

Iowa Ozone Monitoring Locations and Design Values for Ozone 2015-2017

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 October 1, 2015. A monitoring site must have a design value less than 71 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: [2015 National Ambient Air Quality Standards \(NAAQS\) for Ozone](#)

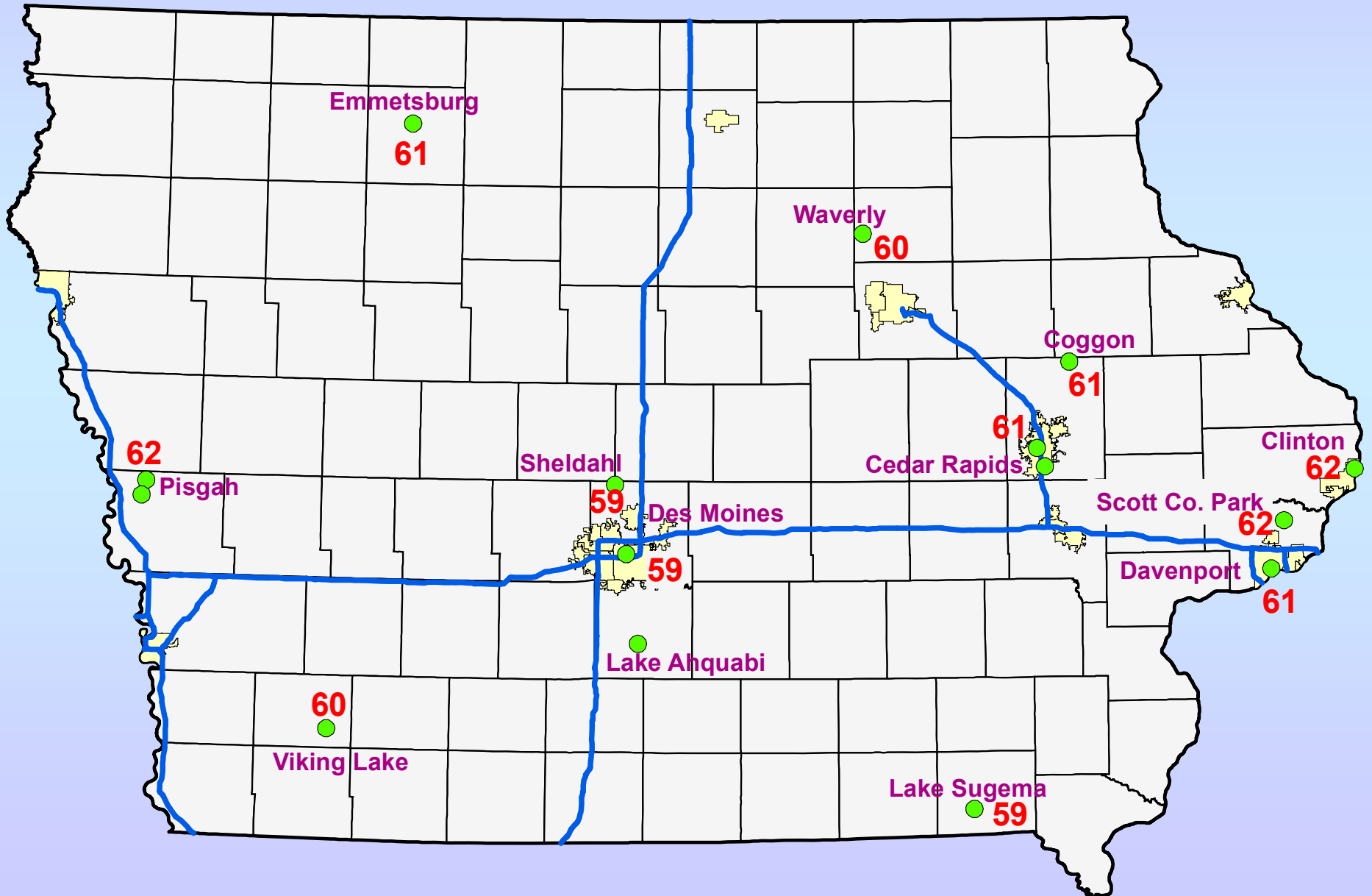
Iowa Ozone Monitors (2017)

AQS Site ID	Site Name	Location	County
19-017-0011	Waverly, Airport	Waverly	Bremer
19-045-0021	Clinton, Rainbow Park	Clinton	Clinton
19-085-0007	Pisgah, Forestry Office	Pisgah	Harrison
19-085-1101*	Pisgah, Highway Shed	Pisgah	Harrison
19-113-0028*	Cedar Rapids, Kirkwood CC	Cedar Rapids	Linn
19-113-0033	Coggon Elementary School	Coggon	Linn
19-113-0040	Cedar Rapids, Public Health	Cedar Rapids	Linn
19-137-0002	Viking Lake State Park	Red Oak	Montgomery
19-147-1002	Emmetsburg, Iowa Lakes CC	Emmetsburg	Palo Alto
19-153-0030	Des Moines, Health Dept.	Des Moines	Polk
19-153-1579	Sheldahl	Sheldahl	Polk
19-163-0014	Scott County Park	Davenport	Scott
19-163-0015	Davenport, Jefferson School	Davenport	Scott
19-177-0006	Lake Sugema	Lake Sugema	Van Buren
19-181-0022*	Lake Ahquabi	Indianola	Warren

* Monitors Discontinued 7/1/2017

Iowa Ozone Design Values: 2015-2017

Values in ppb, values greater than 70 exceed the standard



Iowa Ozone Design Values 2017**

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	2015	59		
			2016	62		
			2017	59	60	2015-2017
Clinton	Clinton	19-045-0021	2015	61		
			2016	63		
			2017	62	62	2015-2017
Harrison	Pisgah	19-085-0007	2015	61		
			2016	63		
			2017	64	62	2015-2017
Linn	Coggon	19-113-0033	2015	60		
			2016	63		
			2017	62	61	2015-2017
Linn	Cedar Rapids	19-113-0040	2015	60		
			2016	64		
			2017	59	61	2015-2017
Montgomery	Red Oak (Viking Lake)	19-137-0002	2015	60		
			2016	62		
			2017	59	60	2015-2017

Iowa Ozone Design Values 2017** (continued)

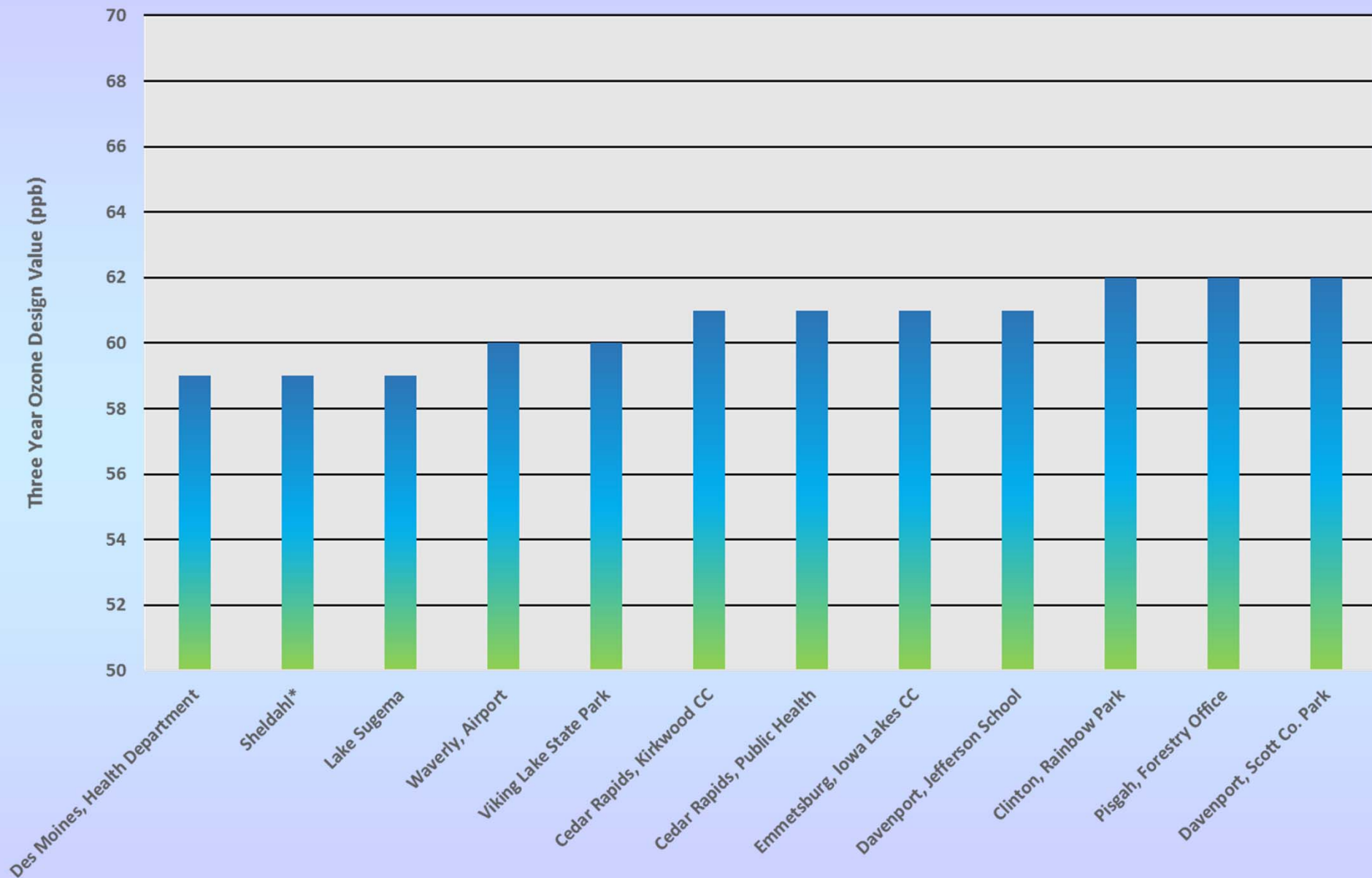
County	City	EPA Site Id	Year	4th Highest Daily Maximum 8hr Ozone Concentration (ppb)	3-year Average (ppb) of 4th Highest	Years Averaged
Palo Alto	Emmetsburg	19-147-1002	2015	64		
			2016	58		
			2017	61	61	2015-2017
Polk	Des Moines	19-153-0030	2015	58		
			2016	61		
			2017	59	59	2015-2017
Polk*	Slater	19-169-0011	2015	59		
	Slater	19-169-0011	2016	60		
	Sheldahl	19-153-1579	2017	58	59	2015-2017
Scott	Davenport	19-163-0014	2015	63		
			2016	64		
			2017	61	62	2015-2017
Scott	Davenport	19-163-0015	2015	59		
			2016	63		
			2017	62	61	2015-2017
Van Buren	Keosauqua	19-177-0006	2015	57		
	(Lake Sugema)		2016	61		
			2017	60	59	2015-2017

(Three Year Averages Greater Than 70 ppb Indicate Non-Attainment with the NAAQS)

* Design Value is calculated from the Slater and Sheldahl sites

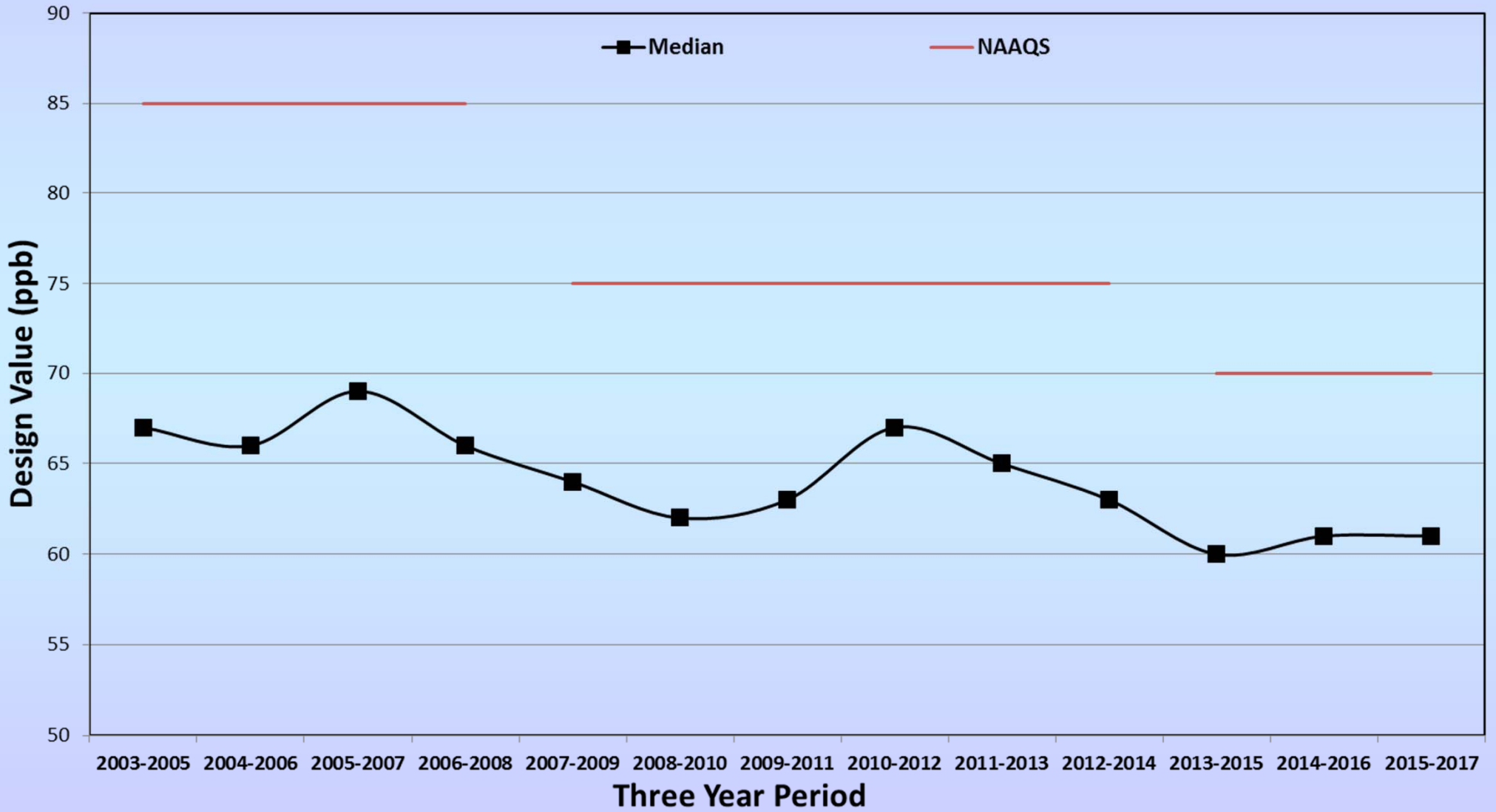
**Values considered preliminary until data is certified in May 2018.

Iowa Ozone Design Values Chart: 2015-2017



* Design Value is calculated from the Slater and Sheldahl sites

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/>