

Iowa Ozone Monitoring Locations and Design Values for Ozone 2020-2022

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).

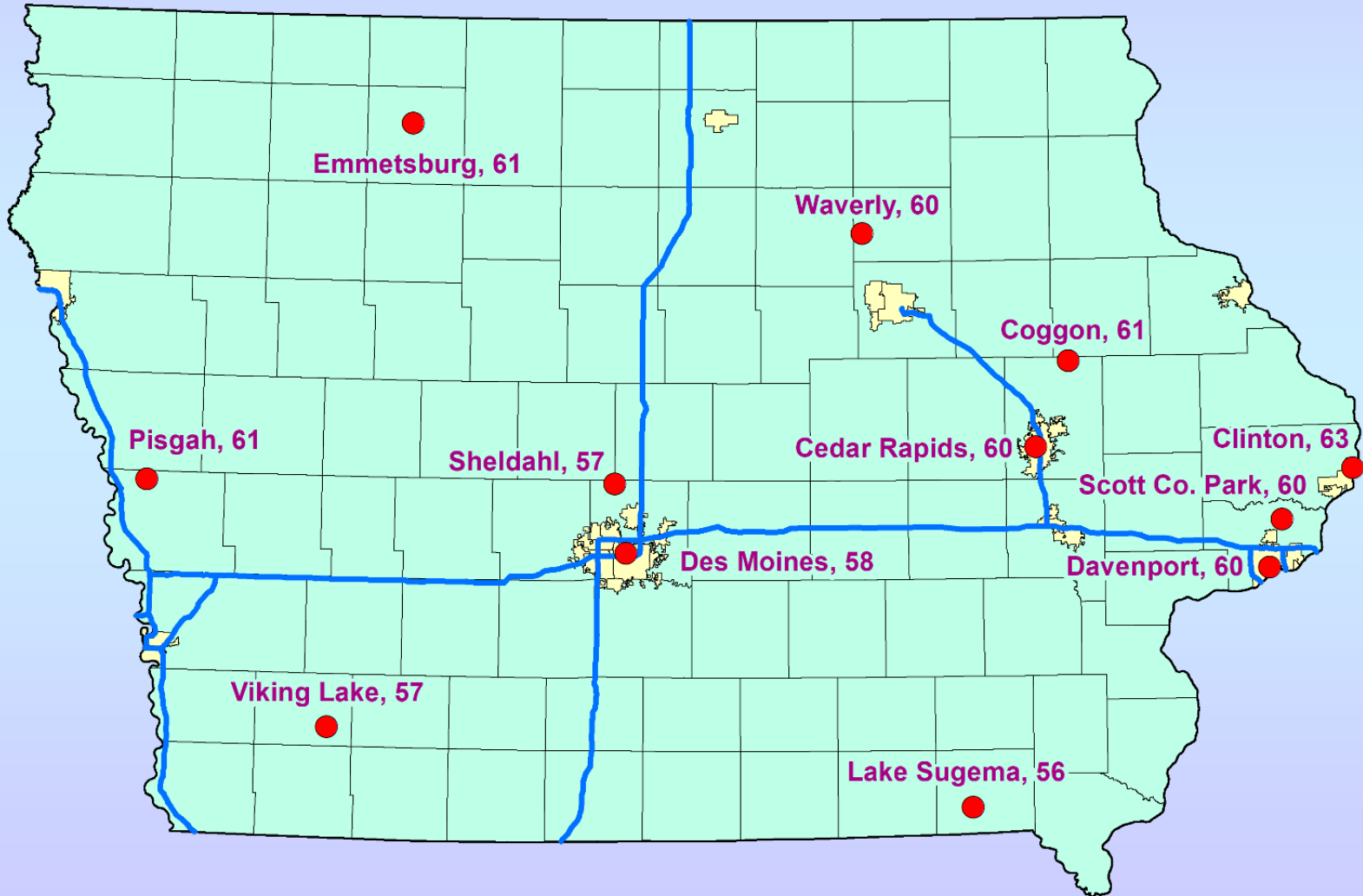
Iowa ozone monitor location and information is detailed on the following pages. The EPA design value for 8-hour ozone is equal to the average of the 4th highest annual daily maximum 8-hour value for the most recent three years. EPA promulgated new lower ozone standards on October 1, 2015 and retained 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 (2022)

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: 2020-2022

Values in ppb, values greater than 70 exceed the standard



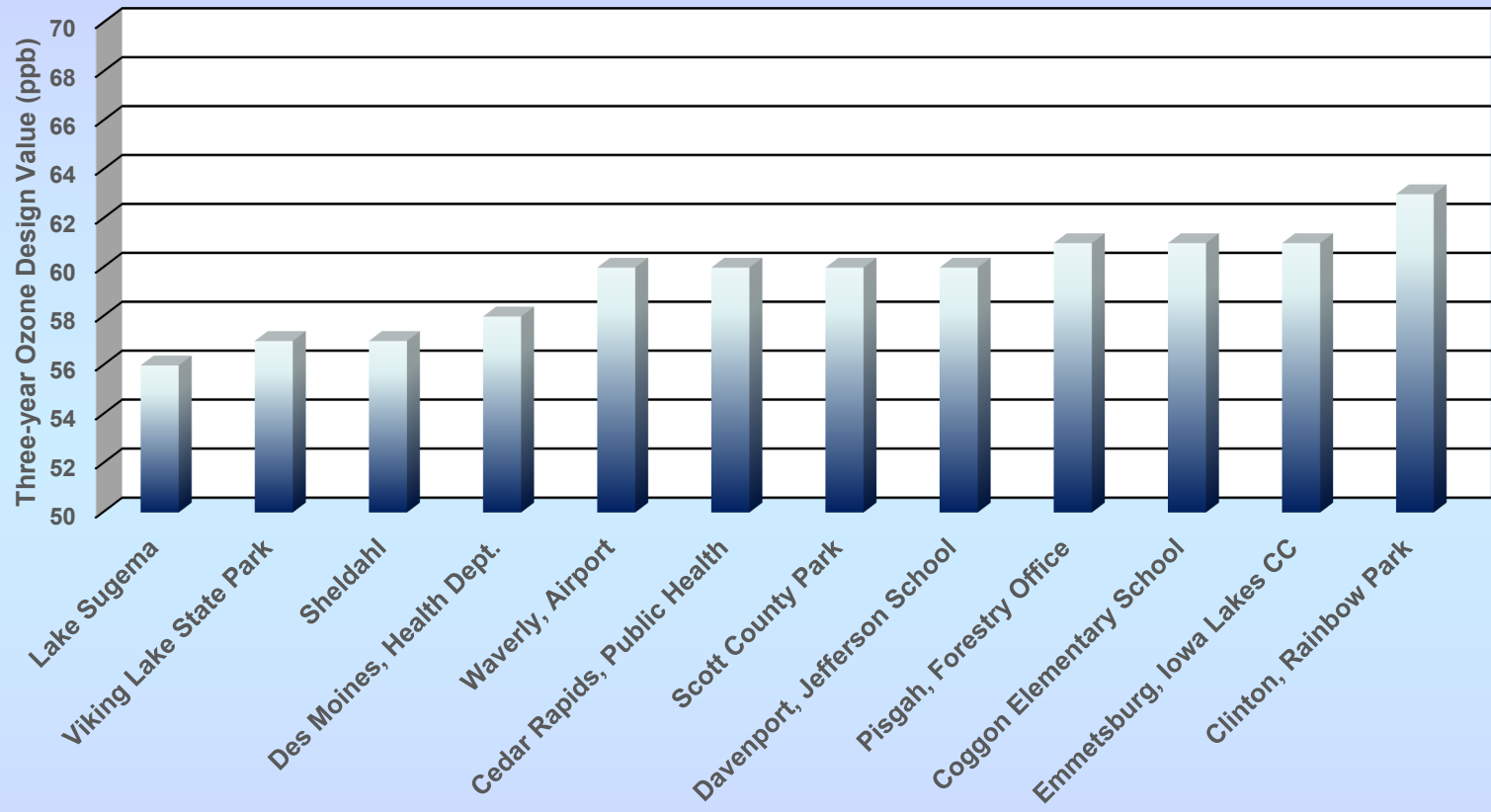
Iowa Ozone Design Values 2022**

Iowa Ozone Design Values 2022**						
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	2020	60	60	2020-2022
			2021	64		
			2022	56		
Clinton	Clinton	19-045-0021	2020	62	63	2020-2022
			2021	64		
			2022	63		
Harrison	Pisgah	19-085-0007	2020	61	61	2020-2022
			2021	63		
			2022	60		
Linn	Coggon	19-113-0033	2020	64	61	2020-2022
			2021	64		
			2022	56		
Linn	Cedar Rapids	19-113-0040	2020	59	60	2020-2022
			2021	63		
			2022	59		
Montgomery	Red Oak	19-137-0002	2020	56	57	2020-2022
	(Viking Lake)		2021	58		
			2022	57		

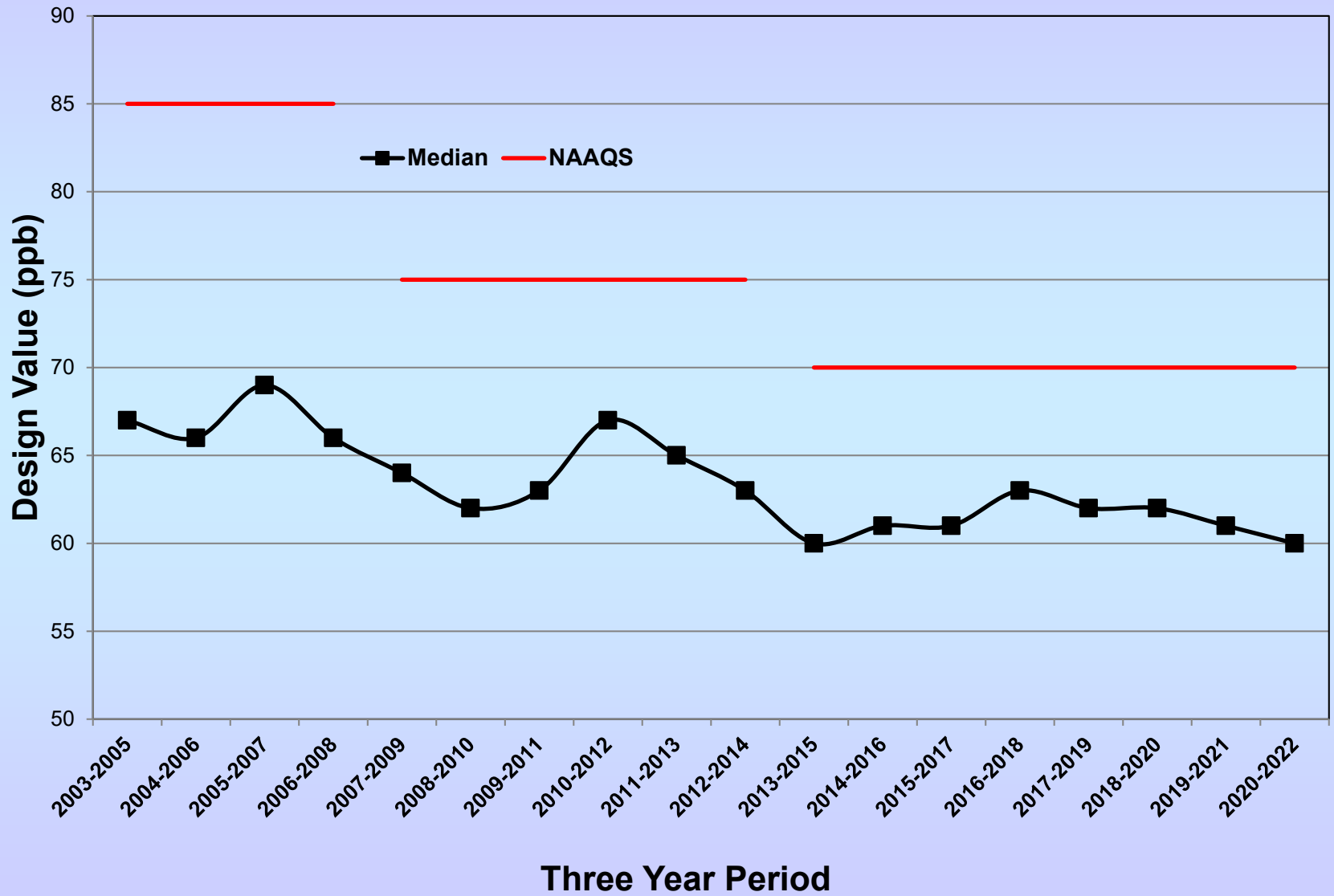
Iowa Ozone Design Values 2022** Continued

Iowa Ozone Design Values 2022 **(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	2020	62		
			2021	64		
			2022	59	61	2020-2022
Polk	Des Moines	19-153-0030	2020	57		
			2021	61		
			2022	57	58	2020-2022
Polk	Sheldahl	19-153-1579	2020	56		
			2021	61		
			2022	55	57	2020-2022
Scott	Davenport	19-163-0014	2020	60		
			2021	62		
			2022	60	60	2020-2022
Scott	Davenport	19-163-0015	2020	61		
			2021	63		
			2022	58	60	2020-2022
Van Buren	Keosauqua (Lake Sugema)	19-177-0006	2020	57		
			2021	57		
			2022	54	56	2020-2022
(Three Year Averages Greater Than 70 ppb Indicate Non-Attainment with the NAAQS)						
**Values considered preliminary until data is certified in May 2023.						

Iowa Ozone Design Values Chart: 2020-2022



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>