To: Stakeholders  
From: Pinal County Air Quality  
Date: 6/27/2022

**DRAFT 2022 Pinal County PM\textsubscript{10} & PM\textsubscript{2.5} Exceedances**

### *DRAFT* Summary of 2022 24-hour Average PM\textsubscript{10} Exceedance Day(s) by Monitoring Site

<table>
<thead>
<tr>
<th>Monitoring Site - AQS # (POC))</th>
<th>Related to Wind</th>
<th>Related to Stagnation</th>
<th>Related to Combination of windy and stagnant conditions</th>
<th>Related to Transport</th>
<th>Total Exceedances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apache Junction – 04-021-3002</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Casa Grande - 04-021-3001(3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combs - 04-021-3009 (3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eloy – 04-021-3014 (1) &amp; (3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hidden Valley – 04-021-3015 (3)</td>
<td>2</td>
<td>7</td>
<td>1</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Maricopa – 04-021-3016 (3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pinal Air Park – 04-021-3007 (3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCH – 04-021-3011 (3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stanfield – 04-021-3008 (3)</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

### *DRAFT* Summary of 2022 24-hour Average PM\textsubscript{2.5} Exceedance Day(s) by Monitoring Site

<table>
<thead>
<tr>
<th>Monitoring Site - AQS # (POC))</th>
<th>Related to Wind</th>
<th>Related to Stagnation</th>
<th>Related to Combination of windy and stagnant conditions</th>
<th>Related to Transport</th>
<th>Total Exceedances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casa Grande - 04-021-3001(3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hidden Valley – 04-021-3015 (3)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To: Stakeholders  
From: Pinal County Air Quality  
Date: 6/27/2022  

*Data preliminary – subject to change *

<table>
<thead>
<tr>
<th>Date</th>
<th>Day of Week</th>
<th>Site</th>
<th>AQS #</th>
<th>PM$_{10}$ 24-hr Average Concentration (ug/m$^3$)</th>
<th>PM$_{2.5}$ 24-hr Average Concentration (ug/m$^3$)</th>
<th>Weather Type (Cold Front, Monsoon, etc.)</th>
<th>Exceedance(s) Related to Wind, Stagnation, Combo¹, Transport</th>
<th>AQI Forecast¹/ Dust Risk Forecast³</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/28/22 Fri</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>166</td>
<td>13.0</td>
<td>Pressure Gradient (Max. wind 36 mph)</td>
<td>Wind</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>4/18/22 Mon</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>163</td>
<td>23.2</td>
<td>High pressure (Max. wind 21 mph)</td>
<td>Stagnation</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>5/5/22 Thu</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>167</td>
<td>16.0</td>
<td>High pressure (Max. wind 14 mph)</td>
<td>Stagnation</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>5/13/22 Fri</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>161</td>
<td>22</td>
<td>High pressure (Max. wind 14 mph)</td>
<td>Stagnation</td>
<td>Moderate/Low</td>
<td></td>
</tr>
<tr>
<td>5/14/22 Sat</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>213</td>
<td>23.6</td>
<td>High pressure (Max. wind 18 mph)</td>
<td>Stagnation</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>5/20/22 Fri</td>
<td>Stanfield</td>
<td>04-021-3008</td>
<td>233</td>
<td>n/a</td>
<td>Trough (Max. wind 35 mph)</td>
<td>Wind</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>6/11/22 Sat</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>165</td>
<td>30.4</td>
<td>High pressure (Max. wind 23 mph)</td>
<td>Stagnation</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>6/15/22 Wed</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>185</td>
<td>33.7</td>
<td>High pressure (Max. wind 17 mph)</td>
<td>Stagnation</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>6/16/22 Thu</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>183</td>
<td>25.2</td>
<td>High pressure (Max. wind 20 mph)</td>
<td>Stagnation</td>
<td>Moderate/Moderate</td>
<td></td>
</tr>
<tr>
<td>6/21/22 Tue</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>215</td>
<td>17.6</td>
<td>A.M. stagnation, P.M. Monsoon outflows (Max. wind 38¹ mph)</td>
<td>Combo</td>
<td>USG/High</td>
<td></td>
</tr>
<tr>
<td>6/24/22 Fri</td>
<td>Hidden Valley</td>
<td>04-021-3015</td>
<td>157</td>
<td>13.3</td>
<td>Monsoon outflows (Max. wind 37 mph)</td>
<td>Wind</td>
<td>Low/Low</td>
<td></td>
</tr>
</tbody>
</table>

¹ Pinal Air Park Max wind speed
To: Stakeholders  
From: Pinal County Air Quality  
Date: 6/27/2022

**Bold text means the PM$_{10}$ and/or PM$_{2.5}$ data may be flagged as exceptional/natural event in AQS**

---

**i** Combination of stagnation and winds (i.e. light winds in the morning with elevated PM$_{10}$ levels and higher winds in afternoon/evening with elevated PM$_{10}$ levels attributed to windblown dust).

**ii** Air Quality Index (AQI) forecast issued by Pinal County Air Quality – AQI Categories (Good (G), Moderate (M), Unhealthy for Sensitive Groups (USG), Unhealthy (U), etc.). PM10 High Pollution Advisory (HPA) is for forecasted AQI levels of 101+.

**iii** 2014 Adopted legislation (HB2125) – A West Pinal County PM10 Nonattainment Area Dust Risk Forecast prepared and issued by ADEQ – Risk categories (Low (L), Moderate (M), High (H)).