

# 2017 (January-June) Monitoring Results



## Air Quality Health Index (AQHI) Ratings

The AQHI describes the level of health risk associated with an AQHI number. The levels are low, moderate, high or very high. The higher the index number, the greater the health risks. Go to [our website's AQHI page](#) for more information. Five of FAP's nine continuous air monitoring stations monitor substances whereby AQHI can be calculated.

Station Name	Hours Monitored	Risk Level (% of time in each)			
		Low	Moderate	High	Very High
Bruderheim	4124	99.34%	0.62%	0.05%	0.00%
Elk Island	4065	98.13%	1.85%	0.02%	0.00%
Fort Saskatchewan	3922	93.32%	6.63%	0.05%	0.00%
Gibbons	4223	96.26%	3.72%	0.02%	0.00%
Lamont County	4227	99.53%	0.43%	0.05%	0.00%

## Hours with a High or Very High Risk AQHI Rating

This table shows the number of hours of high or very high AQHI rating during the first six months of 2017, when they occurred and the likely cause.

Fort Air Partnership Continuous Air Quality Monitoring Station												
Event Dates	Bruderheim		Elk Island		Fort Sask.		Lamont County		Gibbons		Total Hours	Event Cause
	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk	High Risk	Very High Risk		
Jan 2	2	-	-	-	-	-	2	-	-	-	4	Wintertime inversion
Jan 25	-	-	-	-	1	-	-	-	-	-	1	Wintertime inversion
Mar 29	-	-	-	-	1	-	-	-	-	-	1	Wintertime inversion
May 21	-	-	1	-	-	-	-	-	-	-	1	Campfire smoke
June 3	-	-	-	-	-	-	-	-	1	-	1	Undetermined
<b>Total Hours</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>8</b>	

## Summary of Exceedances

Air quality measurements are compared hourly to the [Alberta Ambient Air Quality Objectives](#) (AAAQO). Any exceedance of an AAAQO is reported to the Alberta Government and the cause of the exceedance investigated.

One Hour Exceedances			
Parameter	Exceedances	Dates	Attributed Cause
Respirable Particulate PM <sub>2.5</sub>	8	January 2, 25 March 29	Regional effects from wintertime inversion
	1	May 21	Campfire smoke
	1	June 3	Unknown source. Likely localized.
Sulphur Dioxide SO <sub>2</sub>	2	February 9 March 1	Local industry
	26	April 5,9,17,18,23,24,26,27 May 5,10,11,29	Local industry

24 Hour Exceedances			
Parameter	Exceedances	Dates	Attributed Cause
Sulphur Dioxide SO <sub>2</sub>	2	January 2, 25	Regional effects from wintertime inversion
	9	April 5, 13, 17, 18, 22, 23, 24, 27 May 11	Local industry