

Iowa Monitoring Locations and Design Values for Sulfur Dioxide 2016-2018

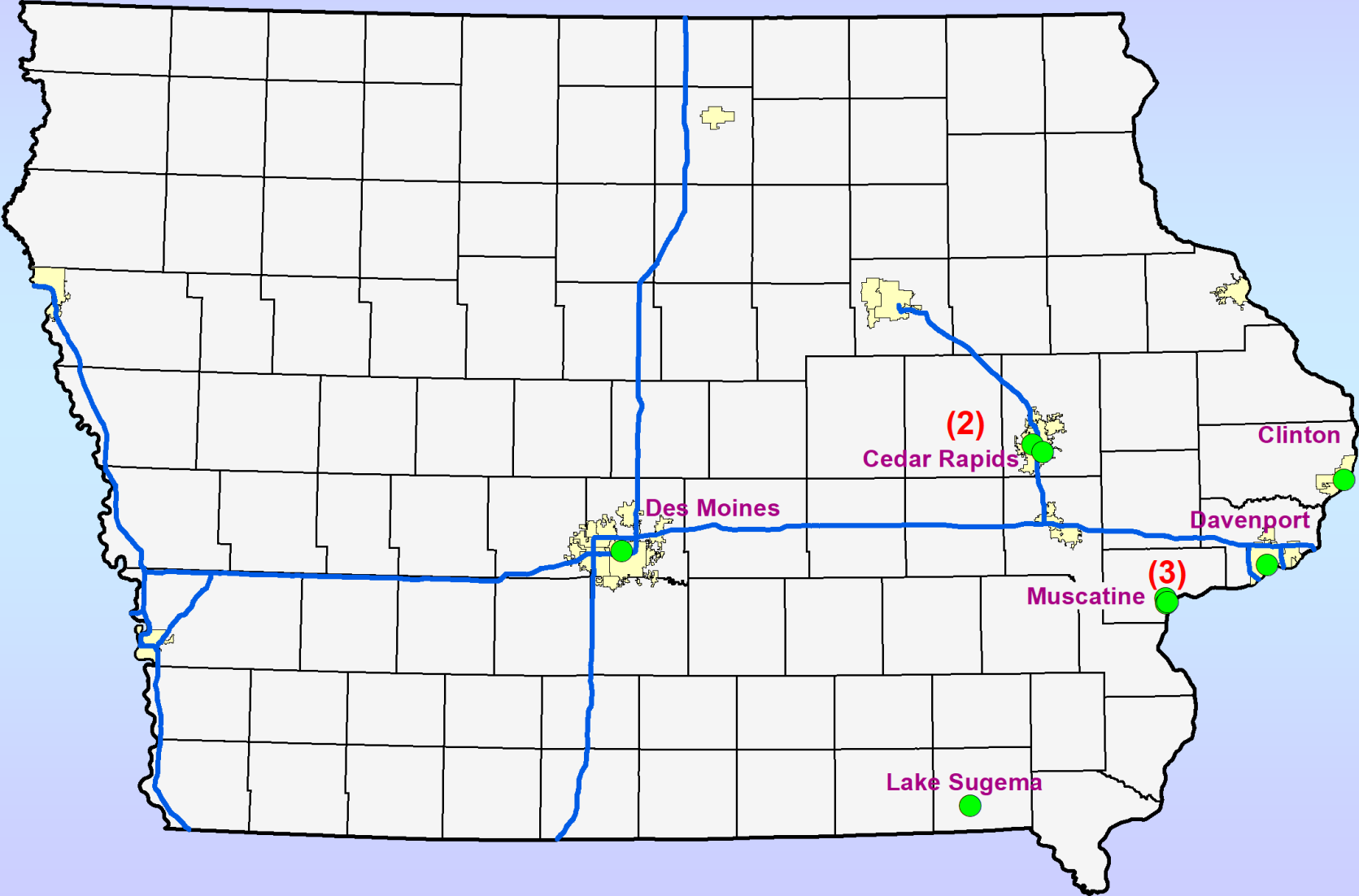
A design value is a tool that can be used to understand pollution levels at a specific location. A design value may be set for any pollutant. The U.S. EPA's official definition is explained this way: "a design value is the mathematically determined pollutant concentration at a particular site that must 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 2018

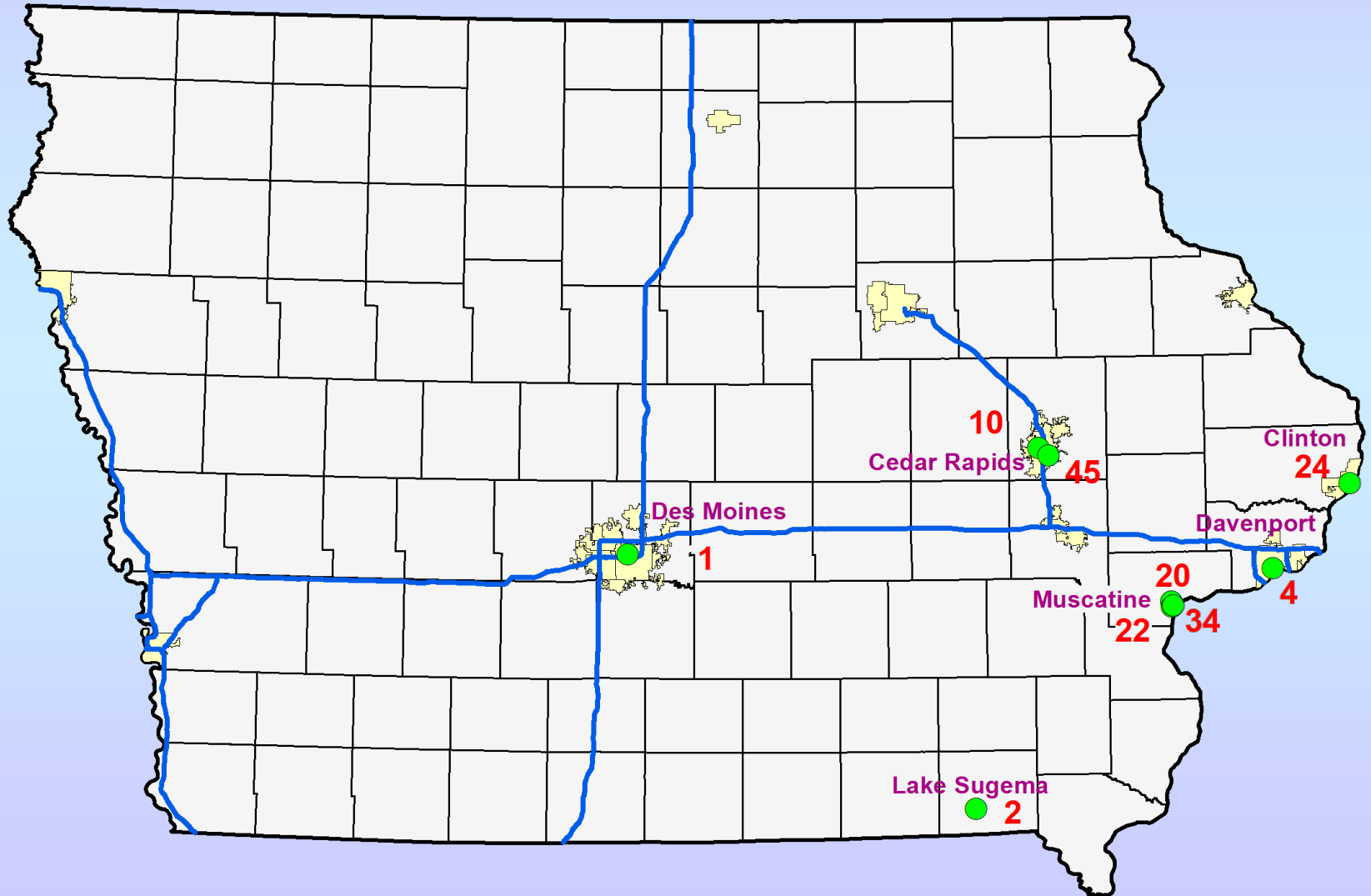
AQS Site ID	Site Name	Location	County
19-045-0019	Chancy Park	Clinton	Clinton
19-113-0040	Public Health	Cedar Rapids	Linn
19-113-0041	Tait Cummins Park	Cedar Rapids	Linn
19-139-0016	Greenwood Cemetery	Muscatine	Muscatine
19-139-0019	High School East Campus	Muscatine	Muscatine
19-139-0020	Musser Park	Muscatine	Muscatine
19-153-0030	Health Department	Des Moines	Polk
19-163-0015	Jefferson School	Davenport	Scott
19-177-0006	Lake Sugema	Keosauqua	Van Buren

Iowa SO₂ Monitoring Network 2018



Iowa SO₂ Design Values: 2016-2018

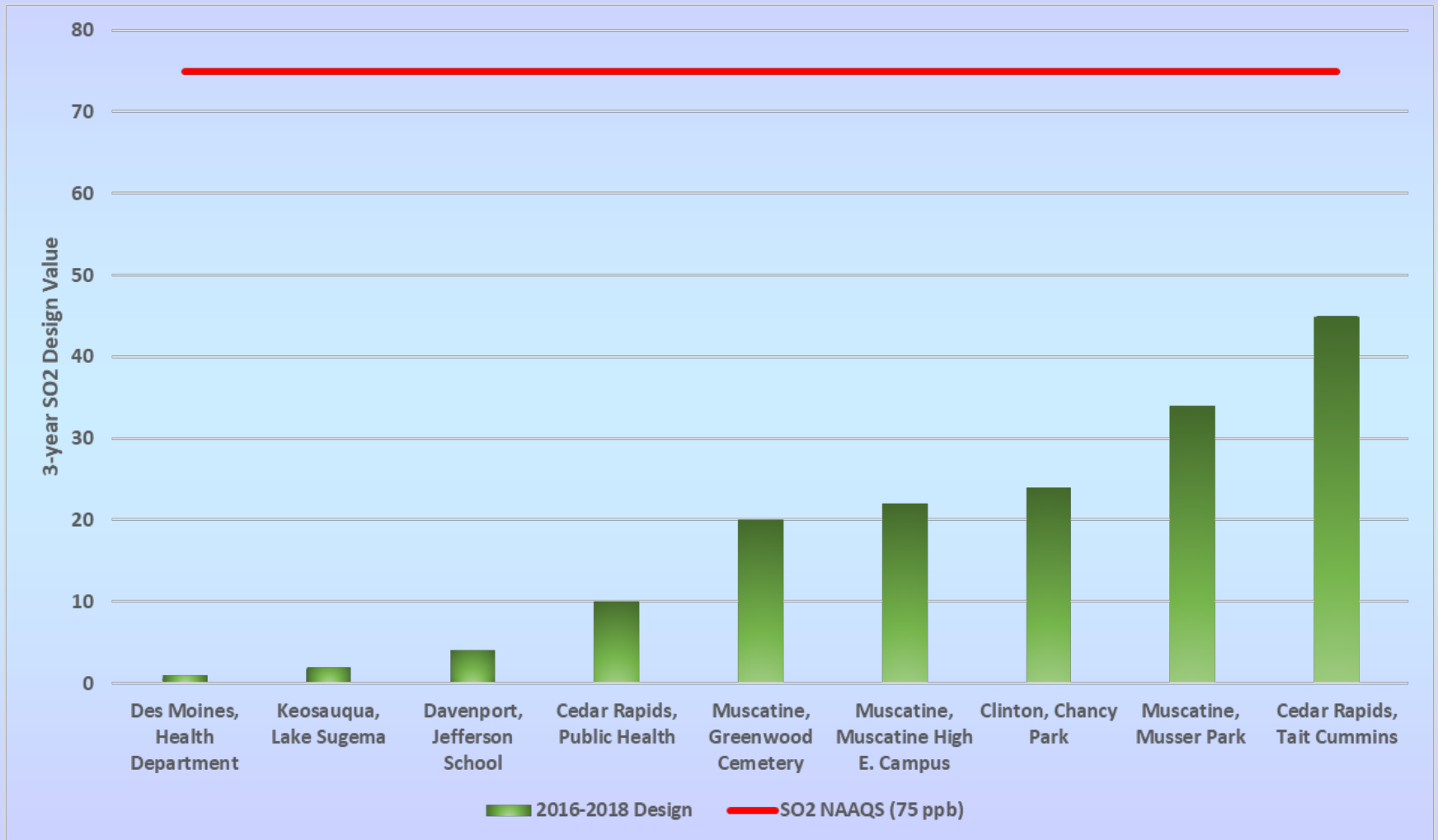
Concentrations listed in ppb. Values greater than 75 exceed the standard.



Iowa Sulfur Dioxide Design Values 2018

County	City	EPA Site ID	Year	99th Percentile Daily Maximum Hourly SO ₂ Concentration (ppb)	3-year Average of 99th Percentile (ppb)	Years Averaged
Clinton	Clinton	19-045-0019	2016	30.6		
			2017	15.9		
			2018	24.6	24	2016-2018
Linn	Cedar Rapids	19-113-0040	2016	11.7		
			2017	7.9		
			2018	10.1	10	2016-2018
Linn	Cedar Rapids	19-113-0041	2016	54.2		
			2017	53.0		
			2018	28.0	45	2016-2018
Muscatine	Muscatine	19-139-0016	2016	24.4		
			2017	20.1		
			2018	15.1	20	2016-2018
Muscatine	Muscatine	19-139-0019	2016	29.6		
			2017	20.2		
			2018	16.3	22	2016-2018
Muscatine	Muscatine	19-139-0020	2016	44.5		
			2017	34.5		
			2018	24.0	34	2016-2018
Polk	Des Moines	19-153-0030	2016	0.9		
			2017	0.9		
			2018	1.1	1	2016-2018
Scott	Davenport	19-163-0015	2016	3.7		
			2017	3.7		
			2018	4.5	4	2016-2018
Van Buren	Keosauqua	19-177-0006	2016	1.9		
			2017	4.0		
			2018	1.5**	2	2016-2018
** Data substitution performed due to low data capture						
Three year averages greater than 75 ppb indicate non-attainment with the 1-Hour NAAQS.						
Values are based on preliminary data. Data will be certified in May 2019.						

Iowa SO₂ Design Values Chart: 2016-2018



Web Resources

Iowa Real-time Data Reporting :

In Polk County:

<http://www.polkcountyiowa.gov/airquality/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/index.xml>

Design Values for All Pollutants Nationwide:

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

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>