

Iowa Monitoring Locations and Design Values for Sulfur Dioxide 2023-2025

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).

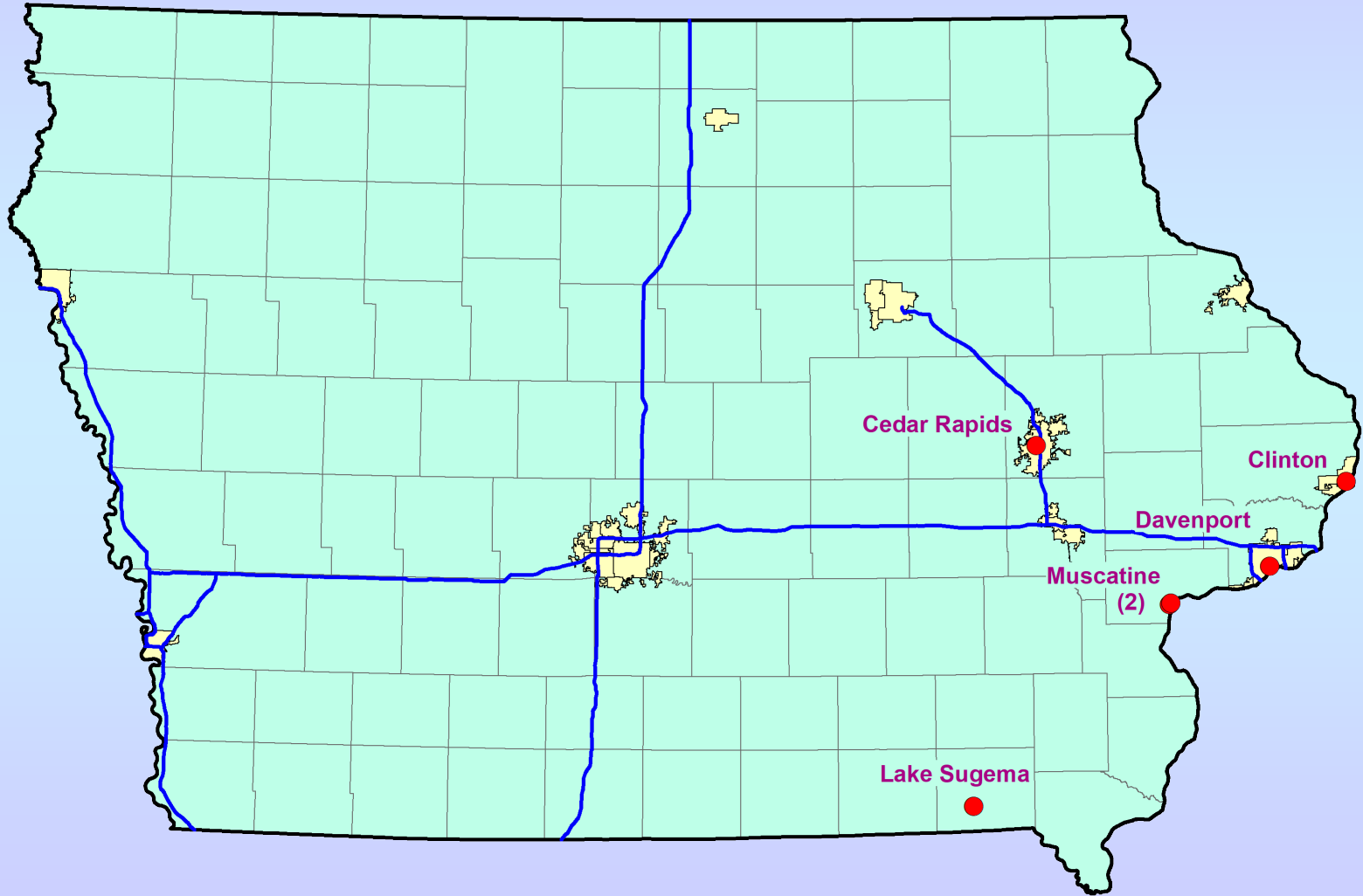
Iowa sulfur dioxide (SO₂) monitor location and information is detailed on the following pages. The EPA design value for 1-hour SO₂ is equal to the average of the annual 99th percentile daily maximum 1-hour value for the most recent three years. The EPA revised the SO₂ NAAQS in June of 2010. A monitoring site must have a design value less than 76 parts per billion to be considered "in attainment" with the SO₂ NAAQS.

The EPA added a secondary annual SO₂ 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 SO₂ standards are available here: <https://www.epa.gov/so2-pollution>

Iowa Sulfur Dioxide Monitoring Sites 2025

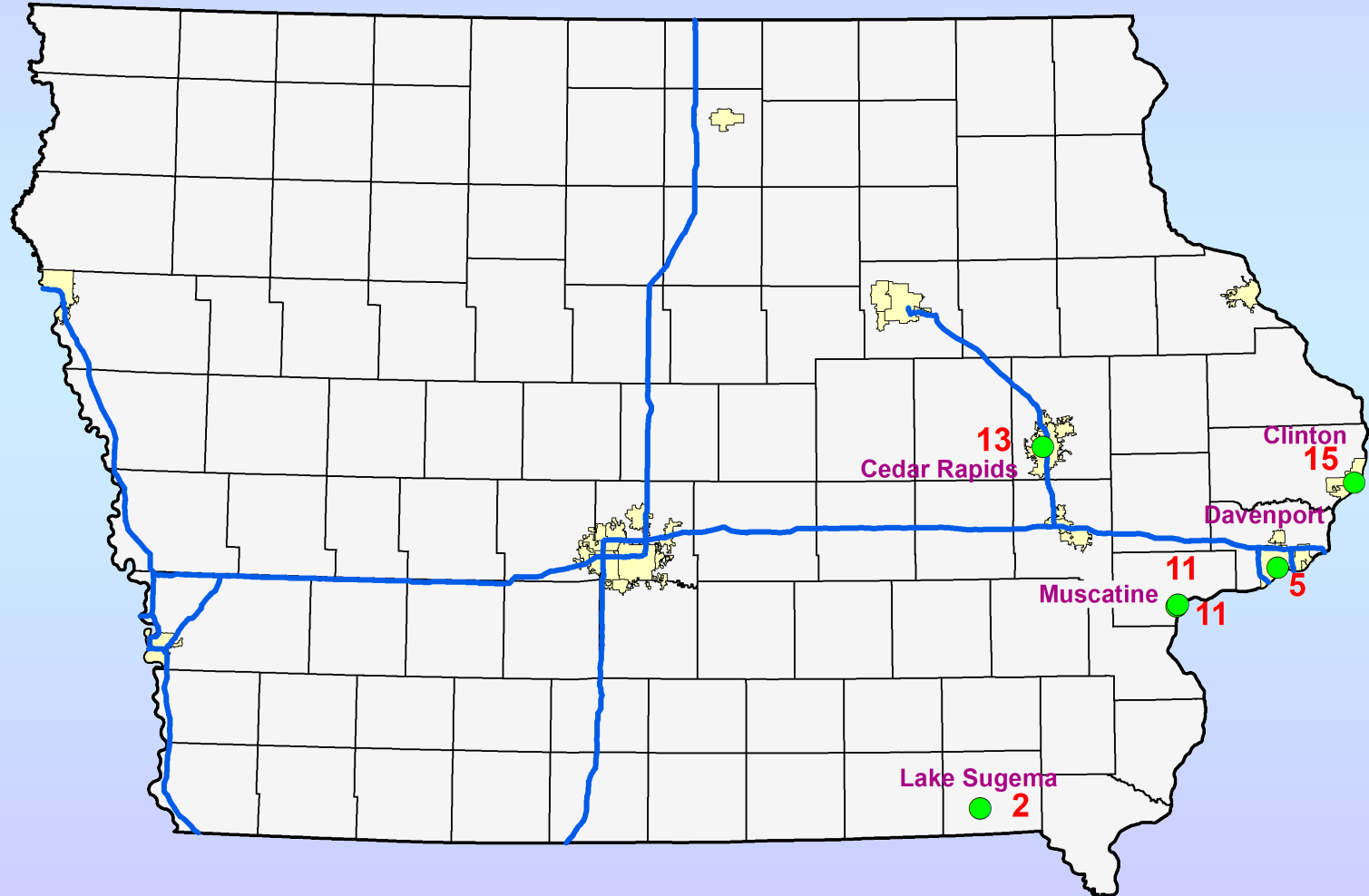
AQS Site ID	Site Name	Location	County
19-045-0019	Chancy Park	Clinton	Clinton
19-113-0040	Public Health	Cedar Rapids	Linn
19-139-0019	High School East Campus	Muscatine	Muscatine
19-139-0020	Musser Park	Muscatine	Muscatine
19-163-0015	Jefferson School	Davenport	Scott
19-177-0006	Lake Sugema	Keosauqua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

Iowa SO₂ Monitoring Network 2025



Iowa SO₂ Design Values: 2025

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

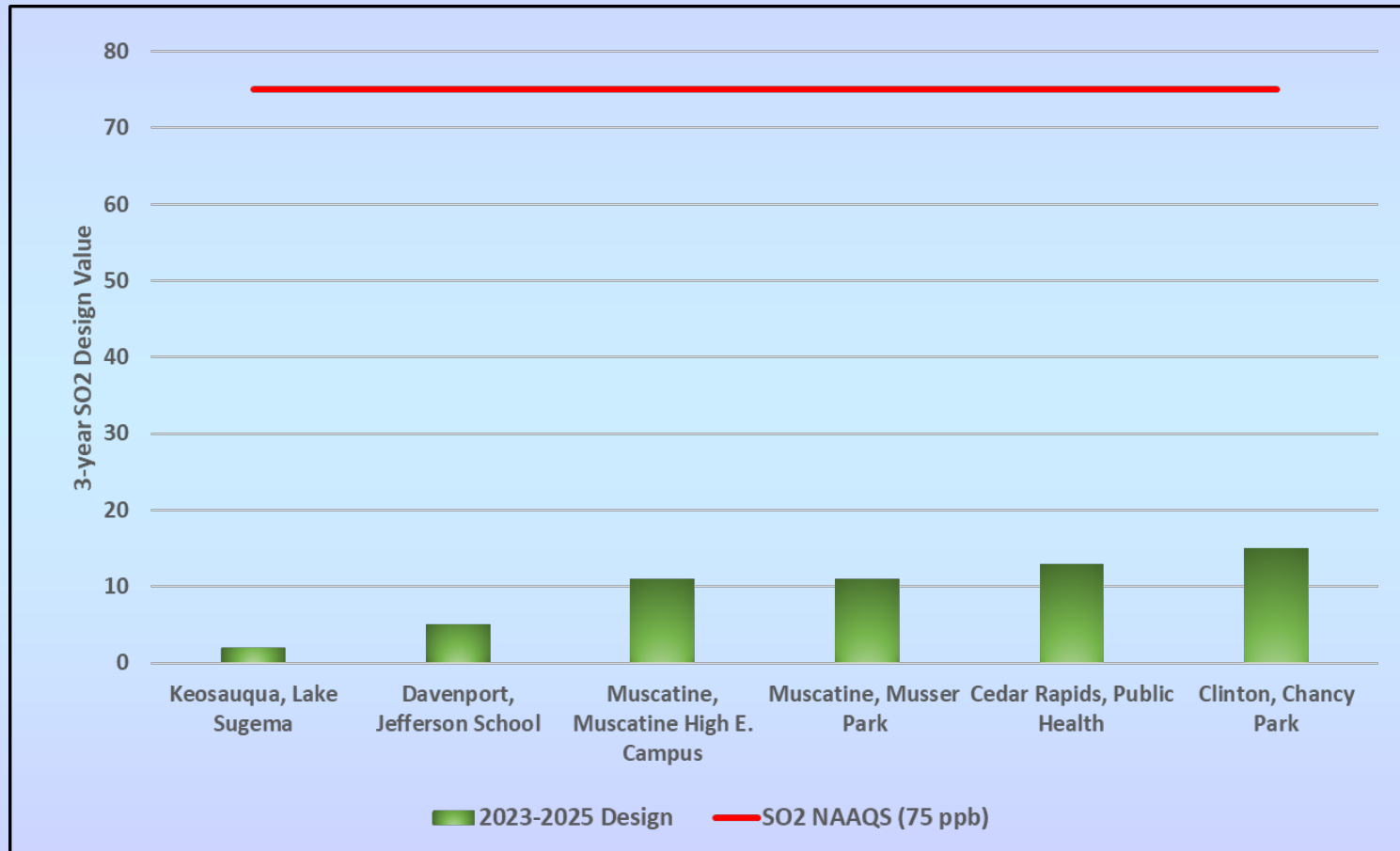


Iowa Sulfur Dioxide Design Values 2025

County	City	EPA Site ID	Design Value		Years Averaged
			Annual Average Design Value	3-year Average of 99th Percentile (ppb)	
Clinton	Clinton	19-045-0019	1	15	2023-2025
Linn	Cedar Rapids	19-113-0040	0	13	2023-2025
Muscatine	Muscatine	19-139-0019	0	11	2023-2025
Muscatine	Muscatine	19-139-0020	0	11	2023-2025
Scott	Davenport	19-163-0015	0	5	2023-2025
Van Buren	Keosauqua	19-177-0006	0	2	2023-2025

Three year averages of 99th percentiles greater than 75 ppb indicate non-attainment with the 1-Hour NAAQS.
Three-year averages of annual means greater than 10 ppb indicate non-attainment with the secondary annual standard

Iowa SO₂ Design Values Chart: 2023-2025



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>