

Iowa Ozone Monitoring Locations and Design Values for Ozone 2007-2009

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).

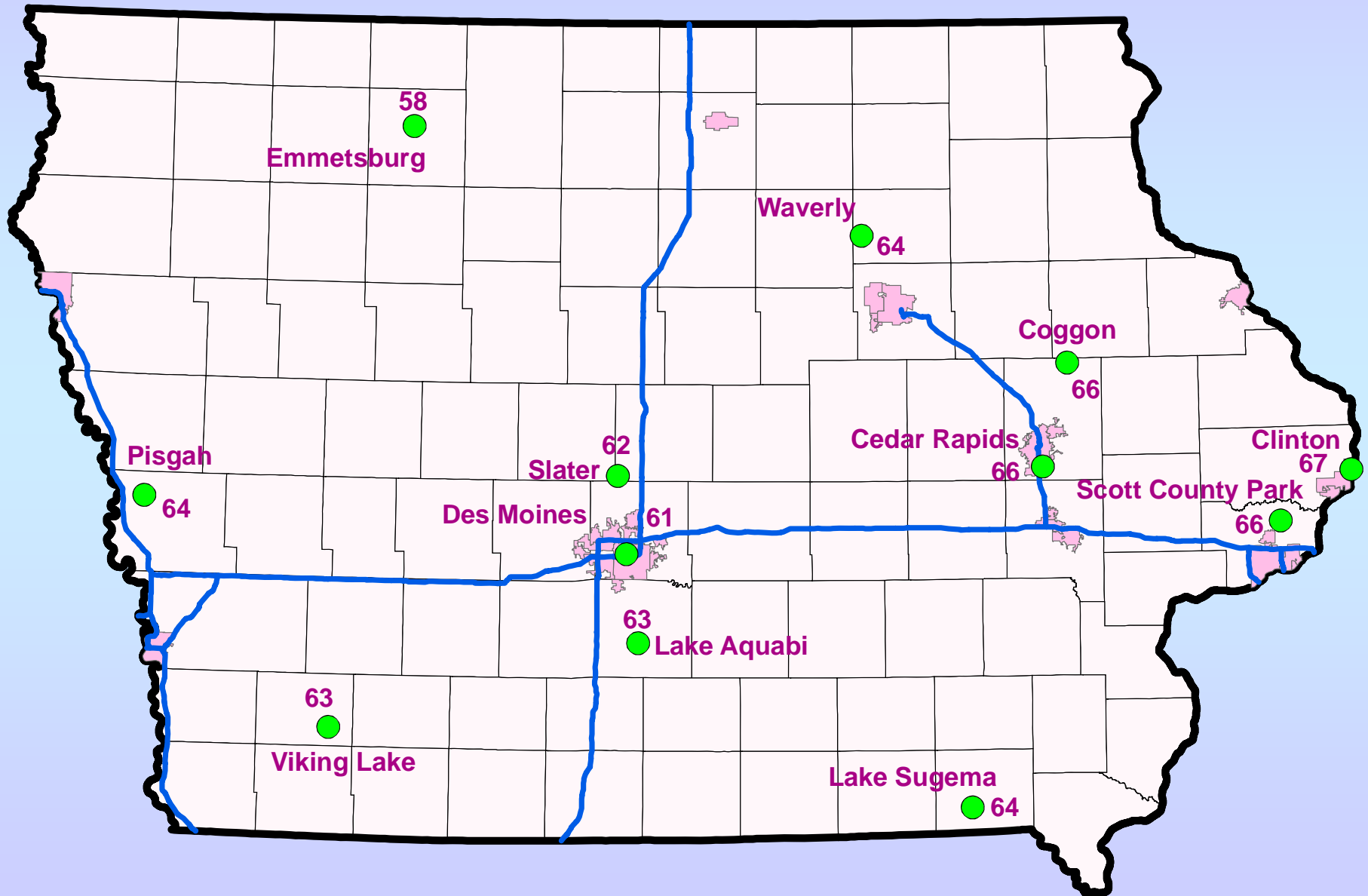
Iowa ozone monitor location and information is detailed on the following pages. The EPA design value for 8-hour ozone is equal to the average of the 4th highest annual daily maximum 8-hour value for the most recent three years. EPA promulgated new lower ozone standards on March 12, 2008. A monitoring 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 (2009)

AQS Site ID	Site Name	Location	County
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: 2007-2009



Iowa Ozone Design Values 2009**

County	City	EPA Site Id	Year	4th Highest Daily Maximum 8hr Ozone Concentration (ppb)	3-year Average (ppb) of 4th Highest	Years Averaged
Bremer	Waverly	19-017-0011	2007	68	64	07-09
			2008	65		
			2009	60		
Clinton	Clinton	19-045-0021	2007	74	67	07-09
			2008	63		
			2009	64		
Harrison	Pisgah	19-085-1101	2007	70	64	07-09
			2008	59		
			2009	64		
Linn	Cedar Rapids	19-113-0028	2007	76	66	07-09
			2008	63		
			2009	60		
Linn	Coggon	19-113-0033	2007	75	66	07-09
			2008	63		
			2009	61		
Montgomery	Red Oak (Viking Lake)	19-137-0002	2007	71	63	07-09
			2008	60		
			2009	60		
Palo Alto	Emmetsburg	19-147-1002	2007	63	58	07-09
			2008	51		
			2009	62		
Polk	Des Moines	19-153-0030	2007	70	61	07-09
			2008	57		
			2009	56		
Scott	Davenport	19-163-0014	2007	73	66	07-09
			2008	63		
			2009	64		
Story	Slater	19-169-0011	2007	73	62	07-09
			2008	58		
			2009	57		
Van Buren	Keosauqua (Lake Sugema)	19-177-0006	2007	72	64	07-09
			2008	60		
			2009	60		
Warren	Indianola	19-181-0022	2007	69	63	07-09
			2008	59		
			2009	61		

(Three Year Averages Greater Than 75 ppb Indicate Non-Attainment with the NAAQS)

** Values considered preliminary until data is certified in May 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/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/air/data/>