6 | 1.7 | 1.0 | 1.8 | 1.7 | 2.0 | 2.2 | 2.4 | 2.5 | 2.4 | 2.4 | 2.8 | 3.1 | 3.1 | 3.0 | 2.8 | 2.04 | 3.08 |
| 29-Jan | 2.5 | 2.4 | 2.7 | 2.4 | 2.8 | 2.4 | 2.4 | 2.4 | 2.8 | 2.7 | 2.3 | 2.0 | 2.2 | 2.4 | 2.2 | 2.9 | 3.1 | 2.2 | 2.6 | 2.8 | 2.8 | 2.7 | 1.9 | 15.8 | 3.05 | 15.85 |
| 30-Jan | 5.2 | 6.2 | 3.1 | 4.0 | 4.4 | 5.3 | 3.9 | 3.4 | 5.4 | 2.7 | 3.0 | 2.7 | 1.7 | 1.5 | 1.9 | 1.9 | 1.8 | 2.3 | 2.2 | 1.5 | 1.9 | 2.3 | 3.7 | 3.6 | 3.15 | 6.20 |
| 31-Jan | 2.9 | 2.8 | 2.9 | 3.7 | 1.8 | 1.3 | 1.5 | 1.6 | 1.1 | 1.8 | 1.7 | 1.7 | 1.6 | 1.1 | 1.4 | 1.3 | 1.1 | 1.1 | 0.9 | 0.9 | 1.5 | 1.9 | 1.3 | 1.4 | 1.68 | 3.72 |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | |
| | | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | |



WCAS - Genesee
Summary of Hourly Standard Deviations

Wind Direction (WD) - deg
January 2018

| Maximum Value: 92.82 deg on Jan 18 03:00 Maximum Daily Average: 33.91 deg on Jan 5 | | | | | | | | | | | | | | | | | | | | | | | Hours in Service: 744 | | | |
|--|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|---------------|---------------|
| Minimum Value: 2.6 deg on Jan 23 08:00 Minimum Daily Average: 7.68 deg on Jan 26 | | | | | | | | | | | | | | | | | | | | | | | Hours of Data: 744 | | | |
| Maximum Diurnal Average: 21.25 deg at hour 14 Minimum Diurnal Average: 12.28 deg at hour 1 | | | | | | | | | | | | | | | | | | | | | | | Hours of Missing Data: 0 | | | |
| Monthly Average: 16.713 deg Percentiles: P₁ = 3.5 P₁₀ = 6.5 Q₁ = 8.7 Median = 11.7 Q₃ = 18.1 P₉₀ = 38.0 P₉₉ = 73.7 | | | | | | | | | | | | | | | | | | | | | | | Hours of Calibration: 0 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | Percent Operational Time: 100.0 | | | |
| Day | Hourly Period Ending At | | | | | | | | | | | | | | | | | | | | | | | | Daily Average | Daily Maximum |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | | |
| 1-Jan | 7.0 | 9.9 | 10.1 | 6.3 | 24.2 | 12.3 | 14.8 | 41.3 | 65.9 | 33.1 | 57.1 | 56.0 | 53.8 | 32.2 | 8.5 | 20.5 | 6.6 | 6.0 | 8.3 | 7.2 | 49.1 | 16.2 | 12.9 | 8.8 | 23.67 | 65.88 |
| 2-Jan | 13.3 | 9.7 | 9.3 | 7.6 | 12.5 | 12.4 | 9.3 | 9.6 | 8.8 | 8.0 | 4.7 | 6.0 | 8.0 | 11.0 | 7.5 | 6.2 | 46.4 | 6.4 | 4.7 | 5.8 | 8.8 | 3.2 | 5.3 | 3.1 | 9.49 | 46.43 |
| 3-Jan | 3.5 | 3.3 | 6.6 | 12.1 | 14.9 | 30.3 | 10.7 | 12.5 | 15.9 | 15.8 | 9.2 | 15.8 | 13.0 | 11.9 | 5.3 | 11.3 | 6.0 | 6.9 | 4.4 | 5.8 | 4.3 | 12.1 | 3.6 | 4.7 | 9.99 | 30.28 |
| 4-Jan | 8.9 | 12.7 | 24.9 | 6.4 | 6.0 | 19.1 | 3.2 | 4.5 | 7.0 | 8.7 | 53.4 | 38.5 | 8.8 | 67.9 | 14.9 | 26.0 | 12.8 | 34.0 | 13.3 | 18.8 | 45.9 | 19.4 | 11.6 | 54.4 | 21.71 | 67.88 |
| 5-Jan | 35.0 | 24.5 | 15.6 | 30.3 | 23.5 | 32.4 | 30.9 | 23.6 | 29.7 | 72.2 | 38.2 | 23.0 | 40.4 | 27.0 | 24.8 | 12.1 | 14.5 | 22.0 | 64.5 | 41.8 | 44.2 | 20.4 | 70.7 | 52.4 | 33.91 | 72.21 |
| 6-Jan | 25.2 | 78.8 | 27.8 | 43.2 | 42.6 | 7.9 | 11.6 | 14.0 | 6.5 | 6.6 | 11.2 | 18.8 | 10.4 | 15.6 | 11.8 | 7.9 | 6.4 | 18.3 | 12.6 | 9.0 | 4.7 | 12.0 | 6.7 | 9.5 | 17.47 | 78.85 |
| 7-Jan | 4.8 | 7.1 | 6.4 | 8.6 | 8.8 | 8.7 | 10.2 | 9.2 | 9.4 | 7.1 | 6.9 | 9.9 | 10.9 | 21.6 | 13.1 | 10.1 | 8.4 | 7.5 | 4.5 | 10.1 | 15.7 | 6.2 | 8.4 | 13.5 | 9.46 | 21.61 |
| 8-Jan | 11.7 | 10.8 | 12.6 | 6.0 | 10.3 | 16.1 | 11.1 | 31.6 | 13.9 | 8.4 | 45.3 | 32.5 | 43.5 | 26.2 | 16.7 | 53.0 | 18.9 | 59.1 | 44.3 | 9.8 | 9.0 | 9.0 | 8.9 | 10.6 | 21.63 | 59.10 |
| 9-Jan | 8.7 | 9.4 | 9.8 | 16.0 | 17.7 | 15.5 | 8.9 | 13.2 | 11.8 | 8.3 | 7.8 | 8.9 | 8.8 | 9.6 | 8.4 | 7.4 | 7.5 | 7.7 | 7.2 | 8.7 | 7.6 | 8.1 | 7.8 | 6.5 | 9.64 | 17.67 |
| 10-Jan | 7.3 | 8.5 | 7.8 | 7.5 | 10.6 | 9.5 | 11.4 | 9.0 | 10.7 | 8.0 | 12.5 | 9.4 | 14.7 | 14.5 | 14.9 | 7.4 | 11.8 | 25.5 | 14.1 | 13.9 | 10.4 | 12.8 | 43.9 | 8.9 | 12.72 | 43.88 |
| 11-Jan | 10.5 | 15.7 | 54.2 | 21.7 | 12.4 | 19.4 | 9.0 | 4.6 | 12.3 | 8.0 | 11.3 | 17.4 | 11.4 | 10.2 | 8.7 | 10.6 | 10.6 | 7.5 | 8.2 | 6.3 | 10.4 | 11.0 | 6.2 | 20.3 | 13.25 | 54.23 |
| 12-Jan | 16.7 | 2.9 | 5.2 | 5.3 | 36.2 | 6.6 | 6.5 | 9.6 | 5.1 | 23.7 | 16.7 | 23.4 | 23.6 | 11.7 | 9.3 | 13.2 | 11.9 | 10.6 | 9.8 | 12.7 | 24.0 | 18.9 | 13.2 | 18.1 | 13.95 | 36.16 |
| 13-Jan | 21.9 | 19.9 | 12.0 | 19.7 | 47.6 | 27.3 | 8.8 | 6.7 | 5.5 | 5.4 | 6.0 | 5.7 | 11.2 | 20.4 | 8.5 | 9.8 | 8.1 | 7.9 | 7.2 | 9.4 | 10.1 | 7.0 | 11.6 | 8.5 | 12.76 | 47.59 |
| 14-Jan | 9.1 | 11.4 | 7.0 | 41.8 | 7.6 | 10.3 | 13.4 | 16.8 | 11.2 | 10.3 | 12.4 | 14.3 | 13.4 | 13.9 | 15.1 | 14.8 | 9.9 | 9.4 | 14.0 | 7.8 | 6.6 | 7.7 | 8.0 | 11.8 | 12.42 | 41.79 |
| 15-Jan | 7.6 | 8.3 | 6.2 | 6.5 | 8.1 | 10.2 | 10.3 | 9.6 | 11.4 | 16.8 | 12.2 | 6.3 | 6.8 | 7.9 | 9.1 | 8.6 | 8.5 | 7.7 | 12.3 | 13.5 | 14.9 | 9.2 | 5.6 | 12.3 | 9.59 | 16.84 |
| 16-Jan | 15.5 | 10.8 | 36.5 | 11.7 | 8.7 | 32.8 | 10.8 | 41.7 | 14.4 | 10.4 | 16.6 | 23.7 | 13.8 | 23.1 | 37.0 | 41.9 | 79.0 | 40.2 | 51.7 | 48.6 | 46.2 | 9.8 | 8.1 | 10.3 | 26.81 | 79.03 |
| 17-Jan | 10.2 | 13.6 | 17.2 | 11.3 | 8.8 | 4.5 | 8.1 | 9.8 | 5.2 | 6.4 | 5.9 | 5.9 | 11.7 | 34.6 | 15.9 | 11.9 | 8.9 | 16.2 | 11.5 | 14.1 | 10.9 | 16.0 | 15.6 | 28.8 | 12.62 | 34.63 |
| 18-Jan | 15.1 | 8.1 | 92.8 | 36.2 | 8.7 | 7.6 | 20.3 | 43.5 | 36.2 | 30.1 | 23.7 | 30.1 | 74.6 | 45.0 | 27.1 | 23.3 | 14.8 | 10.5 | 10.8 | 11.9 | 11.2 | 21.7 | 8.3 | 5.2 | 25.71 | 92.82 |
| 19-Jan | 8.6 | 15.4 | 4.1 | 8.8 | 8.7 | 9.1 | 6.8 | 12.6 | 4.6 | 6.7 | 12.2 | 8.2 | 9.4 | 11.1 | 9.2 | 6.3 | 12.1 | 12.7 | 11.5 | 7.8 | 9.7 | 13.8 | 9.3 | 8.6 | 9.46 | 15.36 |
| 20-Jan | 17.9 | 4.5 | 6.1 | 7.0 | 41.2 | 40.9 | 30.2 | 48.6 | 58.1 | 23.8 | 52.7 | 47.5 | 19.1 | 17.6 | 44.0 | 44.4 | 61.9 | 27.9 | 29.3 | 44.8 | 33.2 | 8.9 | 40.9 | 17.2 | 31.98 | 61.86 |
| 21-Jan | 11.1 | 61.0 | 75.6 | 14.9 | 55.9 | 28.4 | 38.1 | 14.2 | 16.9 | 11.2 | 10.9 | 13.1 | 12.2 | 11.7 | 12.2 | 11.8 | 11.3 | 10.5 | 12.2 | 11.4 | 10.1 | 18.7 | 46.2 | 10.5 | 22.08 | 75.63 |
| 22-Jan | 13.2 | 16.3 | 17.3 | 29.7 | 21.8 | 17.6 | 12.0 | 9.6 | 14.7 | 20.2 | 28.3 | 45.3 | 18.4 | 27.7 | 16.8 | 13.8 | 15.5 | 11.2 | 14.0 | 7.1 | 9.5 | 3.5 | 5.7 | 5.2 | 16.44 | 45.25 |
| 23-Jan | 4.8 | 3.5 | 4.3 | 9.2 | 65.7 | 38.7 | 6.1 | 2.6 | 6.1 | 6.9 | 5.6 | 6.9 | 38.3 | 18.3 | 15.1 | 19.0 | 13.6 | 12.4 | 9.0 | 12.1 | 12.8 | 19.6 | 7.2 | 12.4 | 14.59 | 65.71 |
| 24-Jan | 10.9 | 9.7 | 8.2 | 11.6 | 12.0 | 19.5 | 41.9 | 13.7 | 90.8 | 36.6 | 11.8 | 26.5 | 50.5 | 19.5 | 18.1 | 19.2 | 14.6 | 13.0 | 15.1 | 13.6 | 12.9 | 11.9 | 10.6 | 13.8 | 21.08 | 90.81 |
| 25-Jan | 15.5 | 11.0 | 13.5 | 14.3 | 20.8 | 16.8 | 11.5 | 12.9 | 13.4 | 20.2 | 12.7 | 15.1 | 20.6 | 15.4 | 13.0 | 9.7 | 10.1 | 9.2 | 8.0 | 7.5 | 10.4 | 10.5 | 11.1 | 10.1 | 13.05 | 20.76 |
| 26-Jan | 8.3 | 10.0 | 10.7 | 6.9 | 7.1 | 8.6 | 7.5 | 6.8 | 7.7 | 7.8 | 7.6 | 7.7 | 6.3 | 7.1 | 7.2 | 6.5 | 6.6 | 7.4 | 6.3 | 8.0 | 7.9 | 8.3 | 8.2 | 7.8 | 7.68 | 10.65 |
| 27-Jan | 10.7 | 8.8 | 8.9 | 8.0 | 19.7 | 30.7 | 9.5 | 45.2 | 21.9 | 79.7 | 41.1 | 15.3 | 13.6 | 19.5 | 13.1 | 11.2 | 10.8 | 12.2 | 14.0 | 14.1 | 10.8 | 11.6 | 8.7 | 8.1 | 18.64 | 79.69 |
| 28-Jan | 10.4 | 6.2 | 7.3 | 7.3 | 8.8 | 12.6 | 12.7 | 8.9 | 16.9 | 63.0 | 29.8 | 25.2 | 16.2 | 16.5 | 13.7 | 14.2 | 14.2 | 10.1 | 10.8 | 10.3 | 9.9 | 9.1 | 9.1 | 9.5 | 14.69 | 63.01 |
| 29-Jan | 8.7 | 9.9 | 10.4 | 9.1 | 9.0 | 10.3 | 9.6 | 9.6 | 10.5 | 15.4 | 16.3 | 12.4 | 9.8 | 12.7 | 11.1 | 11.9 | 13.4 | 11.7 | 13.2 | 21.1 | 21.7 | 27.2 | 25.0 | 71.6 | 15.89 | 71.60 |
| 30-Jan | 11.3 | 9.9 | 15.3 | 10.2 | 7.5 | 6.1 | 9.3 | 13.6 | 41.3 | 22.2 | 14.8 | 12.9 | 10.3 | 10.8 | 18.2 | 8.9 | 30.3 | 18.7 | 10.6 | 14.1 | 23.4 | 16.8 | 12.8 | 18.5 | 15.33 | 41.33 |
| 31-Jan | 17.1 | 13.1 | 16.1 | 15.9 | 12.6 | 9.2 | 13.3 | 15.1 | 15.1 | 15.9 | 26.8 | 28.7 | 40.7 | 66.5 | 18.2 | 72.0 | 18.2 | 11.6 | 12.1 | 9.8 | 9.0 | 11.3 | 10.5 | 10.5 | 20.39 | 71.97 |
| | | | | | | | | | | | | | | | | | | | | | | | Diurnal Average | | | |
| | | | | | | | | | | | | | | | | | | | | | | | Diurnal Maximum | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |

WEST CENTRAL AIRSHED SOCIETY

**CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT**

**END OF REPORT
JANUARY 2018**