

## Outdoor Air Quality, Kitchener, Guelph & London, 2012, 2013, & 2014

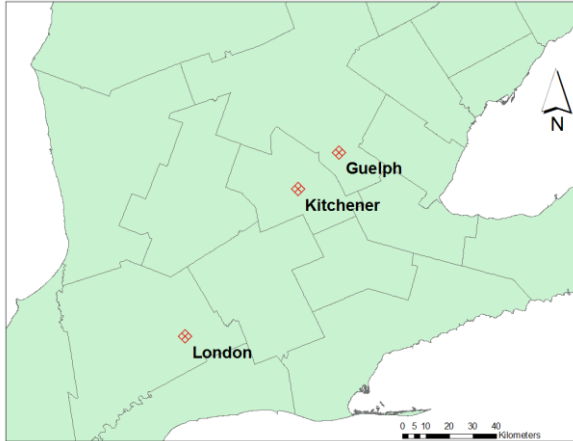


Table 1. Number of poor Air Quality Index (AQI) days for the Ontario Ministry of Environment – Kitchener, Guelph & London monitoring sites, 2012-2014

Monitoring Site	Number of Poor AQI Days		
	2012	2013	2014
Ontario Ministry of the Environment - Kitchener Site	1	1	0
Ontario Ministry of the Environment - Guelph Site	4	0	0
Ontario Ministry of the Environment - London Site	5	0	0

**Table 2. Average annual Air Quality Index (AQI) Range, Category and Colour classification for the Ontario Ministry of Environment – Kitchener, Guelph & London monitoring sites, 2012-2014**

Monitoring Site	Average Annual AQI					
	2012		2013		2014	
	Range	Category	Range	Category	Range	Category
<b>Ontario Ministry of the Environment - Kitchener Site</b>	16-31	Good	16-31	Good	16-31	Good
<b>Ontario Ministry of the Environment - Guelph Site</b>	16-31	Good	16-31	Good	16-31	Good
<b>Ontario Ministry of the Environment - London Site</b>	16-31	Good	16-31	Good	16-31	Good

## Definition:






The Air Quality Index (AQI) is an indicator of air quality, based on the concentration of air pollutants that have adverse effects on human health and the environment. The pollutants are ozone, fine particulate matter, nitrogen dioxide, carbon monoxide, sulphur dioxide and total reduced sulphur compounds.

The AQI is a relative scale or index, in that, the lower the index, the better the air quality. AQI category values are listed to the right.

For a detailed explanation of how the AQI is calculated, go to:

[http://www.airqualityontario.com/press/faq.php#aqi\\_calc](http://www.airqualityontario.com/press/faq.php#aqi_calc)

## Air Quality Index (AQI) Categories

AQI	Colour
0-15 Very Good	
16-31 Good	
32-49 Moderate	
50-99 Poor	
100+ Very Poor	

## Limitations and Notes:

The 'Average Annual AQI' value for the Monitoring Site is calculated by adding the daily AQI readings in a calendar year together and dividing by 365 days. This value represents the average annual AQI reading for the Monitoring Site.

The Ontario Ministry of the Environment - Kitchener Monitoring Site is located at the corner of West Avenue and Homewood Avenue in Kitchener, Ontario. The Ontario Ministry of the Environment - Guelph Monitoring Site is located at the corner of Exhibition Street and Clark Street West in Guelph, Ontario. The Ontario Ministry of the Environment - London Monitoring Site is located at 42 St. Julien Street in London, Ontario.

'Poor air quality index days' means that the air quality index (AQI) was in the range of 50 to 99 for at least one hour of the day. In this category, air quality may have adverse effects for sensitive members of human and animal populations, and may cause significant damage to vegetation and property.

The AQI reports current or real-time air quality data from its AQI monitoring sites to produce AQI readings for each location. The AQI reading consists of the highest result of an individual air pollutant (i.e. the single worst pollutant) in a given hour.

The AQI values are reflective of air quality readings at the Ontario Ministry of Environment Monitoring Sites and may not necessarily be representative of the air quality in other parts of the regions surrounding the sites.

There is no comparable data for Ontario available at the current time.



## Source:

Air Quality Index (AQI) Historical Search – Kitchener, Guelph, London: AQI for 2012, 2013, 2014. Ontario Ministry of the Environment.  
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