

# Iowa Ozone Monitoring Locations and Design Values for Ozone 2014-2016

A design value is a tool that can be used to understand pollution levels at a specific location. A design value may be set for any pollutant. The U.S. EPA's official definition is explained this way: "a design value is the mathematically determined pollutant concentration at a particular site that must be reduced to, or maintained at or below the National Ambient Air Quality Standard to assume attainment." The design value number tells us how a particular site or area compares with the National Ambient Air Quality Standards (NAAQS).

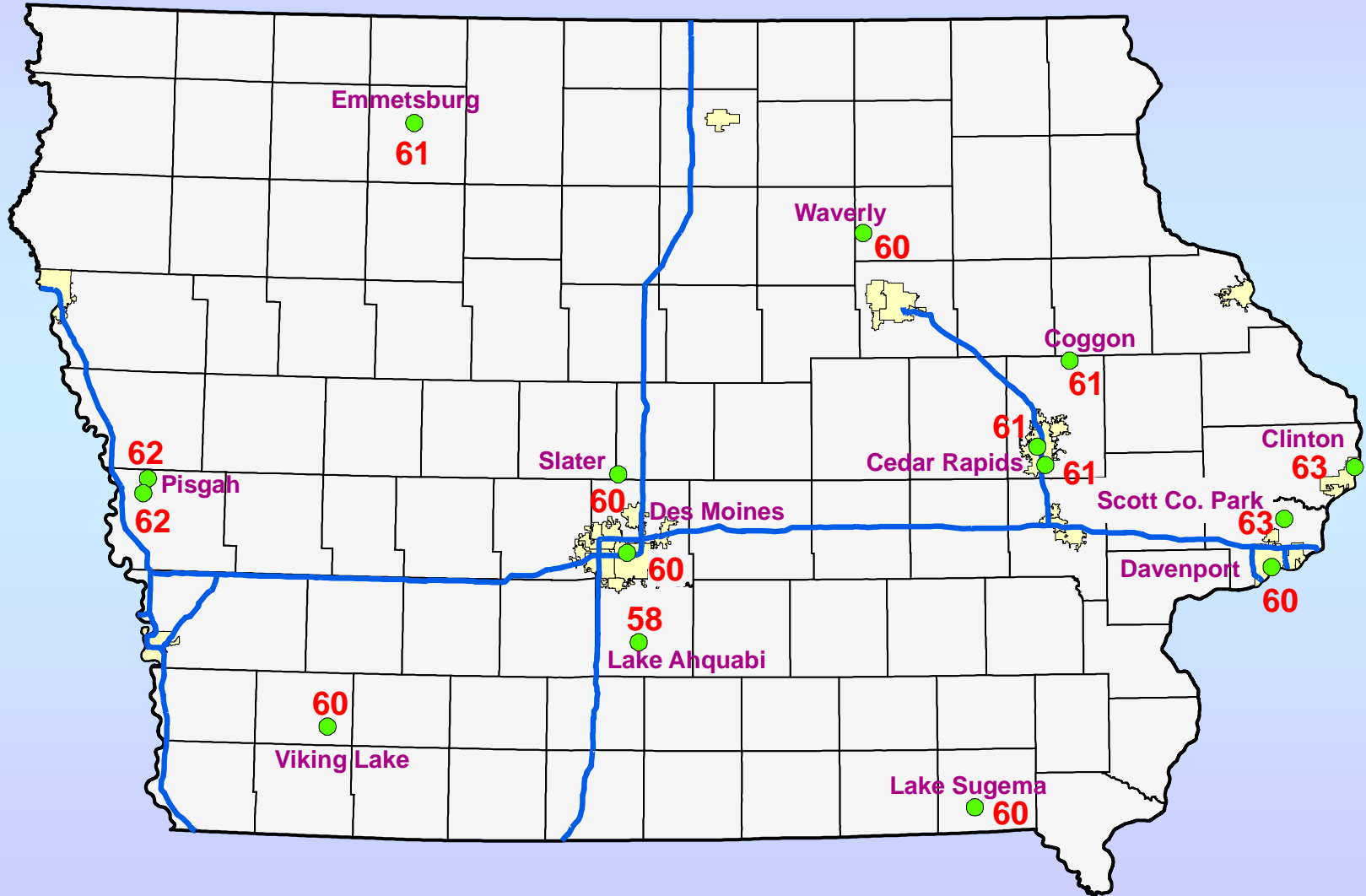
Iowa ozone monitor location and information is detailed on the following pages. The EPA design value for 8-hour ozone is equal to the average of the 4th highest annual daily maximum 8-hour value for the most recent three years. EPA promulgated new lower ozone standards on October 1, 2015. A monitoring site must have a design value less than 71 parts per billion to be considered "in attainment" with the ozone NAAQS. All monitoring sites in Iowa are in attainment with the 8-hour ozone NAAQS. Additional information on the revised ozone standard is available here: [2015 National Ambient Air Quality Standards \(NAAQS\) for Ozone](#)

## Iowa Ozone Monitors (2016)

| <b>AQS Site ID</b> | <b>Site Name</b>            | <b>Location</b> | <b>County</b> |
|--------------------|-----------------------------|-----------------|---------------|
| 19-017-0011        | Waverly, Airport            | Waverly         | Bremer        |
| 19-045-0021        | Clinton, Rainbow Park       | Clinton         | Clinton       |
| 19-085-0007        | Pisgah, Forestry Office     | Pisgah          | Harrison      |
| 19-085-1101        | Pisgah, Highway Shed        | Pisgah          | Harrison      |
| 19-113-0028        | Cedar Rapids, Kirkwood CC   | Cedar Rapids    | Linn          |
| 19-113-0033        | Coggon Elementary School    | Coggon          | Linn          |
| 19-113-0040        | Cedar Rapids, Public Health | Cedar Rapids    | Linn          |
| 19-137-0002        | Viking Lake State Park      | Red Oak         | Montgomery    |
| 19-147-1002        | Emmetsburg, Iowa Lakes CC   | Emmetsburg      | Palo Alto     |
| 19-153-0030        | Des Moines, Health Dept.    | Des Moines      | Polk          |
| 19-163-0014        | Scott County Park           | Davenport       | Scott         |
| 19-163-0015        | Davenport, Jefferson School | Davenport       | Scott         |
| 19-169-0011        | Slater, City Hall           | Slater          | Story         |
| 19-177-0006        | Lake Sugema                 | Lake Sugema     | Van Buren     |
| 19-181-0022        | Lake Ahquabi                | Indianola       | Warren        |

# Iowa Ozone Design Values: 2014-2016

Values in ppb, values greater than 70 exceed the standard



## Iowa Ozone Design Values 2016\*\*

| County     | City                     | EPA Site Id | Year | 4th Highest Daily<br>Maximum 8hr Ozone<br>Concentration (ppb) | 3-year Average<br>(ppb) of 4th<br>Highest | Years<br>Averaged |
|------------|--------------------------|-------------|------|---|---|-------------------|
| Bremer     | Waverly                  | 19-017-0011 | 2014 | 61  | 60  | 2014-2016         |
|            |                          |             | 2015 | 59  |   |                   |
|            |                          |             | 2016 | 62  |   |                   |
| Clinton    | Clinton                  | 19-045-0021 | 2014 | 65  | 63  | 2014-2016         |
|            |                          |             | 2015 | 61  |   |                   |
|            |                          |             | 2016 | 63  |   |                   |
| Harrison   | Pisgah                   | 19-085-0007 | 2014 | 63  | 62  | 2014-2016         |
|            |                          |             | 2015 | 61  |   |                   |
|            |                          |             | 2016 | 63  |   |                   |
| Harrison   | Pisgah                   | 19-085-1101 | 2014 | 62  | 62  | 2014-2016         |
|            |                          |             | 2015 | 61  |   |                   |
|            |                          |             | 2016 | 63  |   |                   |
| Linn       | Cedar Rapids             | 19-113-0028 | 2014 | 59  | 61  | 2014-2016         |
|            |                          |             | 2015 | 63  |   |                   |
|            |                          |             | 2016 | 63  |   |                   |
| Linn       | Coggon                   | 19-113-0033 | 2014 | 61  | 61  | 2014-2016         |
|            |                          |             | 2015 | 60  |   |                   |
|            |                          |             | 2016 | 63  |   |                   |
| Linn       | Cedar Rapids             | 19-113-0040 | 2014 | 59  | 61  | 2014-2016         |
|            |                          |             | 2015 | 60  |   |                   |
|            |                          |             | 2016 | 64  |   |                   |
| Montgomery | Red Oak<br>(Viking Lake) | 19-137-0002 | 2014 | 59  | 60  | 2014-2016         |
|            |                          |             | 2015 | 60  |   |                   |
|            |                          |             | 2016 | 62  |   |                   |

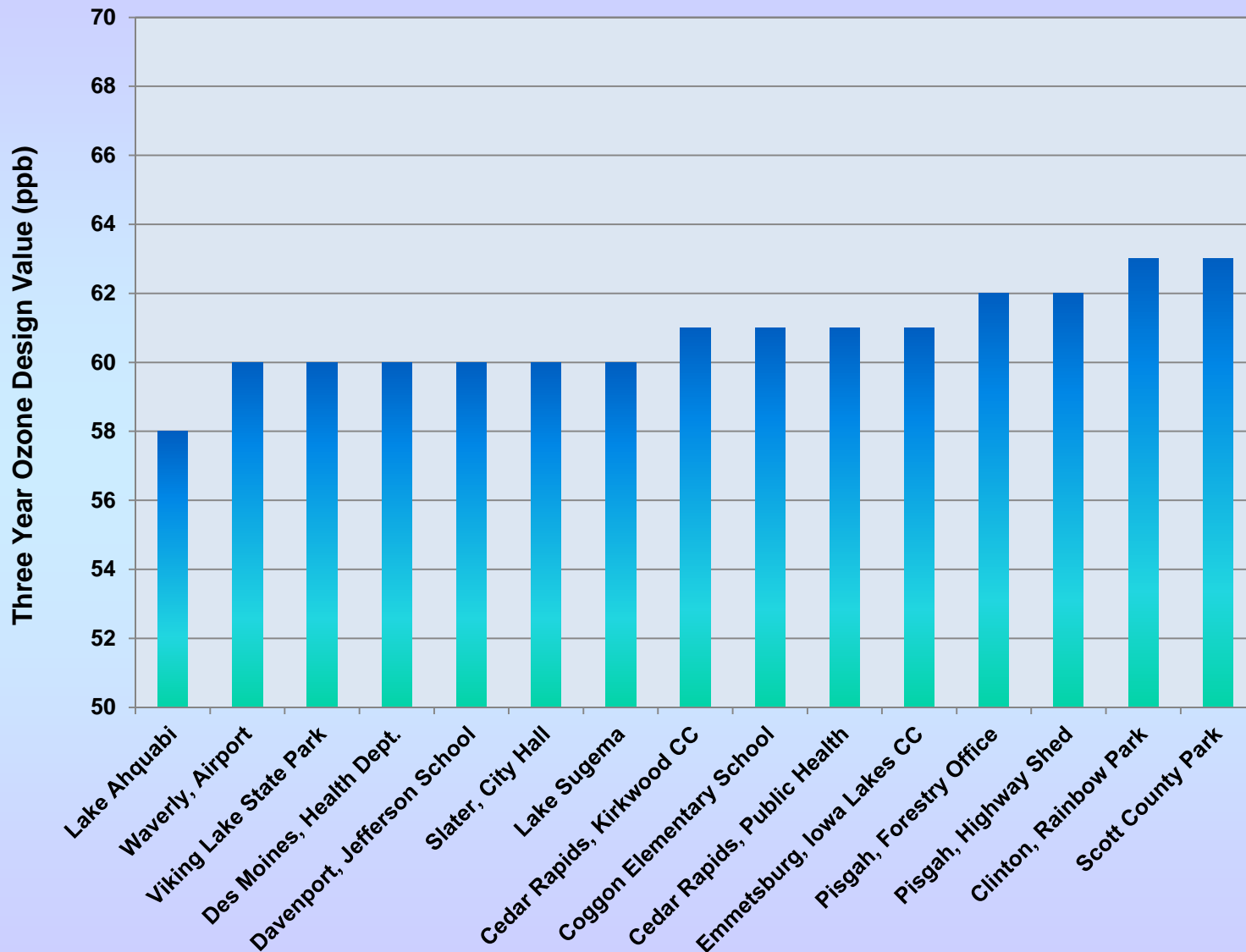
## Iowa Ozone Design Values 2016\*\* (continued)

| County    | City                       | EPA Site Id | Year | 4th Highest Daily<br>Maximum 8hr Ozone<br>Concentration (ppb) | 3-year Average<br>(ppb) of 4th<br>Highest | Years<br>Averaged |
|-----------|----------------------------|-------------|------|---|---|-------------------|
| Palo Alto | Emmetsburg                 | 19-147-1002 | 2014 | 63  | 61  | 2014-2016         |
|           |                            |             | 2015 | 64  |   |                   |
|           |                            |             | 2016 | 58  |   |                   |
| Polk      | Des Moines                 | 19-153-0030 | 2014 | 61  | 60  | 2014-2016         |
|           |                            |             | 2015 | 58  |   |                   |
|           |                            |             | 2016 | 61  |   |                   |
| Scott     | Davenport                  | 19-163-0014 | 2014 | 64  | 63  | 2014-2016         |
|           |                            |             | 2015 | 63  |   |                   |
|           |                            |             | 2016 | 64  |   |                   |
| Scott     | Davenport                  | 19-163-0015 | 2014 | 59  | 60  | 2014-2016         |
|           |                            |             | 2015 | 59  |   |                   |
|           |                            |             | 2016 | 63  |   |                   |
| Story     | Slater                     | 19-169-0011 | 2014 | 62  | 60  | 2014-2016         |
|           |                            |             | 2015 | 59  |   |                   |
|           |                            |             | 2016 | 60  |   |                   |
| Van Buren | Keosauqua<br>(Lake Sugema) | 19-177-0006 | 2014 | 63  | 60  | 2014-2016         |
|           |                            |             | 2015 | 57  |   |                   |
|           |                            |             | 2016 | 61  |   |                   |
| Warren    | Indianola                  | 19-181-0022 | 2014 | 60  | 58  | 2014-2016         |
|           |                            |             | 2015 | 59  |   |                   |
|           |                            |             | 2016 | 57  |   |                   |

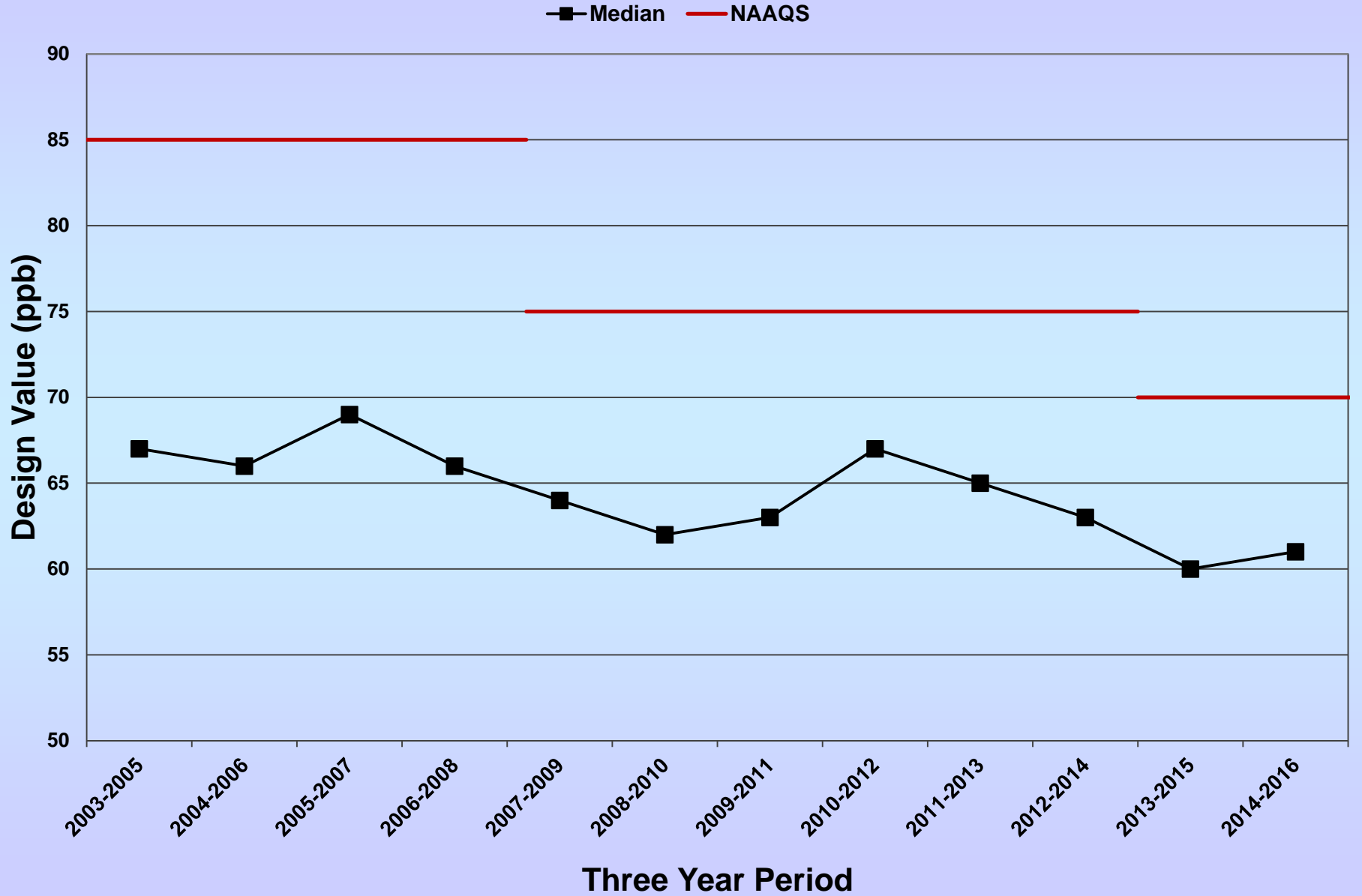
**(Three Year Averages Greater Than 70 ppb Indicate Non-Attainment with the NAAQS)**

**\*\*Values considered preliminary until data is certified in May 2017.**

# Iowa Ozone Design Values Chart: 2014-2016



# Median Ozone Design Values in Iowa Ozone Monitoring Network



# Web Resources

## **Iowa Real-time Data Reporting :**

### *In Polk County:*

<http://www.polkcountyiowa.gov/airquality/air-quality-monitoring/current-aqi-real-time-data/>

### *In Linn County:*

<http://www.linncleanair.org/Default.aspx>

### *Outside Polk and Linn Counties:*

<http://www.shl.uiowa.edu/env/ambient/index.xml>

### *Design Values for All Pollutants Nationwide:*

<http://www.epa.gov/airtrends/values.html>

### *Ozone Maps:*

<http://airnow.gov/>

### **Historical Air Pollution Data for Iowa and Other States:**

<http://www.epa.gov/airdata/>