

Iowa Monitoring Locations and Design Values for Sulfur Dioxide 2013-2015

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:

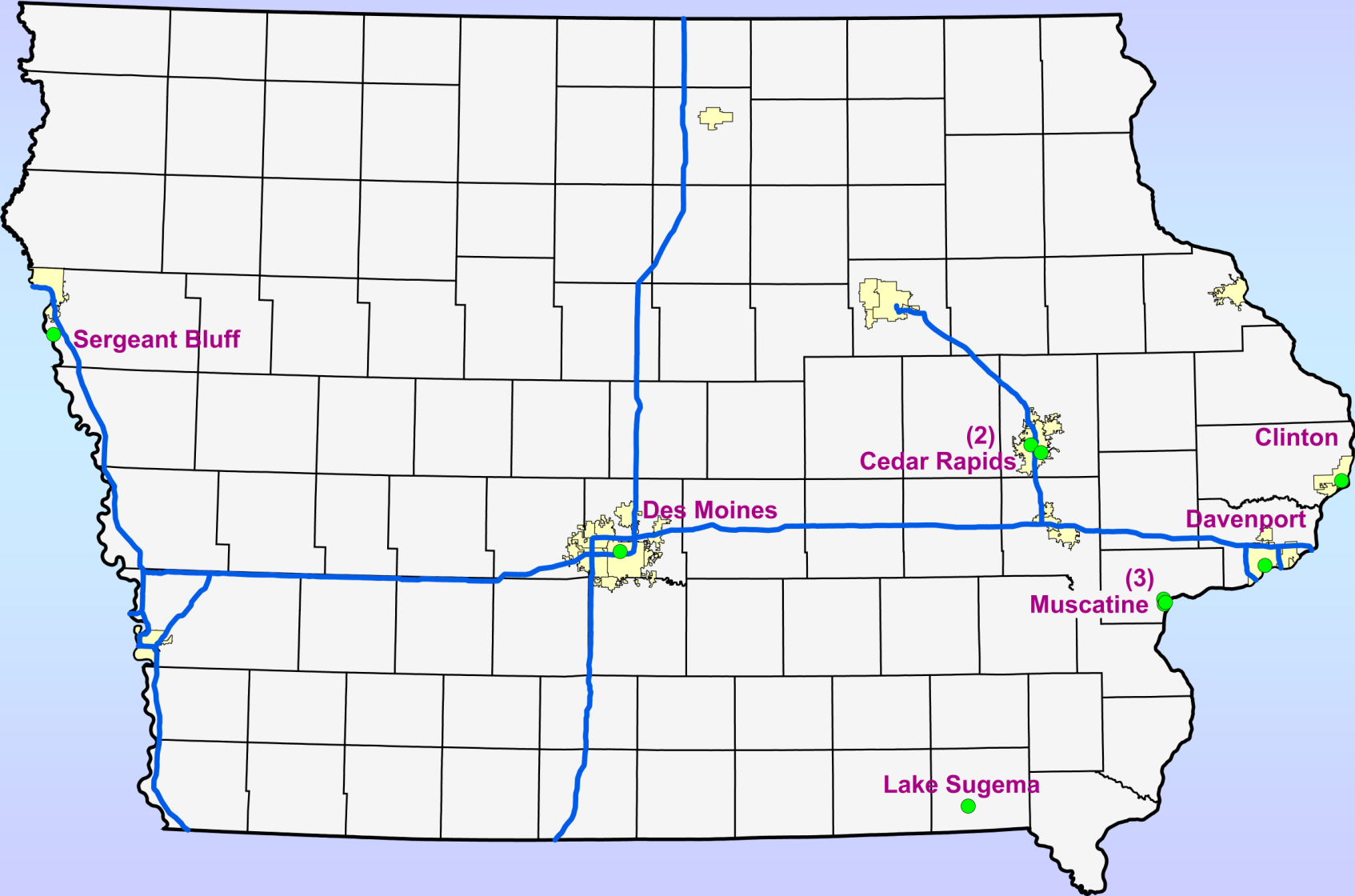
<http://www.epa.gov/airquality/sulfurdioxide/actions.html>

Iowa SO₂ Monitors (2015)

AQS Site ID	Site Name	Location	County	Design Value?	Reason*
19-045-0019	Chancy Park	Clinton	Clinton	Yes	
19-113-0040	Public Health	Cedar Rapids	Linn	Yes	
19-113-0041	Tait Cummins Park	Cedar Rapids	Linn	No	Started 1/14
19-139-0016	Greenwood Cemetery	Muscatine	Muscatine	Yes	
19-139-0019	High School East Campus	Muscatine	Muscatine	Yes	
19-139-0020	Musser Park	Muscatine	Muscatine	Yes	
19-153-0030	Health Department	Des Moines	Polk	Yes	
19-163-0015	Jefferson School	Davenport	Scott	Yes	
19-177-0006	Lake Sugema	Keosauqua	Van Buren	Yes	
19-193-0020	George Neal North	Sergeant Bluff	Woodbury	Yes	

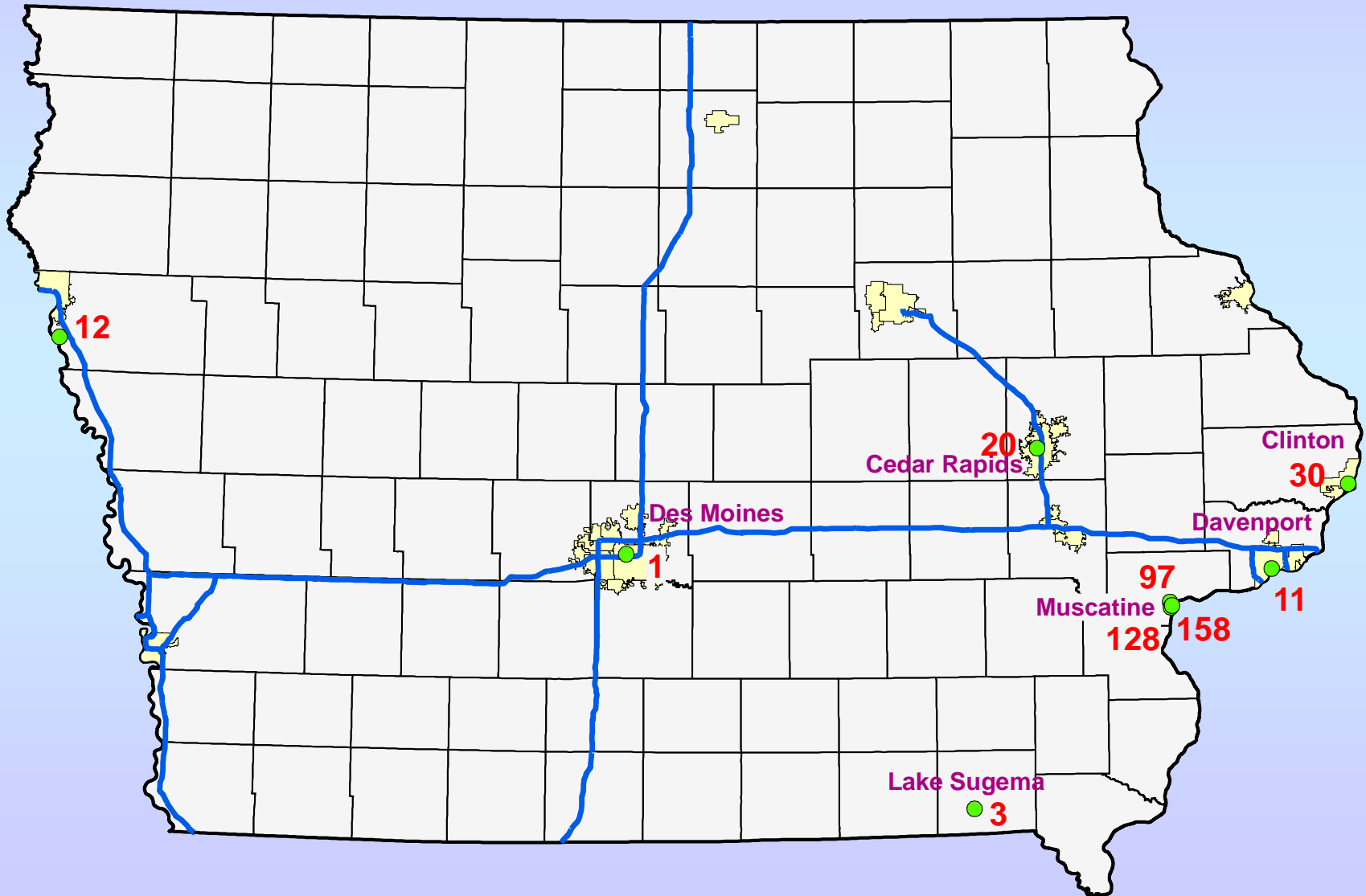
* A site must be operational for at least three years to compute a design value and meet additional completeness requirements specified in [40 CFR 50 Appendix T](#).

Iowa SO₂ Monitoring Network 2015



Iowa SO₂ Design Values: 2013-2015

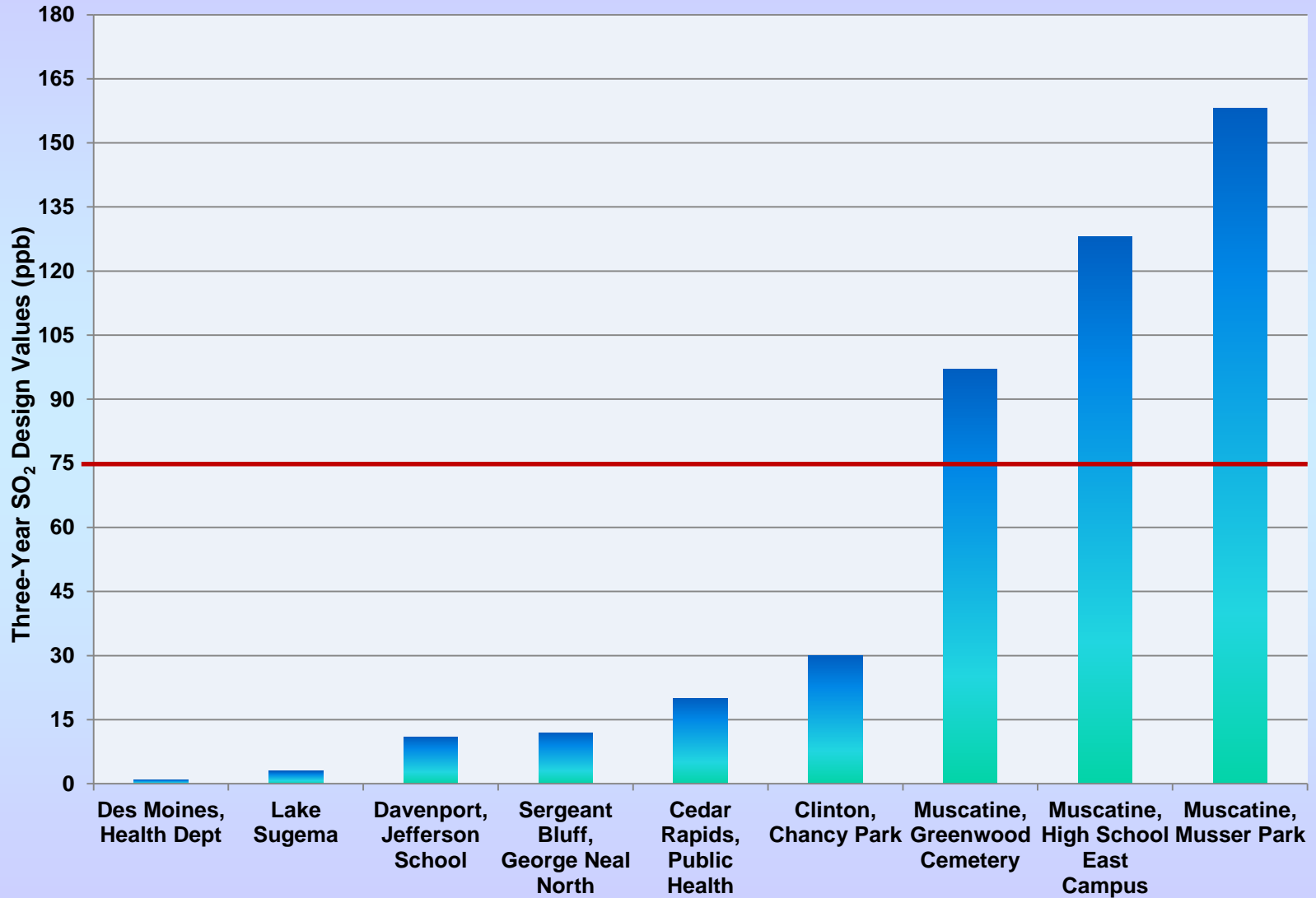
Concentrations listed in ppb. Values greater than 75 exceed the standard.



Iowa SO₂ Design Values 2015

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	2013	34.5	30	2013-2015
			2014	22		
			2015	33		
Linn	Cedar Rapids	19-113-0040	2013	24.8	20	2013-2015
			2014	24.8		
			2015	11.2		
Muscatine	Muscatine	19-139-0016	2013	83.7	97	2013-2015
			2014	116.5		
			2015	90.5		
Muscatine	Muscatine	19-139-0019	2013	160.9	128	2013-2015
			2014	147.9		
			2015	75.3		
Muscatine	Muscatine	19-139-0020	2013	178.5	158	2013-2015
			2014	179.7		
			2015	116		
Polk	Des Moines	19-153-0030	2013	1.2	1	2013-2015
			2014	1.1		
			2015	2		
Scott	Davenport	19-163-0015	2013	14.6	11	2013-2015
			2014	10.1		
			2015	7.4		
Van Buren	Keosauqua	19-177-0006	2013	2.5	3	2013-2015
			2014	3		
			2015	2.5		
Woodbury	Sergeant Bluff	19-193-0020	2013	16.2	12	2013-2015
			2014	10.5		
			2015	10.4		
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 2016.						

Iowa SO₂ Design Values Chart: 2013-2015



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:

<http://www.linncleanair.org/Default.aspx>

Outside Polk and Linn Counties:

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

Design Values for All Pollutants Nationwide:

<http://www.epa.gov/airtrends/values.html>

Trends in Sulfur Dioxide Levels:

<http://www.epa.gov/airtrends/sulfur.html>

Historical Air Pollution Data for Iowa and Other States:

<http://www.epa.gov/airdata/>