

# Iowa Ozone Monitoring Locations and Design Values for Ozone 2004-2006

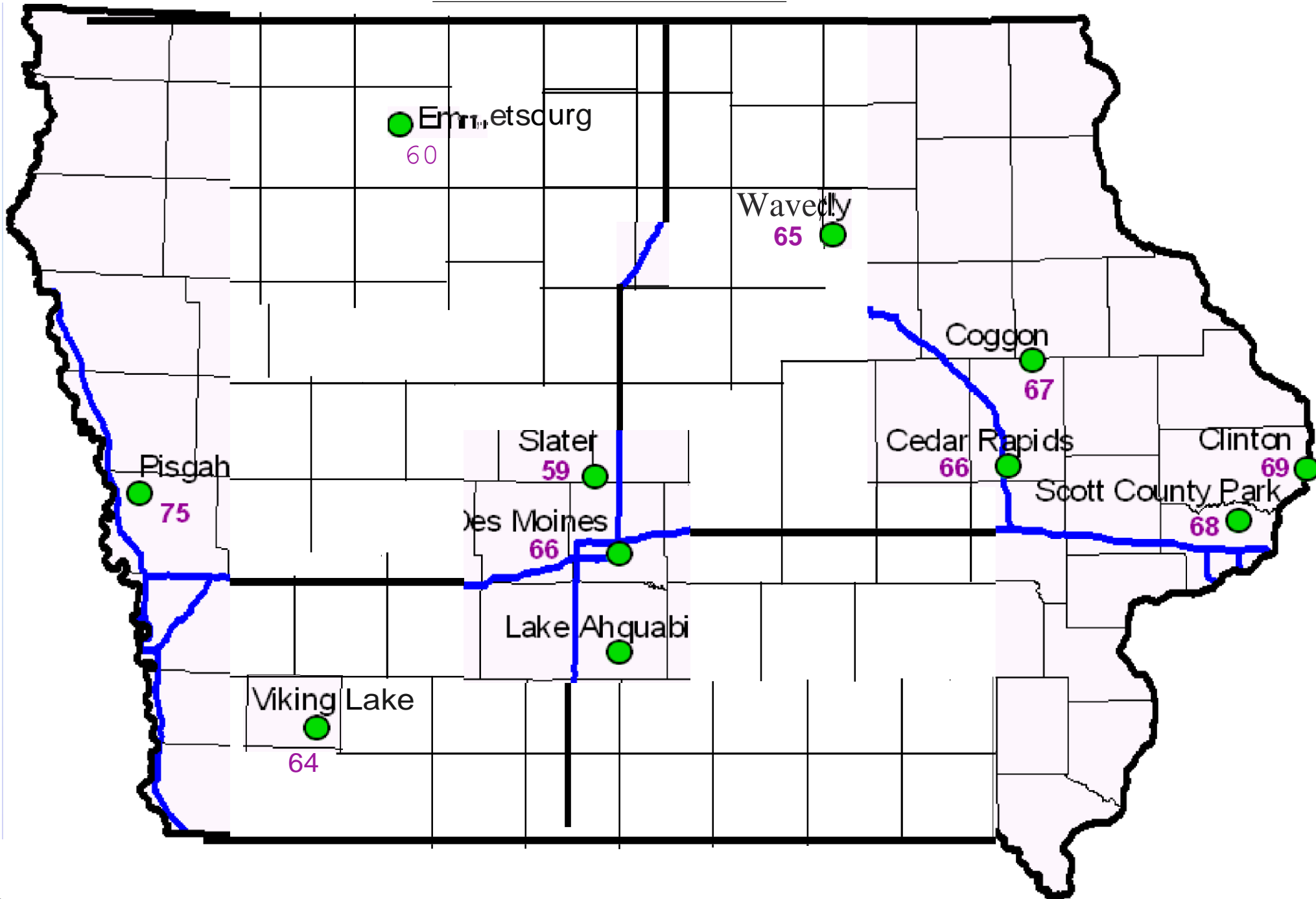
A design value is a tool that can be used to understand pollution levels at a specific location. A design value may be set for any pollutant. The U.S. EPA's official definition is explained this way: "a design value is the mathematically determined pollutant concentration at a particular site that must 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. A monitoring site must have a design value less than 85 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.

## Iowa Ozone Monitors (2006)

| AQS Site ID | Site Name                    | Location     | County     |  |
|-------------|------------------------------|--------------|------------|--|
| 19-017-0011 | Waverly Airport              | Waverly      | Bremer     |  |
| 19-045-0021 | Rainbow Park                 | Clinton      | Clinton    |  |
| 19-085-1101 | Pisgah                       | Pisgah       | Harrison   |  |
| 19-113-0028 | Kirkwood Community College   | Cedar Rapids | Linn       |  |
| 19-113-0033 | Coggon                       | Coggon       | Linn       |  |
| 19-137-0002 | Viking Lake State Park       | Red Oak      | Montgomery |  |
| 19-147-1002 | Iowa Lakes Community College | Emmetsburg   | Palo Alto  |  |
| 19-153-0058 | Phillips School              | 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 | Lake Sugema                  | Keosauqua    | Van Buren  |  |
| 19-181-0022 | Lake Ahquabi                 | Indianola    | Warren     |  |

# Iowa Ozone Design Values: 2004-2006



## Iowa Ozone Design Values 2006\*\*

| County     | City                     | EPA Site Id | Year | 4th Highest Daily Maximum<br>8hr Ozone Concentration<br>(ppb) | 3-year Average<br>(ppb) of 4th<br>Highest | Years<br>Averaged |
|------------|--------------------------|-------------|------|---|---|-------------------|
| Bremer     | Waverly                  | 19-017-0011 | 2004 | 63  | 65  | 04-06             |
|            |                          |             | 2005 | 70  |   |                   |
|            |                          |             | 2006 | 64  |   |                   |
| Clinton    | Clinton                  | 19-045-0021 | 2004 | 66  | 69  | 04-06             |
|            |                          |             | 2005 | 78  |   |                   |
|            |                          |             | 2006 | 65  |   |                   |
| Harrison   | Pisgah                   | 19-085-1101 | 2004 | 71  | 75  | 04-06             |
|            |                          |             | 2005 | 80  |   |                   |
|            |                          |             | 2006 | 74  |   |                   |
| Linn       | Cedar Rapids             | 19-113-0028 | 2004 | 61  | 66  | 04-06             |
|            |                          |             | 2005 | 72  |   |                   |
|            |                          |             | 2006 | 66  |   |                   |
| Linn       | Coggon                   | 19-113-0033 | 2004 | 64  | 67  | 04-06             |
|            |                          |             | 2005 | 73  |   |                   |
|            |                          |             | 2006 | 64  |   |                   |
| Montgomery | Red Oak<br>(Viking Lake) | 19-137-0002 | 2004 | 58  | 64  | 04-06             |
|            |                          |             | 2005 | 67  |   |                   |
|            |                          |             | 2006 | 68  |   |                   |
| Palo Alto  | Emmetsburg               | 19-147-1002 | 2004 | 58  | 60  | 04-06             |
|            |                          |             | 2005 | 64  |   |                   |
|            |                          |             | 2006 | 60  |   |                   |
| Polk       | Des Moines               | 19-153-0058 | 2004 | 59  | 66  | 04-06             |
|            |                          |             | 2005 | 72  |   |                   |
|            |                          |             | 2006 | 69  |   |                   |
| Scott      | Davenport                | 19-163-0014 | 2004 | 69  | 68  | 04-06             |
|            |                          |             | 2005 | 77  |   |                   |
|            |                          |             | 2006 | 59  |   |                   |
| Story      | Slater                   | 19-169-0011 | 2004 | 53  | 59  | 04-06             |
|            |                          |             | 2005 | 65  |   |                   |
|            |                          |             | 2006 | 61  |   |                   |
| Warren     | Indianola                | 19-181-0022 | 2004 | 51  | 62  | 04-06             |
|            |                          |             | 2005 | 72  |   |                   |
|            |                          |             | 2006 | 64  |   |                   |

**(Three Year Averages Greater Than 85 ppb Indicate Non-Attainment with the NAAQS)**

**\*\* Values considered preliminary until data is certified in July 2007**

EPA Determined that this site did not meet data completeness. Design value not valid (updated 4-2010)

# Web Resources

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

*In Polk County:*

<http://www.airquality.co.polk.ia.us/Default.aspx>

*In Linn County:*

<http://www.air.linn.ia.us/>

*Outside Polk and Linn Counties:*

<http://www.uhl.uiowa.edu/services/environment/airquality/ambient/index.html>

*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/air/data/>