

# Iowa Monitoring Locations and Design Values for Sulfur Dioxide 2022-2024

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).

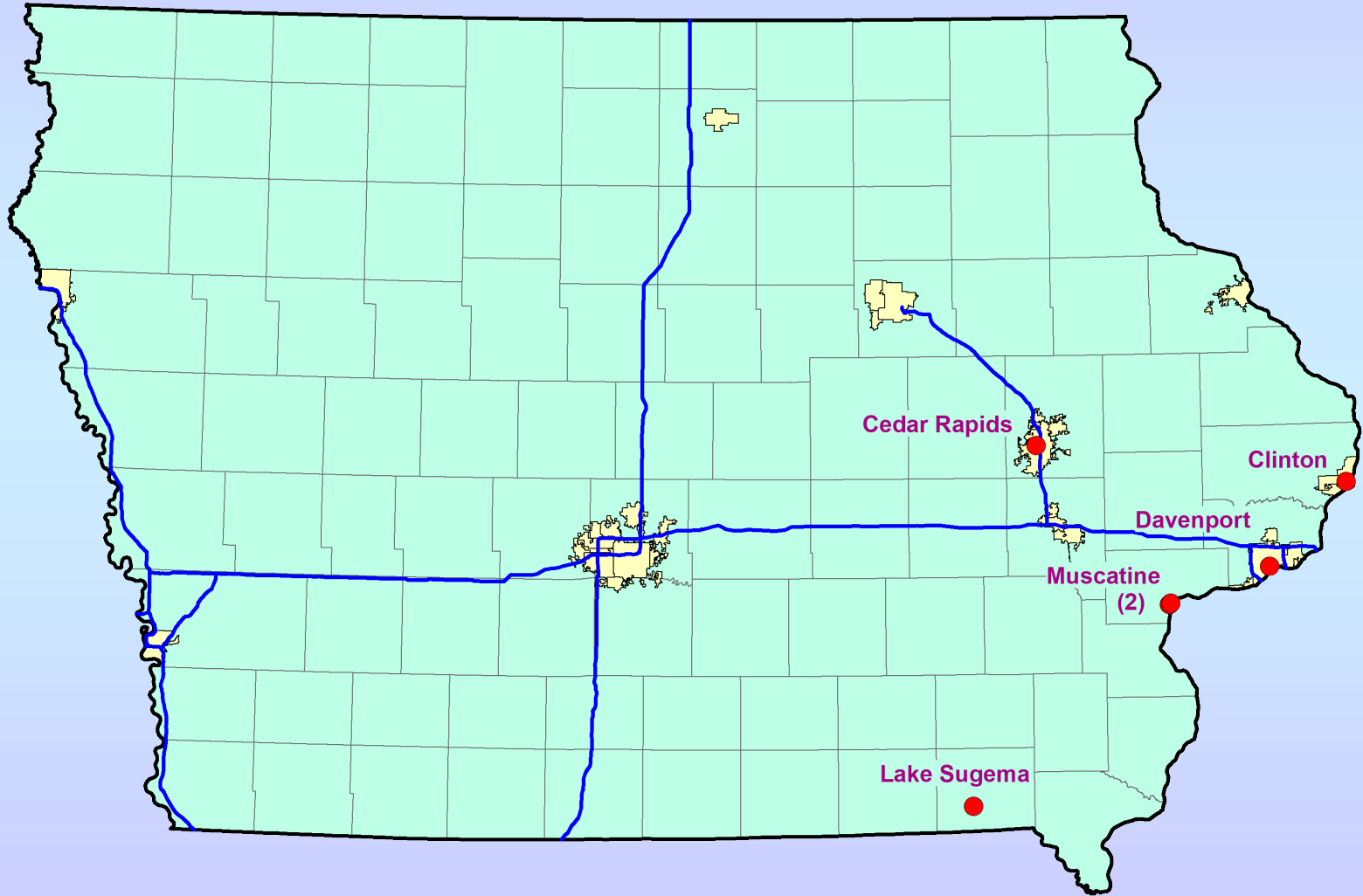
Iowa sulfur dioxide (SO<sub>2</sub>) monitor location and information is detailed on the following pages. The EPA design value for 1-hour SO<sub>2</sub> is equal to the average of the annual 99th percentile daily maximum 1-hour value for the most recent three years. The EPA revised the SO<sub>2</sub> NAAQS in June of 2010. A monitoring site must have a design value less than 76 parts per billion to be considered "in attainment" with the SO<sub>2</sub> NAAQS.

The EPA added a secondary annual SO<sub>2</sub> standard in 2024. This standard is the annual arithmetic mean of values for each year averaged over a three-year period. The secondary standard is 10 parts per billion. Additional information on the revised SO<sub>2</sub> standards are available here: <https://www.epa.gov/so2-pollution>

## Iowa Sulfur Dioxide Monitoring Sites 2024

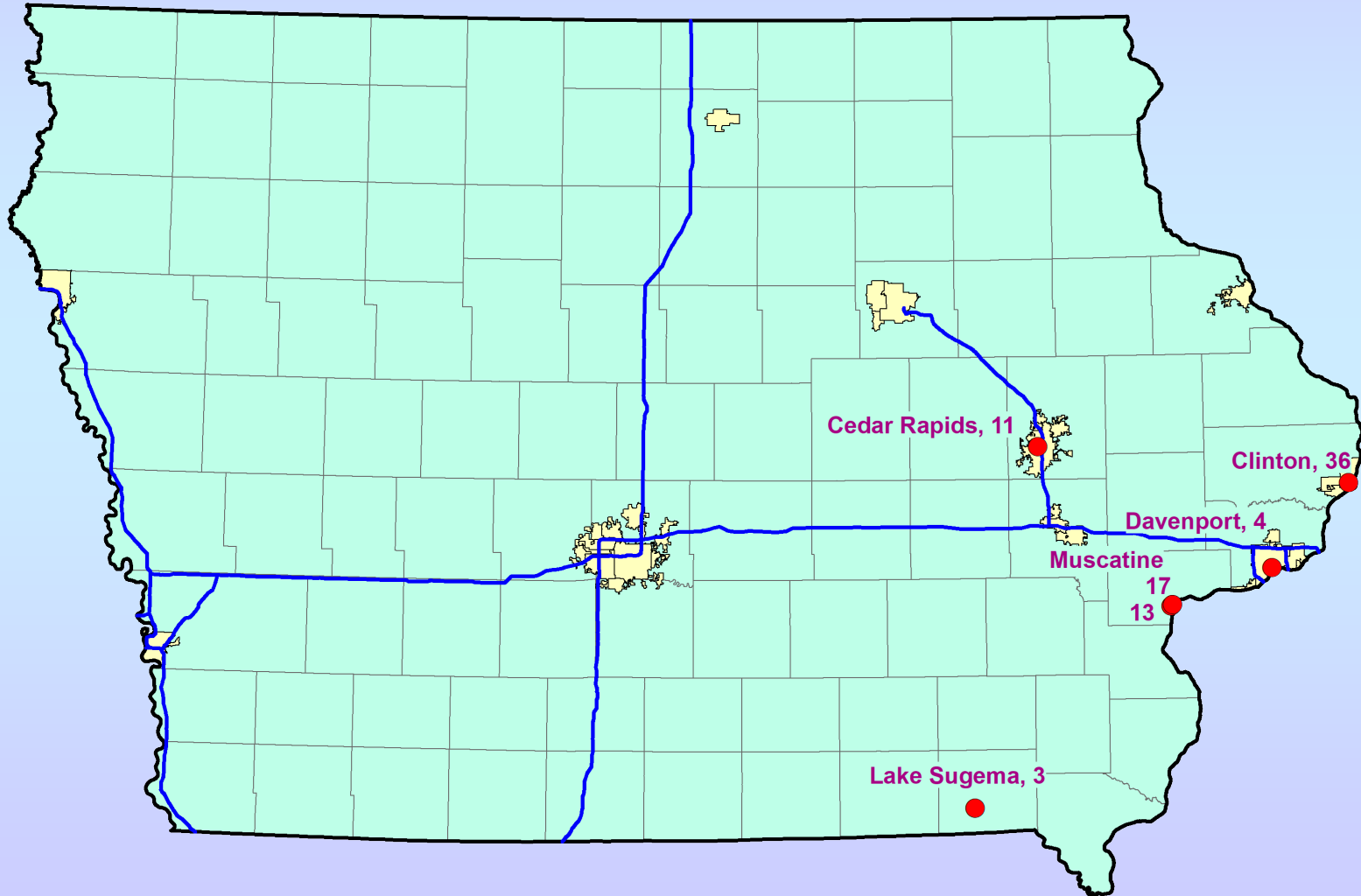
<b>AQS Site ID</b>	<b>Site Name</b>	<b>Location</b>	<b>County</b>
19-045-0019	Chancy Park	Clinton	Clinton
19-113-0040	Public Health	Cedar Rapids	Linn
19-139-0019	High School East Campus	Muscatine	Muscatine
19-139-0020	Musser Park	Muscatine	Muscatine
19-163-0015	Jefferson School	Davenport	Scott
19-177-0006	Lake Sugema	Keosauqua	Van Buren

# Iowa SO<sub>2</sub> Monitoring Network 2024



# Iowa SO<sub>2</sub> Design Values: 2024

Concentrations listed in ppb. Values greater than 75 exceed the standard.

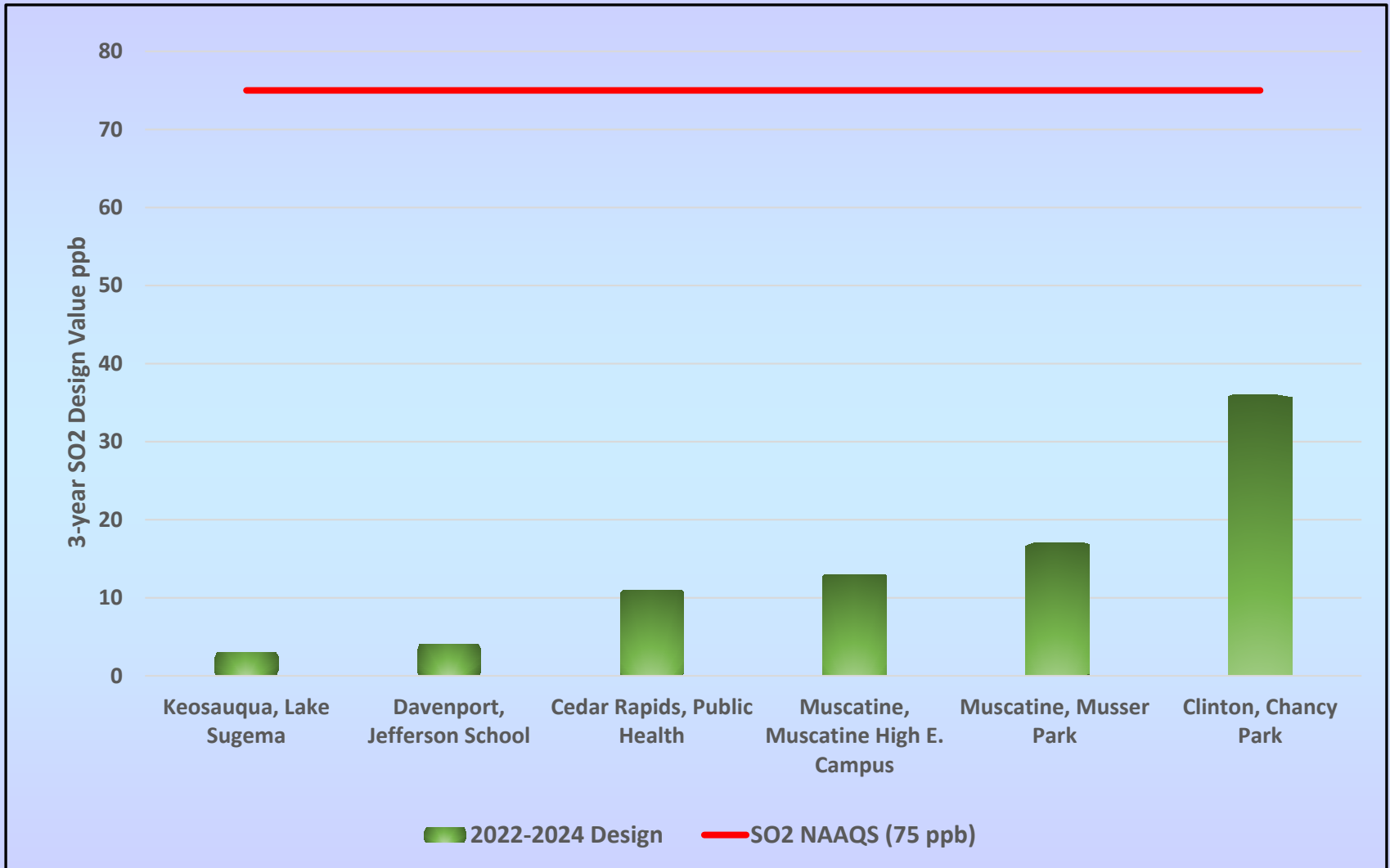


# Iowa Sulfur Dioxide Design Values 2024

County	City	EPA Site ID	Annual Average Design Value	Hourly Design Value 3-year Average of 99th Percentile (ppb)	Years Averaged
Clinton	Clinton	19-045-0019	3	36	2022-2024
Linn	Cedar Rapids	19-113-0040	1	11	2022-2024
Muscatine	Muscatine	19-139-0019	1	13	2022-2024
Muscatine	Muscatine	19-139-0020	1	17	2022-2024
Scott	Davenport	19-163-0015	0	4	2022-2024
Van Buren	Keosauqua	19-177-0006	0	3	2022-2024

Three year averages greater than 75 ppb indicate non-attainment with the 1-Hour NAAQS.  
Three-year annual means greater than 10 ppb indicate non-attainment with the secondary annual standard

# Iowa SO<sub>2</sub> Design Values Chart: 2022-2024



# 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://monitoring.linncleanair.org/>

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

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

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

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

### ***Trends in Sulfur Dioxide Levels:***

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

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

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