

# Iowa Ozone Monitoring Locations and Design Values for Ozone 2009-2011

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 March 12, 2008. A monitoring site must have a design value less than 76 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:

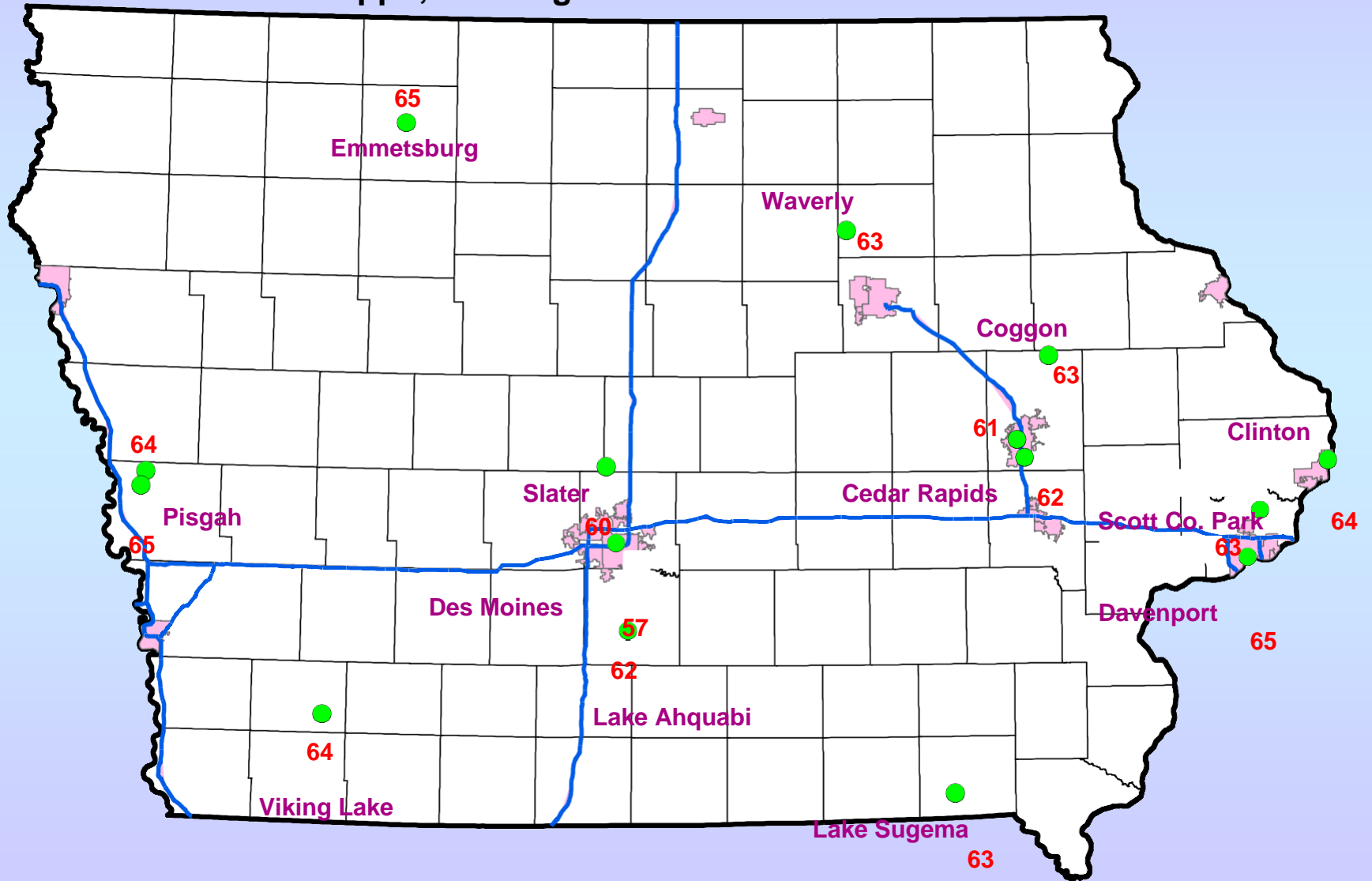
<http://www.epa.gov/oar/ozonepollution/actions.html>

## Iowa Ozone Monitors (2011)

| <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        | Rainbow Park                 | Clinton         | Clinton       |
| 19-085-0007        | Pisgah (forestry office)     | Pisgah          | Harrison      |
| 19-085-1101        | Pisgah (highway maintenance) | Pisgah          | Harrison      |
| 19-113-0028        | Kirkwood Community College   | Cedar Rapids    | Linn          |
| 19-113-0033        | Coggon                       | Coggon          | Linn          |
| 19-113-0040        | Public Health                | Cedar Rapids    | Linn          |
| 19-137-0002        | Viking Lake State Park       | Red Oak         | Montgomery    |
| 19-147-1002        | Iowa Lakes Community College | Emmetsburg      | Palo Alto     |
| 19-153-0030        | Polk County Health           | Des Moines      | Polk          |
| 19-163-0014        | Scott County Park            | Davenport       | Scott         |
| 19-163-0015        | 10th and Vine                | Davenport       | Scott         |
| 19-169-0011        | Slater Elementary            | Slater          | Story         |
| 19-177-0006        | Sugema                       | Lake Sugema     | Van Buren     |
| 19-181-0022        | Ahquabi                      | Indianola       | Warren        |
|                    |                              |                 |               |

# Iowa Ozone Design Values: 2009-2011

Values in ppb, values greater than 75 exceed the standard



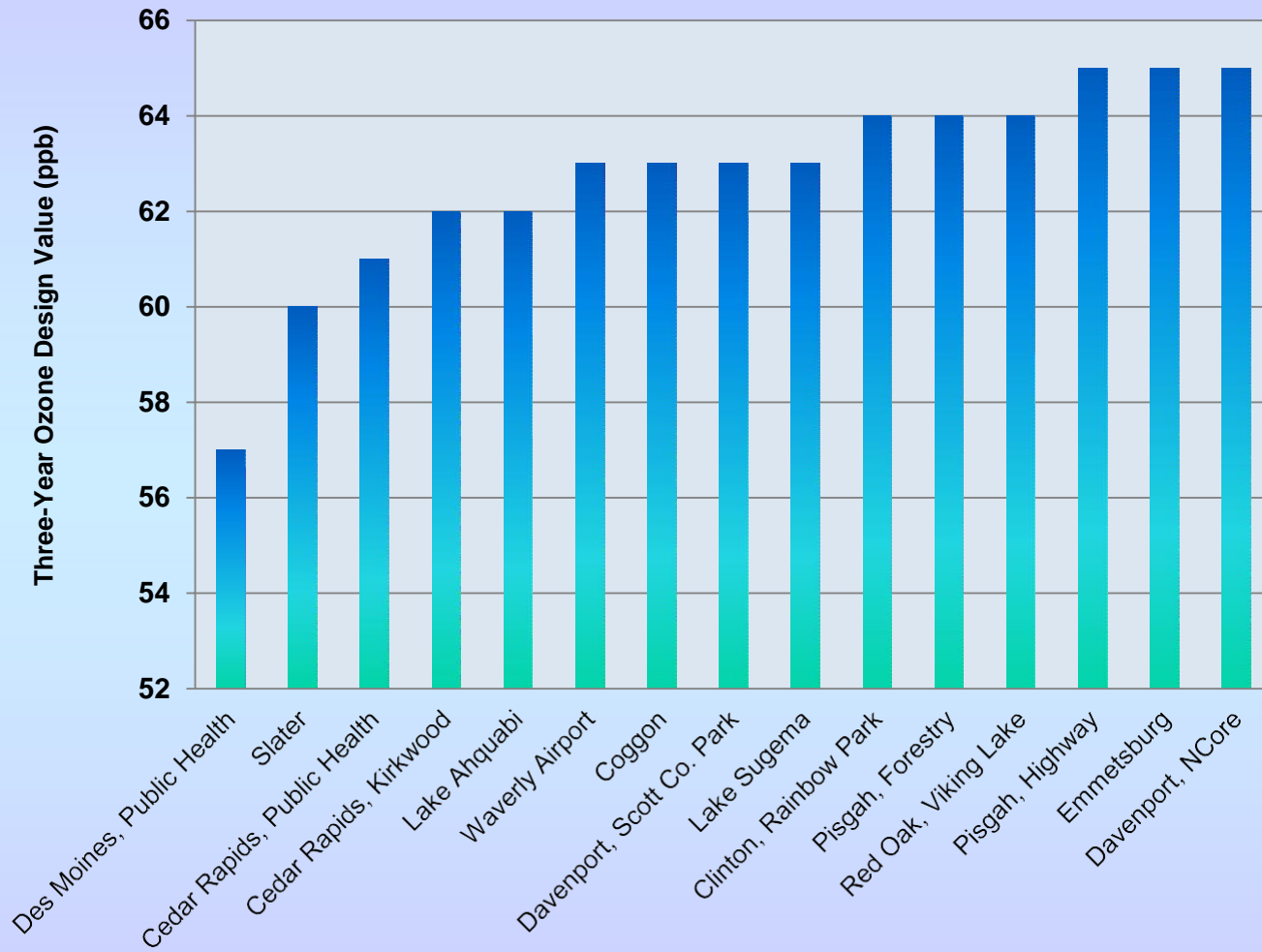
## Iowa Ozone Design Values 2011\*\*

| County     | City                     | EPA Site Id | Year | 4th Highest Daily Maximum 8hr Ozone Concentration (ppb) | 3-year Average of 4th Highest (ppb) | Years Averaged |
|------------|--------------------------|-------------|------|---|-------------------------------------|----------------|
| Bremer     | Waverly                  | 19-017-0011 | 2009 | 60  | 63                                  | 09-11          |
|            |                          |             | 2010 | 63  |                                     |                |
|            |                          |             | 2011 | 66  |                                     |                |
| Clinton    | Clinton                  | 19-045-0021 | 2009 | 64  | 64                                  | 09-11          |
|            |                          |             | 2010 | 64  |                                     |                |
|            |                          |             | 2011 | 66  |                                     |                |
| Harrison   | Pisgah                   | 19-085-0007 | 2009 | 63  | 64                                  | 09-11          |
|            |                          |             | 2010 | 67  |                                     |                |
|            |                          |             | 2011 | 64  |                                     |                |
| Harrison   | Pisgah                   | 19-085-1101 | 2009 | 64  | 65                                  | 09-11          |
|            |                          |             | 2010 | 67  |                                     |                |
|            |                          |             | 2011 | 66  |                                     |                |
| Linn       | Cedar Rapids             | 19-113-0028 | 2009 | 60  | 62                                  | 09-11          |
|            |                          |             | 2010 | 64  |                                     |                |
|            |                          |             | 2011 | 63  |                                     |                |
| Linn       | Coggon                   | 19-113-0033 | 2009 | 61  | 63                                  | 09-11          |
|            |                          |             | 2010 | 64  |                                     |                |
|            |                          |             | 2011 | 64  |                                     |                |
| Linn       | Cedar Rapids             | 19-113-0040 | 2009 | 60  | 61                                  | 09-11          |
|            |                          |             | 2010 | 62  |                                     |                |
|            |                          |             | 2011 | 62  |                                     |                |
| Montgomery | Red Oak<br>(Viking Lake) | 19-137-0002 | 2009 | 60  | 64                                  | 09-11          |
|            |                          |             | 2010 | 67  |                                     |                |
|            |                          |             | 2011 | 65  |                                     |                |

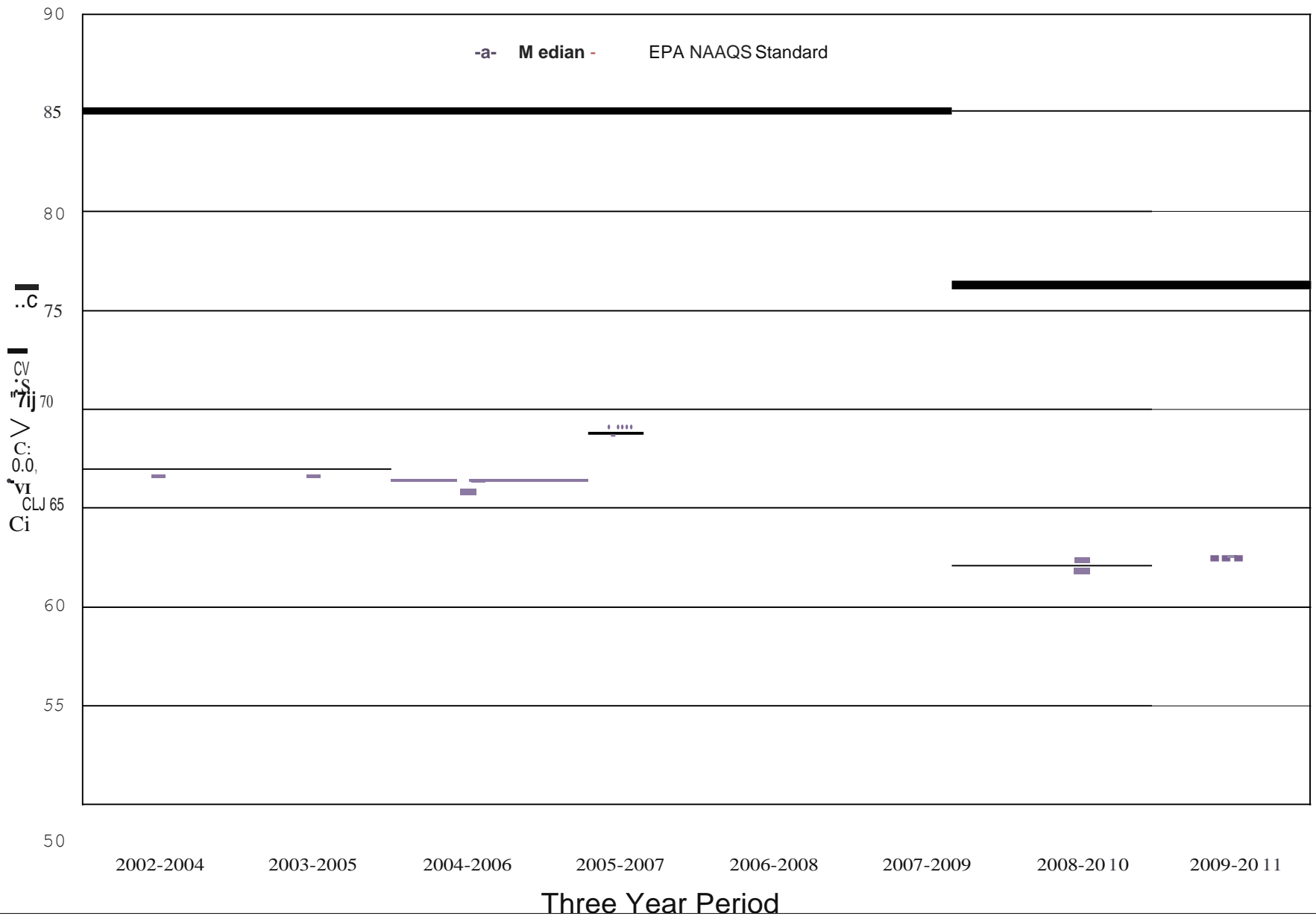
## Iowa Ozone Design Values 2011\*\* (continued)

| County   | City                       | EPA Site Id | Year | 4th Highest Daily<br>Maximum 8hr Ozone<br>Concentration (ppb) | 3-year Average<br>of 4th Highest<br>(ppb) | Years<br>Averaged |
|--|----------------------------|-------------|------|---|---|-------------------|
| Palo Alto  | Emmetsburg                 | 19-147-1002 | 2009 | 62  | 65  | 09-11             |
|  |                            |             | 2010 | 67  |   |                   |
|  |                            |             | 2011 | 67  |   |                   |
| Polk   | Des Moines                 | 19-153-0030 | 2009 | 56  | 57  | 09-11             |
|  |                            |             | 2010 | 57  |   |                   |
|  |                            |             | 2011 | 59  |   |                   |
| Scott  | Davenport                  | 19-163-0014 | 2009 | 64  | 63  | 09-11             |
|  |                            |             | 2010 | 64  |   |                   |
|  |                            |             | 2011 | 63  |   |                   |
| Scott  | Davenport                  | 19-163-0015 | 2009 | 64  | 65  | 09-11             |
|  |                            |             | 2010 | 65  |   |                   |
|  |                            |             | 2011 | 66  |   |                   |
| Story  | Slater                     | 19-169-0011 | 2009 | 57  | 60  | 09-11             |
|  |                            |             | 2010 | 61  |   |                   |
|  |                            |             | 2011 | 62  |   |                   |
| Van Buren  | Keosauqua<br>(Lake Sugema) | 19-177-0006 | 2009 | 60  | 63  | 09-11             |
|  |                            |             | 2010 | 68  |   |                   |
|  |                            |             | 2011 | 62  |   |                   |
| Warren   | Indianola                  | 19-181-0022 | 2009 | 61  | 62  | 09-11             |
|  |                            |             | 2010 | 64  |   |                   |
|  |                            |             | 2011 | 63  |   |                   |
| (Three Year Averages Greater Than 75 ppb Indicate Non-Attainment with the NAAQS) |                            |             |      |   |   |                   |
| **Values considered preliminary until data is certified in May 2012              |                            |             |      |   |   |                   |

# Iowa Ozone Design Values Chart: 2009-2011



# Median Ozone Design Values in Iowa Ozone Monitoring Network



# Web Resources

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

### *In Polk County:*

<http://www.polkcountyiowa.gov/airquality/Pages/Monitoring.aspx>

### *In Linn County:*

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

### *Outside Polk and Linn Counties:*

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

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

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

### *Ozone Maps:*

<http://www.epa.gov/airnow/index.html>

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

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