

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:

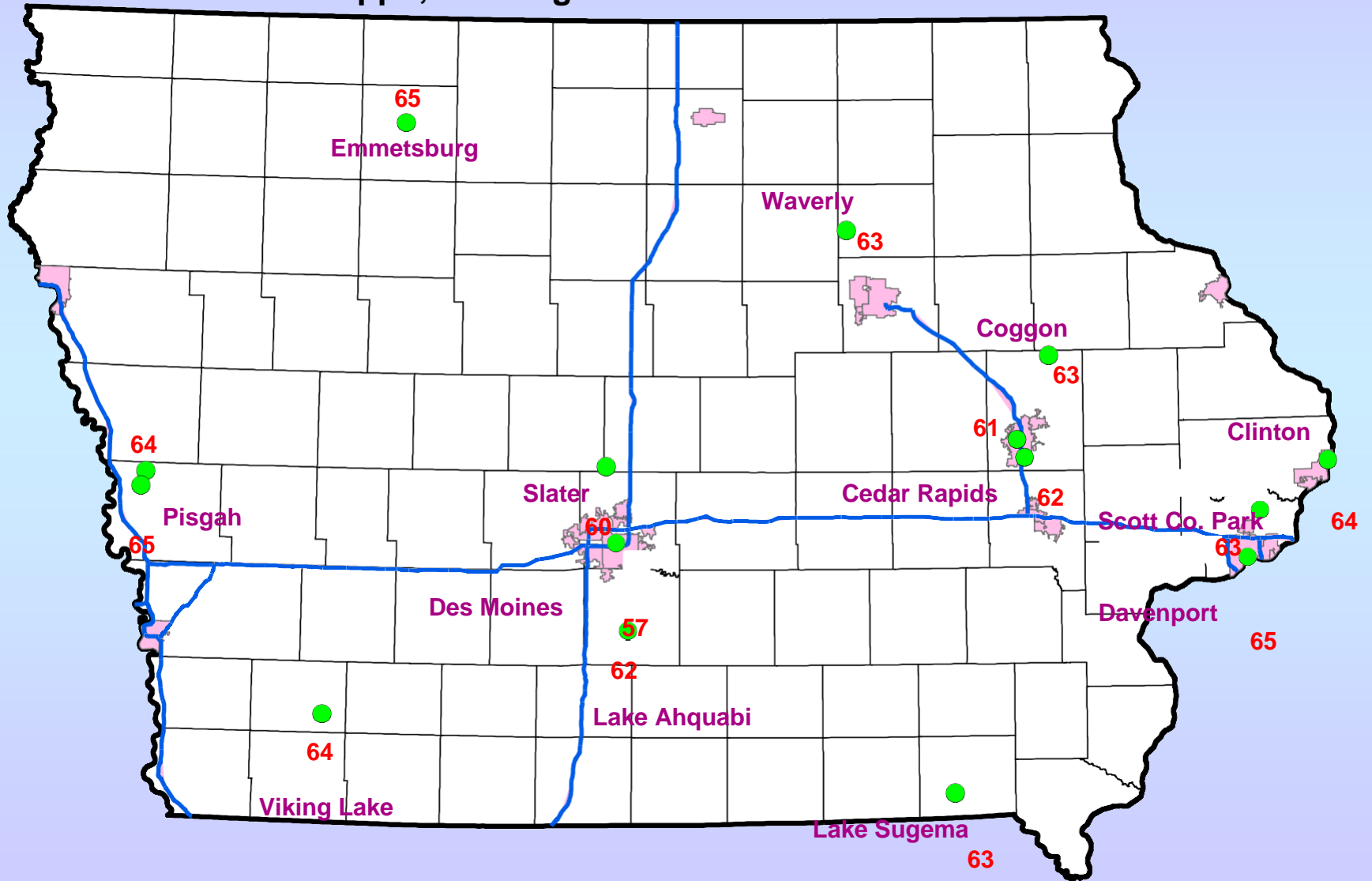
<http://www.epa.gov/oar/ozonepollution/actions.html>

Iowa Ozone Monitors (2011)

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: 2009-2011

Values in ppb, values greater than 75 exceed the standard



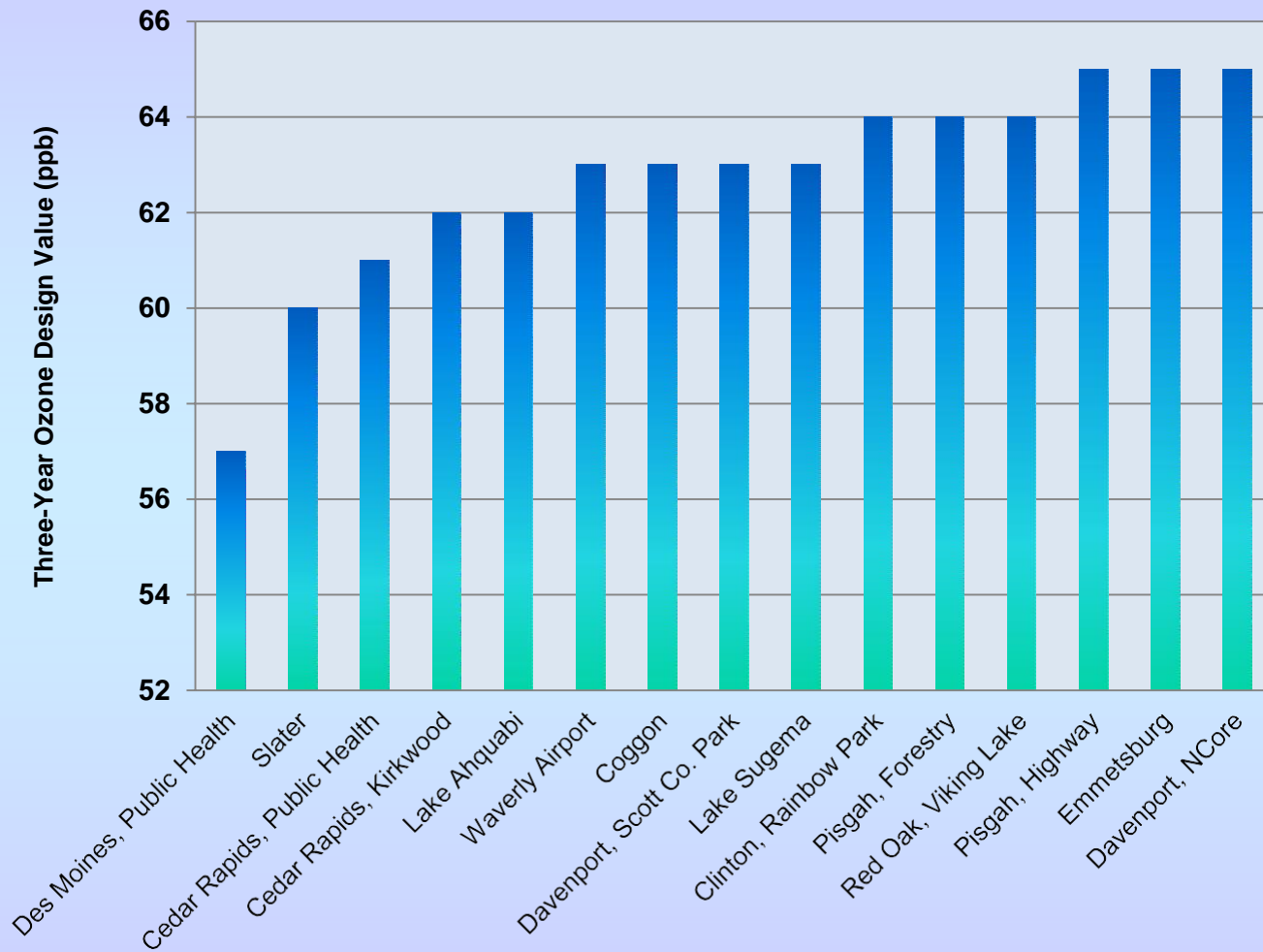
Iowa Ozone Design Values 2011**

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 (Viking Lake)	19-137-0002	2009	60	64	09-11
			2010	67		
			2011	65		

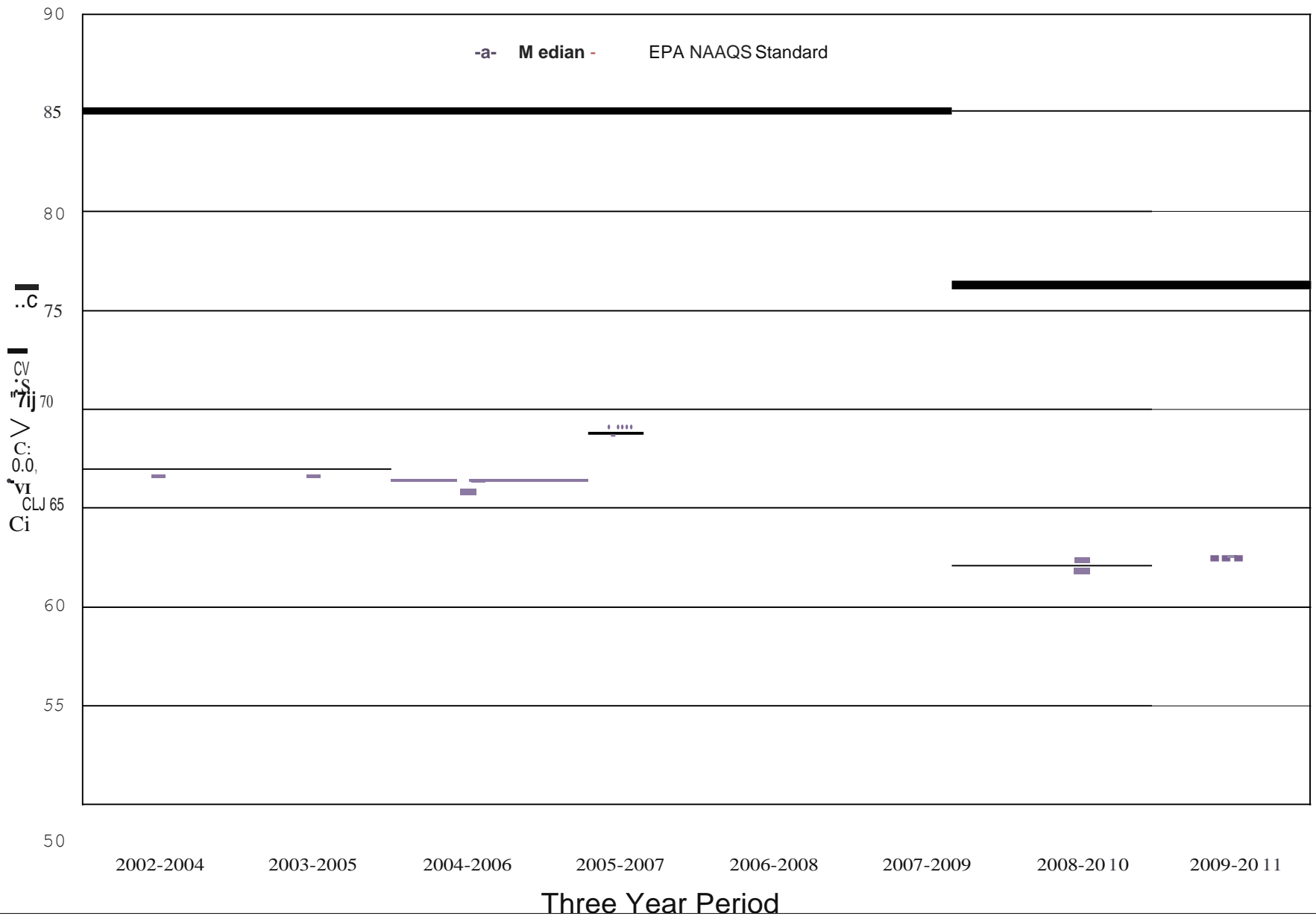
Iowa Ozone Design Values 2011** (continued)

County	City	EPA Site Id	Year	4th Highest Daily Maximum 8hr Ozone Concentration (ppb)	3-year Average of 4th Highest (ppb)	Years 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 (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/>