### OSI Guidelines: AQI-Based Decision-Making Matrix for Wildfire Smoke Events

<table>
<thead>
<tr>
<th>Levels of Health Concern</th>
<th>Current Outdoor AQI Value</th>
<th>Who is Affected</th>
<th>DR-OSHA Regs.</th>
<th>Indoor workers with functioning HVAC systems</th>
<th>Outdoor Workers/Volunteers</th>
<th>Classes</th>
<th>Campus Facilities Operations</th>
<th>Athletics &amp; Outdoor Rec (NCAA or Other Campus Athletics with regulatory guidelines)</th>
<th>Outdoor Camps/Events</th>
<th>Youth Programs/Child Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good</td>
<td>0-50</td>
<td>None expected</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
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<td>No Action Anticipated</td>
</tr>
<tr>
<td>Moderate</td>
<td>51-100</td>
<td>Unusually sensitive individuals (people with lung or heart disease) may be affected</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
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<td>No Action Anticipated</td>
</tr>
<tr>
<td>Unhealthy for Sensitive Groups</td>
<td>101-150</td>
<td>Sensitive groups including people with heart or lung disease, older adults, pregnant women, and children.</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
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<td>No Action Anticipated</td>
</tr>
<tr>
<td>Unhealthy</td>
<td>151-200</td>
<td>Everyone</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
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<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
</tr>
<tr>
<td>Very Unhealthy</td>
<td>201-340</td>
<td>Everyone</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
<td>No Action Anticipated</td>
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</table>

#### Recommendations for Action:

- **Very Unhealthy AQI:**
  - Close Activity if current AQI levels have escalated in this range and are expected to continue.
  - Close Activity if local school district has closed for air quality issues.

- **Unhealthy AQI:**
  - Consider cancelation of more intense outdoor events or move events indoors.

- **Moderate AQI:**
  - Consider cancellation of all outdoor events.

- **Good AQI:**
  - Close Activity if current AQI levels have escalated in this range.

**Notes:**
- **Sensitive groups** (including pregnant women, children, and people with pre-existing health conditions) may be at risk for poor health outcomes.
- **Recommendations** to close Campus/no operations, Essential Employees allowed at Supervisor Discretion.
### OSU Guidelines: AQI-Based Decision-Making Matrix for Wildfire Smoke Events

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<thead>
<tr>
<th>Levels of Health Concern</th>
<th>Current Outdoor PM2.5 AQI Value</th>
<th>Who is Affected</th>
<th>Indoor workers with functioning HVAC system</th>
<th>Outdoor Workers/Volunteers</th>
<th>Class</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Hazardous</td>
<td>&gt; 300</td>
<td>Everyone</td>
<td>No Action</td>
<td>Suggested recommendations for the Very Unhealthy category.</td>
<td>Follow recommendations for the Very Unhealthy category.</td>
<td>Follow recommendations for the Very Unhealthy category.</td>
<td>Cancel or move indoors all outdoor athletic and recreation events/activities.</td>
<td>Consider cancellation of indoor camps that require participants or families to travel to and from campus.</td>
<td></td>
</tr>
<tr>
<td>Hazardous</td>
<td>&gt; 501</td>
<td>Everyone</td>
<td>Formal Respirator Protection Program applies (Medical clearance and fit test)</td>
<td>Follow recommendations for the Very Unhealthy category.</td>
<td>Follow recommendations for the Very Unhealthy category.</td>
<td>Follow recommendations for the Very Unhealthy category.</td>
<td>Cancel or move indoors all outdoor athletic and recreation events/activities.</td>
<td>Consider cancellation of indoor camps that require participants or families to travel to and from campus.</td>
<td></td>
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</tbody>
</table>

**Key characteristics:**

- The matrix is designed for use when wildfire smoke conditions result in worsening and unhealthy air quality. It does not apply if there is a direct threat of wildfire and/or other significant hazard to the location, or for smog-related air quality conditions. OR-OSHA rules exempt buildings, structures, and vehicles with air filtration mechanical systems. Sustained air quality readings are considered a 4-hour interval or more.
- Suggested required actions are in **bolded red text**. These are definitive actions that must take place when - but not before - the corresponding AQI threshold is met.
- Non-bolded actions are recommended for consideration and should be implemented at discretion of senior administration.
- The matrix is not a stand-alone document. It should be used in conjunction with existing response plans, protocols, and procedures including the Emergency Operations Plan, Crisis Communication Plan, and Natural Hazards Mitigation Plan.
- If building indoor air quality is measured at a level consistent with the AQI thresholds, applicable mitigation measures such as, decreasing fresh air makeup, increasing filtration efficiency of the supply air, or point of use local air filtration, should be implemented if feasible.
- Contractors working at OSU locations should follow the advice of their own employers.
- The Pre-K-12 actions apply to OSU-managed facilities only.
- The matrix incorporates actions proposed by Oregon/OSHA.
- University-sponsored outdoor events held at off-campus locations are subject to actions associated with that location’s AQI levels.
- Actions for athletic practice and competition were based on current National Collegiate Athletic Association (NCAA) guidance. Decisions regarding the cancellation and/or rescheduling of athletic competitions should be made in accordance with the NCAA. Rescheduling of athletic and recreation competitions may take place when the AQI lowers to an acceptable level.
- Locations should ensure timely communication of AQI-based decisions and expected actions via multiple and redundant communication methods.
- Higher AQI thresholds automatically incorporate all guidance and actions associated with lower AQI levels.

6/27/2022