

2021 Q1 (January-March) Air Quality Monitoring Results



Air Quality Health Index (AQHI) Ratings

The AQHI is calculated by the Government of Alberta using data collected at FAP air monitoring stations. The AQHI is a measure of air quality as it pertains to human health. AQHI levels are rated as low, moderate, high or very high risk. Risk to health increases as the index level rises. Go to [the FAP website's AQHI page](#) for more information. Seven of FAP's 10 continuous air monitoring stations monitor substances that enable the calculation of the AQHI.

FAP – 2021 Q1		Risk Level (% of time in each)			
Station Name	Hours Monitored	Low	Moderate	High	Very High
Bruderheim	2,003	96.06%	3.94%	-	-
Elk Island	1,999	98.80%	1.20%	-	-
Fort Saskatchewan	1,951	89.85%	10.15%	-	-
Gibbons	2,003	89.87%	10.13%	-	-
Lamont County	2,014	98.11%	1.89%	-	-
Redwater	1,818	97.96%	1.98%	0.06%	-
Sturgeon County	1,751	97.72%	2.28%	-	-
Total hours	13,539	12,920	618	1	-

Hours with a High or Very High Risk AQHI Rating

FAP Continuous Air Quality Monitoring Station																	
Event Dates	Bruderheim		Elk Island		Fort Sask.		Gibbons		Lamont County		Redwater		Sturgeon County		Total Hours	Attributed 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	High Risk	Very High Risk	High Risk	Very High Risk			
Jan. 29	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	Wintertime inversion
Total Hours	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	

Summary of Exceedances

Air quality measurements are compared continuously to both 1 and 24-hour [Alberta Ambient Air Quality Objectives](#) (AAAQO). Any exceedance of an AAAQO is reported to the Alberta Government and the likely cause of the exceedance investigated. The following table details what substances exceeded an AAAQO, when they occurred and if it can be determined, the likely cause.

One Hour Exceedances			
Parameter	Exceedances	Date	Attributed Cause
Fine Particulate (PM _{2.5})	1	January 29	Wintertime inversion

24-Hour Exceedances			
Parameter	Exceedances	Date	Attributed Cause
Fine Particulate (PM _{2.5})	2	January 29	Wintertime inversion
	2	January 30	