Ellensburg Monitoring Site

Nephelometer
- Measures light scattering
- We convert to PM$_{2.5}$ concentration

Roof of Hal Holmes Center
<table>
<thead>
<tr>
<th>WA Air Quality Advisory (WAQA) Category</th>
<th>PM2.5 Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>0 to 13.4</td>
</tr>
<tr>
<td>Moderate</td>
<td>13.5 to 20.4</td>
</tr>
<tr>
<td>Unhealthy for Sensitive Groups</td>
<td>20.5 to 35.4</td>
</tr>
<tr>
<td>Unhealthy</td>
<td>35.5 to 80.4</td>
</tr>
<tr>
<td>Very Unhealthy</td>
<td>80.5 to 135.4</td>
</tr>
<tr>
<td>Hazardous</td>
<td>&gt;135.4</td>
</tr>
</tbody>
</table>

Health goal (20 µg/m³)
National standard (35 µg/m³)
Ellensburg PM2.5: Days per Year above 20ug/m^3

Year

July '07-June '08  July '08-June '09  July '09-June '10  July '10-June '11  July '11-June '12  July '12-June '13  July '13-March '14

*Unhealthy for sensitive groups
Ellensburg Median and 98th Percentile PM2.5 by Month and Year

Heating Season Median
(10/01-3/31)

Off Season Median
(4/01-9/30)

98th Percentile

PM2.5 (ug/m³)

2007  2008  2009  2010  2011  2012  2013  2014
What happens when we’re sleeping?

Ellensburg and Cle Elum Median PM$_{2.5}$ by Hour