Iowa Monitoring Locations and Design Values for Sulfur Dioxide 2015-2017

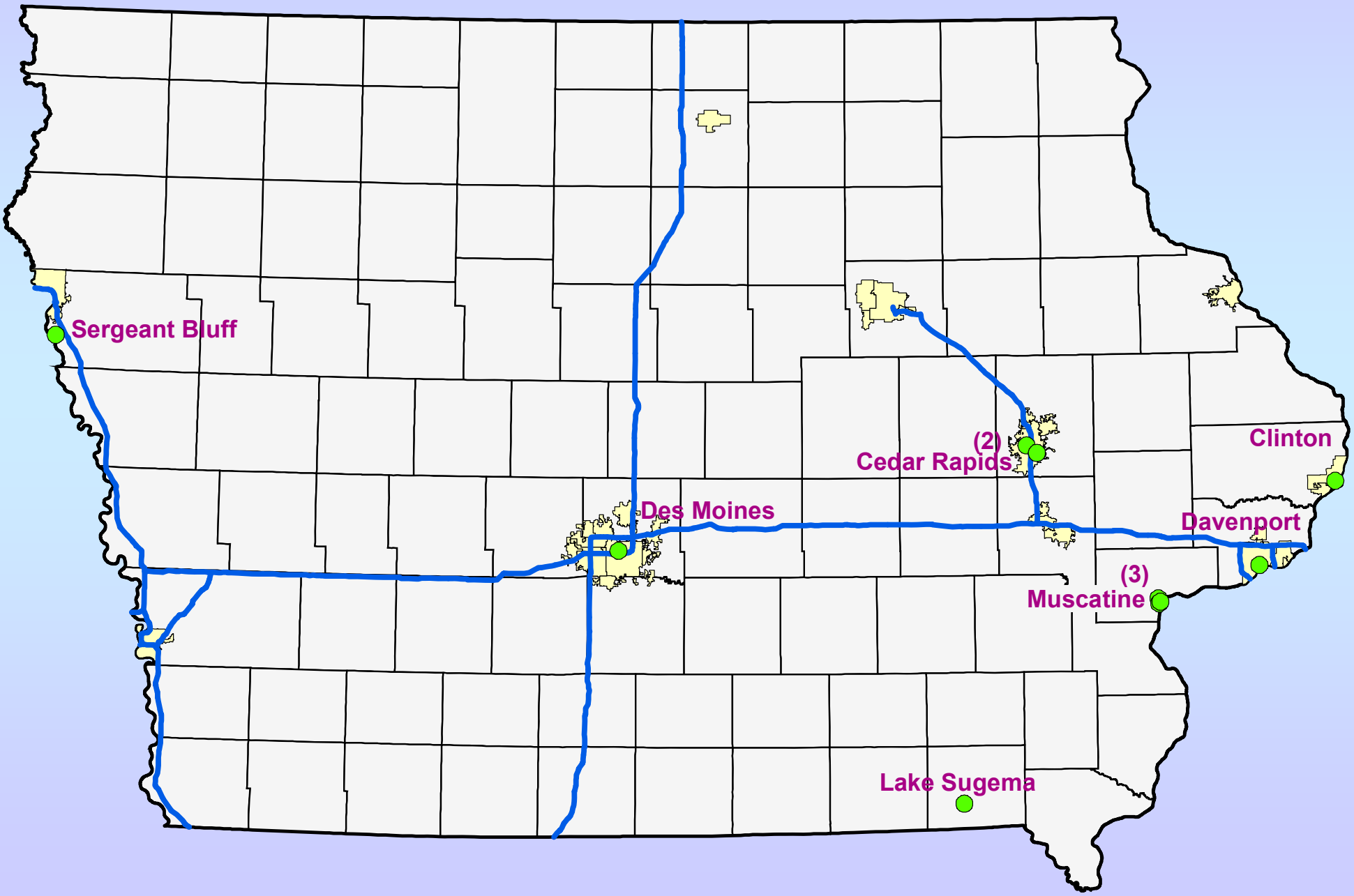
A design value is a tool that can be used to understand pollution levels at a specific location. A design value may be set for any pollutant. The U.S. EPA's official definition is explained this way: "a design value is the mathematically determined pollutant concentration at a particular site that must 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_2) monitor location and information is detailed on the following pages. The EPA design value for 1-hour SO_2 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_2 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_2 NAAQS. Additional information on the revised SO_2 standard is available here: https://www.epa.gov/so2-pollution

Iowa SO_2 Monitors (2017)			
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
19-193-0020*	George Neal North	Sergeant Bluff	Woodbury

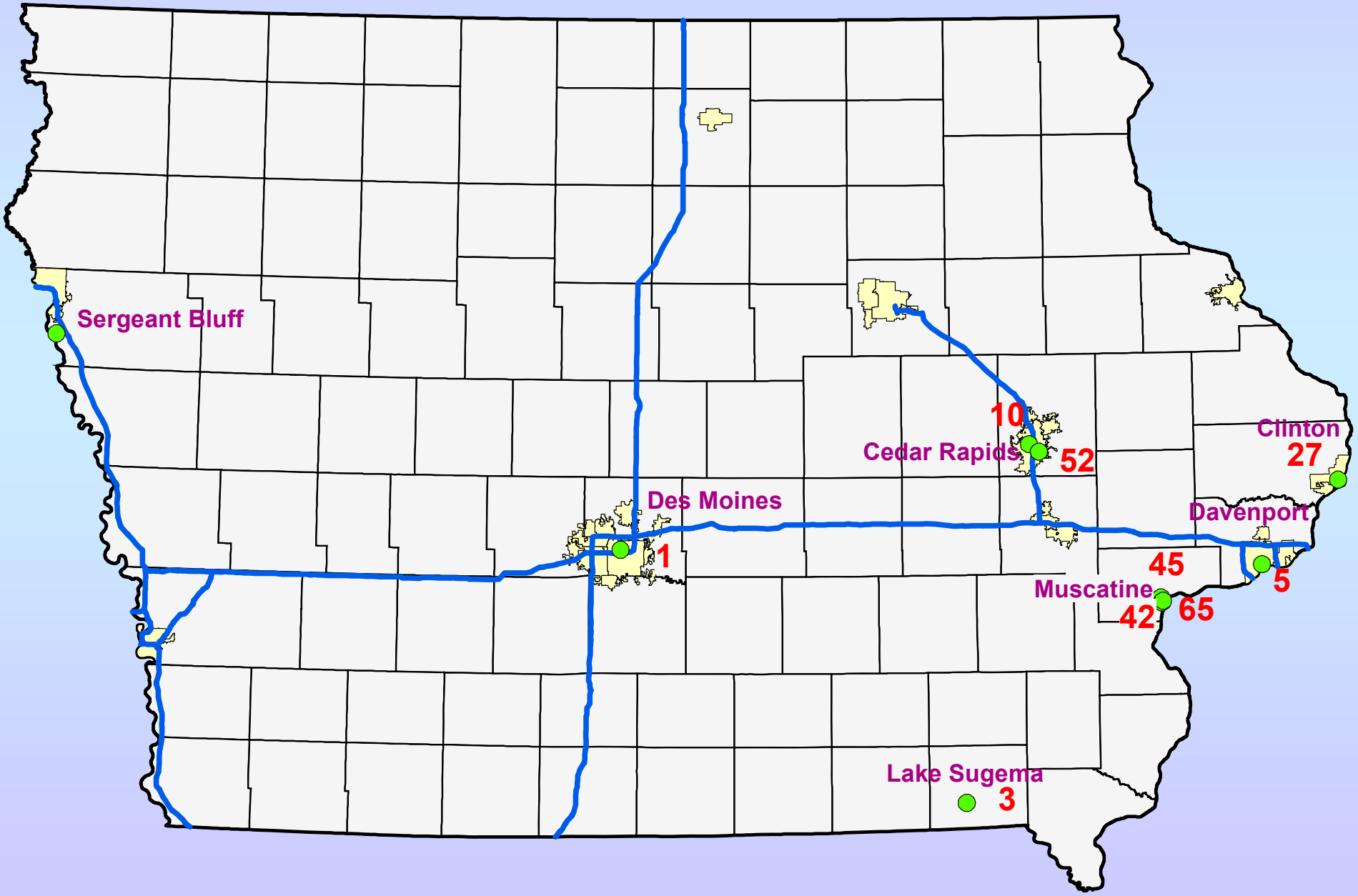
* George Neal North Site was Discontinued on 7/1/2017

Iowa SO_2 Monitoring Network 2017



Iowa SO_2 Design Values: 2015-2017

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



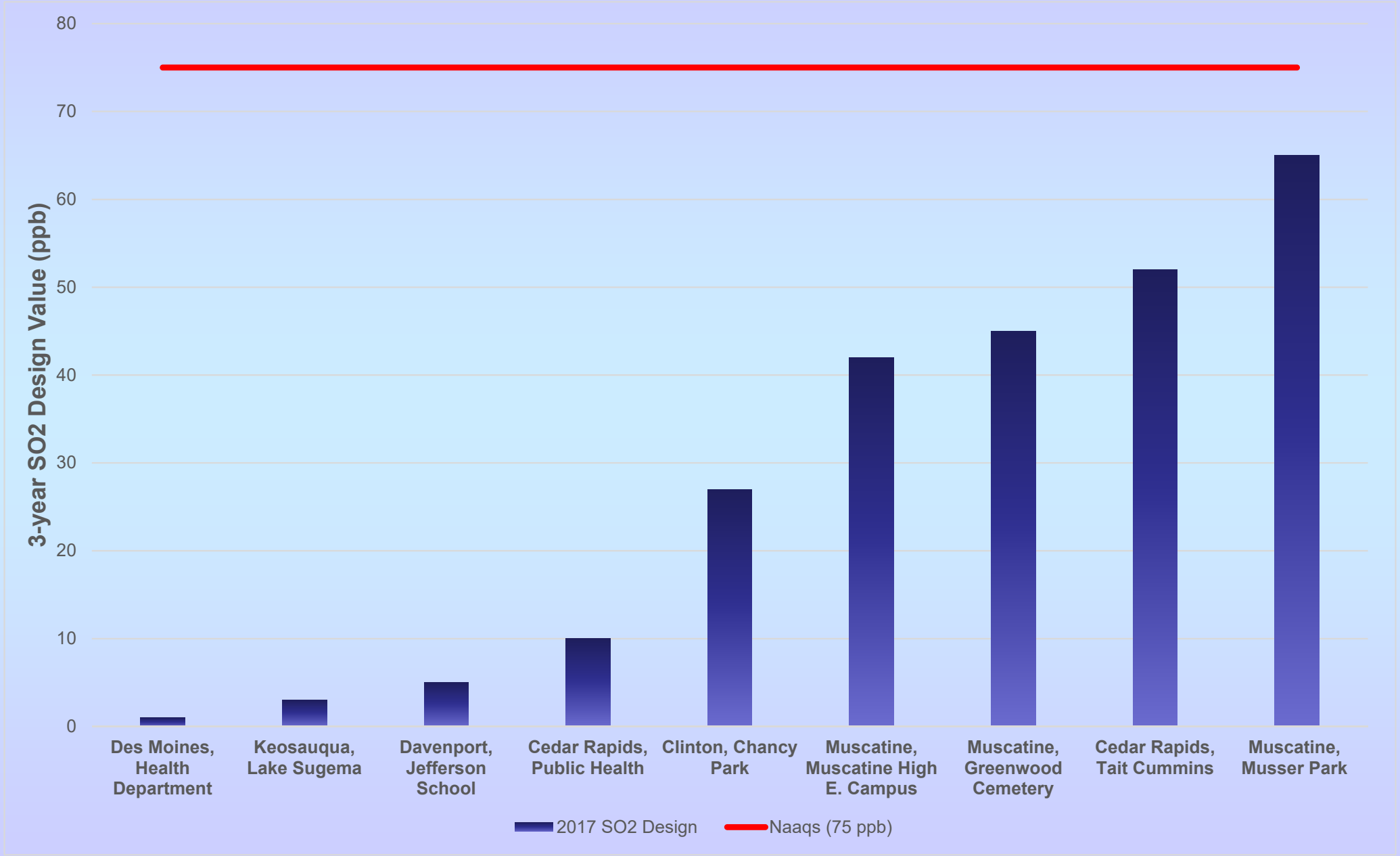
Iowa SO_2 Design Values 2017

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	2015	33.0		
			2016	30.6		
			2017	15.9	27	2015-2017
Linn	Cedar Rapids	19-113-0040	2015	11.2		
			2016	11.7		
			2017	7.9	10	2015-2017
Linn	Cedar Rapids	19-113-0041	2015	49.7		
			2016	54.2		
			2017	53.0	52	2015-2017
Muscatine	Muscatine	19-139-0016	2015	90.5		
			2016	24.4		
			2017	20.1	45	2015-2017
Muscatine	Muscatine	19-139-0019	2015	75.3		
			2016	29.6		
			2017	20.2	42	2015-2017
Muscatine	Muscatine	19-139-0020	2015	116.0		
			2016	44.5		
			2017	34.5	65	2015-2017
Polk	Des Moines	19-153-0030	2015	2.0		
			2016	0.9		
			2017	0.9	1	2015-2017
Scott	Davenport	19-163-0015	2015	7.4		
			2016	3.7		
			2017	3.7	5	2015-2017
Van Buren	Keosauqua	19-177-0006	2015	2.5		
			2016	1.9		
			2017	4.0	3	2015-2017
Woodbury	Sergeant Bluff	19-193-0020	2015	10.4		
			2016	5.8		
			2017	n/a	n/a	2015-2017

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 2018.

Iowa SO_2 Design Values Chart: 2015-2017



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