

Iowa Ozone Monitoring Locations and Design Values for Ozone 2010-2012

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, 2013 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>

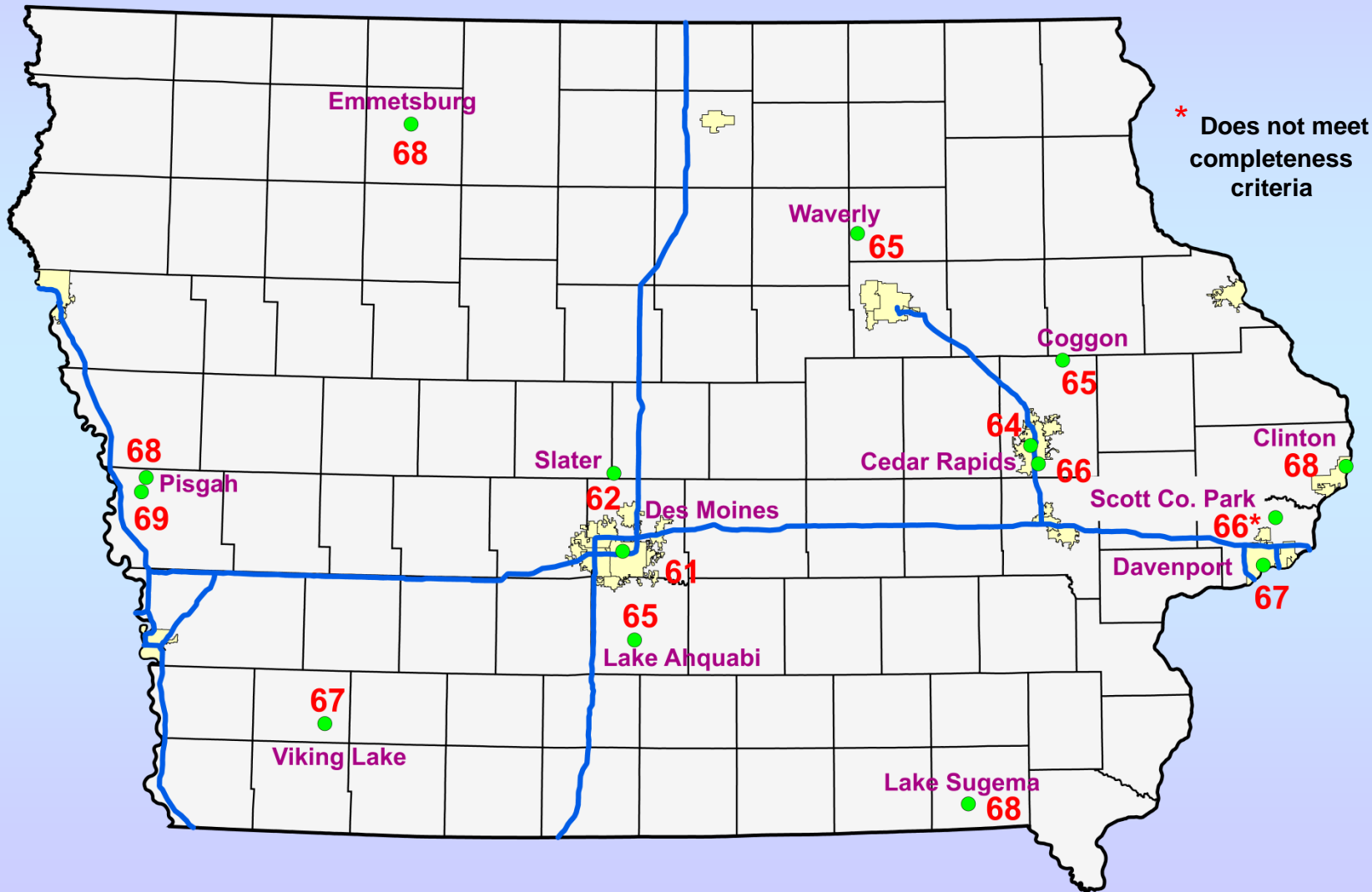
Note: This report was modified on 4/23/14 due to problems identified with the 2012 Scott County Park ozone data. The design value remains the same, but the data no longer meets completeness criteria.

Iowa Ozone Monitors (2012)

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: 2010-2012

Values in ppb, values greater than 75 exceed the standard



Iowa Ozone Design Values 2012

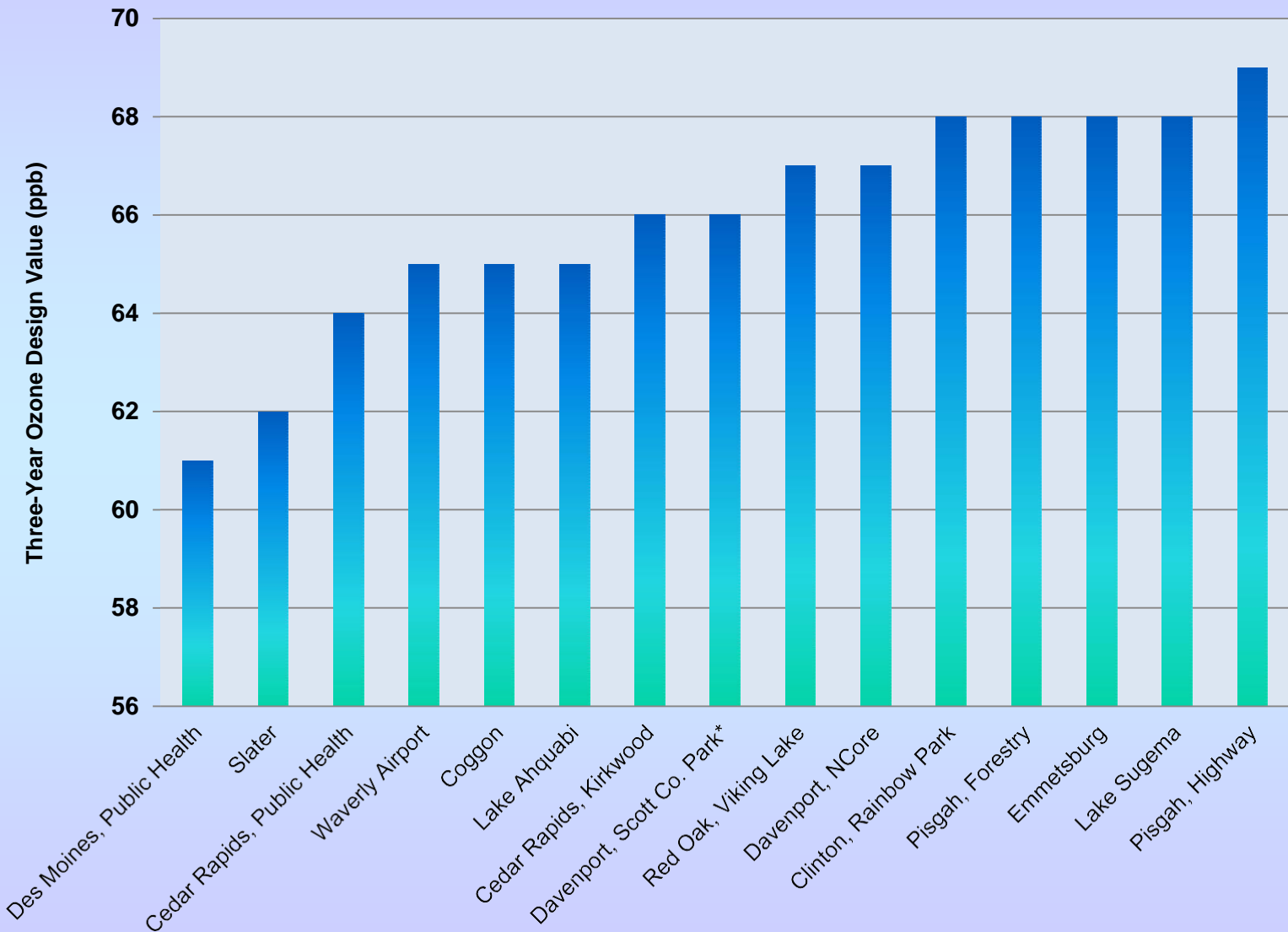
County	City	EPA Site Id	Year	4th Highest Daily Maximum 8hr Ozone Concentration (ppb)	3-year Average of 4th Highest (ppb)	Years Averaged
Bremer	Waverly	19-017-0011	2010	63	65	2010-2012
			2011	66		
			2012	68		
Clinton	Clinton	19-045-0021	2010	64	68	2010-2012
			2011	66		
			2012	76		
Harrison	Pisgah	19-085-0007	2010	67	68	2010-2012
			2011	64		
			2012	75		
Harrison	Pisgah	19-085-1101	2010	67	69	2010-2012
			2011	66		
			2012	76		
Linn	Cedar Rapids	19-113-0028	2010	64	66	2010-2012
			2011	63		
			2012	72		
Linn	Coggon	19-113-0033	2010	64	65	2010-2012
			2011	64		
			2012	69		
Linn	Cedar Rapids	19-113-0040	2010	62	64	2010-2012
			2011	62		
			2012	69		
Montgomery	Red Oak (Viking Lake)	19-137-0002	2010	67	67	2010-2012
			2011	65		
			2012	71		

Iowa Ozone Design Values 2012 (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	2010	67	68	2010-2012
			2011	67		
			2012	70		
Polk	Des Moines	19-153-0030	2010	57	61	2010-2012
			2011	59		
			2012	68		
Scott	Davenport	19-163-0014	2010	64	66*	2010-2012
			2011	63		
			2012	71		
Scott	Davenport	19-163-0015	2010	65	67	2010-2012
			2011	66		
			2012	72		
Story	Slater	19-169-0011	2010	61	62	2010-2012
			2011	62		
			2012	64		
Van Buren	Keosauqua (Lake Sugema)	19-177-0006	2010	68	68	2010-2012
			2011	62		
			2012	74		
Warren	Indianola	19-181-0022	2010	64	65	2010-2012
			2011	63		
			2012	70		

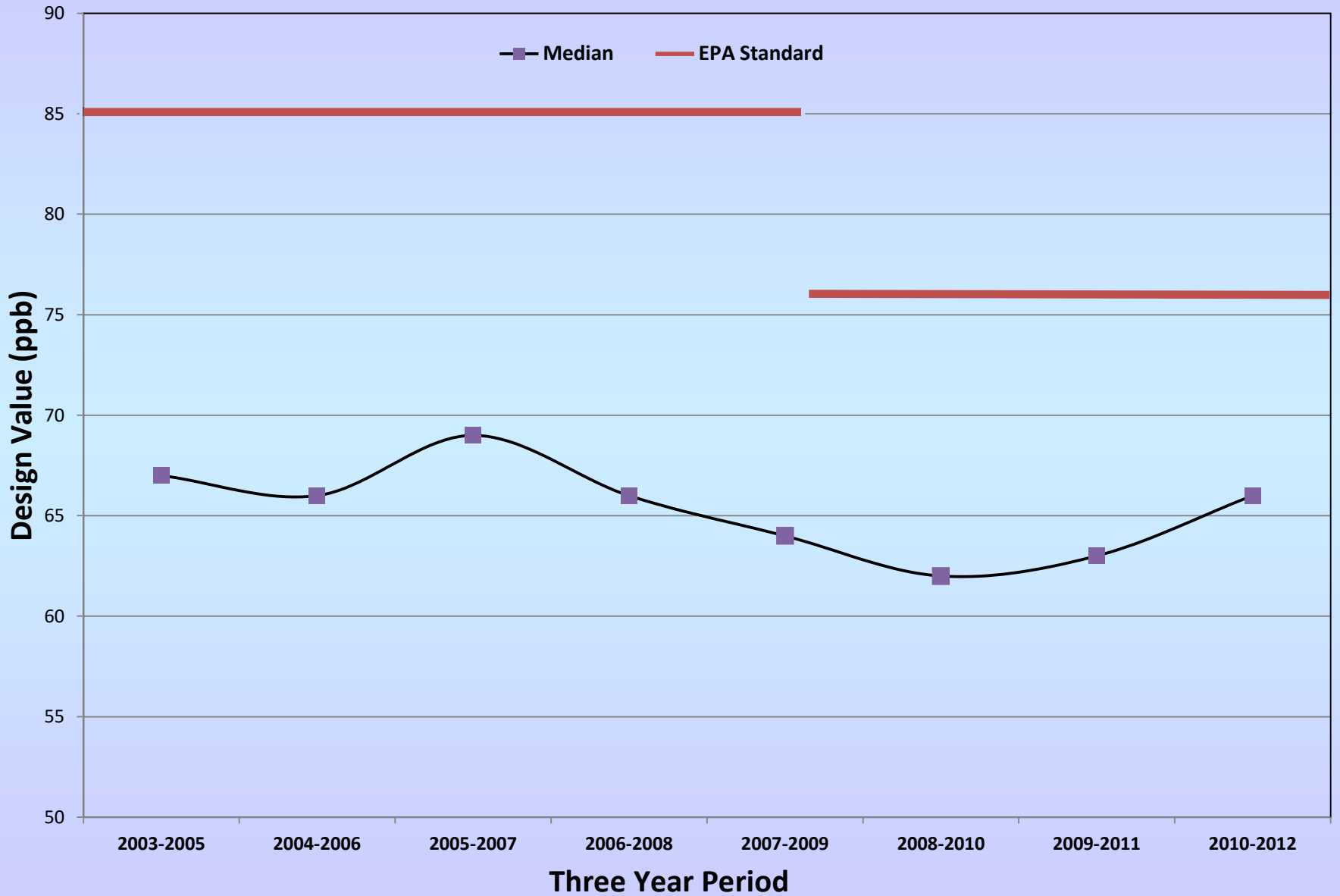
*Does not meet completeness criteria

Iowa Ozone Design Values Chart: 2010-2012



*Does not meet completeness criteria

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/env/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/>