

Iowa Monitoring Locations and Design Values for Sulfur Dioxide 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 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. Additional information on the revised SO₂ standard is available here: <https://www.epa.gov/so2-pollution>

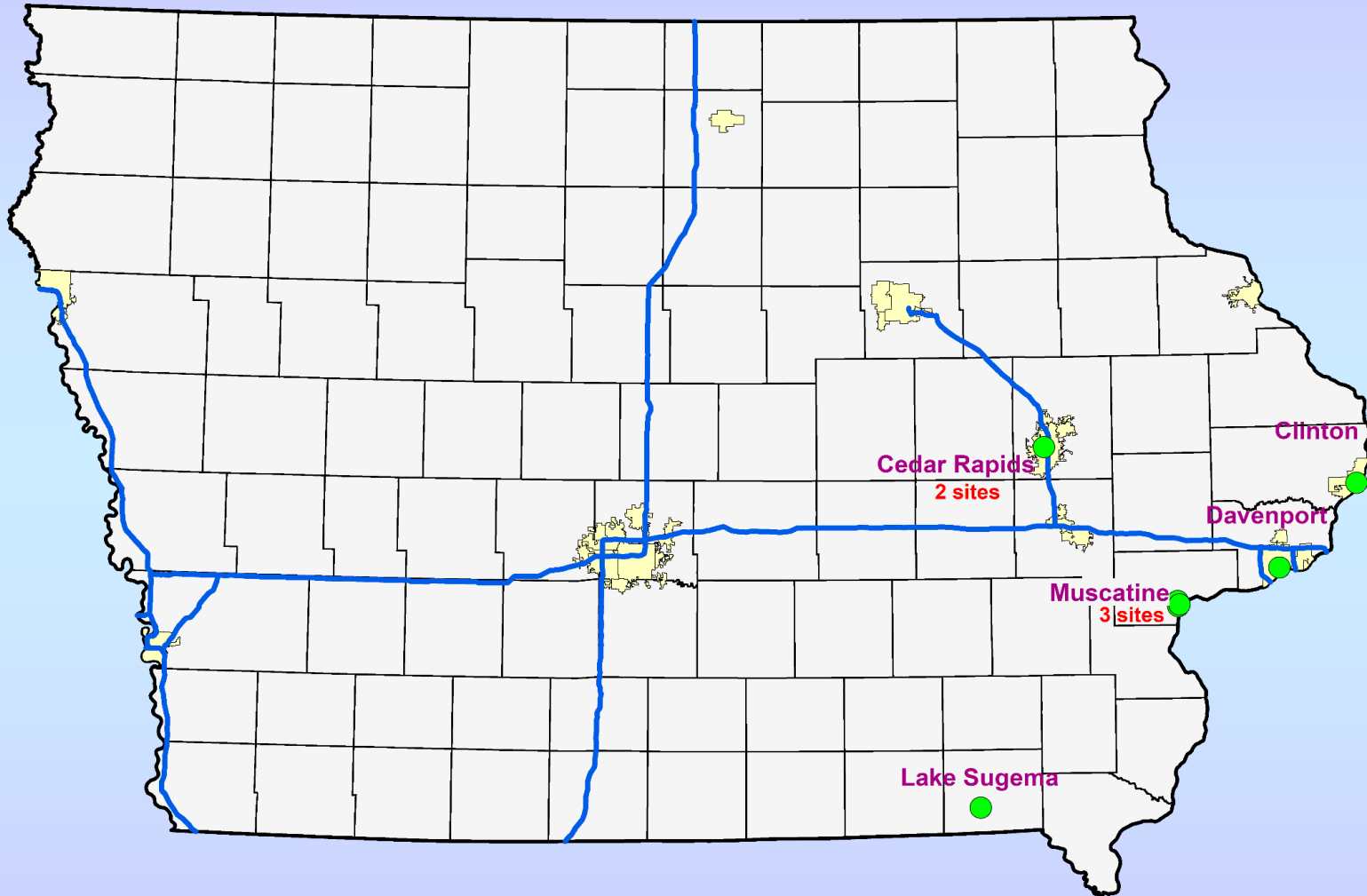
Iowa Sulfur Dioxide Monitoring Sites 2023

AQS Site ID	Site Name	Location	County
19-045-0019	Chancy Park	Clinton	Clinton
19-113-0040	Public Health	Cedar Rapids	Linn
19-113-0041	*Tait Cummins Park	Cedar Rapids	Linn
19-139-0016	**Greenwood Cemetery	Muscatine	Muscatine
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

*The Tait Cummins Park SO₂ site was discontinued on 1/1/2023

**The Greenwood Cemetery SO₂ site was discontinued on 7/1/2023

Iowa SO₂ Monitoring Network 2023

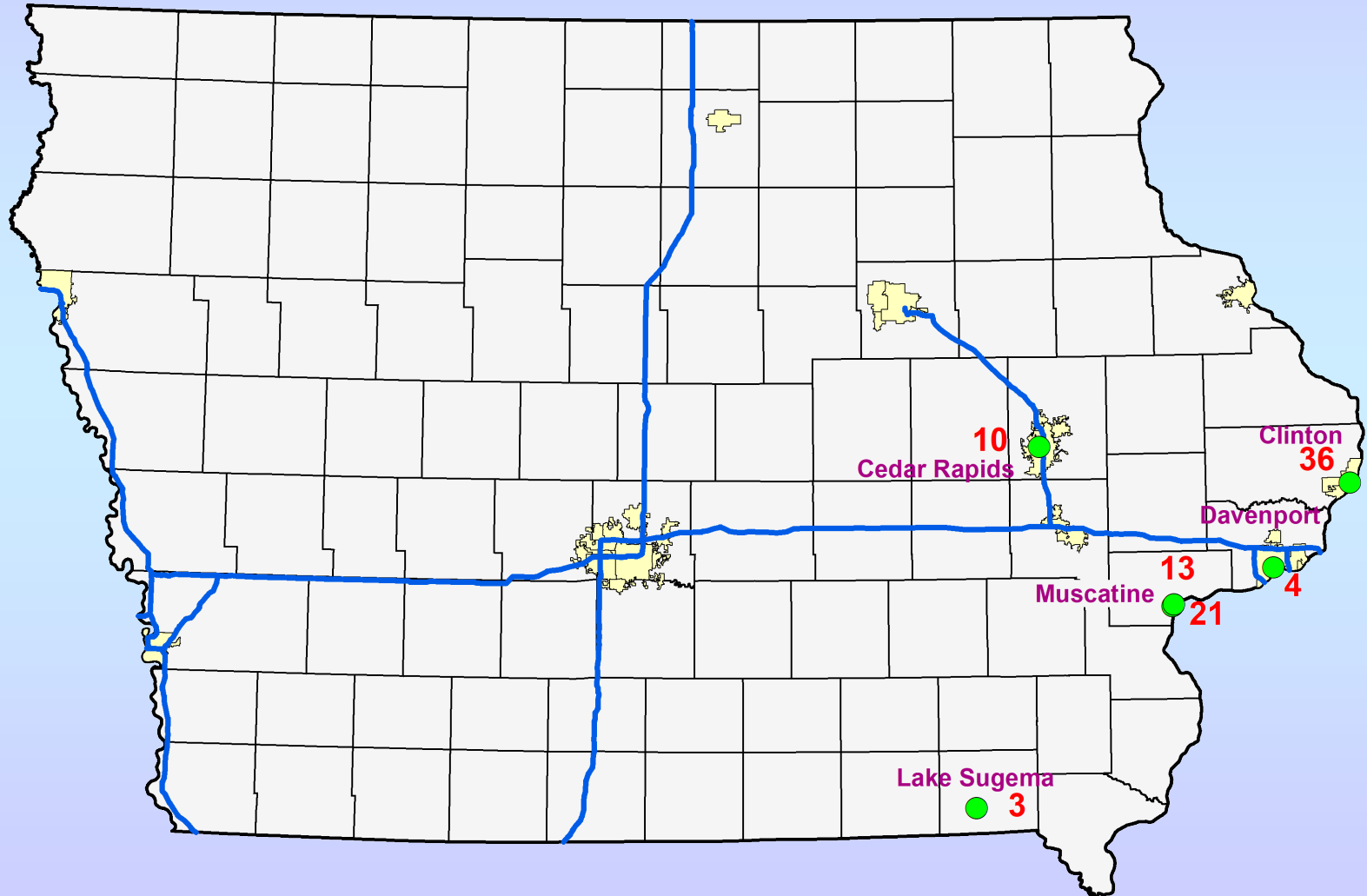


* The Cedar Rapids Tait Cummins Park SO₂ site was discontinued on 1/1/2023

** The Muscatine Greenwood Cemetery SO₂ site was discontinued on 7/1/2023

Iowa SO₂ Design Values: 2023

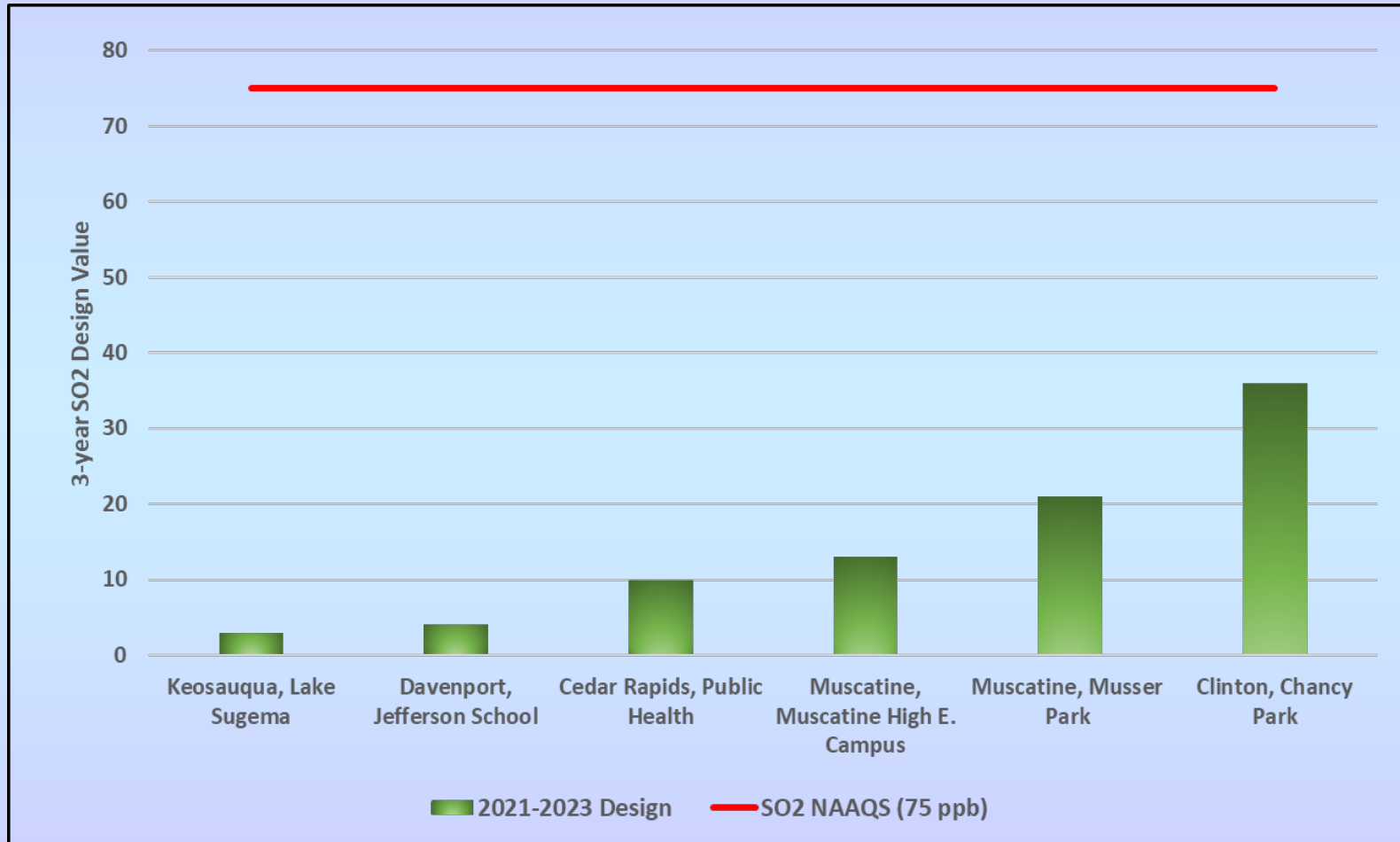
Concentrations listed in ppb. Values greater than 75 exceed the standard.



Iowa Sulfur Dioxide Design Values 2023

County	City	EPA Site ID	Design Value 3-year Average of 99th Percentile (ppb)	Years Averaged
Clinton	Clinton	19-045-0019	36	2021-2023
Linn	Cedar Rapids	19-113-0040	10	2021-2023
Muscatine	Muscatine	19-139-0019	13	2021-2023
Muscatine	Muscatine	19-139-0020	21	2021-2023
Scott	Davenport	19-163-0015	4	2021-2023
Van Buren	Keosauqua	19-177-0006	3	2021-2023
Three year averages greater than 75 ppb indicate non-attainment with the 1-Hour NAAQS.				

Iowa SO₂ Design Values Chart: 2021-2023



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>