



## **Air Quality Health Index: Web Widget Use Document**

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Any comments, questions, or suggestions regarding the content of this document may be directed to:

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Website: <https://www.alberta.ca/air-quality-health-index--resources.aspx>

## 1.0 Introduction

Alberta Environment and Parks (AEP) provides a widget that displays the Air Quality Health Index for single communities and can be embedded into any web page. This is intended for public use where a web page owner may want to include the Air Quality for their community (or multiple communities) for their users.

The widget can be formatted to meet the needs of the user and to best fit their web page (see Figures 1 and 2).

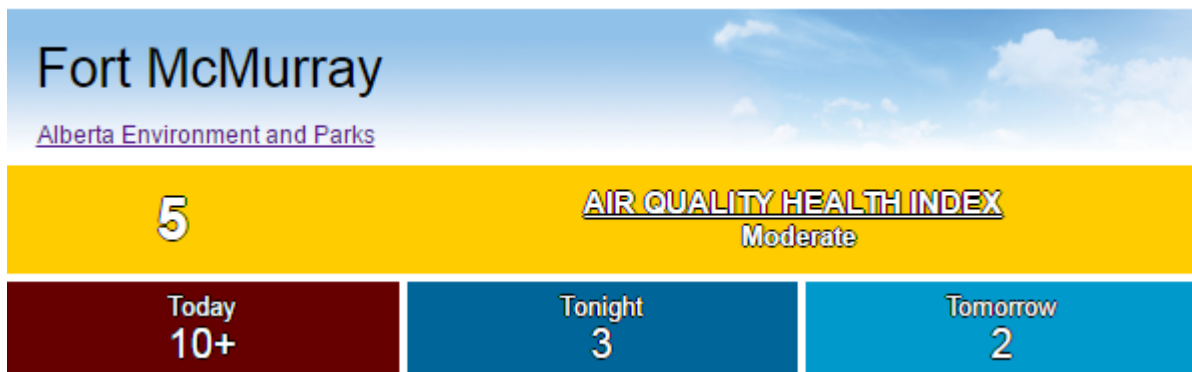


Figure 1 Fort McMurray example: Wide with forecast



Figure 2 Calgary example: Narrow with no forecast

## 2.0 Technical Details

The widget is an ASPX application that is accessed via URL and must be embedded in an <iframe> to function. It is available at:

- <http://airquality.alberta.ca/map/AQHIWidgetPage.aspx>

It must be configured to operate as desired using GET parameters within the URL. These parameters must tell the widget which community is desired, the width of the widget in pixels, and whether or not a forecast is desired.

The fully configured URL will thus be of this format:

- <http://airquality.alberta.ca/map/AQHIWidgetPage.aspx?Community=COMMUNITY&Forecast=YESORNO&Width=WIDTH>

COMMUNITY, YESORNO, and WIDTH must be replaced with the desired configuration. For example:

- <http://airquality.alberta.ca/map/AQHIWidgetPage.aspx?Community=Tomahawk&Forecast=Yes&Width=340>

## 2.1 Community

There are currently 33 compatible communities in Alberta that can be used with the widget:

- Airdrie
- Bruderheim
- Cold Lake
- Edmonton
- Fort Chipewyan
- Fort McMurray
- Gibbons
- Janvier
- Medicine Hat
- St. Albert
- Stony Mountain
- Anzac
- Calgary
- Conklin
- Edson
- Fort McKay
- Fort Saskatchewan
- Grande Prairie
- Lamont County
- Red Deer
- St. Lina
- Strathcona County
- Beaverlodge
- Caroline
- Drayton Valley
- Elk Island
- Fort McKay South
- Genesee
- Hinton
- Lethbridge
- Redwater
- Steeper
- Tomahawk

This list may grow over time and any community that currently appears on the AEP AQHI web page should also be available on the widget.

- <http://airquality.alberta.ca/map/>

### Note:

1. These are not case sensitive but whatever case is used in the URL will appear on the widget. (If you use lower case it will appear as lower case on your web page).
2. Spaces in community names should work with normal spaces but it is standard to replace a “space” with “%20” in URLs.

## 2.2 Forecast

If a forecast is desired the YESORNO field in the URL should be replaced with “yes” or “true”. If not it should be replaced with “no” or “false”.

### Note:

1. Not all communities have a forecast. Currently Caroline, Conklin, Edson, Hinton, Janvier, Steeper, and Stony Mountain will not have a forecast available.
2. Including the forecast will make the widget taller by adding a third row; this must be compensated for in the web page design and <iframe>.

## 2.3 Width

The width parameter allows the user to determine how wide the widget will appear in pixels.

### Note:

1. The minimum width that can be used should be around 340 pixels to avoid word wrapping although widths as low as 260 can be used if the user is willing to accept wrapping.  
NOTE: If word wrapping occurs the optimal height changes as well.
2. The maximum width is 640 pixels.
3. The <iframe> containing the widget must be set to match the widget plus a few pixels (6 is best). "Iframes" can be tricky to work with so this may require some experimentation and cross browser testing.
4. The font sizes will automatically adjust to match the width of the widget.

## 2.4 iframe

Since the widget is accessed via URL it must be embedded in an <iframe>.

### Example:

```
<iframe style="width:346px;height:197px; padding:0px;border:black 1px solid;" scrolling="no"
src="http://airquality.alberta.ca/map/AQHIWidgetPage.aspx?Community=Tomahawk&Width=34
0&Forecast=true">
```

```
</iframe>
```



**Figure 3** Tomahawk example: Widget in an `<iframe>`

**Note:**

1. The `<iframe>` width should be set to no more than 40 pixels wider than the widget; this will avoid a text wrapping issue at certain widget widths. In testing, setting the `<iframe>` width to 6 pixels greater than the widget width was the best option.
2. The `<iframe>` height should be set differently depending on whether or not the forecast is included. With no forecast the ideal `<iframe>` height is 143 pixels, with the forecast included the ideal `<iframe>` height is 196 or 197 pixels.

## Appendix A Widget Example 1

Community = Edmonton, widget width = 340 pixels, forecast = true, <iframe> with border.

### Code snippet:

```
<iframe style="width:346px;height:197px; padding:0px;border:black 1px solid;" scrolling="no"
src="http://airquality.alberta.ca/map/AQHIWidgetPage.aspx?Community=Edmonton&Width=340
&Forecast=true">
</iframe>
```

### Result:



Figure A-1 Edmonton, 340px, forecast on, and bordered <iframe>

## Appendix B Widget Example 2

Community = Fort McMurray, widget width = 640 pixels (max), forecast = true, <iframe> with no border.

### Code Snippet:

```
<iframe style="width:646px;height:197px; padding:0px;border:none;" scrolling="no"
src="http://airquality.alberta.ca/map/AQHIWidgetPage.aspx?Community=Fort%20McMurray&Wid
th=640&Forecast=true" >
```

</iframe>

### Result:

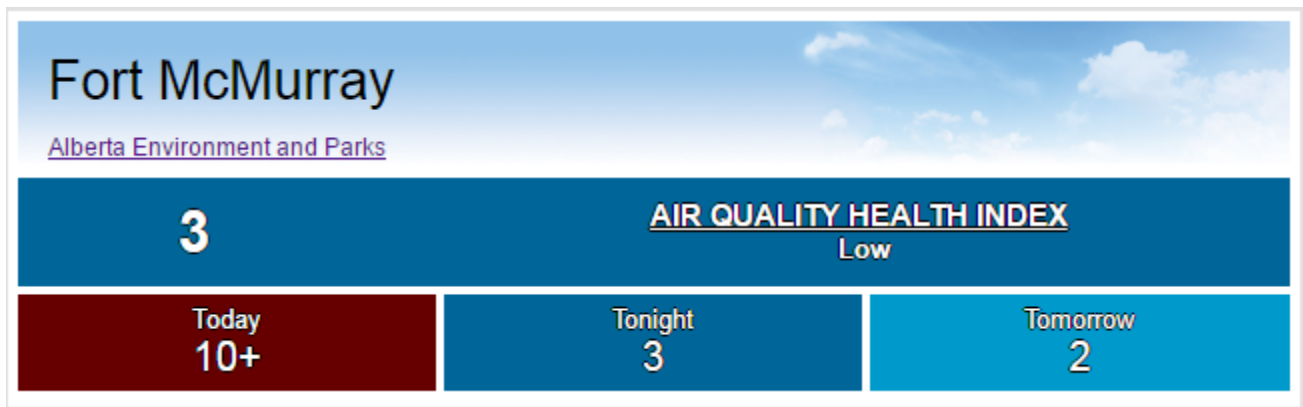


Figure B-1 Fort McMurray, 640px, forecast on, and no border <iframe>



## Appendix C Widget Example 3

Community = Calgary, widget width = 300 pixels, forecast = false, <iframe> with border and height for no forecast.

### Code Snippet:

```
<iframe style="width:306px;height:143px; padding:0px;border:black 1px solid;" scrolling="no" src="http://airquality.alberta.ca/map/AQHIWidgetPage.aspx?Community=Calgary&Width=300&Forecast=false">
```

```
</iframe>
```

### Result:



Figure C-1 Calgary, 300px, forecast off, and bordered <iframe>

## Appendix D Web Page "Skeleton" Example

### Code Snippet:

```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="X-UA-Compatible"
content="IE=edge,chrome=1">
    <title>AQHI Web Widget Test Page</title>
  </head>
  <body style="background-color:#E0E0E0;">
    <h2 style="text-align:center;">AEP Web Widget Test Page</h2>
    <h4>Red Deer AQHI</h4>
    <iframe style="width:346px;height:197px;
padding:0px;border:black 1px solid;" scrolling="no"
src="http://airquality.alberta.ca/map/AQHIWidgetPage.aspx?C
ommunity=Tomahawk&Width=340&Forecast=true">
    </iframe>

  </body>
</html>
```

### Result:



Figure D-1 Skeleton Web Page

## Appendix E Known Issues/Troubleshooting

Some browsers may experience word wrapping issues when the widget width is less than 335 pixels while others won't as low as 270 pixels.

If you are having issues with <iframe> behaviour make sure the web page has an appropriate !DOCTYPE declaration at the start. This can affect the behaviour of many HTML elements.

**Example:** `<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">`

The AQHI widget is currently served over standard HTTP only, not secure HTTPS. As a result, on modern browsers the widget will not render on HTTPS pages. In order to correct this you will have to create a proxy to serve the mixed content on your page. Unfortunately, this is not a service we can offer or provide support on.