

# Iowa Ozone Monitoring Locations and Design Values for Ozone 2021-2023

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 that standard is still in effect. 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 ozone standard is available here: [Ozone National Ambient Air Quality Standards.](#)

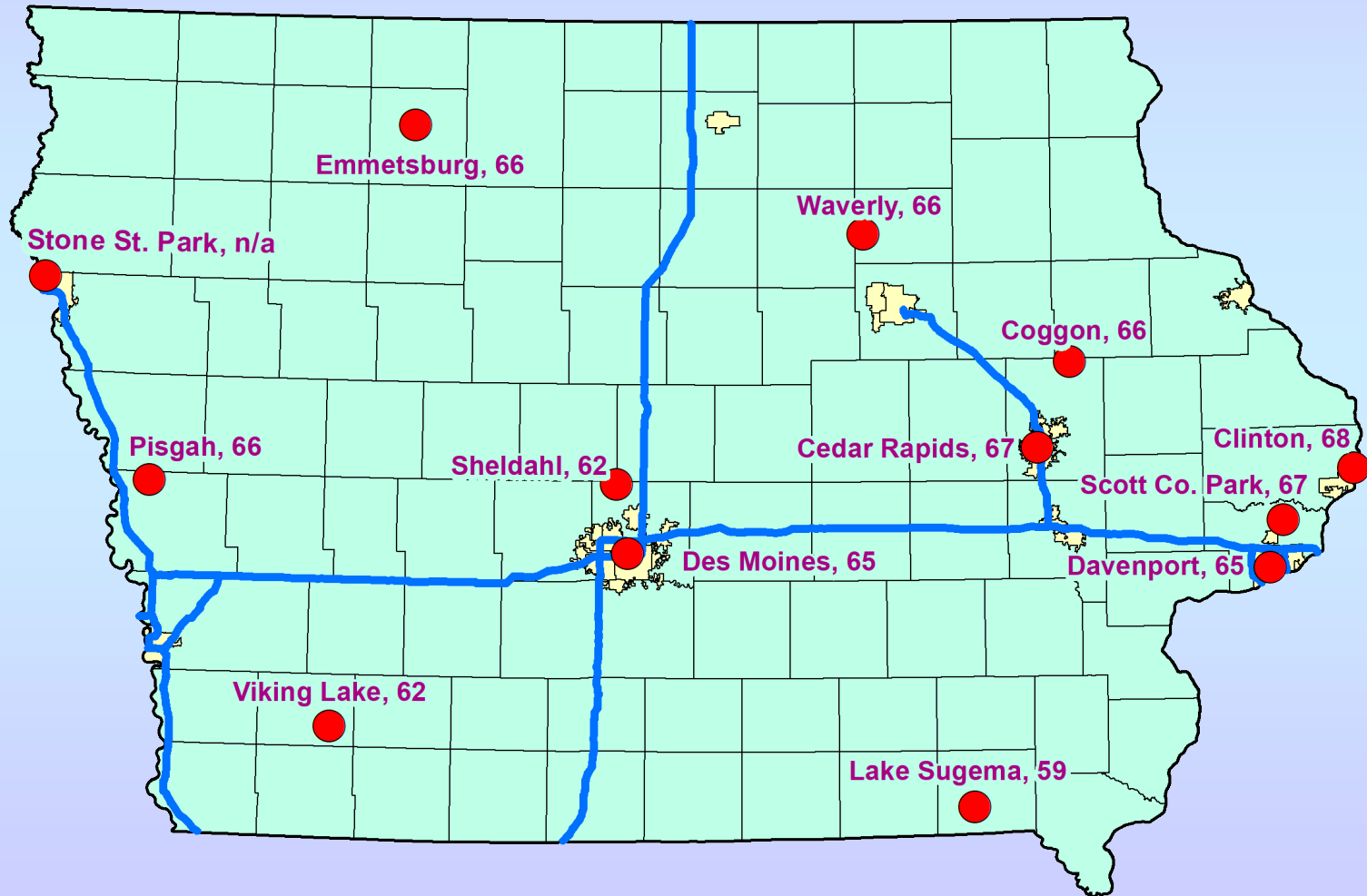
## Iowa Ozone Monitors (2023)

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
19-193-0022	**Stone State Park	Sioux City	Woodbury

\*\* The Stone State Park site will begin sampling in the 2024 ozone season.

# Iowa Ozone Design Values: 2021-2023

Values in ppb, values greater than 70 exceed the standard



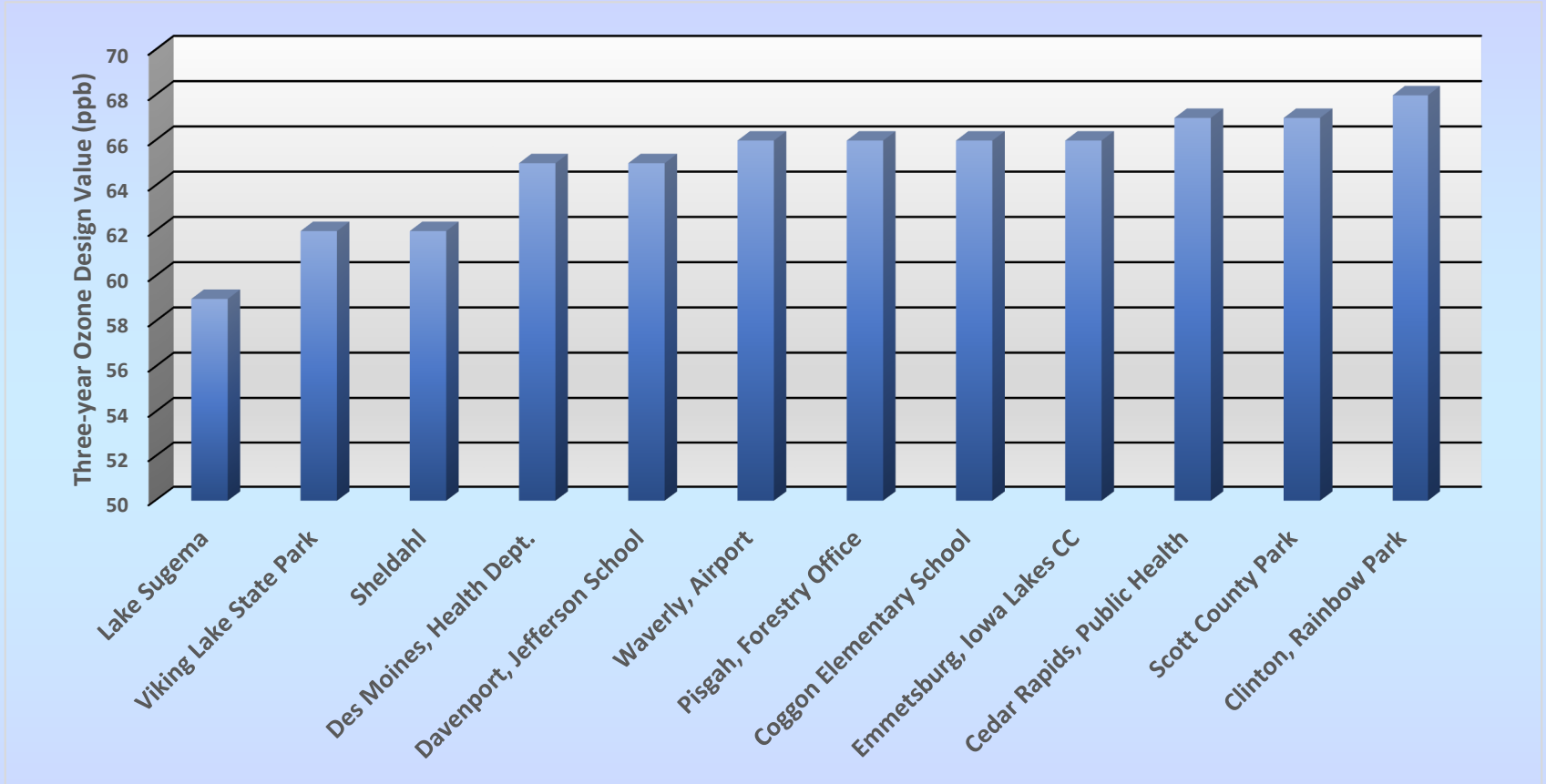
# Iowa Ozone Design Values 2023\*\*

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	2021	64	66	2021-2023
			2022	56		
			2023	78		
Clinton	Clinton	19-045-0021	2021	64	68	2021-2023
			2022	63		
			2023	78		
Harrison	Pisgah	19-085-0007	2021	63	66	2021-2023
			2022	60		
			2023	77		
Linn	Coggon	19-113-0033	2021	64	66	2021-2023
			2022	56		
			2023	78		
Linn	Cedar Rapids	19-113-0040	2021	63	67	2021-2023
			2022	59		
			2023	80		
Montgomery	Red Oak (Viking Lake)	19-137-0002	2021	58	62	2021-2023
			2022	57		
			2023	72		

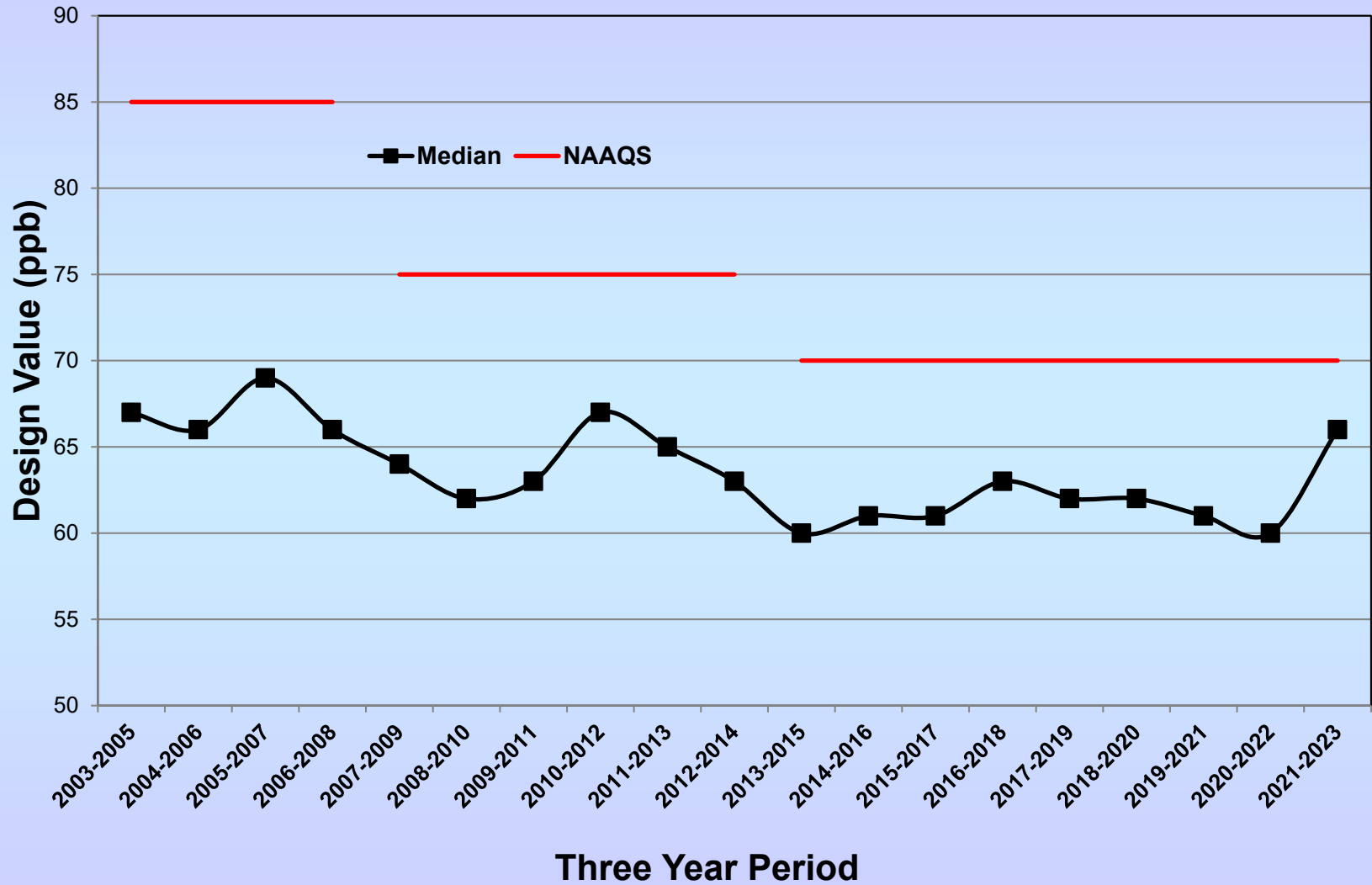
# Iowa Ozone Design Values 2023\*\* Continued

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	2021	64		
			2022	59		
			2023	75	66	2021-2023
Polk	Des Moines	19-153-0030	2021	61		
			2022	57		
			2023	77	65	2021-2023
Polk	Sheldahl	19-153-1579	2021	61		
			2022	55		
			2023	72	62	2021-2023
Scott	Davenport	19-163-0014	2021	62		
			2022	60		
			2023	80	67	2021-2023
Scott	Davenport	19-163-0015	2021	63		
			2022	58		
			2023	76	65	2021-2023
Van Buren	Keosauqua (Lake Sugema)	19-177-0006	2021	57		
			2022	54		
			2023	68	59	2021-2023
(Three Year Averages Greater Than 70 ppb Indicate Non-Attainment with the NAAQS)						
**Values considered preliminary until EPA verifies the statistics in summer, 2024						

# Iowa Ozone Design Values Chart: 2021-2023



# 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:***

<https://www.linncountyiowa.gov/1431/Ambient-Air-Monitoring>

### ***Outside Polk and Linn Counties:***

<https://www.shl.uiowa.edu/env/ambient/data.xml>

### ***Design Values for All Pollutants Nationwide:***

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

### ***Real-time Ozone and Particulate Maps:***

<https://www.airnow.gov/>

### **Historical Air Pollution Data for Iowa and Other States:**

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