

## Iowa Monitoring Locations and Design Values for Nitrogen 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).

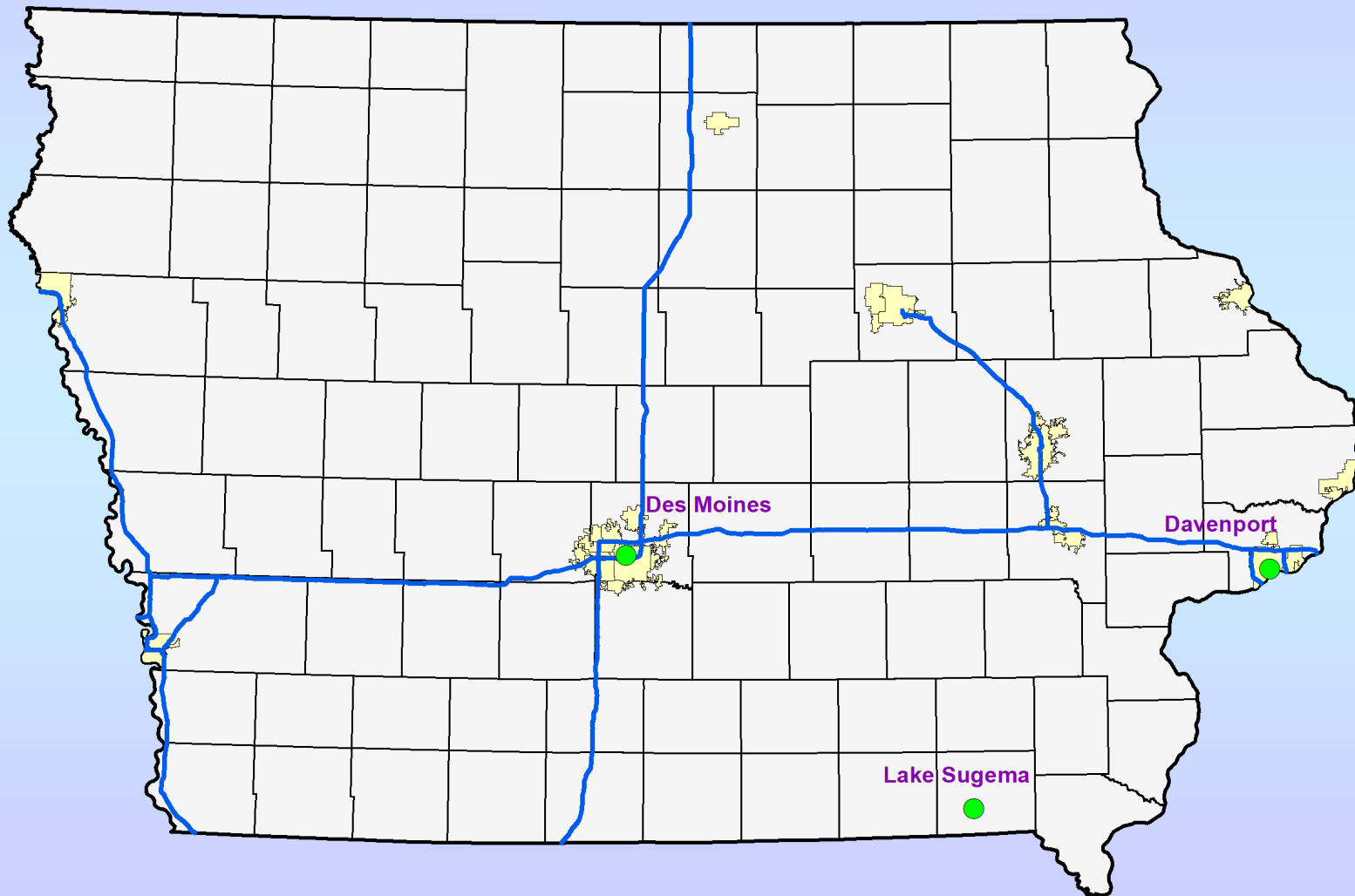
Iowa nitrogen dioxide (NO<sub>2</sub>) monitor location and information is detailed on the following pages. The EPA design value for 1-hour NO<sub>2</sub> is equal to the average of the 98th percentile 1-hour value for the most recent three years. EPA revised the NO<sub>2</sub> NAAQS in April of 2012. A monitoring site must have a design value less than 100 parts per billion to be considered "in attainment" with the NO<sub>2</sub> NAAQS. All monitoring sites in Iowa are in attainment with the 1-hour NO<sub>2</sub> NAAQS. Additional information on the revised NO<sub>2</sub> standard is available here: <https://www.epa.gov/no2-pollution>

## Iowa Nitrogen Dioxide Monitors (2018)

<b>AQS Site ID</b>	<b>Site Name</b>	<b>Location</b>	<b>County</b>	<b>Design Value?</b>
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

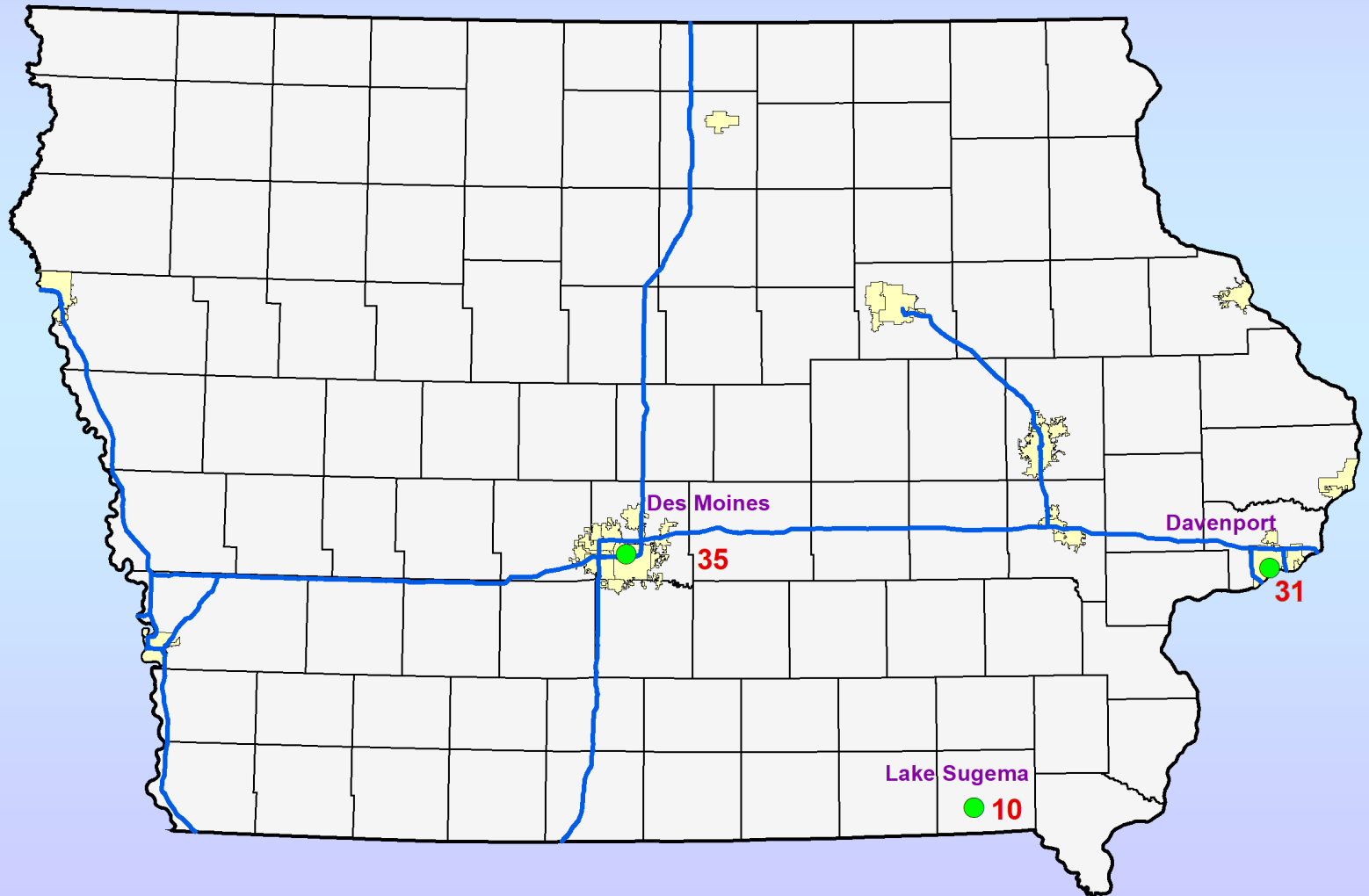
A site must be operational for at least three years to compute a design value and meet additional completeness requirements specified in [40 CFR 50 Appendix S](#).

# Iowa NO<sub>2</sub> Monitoring Network 2018



# Iowa NO<sub>2</sub> Design Values: 2016-2018

Concentrations listed in ppb. Values greater than 100 exceed the standard.

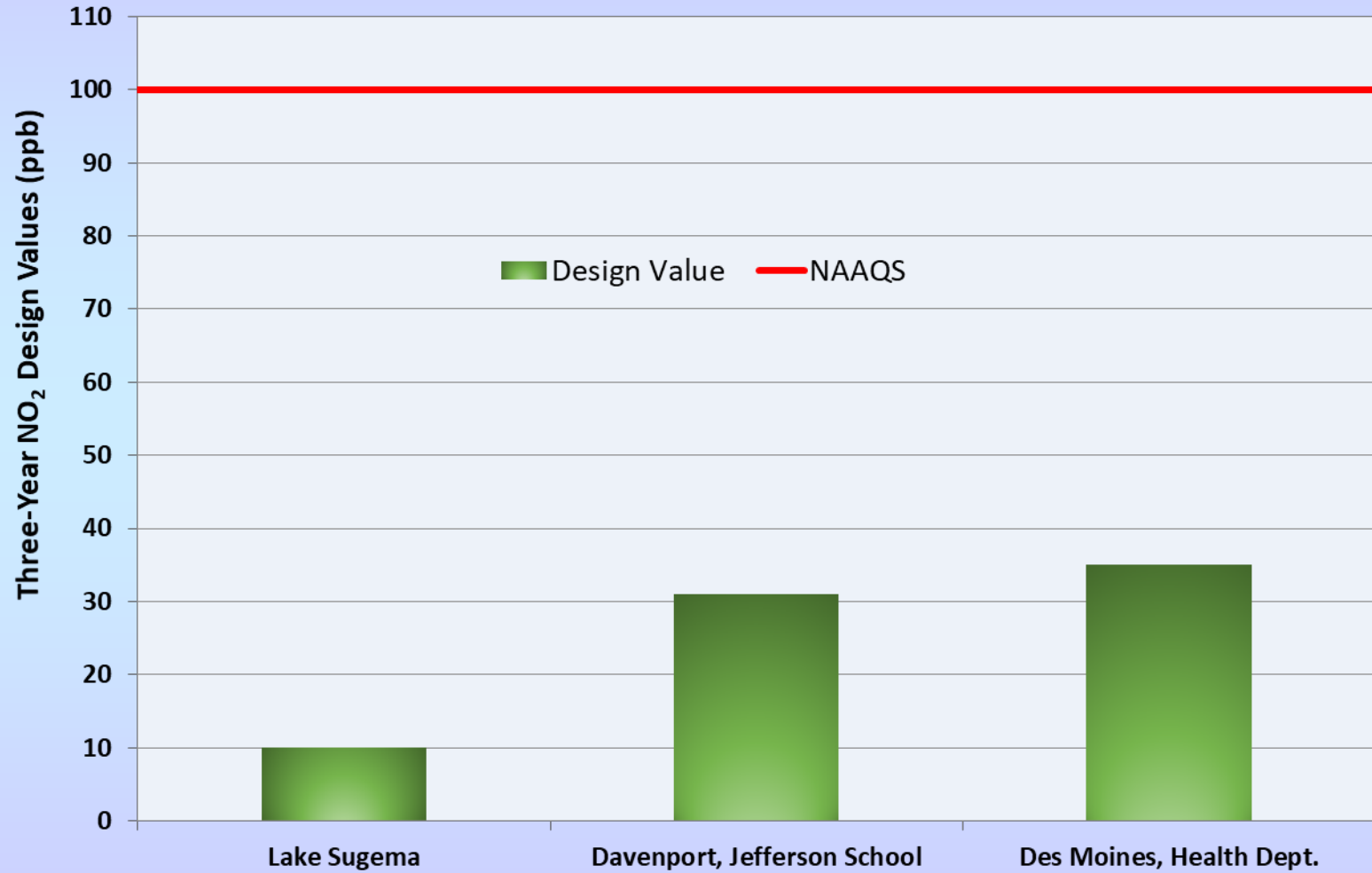


# Iowa NO<sub>2</sub> Design Values: 2016-2018

County	City	EPA Site Id	Year	98th Percentile Hourly NO <sub>2</sub> Concentration (ppb)	3-year Average of 98th Percentile (ppb)	Years Averaged
Polk	Des Moines	191530030	2016	33.4	35	2016-2018
			2017	38.2		
			2018	34		
Scott	Davenport	191630015	2016	29.8	31	2016-2018
			2017	33.5		
			2018	30.1		
Van Buren	Not in a City	191770006	2016	7.9	10	2016-2018
			2017	9.9		
			2018	11.3		

Three Year Averages Greater Than 100 ppb Indicate Non-Attainment with the 1-hour NAAQS. Values are based on preliminary data. Data will be certified in May 2019.

# Iowa NO<sub>2</sub> 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 Nitrogen Dioxide Levels:***

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

### **Historical Air Pollution Data for Iowa and Other States:**

<https://www.epa.gov/outdoor-air-quality-data>