

# Iowa Monitoring Locations and Design Values for Nitrogen Dioxide 2012-2014

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).

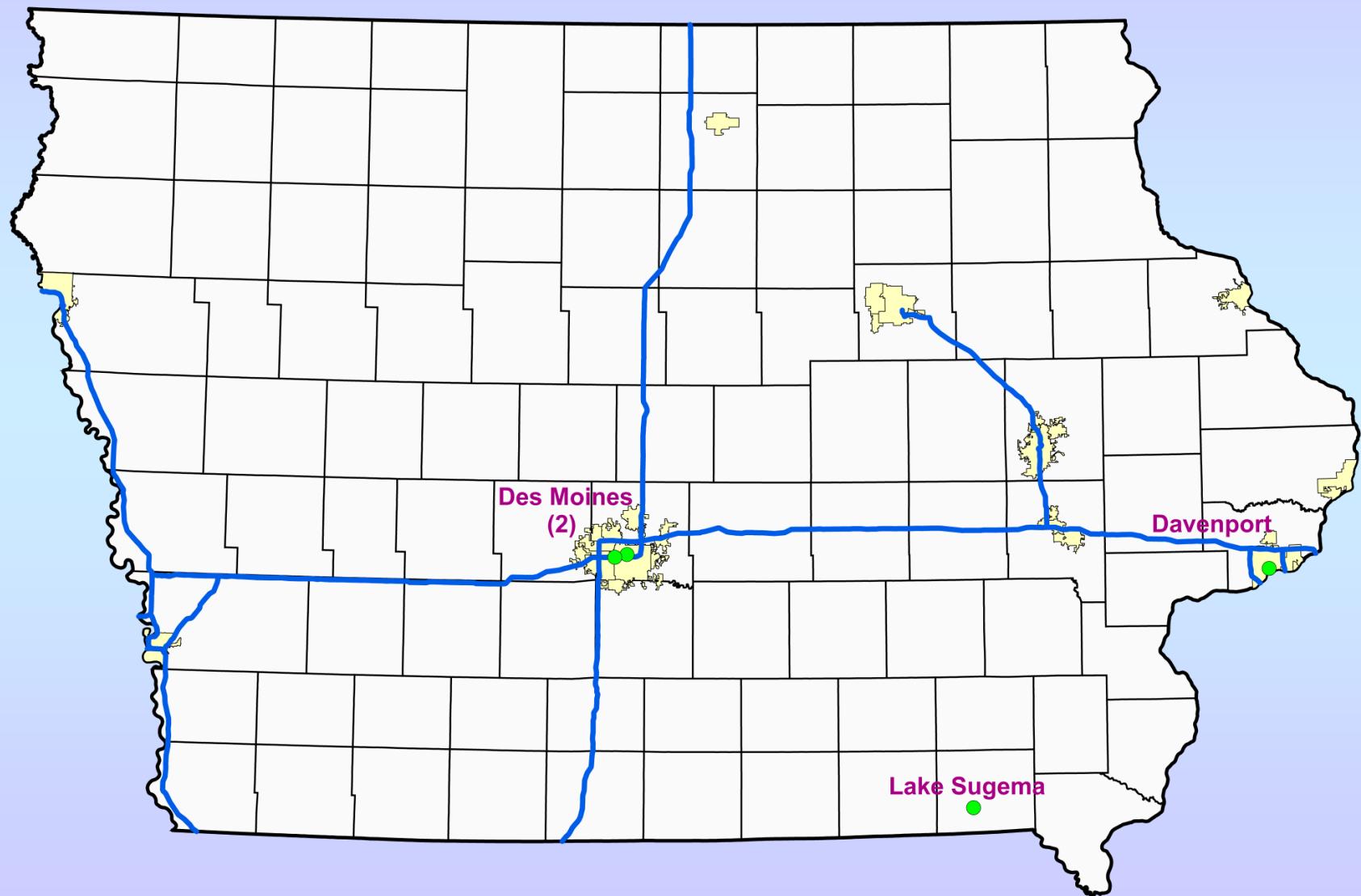
Iowa nitrogen dioxide ( $\text{NO}_2$ ) monitor location and information is detailed on the following pages. The EPA design value for 1-hour  $\text{NO}_2$  is equal to the average of the 98th percentile 1-hour value for the most recent three years. EPA revised the  $\text{NO}_2$  NAAQS in April of 2012. A monitoring site must have a design value less than 100 parts per billion to be considered "in attainment" with the  $\text{NO}_2$  NAAQS. All monitoring sites in Iowa are in attainment with the 1-hour  $\text{NO}_2$  NAAQS. Additional information on the revised  $\text{NO}_2$  standard is available here:  
<http://www.epa.gov/airquality/nitrogenoxides/actions.html>

## Iowa NO<sub>2</sub> Monitors (2014)

AQS Site ID	Site Name	Location	County	Design Value?	Reason*
19-153-0030	Health Department	Des Moines	Polk	Yes	
19-153-6011	Rollins Near-Road	Des Moines	Polk	No	Started 1/13
19-163-0015	Jefferson School	Davenport	Scott	Yes	
19-177-0006	Lake Sugema	Keosauqua	Van Buren	Yes	

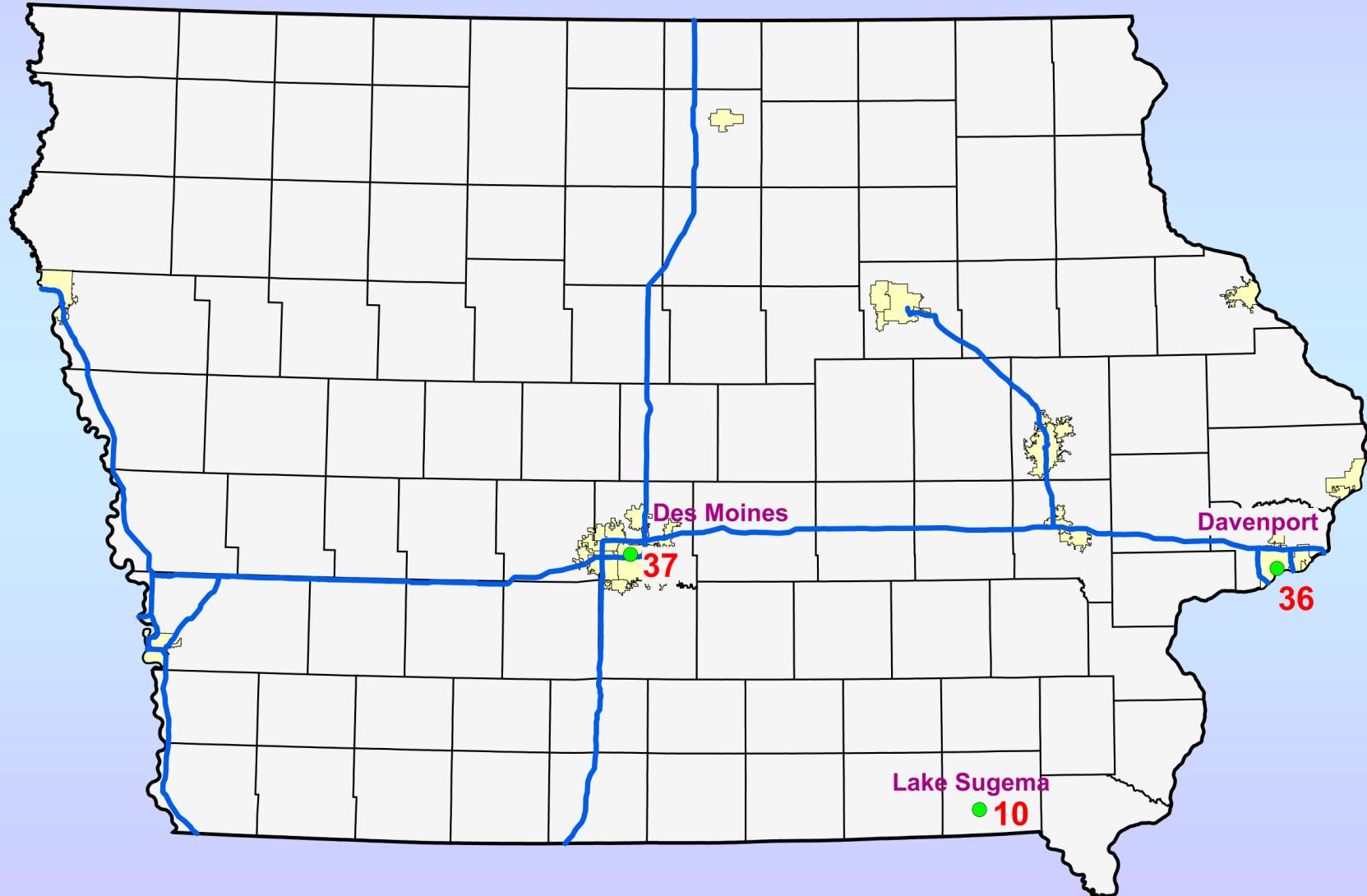
\* A site must be operational for at least three years to compute a design value and meet additional completeness requirements specified in [40 CFR 50 Appendix S](#).

# Iowa NO<sub>2</sub> Monitoring Network 2014



# Iowa NO<sub>2</sub> Design Values: 2012-2014

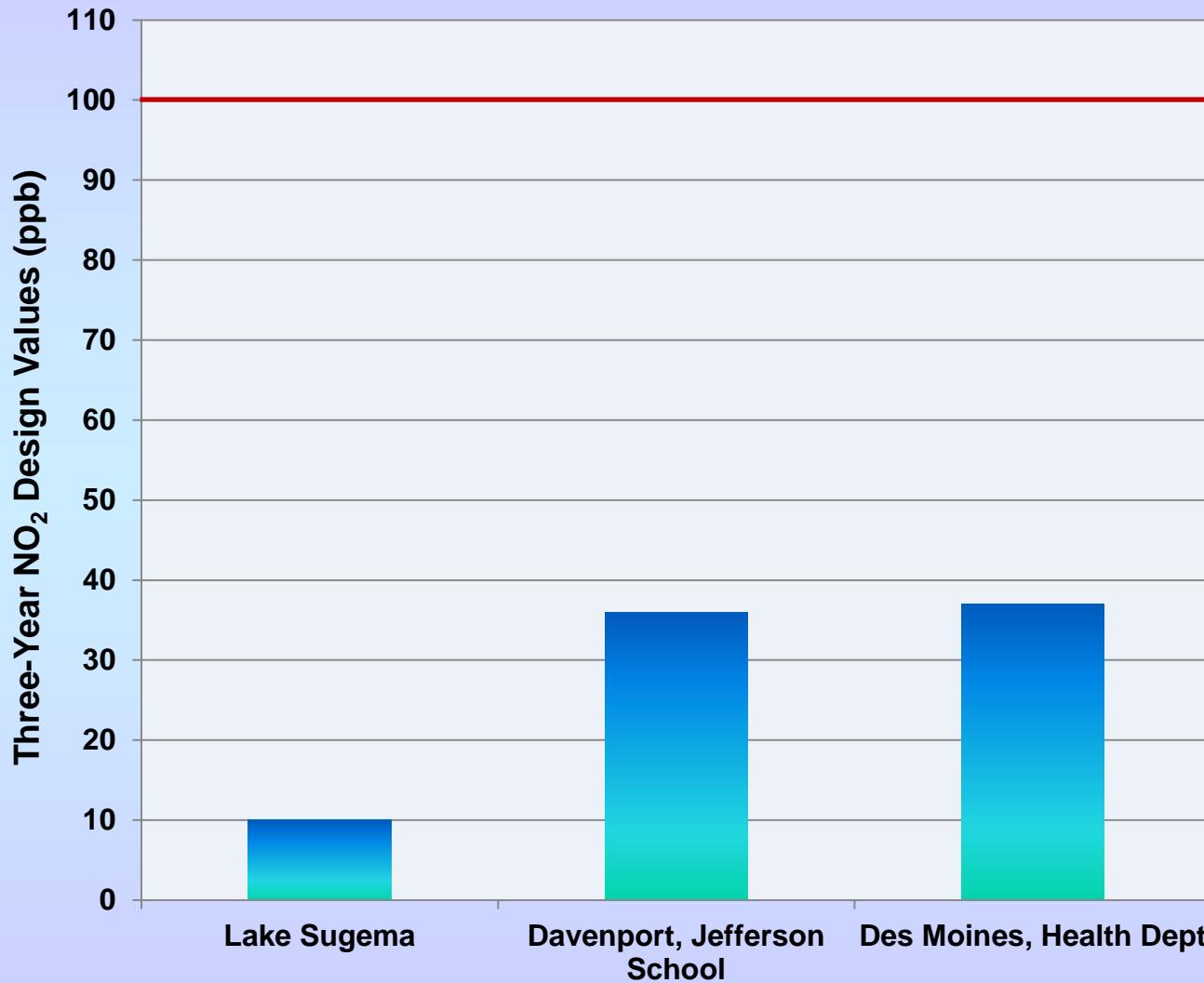
Concentrations listed in ppb. Values greater than 100 exceed the standard.



## Iowa NO<sub>2</sub> Design Values 2014

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	19-153-0030	2012	39.6			
			2013	36.8			
			2014	35.3		37	2012-2014
Scott	Davenport	19-163-0015	2012	34.1			
			2013	38.8			
			2014	35		36	2012-2014
Van Buren	Not in a City	19-177-0006	2012	9.2			
			2013	9.6			
			2014	9.9		10	2012-2014

# Iowa NO<sub>2</sub> Design Values Chart: 2012-2014



# 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.linnleanair.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 Nitrogen Dioxide Levels:*

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

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

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