Iowa Ozone Monitoring Locations and Design Values for Ozone 2019-2021

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 ozone monitor location and information is detailed on the following pages. The EPA design value for 8-hour ozone is equal to the average of the 4th highest annual daily maximum 8-hour value for the most recent three years. EPA promulgated new lower ozone standards on October 1, 2015 and retained that standard in 2020. A monitoring site must have a design value less than 71 parts per billion to be considered “in attainment” with the ozone NAAQS. All monitoring sites in Iowa are in attainment with the 8-hour ozone NAAQS. Additional information on the revised ozone standard is available here: Ozone National Ambient Air Quality Standards.
## Iowa Ozone Monitors (2021)

<table>
<thead>
<tr>
<th>AQS Site ID</th>
<th>Site Name</th>
<th>Location</th>
<th>County</th>
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<td>19-137-0002</td>
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<td>Red Oak</td>
<td>Montgomery</td>
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<tr>
<td>19-147-1002</td>
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<td>Lake Sugema</td>
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<td>Van Buren</td>
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Iowa Ozone Design Values: 2019-2021

Values in ppb, values greater than 70 exceed the standard
## Iowa Ozone Design Values 2021**

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<tr>
<th>County</th>
<th>City</th>
<th>EPA Site Id</th>
<th>Year</th>
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<th>3-year Average (ppb) 4th Highest Years Averaged</th>
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</table>

(Three Year Averages Greater Than 70 ppb Indicate Non-Attainment with the NAAQS)

**Values considered preliminary until data is certified in May 2022.
Iowa Ozone Design Values Chart: 2019-2021
Median Ozone Design Values in Iowa Ozone Monitoring Network

![Graph showing Median Ozone Design Values with three year periods from 2003-2021.](image)
Web Resources

Iowa Real-time Data Reporting:

*In Polk County:*

*In Linn County:*

*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

*Real-time Ozone and Particulate Maps:*
https://airnow.gov/

*Historical Air Pollution Data for Iowa and Other States:*
https://www.epa.gov/outdoor-air-quality-data