

Iowa Monitoring Locations and Design Values for Nitrogen Dioxide 2014-2016

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).

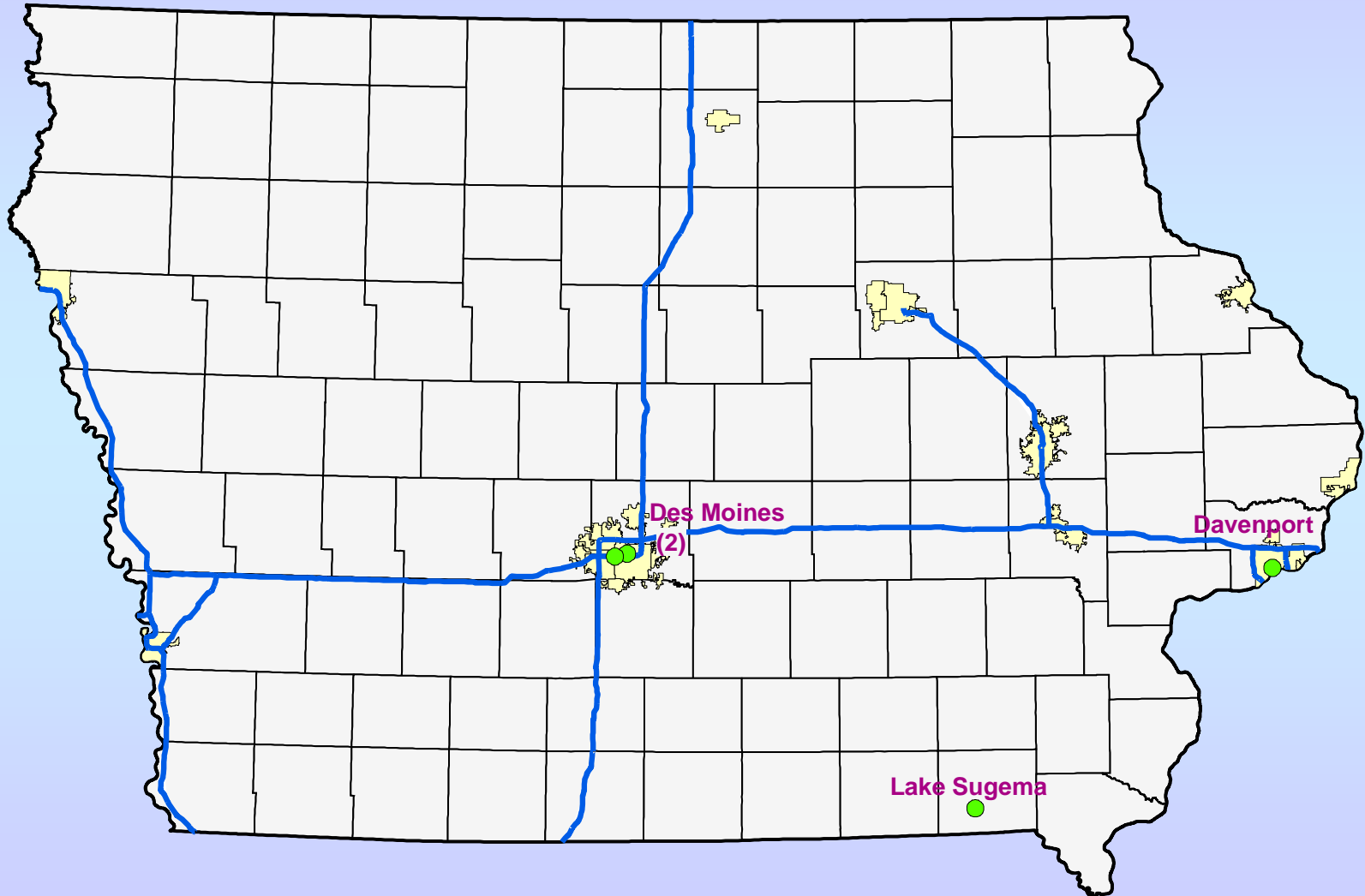
Iowa nitrogen dioxide (NO₂) monitor location and information is detailed on the following pages. The EPA design value for 1-hour NO₂ is equal to the average of the 98th percentile 1-hour value for the most recent three years. EPA revised the NO₂ NAAQS in April of 2012. A monitoring site must have a design value less than 100 parts per billion to be considered "in attainment" with the NO₂ NAAQS. All monitoring sites in Iowa are in attainment with the 1-hour NO₂ NAAQS. Additional information on the revised NO₂ standard is available here: <https://www.epa.gov/no2-pollution>

Iowa NO₂ Monitors (2016)

| AQS Site ID | Site Name | Location | County | Design Value? |
|-------------|-------------------|------------|-----------|---------------|
| 19-153-0030 | Health Department | Des Moines | Polk | Yes |
| 19-153-6011 | Rollins Near-Road | Des Moines | Polk | Yes |
| 19-163-0015 | Jefferson School | Davenport | Scott | Yes |
| 19-177-0006 | Lake Sugema | Keosauqua | Van Buren | Yes |

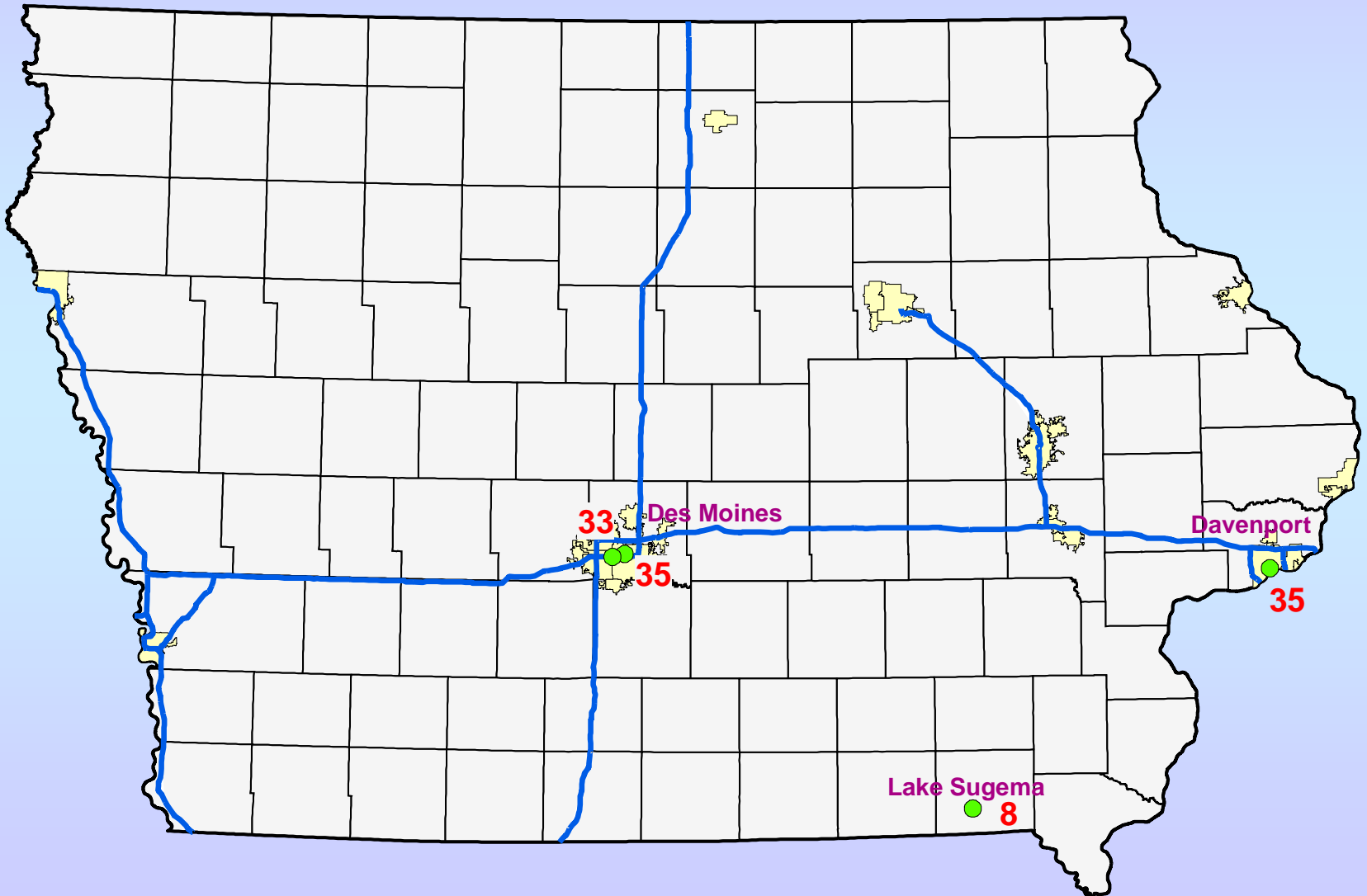
A site must be operational for at least three years to compute a design value and meet additional completeness requirements specified in [40 CFR 50 Appendix S](#).

Iowa NO₂ Monitoring Network 2016



Iowa NO₂ Design Values: 2014-2016

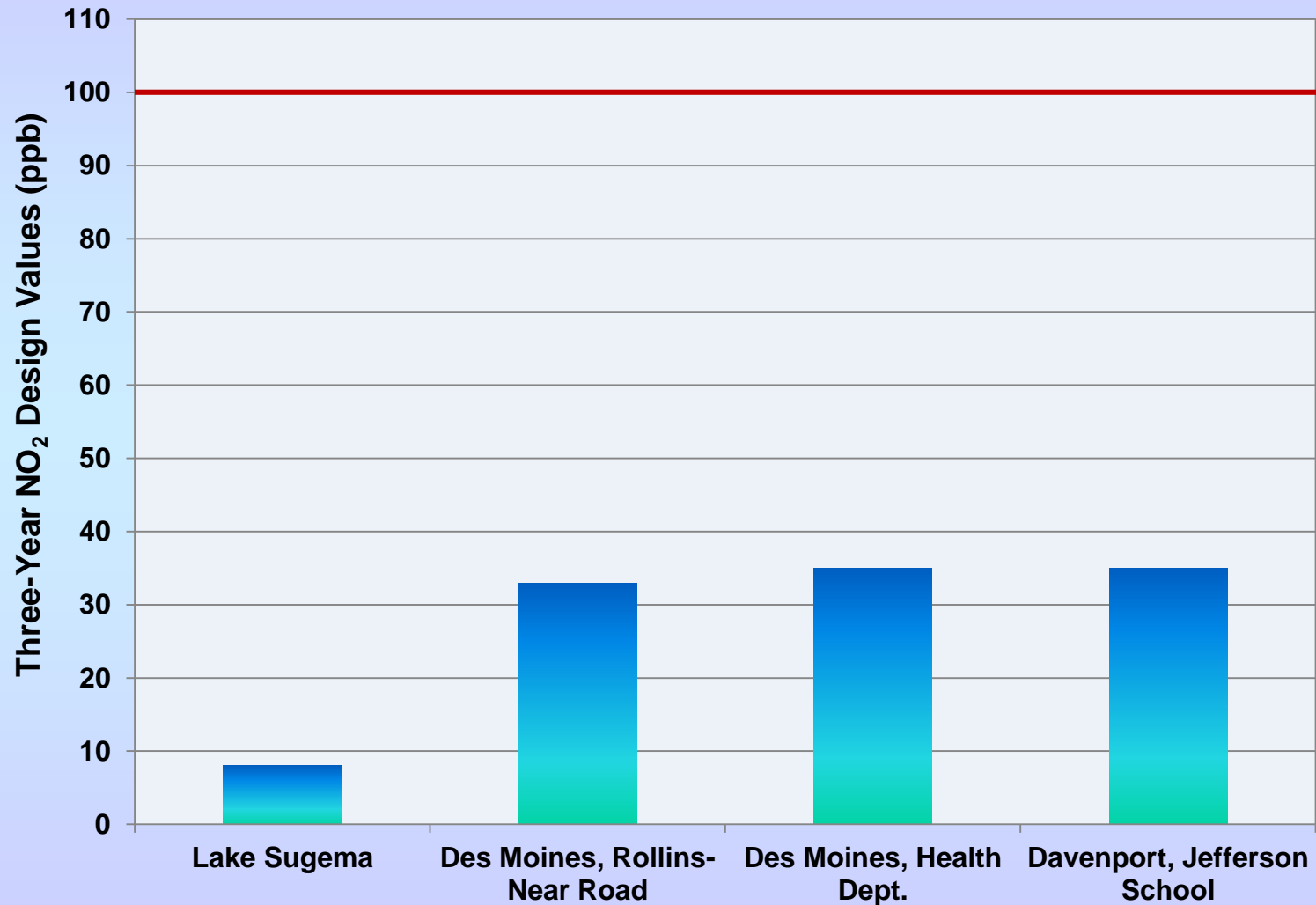
Concentrations listed in ppb. Values greater than 100 exceed the standard.



Iowa NO₂ Design Values 2016

| County | City | EPA Site Id | Year | 98th Percentile Hourly NO ₂ Concentration (ppb) | 3-year Average of 98th Percentile (ppb) | Years Averaged |
|---|---------------|-------------|------|--|--|-------------------|
| Polk | Des Moines | 191530030 | 2014 | 35.3 | 35 | 2014-2016 |
| | | | 2015 | 37.4 | | |
| | | | 2016 | 33.4 | | |
| Polk | Des Moines | 191536011 | 2014 | 34.9 | 33 | 2014-2016 |
| | | | 2015 | 34.4 | | |
| | | | 2016 | 29.2 | | |
| Scott | Davenport | 191630015 | 2014 | 35 | 35 | 2014-2016 |
| | | | 2015 | 41.1 | | |
| | | | 2016 | 29.8 | | |
| Van Buren | Not in a City | 191770006 | 2014 | 9.9 | 8 | 2014-2016 |
| | | | 2015 | 6.8 | | |
| | | | 2016 | 7.9 | | |
| (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 2017. | | | | | | |

Iowa NO₂ Design Values Chart: 2014-2016



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>