

Iowa Ozone Monitoring Locations and Design Values for Ozone 2019-2021

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).

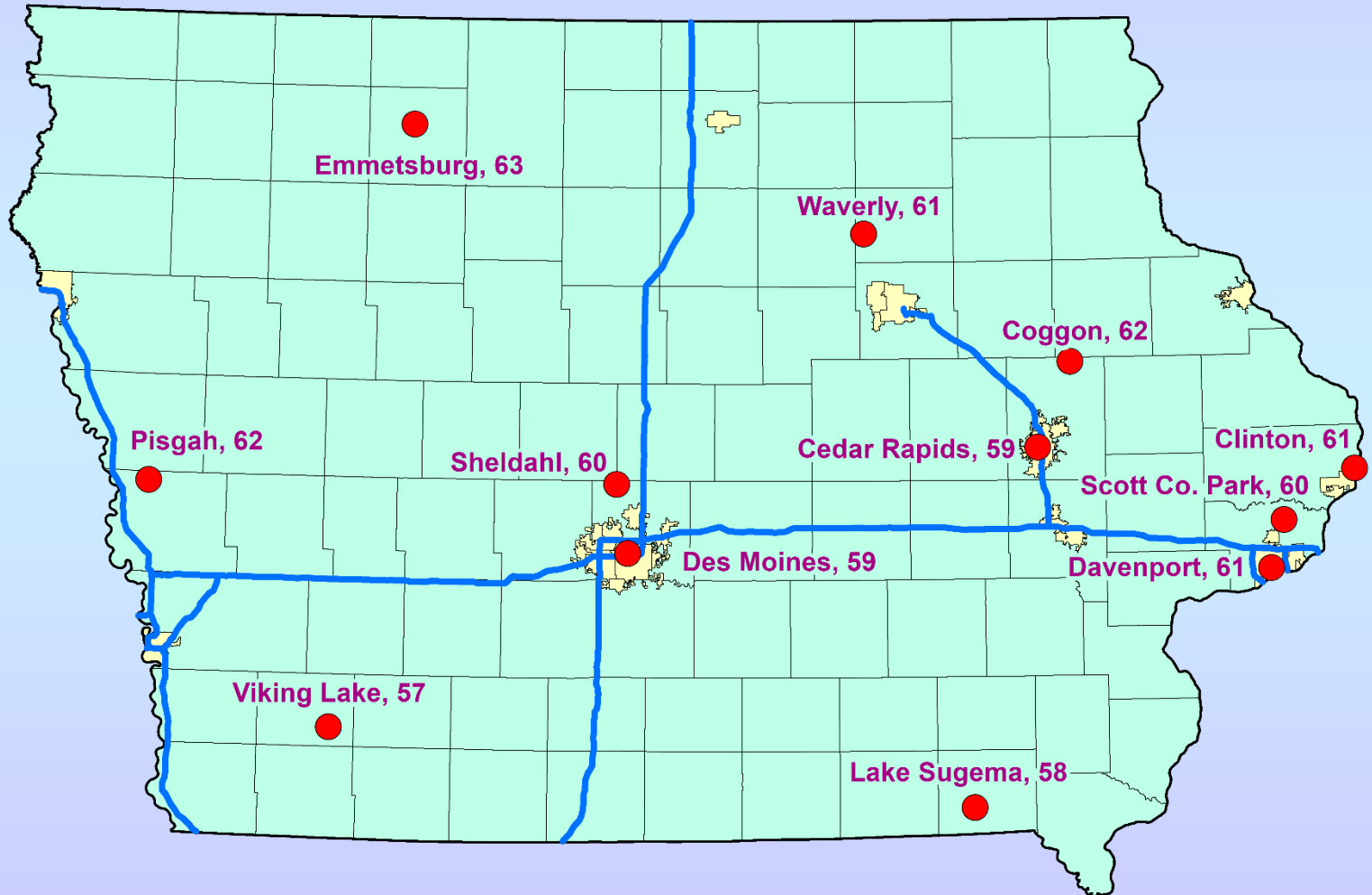
Iowa ozone monitor location and information is detailed on the following pages. The EPA design value for 8-hour ozone is equal to the average of the 4th highest annual daily maximum 8-hour value for the most recent three years. EPA promulgated new lower ozone standards on October 1, 2015 and retained that standard in 2020. 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: [Ozone National Ambient Air Quality Standards.](#)

Iowa Ozone Monitors (2021)

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
19-113-0033	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

Iowa Ozone Design Values: 2019-2021

Values in ppb, values greater than 70 exceed the standard



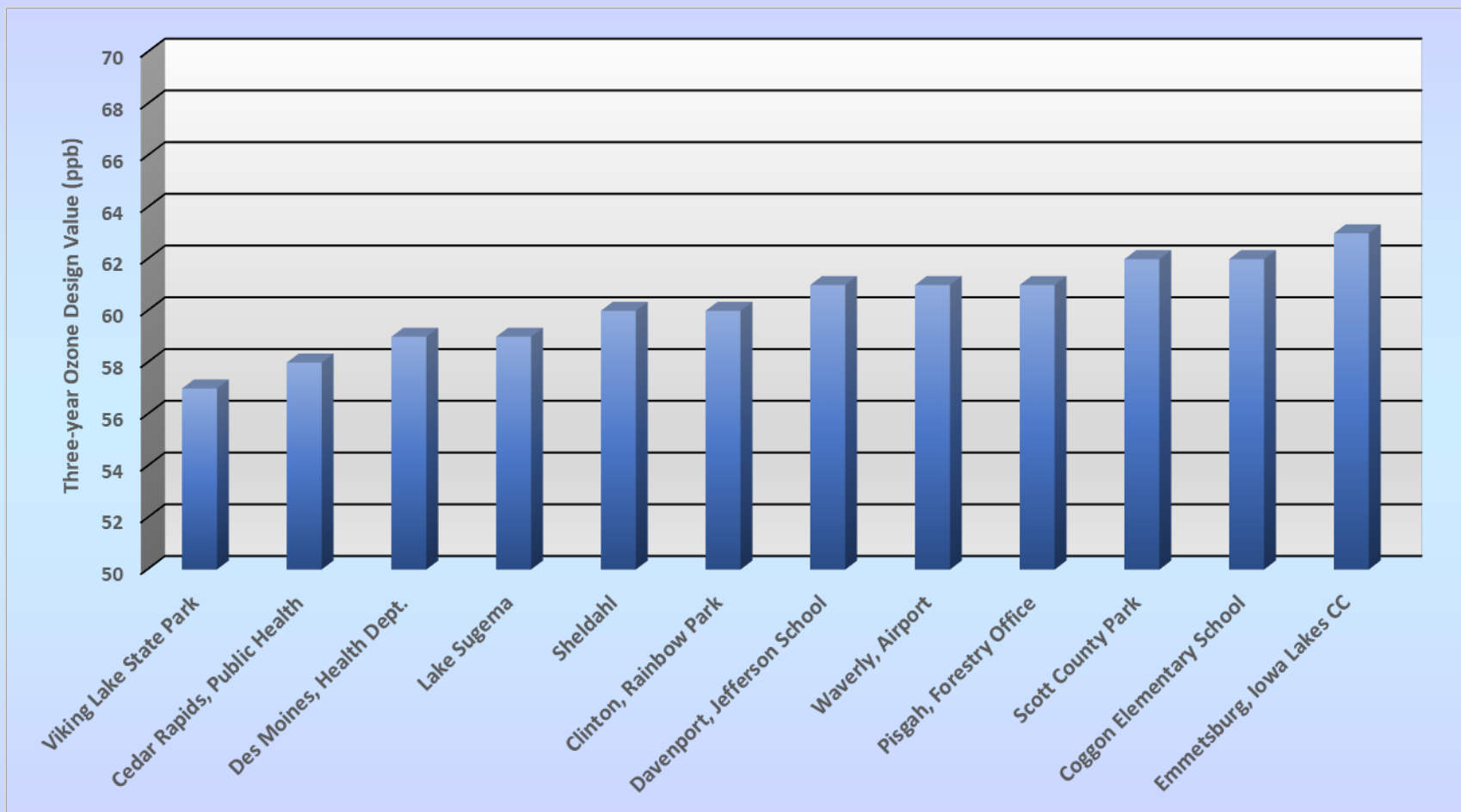
Iowa Ozone Design Values 2021**

Iowa Ozone Design Values 2021**						
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	2019	61		
			2020	60		
			2021	64	61	2019-2021
Clinton	Clinton	19-045-0021	2019	58		
			2020	62		
			2021	64	61	2019-2021
Harrison	Pisgah	19-085-0007	2019	62		
			2020	61		
			2021	63	62	2019-2021
Linn	Coggon	19-113-0033	2019	58		
			2020	64		
			2021	64	62	2019-2021
Linn	Cedar Rapids	19-113-0040	2019	56		
			2020	59		
			2021	63	59	2019-2021
Montgomery	Red Oak	19-137-0002	2019	59		
	(Viking Lake)		2020	56		
			2021	58	57	2019-2021

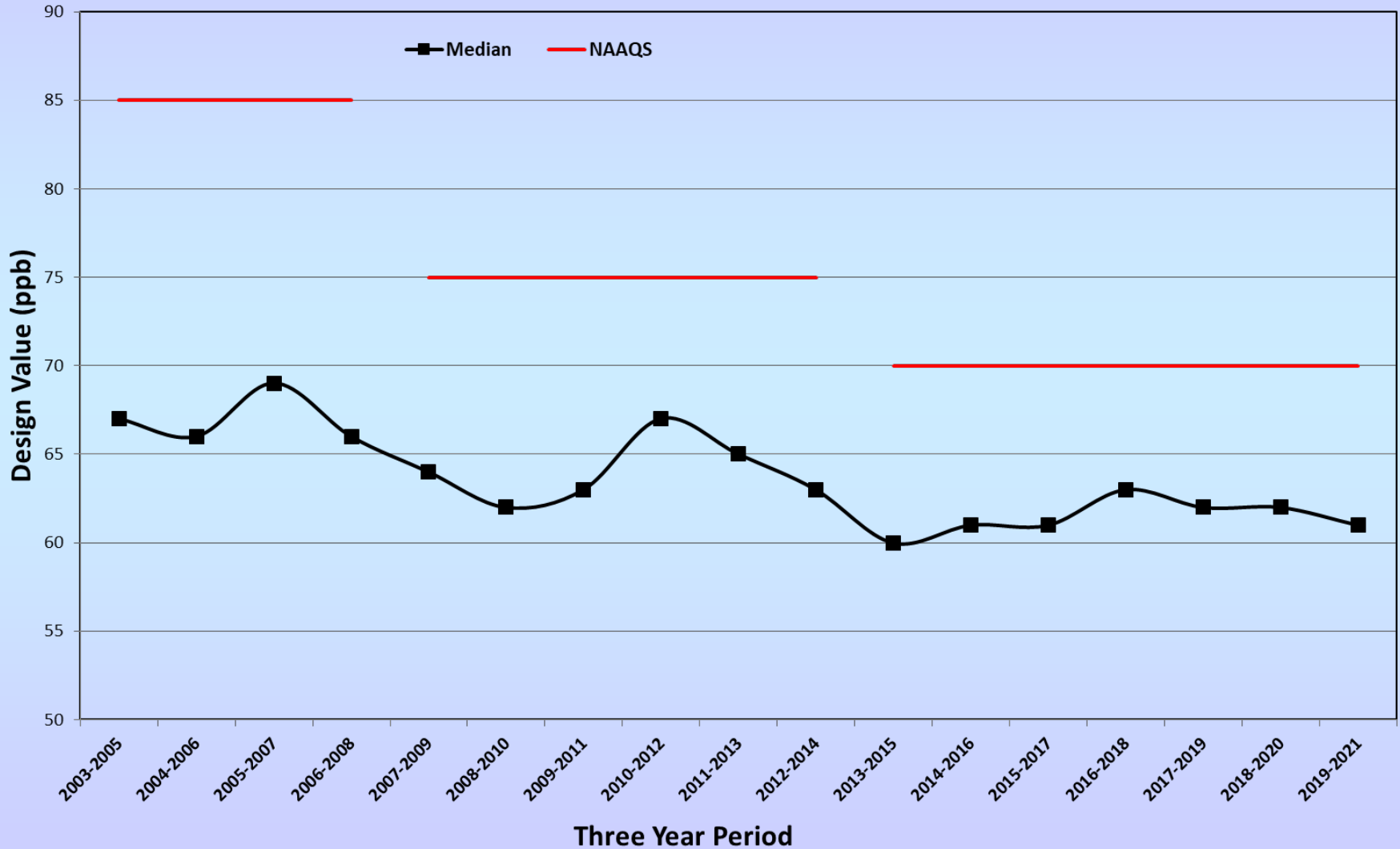
Iowa Ozone Design Values 2021** Continued

Iowa Ozone Design Values 2021 **(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	2019	65		
			2020	62		
			2021	64	63	2019-2021
Polk	Des Moines	19-153-0030	2019	59		
			2020	57		
			2021	61	59	2019-2021
Polk	Sheldahl	19-153-1579	2019	63		
			2020	56		
			2021	61	60	2019-2021
Scott	Davenport	19-163-0014	2019	58		
			2020	60		
			2021	62	60	2019-2021
Scott	Davenport	19-163-0015	2019	61		
			2020	61		
			2021	63	61	2019-2021
Van Buren	Keosauqua (Lake Sugema)	19-177-0006	2019	61		
			2020	57		
			2021	57	58	2019-2021
(Three Year Averages Greater Than 70 ppb Indicate Non-Attainment with the NAAQS)						
**Values considered preliminary until data is certified in May 2022.						

Iowa Ozone Design Values Chart: 2019-2021



Median Ozone Design Values in Iowa Ozone Monitoring Network



Web Resources

Iowa Real-time Data Reporting :

In Polk County:

<https://www.polkcountyiowa.gov/public-works/air-quality/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:

<https://www.epa.gov/air-trends>

Real-time Ozone and Particulate Maps:

<https://airnow.gov/>

Historical Air Pollution Data for Iowa and Other States:

<https://www.epa.gov/outdoor-air-quality-data>