2015 Annual Air Quality Report
Santa Barbara County

Board of Directors
Santa Barbara County
Air Pollution Control District

Joel Cordes
Air Monitoring/IT Supervisor
October 20, 2016

Air Quality Index
Overview

- 2015 Air Quality Report
- Summary by Pollutant
- Air Quality Trends
- Air Quality Index
Primary Pollutants

- Ozone (O3)
- Oxides of Nitrogen (NOx, NO, NO2)
- Sulfur Dioxide (SO2)
- Carbon Monoxide (CO)
- Fine Particulate Matter (PM2.5)
- Course Particulate Matter (PM10)
# Health Based Standards

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Avg Interval</th>
<th>National Standard</th>
<th>California Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>8 hour</td>
<td>0.070 ppm</td>
<td>0.070 ppm</td>
</tr>
<tr>
<td>Ozone</td>
<td>1 hour</td>
<td>none</td>
<td>0.090 ppm</td>
</tr>
<tr>
<td>PM10</td>
<td>24 hour</td>
<td>150 ug/m³</td>
<td>50 ug/m³</td>
</tr>
<tr>
<td>PM10</td>
<td>Annual</td>
<td>none</td>
<td>20 ug/m³</td>
</tr>
<tr>
<td>PM2.5</td>
<td>24 hour</td>
<td>35 ug/m³</td>
<td>none</td>
</tr>
<tr>
<td>PM2.5</td>
<td>Annual</td>
<td>12 ug/m³</td>
<td>12 ug/m³</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>1 hour</td>
<td>35 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>8 hour</td>
<td>9 ppm</td>
<td>9 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>1 hour</td>
<td>100 ppb</td>
<td>0.18 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>Annual</td>
<td>0.053 ppm</td>
<td>0.030 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>1 hour</td>
<td>75 ppb</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>24 hour</td>
<td>0.14 ppm</td>
<td>0.04 ppm</td>
</tr>
</tbody>
</table>
2015 Exceedance Days

Ozone
- 2 days over State 8 hour standard of 0.070 ppm (70 ppb).

PM10
- 15 days over State 24 hour standard of 50 ug/m3.
- Exceeded State annual mean standard of 20 ug/m3.
2015 Maximum 1-HR Carbon Monoxide by Site

- Santa Maria: CO: 2.9
- Lompoc H Street: CO: 1.6
- VAFB South Base: CO: 0.4
- LFC: CO: 0.4
- Goleta: CO: 0.9
- Santa Barbara: CO: 2.1

* Units in PPM (Parts Per Million)
Particulate Matter < 10 Microns (PM10) Trends in Santa Barbara County

Federal 24 Hour Standard (150)

State 24 Hour Standard (50)

State Annual Mean Standard (20)

PM10 2nd Max 24-hr
PM10 Annual Mean 24-hr
2015 Air Quality Index

- Good: 249 Days
- Moderate: 115 Days
- Unhealthy for Sensitive Groups: 1 Day
Contact Information

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