

Iowa Ozone Monitoring Locations and Design Values for Ozone 2011-2013

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).

All values in this report should be considered preliminary. Data values will be certified in May, 2014 and EPA will calculate design values for determination of compliance with the National Ambient Air Quality Standards (NAAQS) later this year.

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:

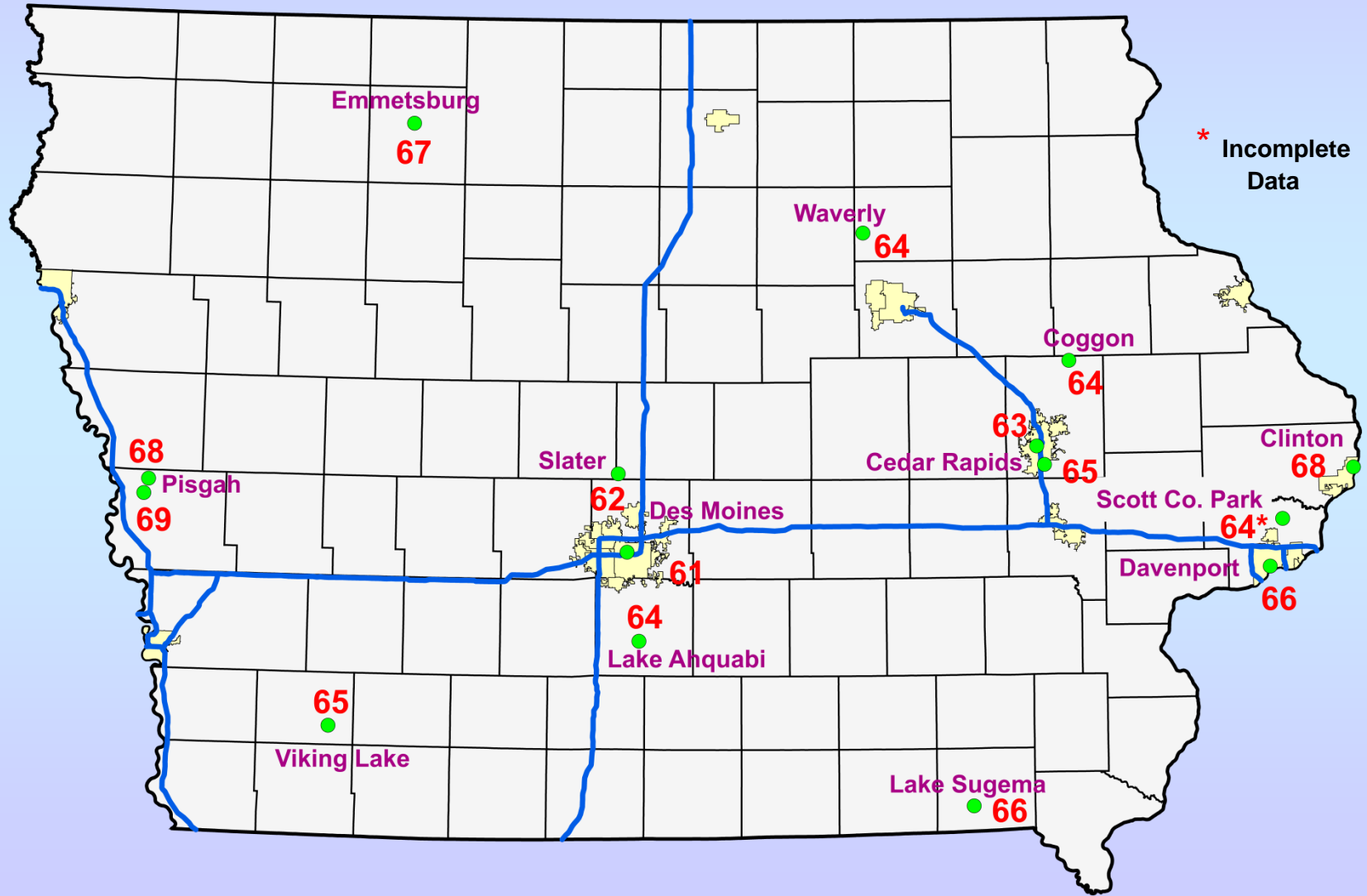
<http://www.epa.gov/oar/ozonepollution/actions.html>

Iowa Ozone Monitors (2013)

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: 2011-2013

Values in ppb, values greater than 75 exceed the standard



Iowa Ozone Design Values 2013*

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	2011	66	64	2011-2013
			2012	68		
			2013	60		
Clinton	Clinton	19-045-0021	2011	66	68	2011-2013
			2012	76		
			2013	62		
Harrison	Pisgah	19-085-0007	2011	64	68	2011-2013
			2012	75		
			2013	65		
Harrison	Pisgah	19-085-1101	2011	66	69	2011-2013
			2012	76		
			2013	65		
Linn	Cedar Rapids	19-113-0028	2011	63	65	2011-2013
			2012	72		
			2013	60		
Linn	Coggon	19-113-0033	2011	64	64	2011-2013
			2012	69		
			2013	60		
Linn	Cedar Rapids	19-113-0040	2011	62	63	2011-2013
			2012	69		
			2013	59		
Montgomery	Red Oak (Viking Lake)	19-137-0002	2011	65	65	2011-2013
			2012	71		
			2013	60		

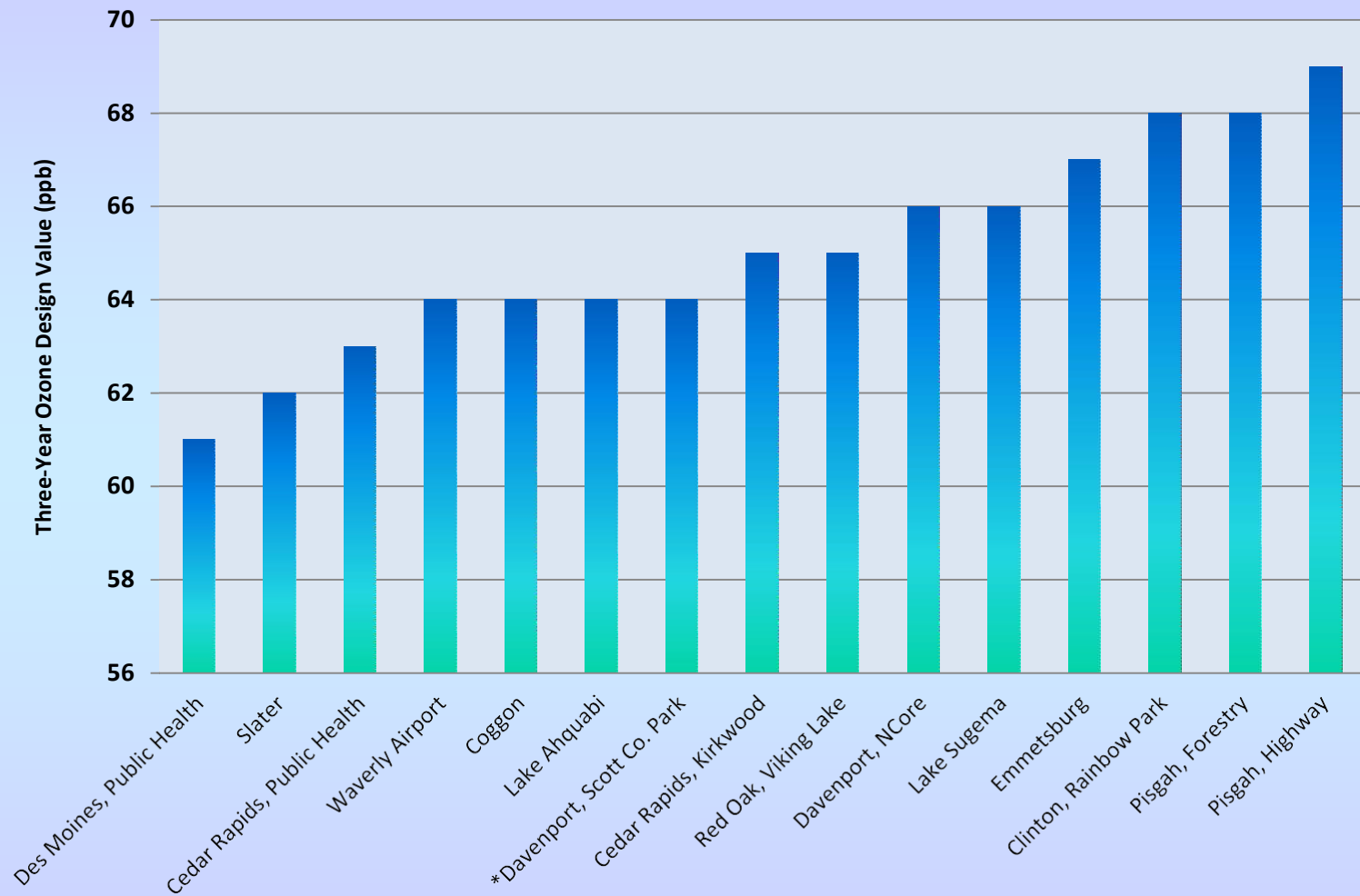
Iowa Ozone Design Values 2013 (continued)

County	City	EPA Site Id	Year	4th Highest Daily Maximum 8hr Ozone Concentration (ppb)	3-year Average (ppb) of 4th Highest	Years Averaged
Palo Alto	Emmetsburg	19-147-1002	2011	67	67	2011-2013
			2012	70		
			2013	64		
Polk	Des Moines	19-153-0030	2011	59	61	2011-2013
			2012	68		
			2013	58		
Scott	Davenport	19-163-0014	2011	63	64*	2011-2013
			2012	71*		
			2013	59*		
Scott	Davenport	19-163-0015	2011	66	66	2011-2013
			2012	72		
			2013	60		
Story	Slater	19-169-0011	2011	62	62	2011-2013
			2012	64		
			2013	61		
Van Buren	Keosauqua (Lake Sugema)	19-177-0006	2011	62	66	2011-2013
			2012	74		
			2013	63		
Warren	Indianola	19-181-0022	2011	63	64	2011-2013
			2012	70		
			2013	59		

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

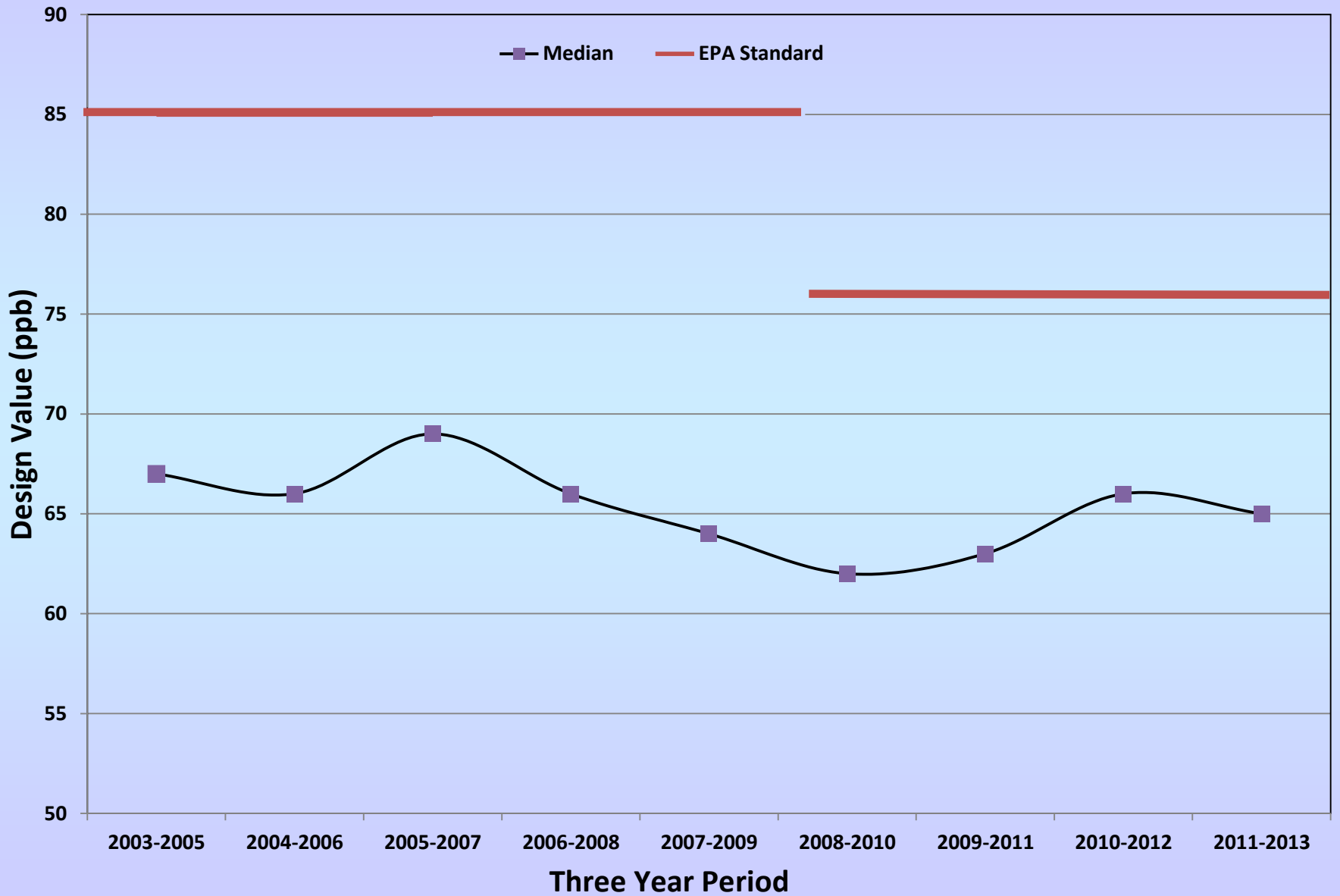
* Scott County Park Does Not Meet Data Completeness Requirements

Iowa Ozone Design Values Chart: 2011-2013



***Davenport, Scott Co. Park Site does not meet data completeness requirements**

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/>