

2020 Q4 (October-December) 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 low, moderate, high or very high. Risk to health increases as the index level rises. Go to [our website's AQHI page](#) for more information. Seven of FAP's 10 continuous air monitoring stations monitor substances whereby the AQHI can be calculated.

FAP – 2020 Q4		AQHI Risk Level (% of time in each)			
Station Name	Hours Monitored	Low	Moderate	High	Very High
Bruderheim	2065	97.19%	2.81%		
Elk Island	2058	99.08%	0.92%	-	-
Fort Saskatchewan	2006	93.97%	6.03%	-	-
Gibbons	2091	93.30%	6.70%	-	-
Lamont County	2067	98.60%	1.40%	-	-
Redwater	2016	99.01%	0.99%	-	-
Sturgeon County	2075	98.46%	1.45%	0.10%	-
Total hours	14,378	13,959	417	2	-

Hours with a High or Very High Risk AQHI Rating

During Q4 of 2020, there were no very high risk ratings and only two hours of an AQHI high risk rating (at our Sturgeon County station).

Summary of Exceedances

Air quality measurements are compared continuously to both 1 hour 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. There were no exceedances of 24-hour objectives in Q4 of 2020.

One Hour Exceedances – 2020 Q4			
Parameter	Exceedances	Date	Attributed Cause
Fine Particulate (PM _{2.5})	2	December 27	Regional conditions