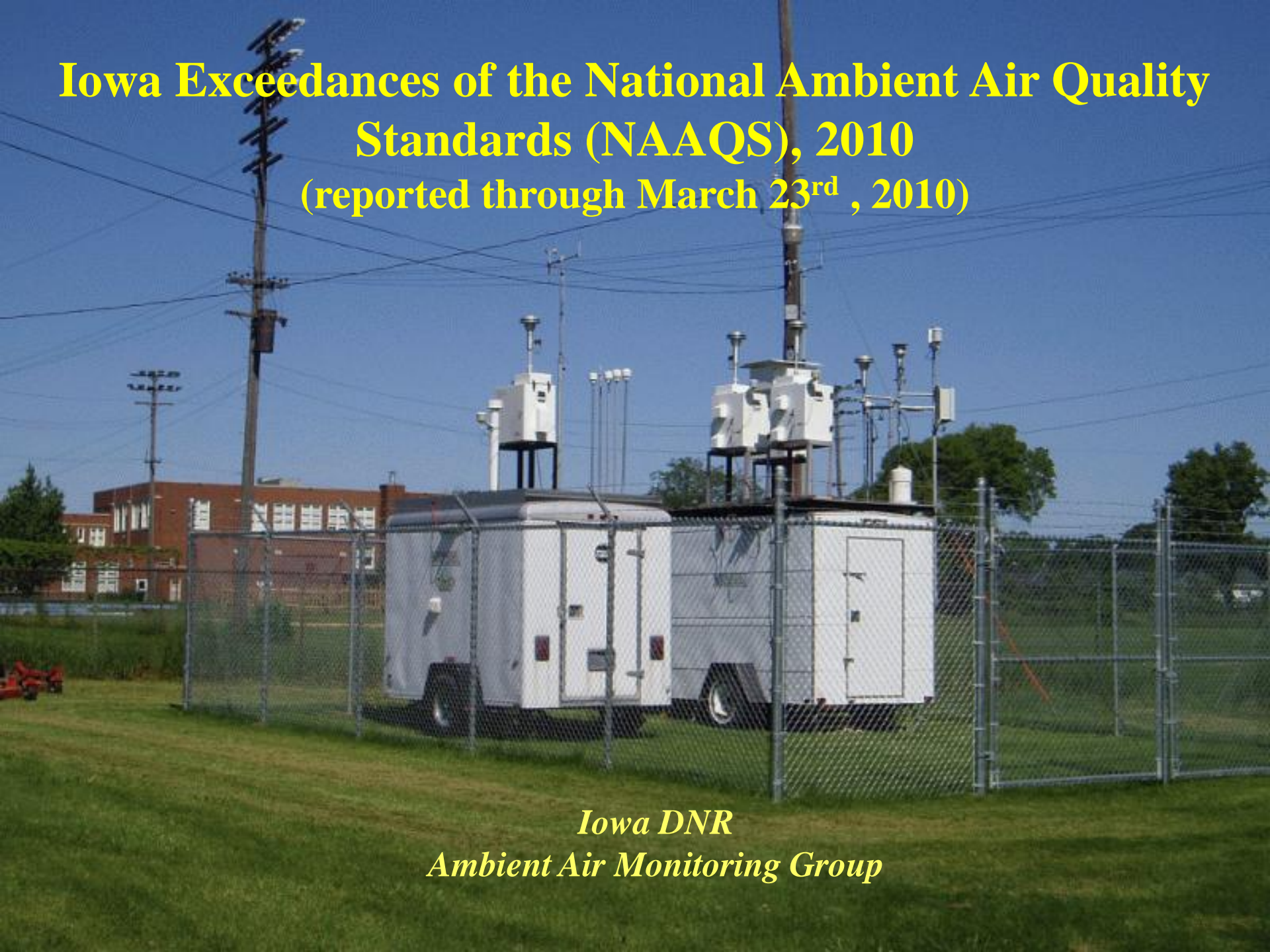


Iowa Exceedances of the National Ambient Air Quality Standards (NAAQS), 2010 (reported through March 23rd , 2010)



*Iowa DNR
Ambient Air Monitoring Group*

What Are the NAAQS?

The Clean Air Act requires EPA to set National Ambient Air Quality Standards for pollutants considered harmful to public health and the environment. The Clean Air Act established two types of national air quality standards.

Primary standards set limits to protect public health, including the health of "sensitive" populations such as asthmatics, children, and the elderly.

Secondary standards set limits to protect public welfare, including protection against decreased visibility, damage to animals, crops, vegetation, and buildings. The table and key on the following page lists the NAAQS for the six criteria pollutants.

National Ambient Air Quality Standards

Pollutant	Averaging Period	Exceedance Level	Units
Ozone	8hr (1)	76	ppb
PM 2.5	24hr (2)	35.5	micrograms per cubic meter
	annual (3)	15.05	micrograms per cubic meter
PM10	24hr (4)	155	micrograms per cubic meter
Sulfur dioxide	3hr (5)	0.55	ppm
	24hr (5)	0.145	ppm
	annual	0.0305	ppm
Carbon monoxide	1hr (5)	35.5	ppm
	8hr (5)	9.5	ppm
Nitrogen dioxide	annual	0.0535	ppm
Lead	quarterly	1.55	micrograms per cubic meter

(1) To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 75 ppb.

(2) To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35.4 µg/m³ (effective December 17, 2006).

(3) To attain this standard, the 3-year average of the weighted annual mean PM_{2.5} concentrations from single or multiple community-oriented monitors must not exceed 15.05 µg/m³.

(4) Not to be exceeded more than once per year on average over 3 years.

(5) Not to be exceeded more than once per year.

See 40CFR Part 50 for details on attainment calculations

Ozone Regulation Change

The EPA promulgated new lower standards for ozone that became effective in May of 2008.

The “old” national ambient air quality standard for ozone was 0.080 parts per million (0.084 rounds down). The form of the standard was a three year average of a sites fourth highest annual daily maximum 8-hour average. The new standard is 0.075 parts per million (75 parts per billion) and the form of the standard has not changed with the exception of rounding conventions (0.076 shows non-attainment with the standard).

The ozone NAAQS is currently being reviewed and final standards will be issued by August 31, 2010.

Data Used for this Report

Particulate data in this report is from filter based samplers where the data is collected over a 24-hour period and then analyzed in a laboratory. Filter samplers are normally operated on a schedule of one sample every third day (1 in 3). In areas of high population or high concentration, the samplers may be operated on an accelerated schedule (1 in 2 or daily).

Ozone is a summertime pollutant and data is collected seasonally from April 1 through October 31. Ozone monitors are continuous instruments that report hourly averages for each hour of each day of the ozone season.

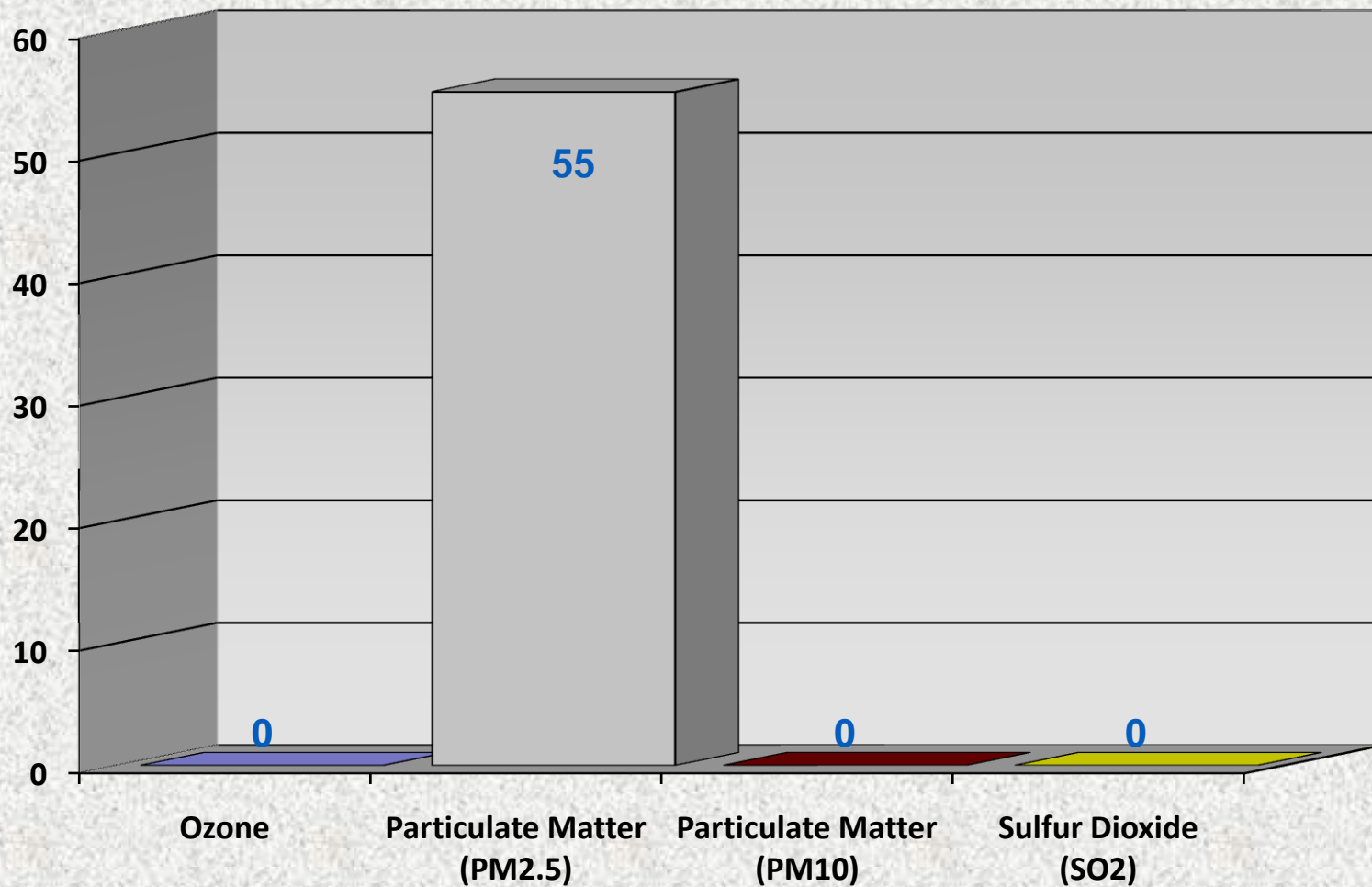
Iowa NAAQS Exceedances, 2010

(reported through March 23rd, 2010)

Date	PM2.5	PM10	Ozone
1/5/10	2		
1/13/10	1		
1/20/10	1		
1/22/10	1		
1/31/10	1		
2/1/10	4		
2/2/10	3		
2/3/10	5		
2/4/10	16		
2/5/10	1		
2/12/10	2		
2/13/10	3		
2/19/10	5		
3/3/10	7		
3/4/10	1		
3/8/10	1		
3/9/10	1		
TOTAL	55	0	0

Iowa NAAQS Exceedances, 2010

(reported through March 23rd, 2010)



2010 NAAQS Exceedances (reported through March 23, 2010)

Monitor Type	Site Location	Site Name	Exceedance		Units	AQI*
			Date	Concentration		
PM2.5	Council Bluffs	Franklin Elementary	1/5/10	48.8	µg/m3	117
PM2.5	Sioux City	Bryant Elementary	1/5/10	46.2	µg/m3	112
PM2.5	Davenport	Blackhawk Foundry	1/13/10	40.0	µg/m3	99
PM2.5	Muscatine	Garfield Elementary	1/20/10	62.9	µg/m3	145
PM2.5	Muscatine	Garfield Elementary	1/22/10	37.5	µg/m3	94
PM2.5	Cedar Rapids	Linn Public Health	1/31/10	36.3	µg/m3	92
PM2.5	Cedar Rapids	Linn Public Health	2/1/10	36.7	µg/m3	93
PM2.5	Cedar Rapids	Army Reserve	2/1/10	35.8	µg/m3	91
PM2.5	Muscatine	Garfield Elementary	2/1/10	36.3	µg/m3	92
PM2.5	Clinton	Chancy Park	2/1/10	35.5	µg/m3	90
PM2.5	Clinton	Chancy Park	2/2/10	38.7	µg/m3	97
PM2.5	Clinton	Rainbow Park	2/2/10	36.6	µg/m3	93
PM2.5	Central Davenport	Jefferson Elementary	2/2/10	35.5	µg/m3	90
PM2.5	Clinton	Chancy Park	2/3/10	38.0	µg/m3	95
PM2.5	Clinton	Rainbow Park	2/3/10	36.7	µg/m3	93
PM2.5	Central Davenport	Jefferson Elementary	2/3/10	37.0	µg/m3	93
PM2.5	Davenport	Blackhawk Foundry	2/3/10	36.5	µg/m3	92
PM2.5	Muscatine	Garfield Elementary	2/3/10	36.0	µg/m3	91

* EPA is currently revising the Air Quality Index for Fine Particulate

2010 NAAQS Exceedances (reported through March 23, 2010) continued

Monitor Type	Site Location	Site Name	Exceedance		Units	AQI*
			Date	Concentration		
PM2.5	Cedar Rapids	Linn Public Health	2/4/10	40.2	µg/m3	100
PM2.5	Cedar Rapids	Army Reserve	2/4/10	36.5	µg/m3	92
PM2.5	Clinton	Chancy Park	2/4/10	42.8	µg/m3	106
PM2.5	Clinton	Rainbow Park	2/4/10	42.2	µg/m3	104
PM2.5	Central Davenport	Jefferson Elementary	2/4/10	40.5	µg/m3	101
PM2.5	Davenport	Blackhawk Foundry	2/4/10	41.9	µg/m3	104
PM2.5	Central Davenport	Adams Elementary	2/4/10	40.5	µg/m3	101
PM2.5	Davenport	Hayes Elementary	2/4/10	40.7	µg/m3	101
PM2.5	Muscatine	Garfield Elementary	2/4/10	41.3	µg/m3	103
PM2.5	Muscatine	Greenwood Cemetery	2/4/10	37.2	µg/m3	94
PM2.5	Muscatine	Franklin Elementary	2/4/10	38.3	µg/m3	96
PM2.5	Iowa City	Hoover Elementary	2/4/10	39.4	µg/m3	98
PM2.5	Waterloo	Grout Museum	2/4/10	38.8	µg/m3	97
PM2.5	Waterloo	Water Tower	2/4/10	37.5	µg/m3	94
PM2.5	Keokuk	Fire Station	2/4/10	41.2	µg/m3	102
PM2.5	Keosauqua	Lake Sugema	2/4/10	38.3	µg/m3	96
PM2.5	Des Moines	Polk County Health	2/5/10	41.5	µg/m3	103
PM2.5	Clinton	Chancy Park	2/12/10	37.0	µg/m3	93
PM2.5	Des Moines	Polk County Health	2/12/10	36.3	µg/m3	92

* EPA is currently revising the Air Quality Index for Fine Particulate

2010 NAAQS Exceedances (reported through March 23, 2010) continued

Monitor Type	Site Location	Site Name	Exceedance		Units	AQI*
			Date	Concentration		
PM2.5	Clive	Indian Hills	2/13/10	40.3	100	100
PM2.5	Des Moines	Polk County Health	2/13/10	41.6	103	103
PM2.5	Keokuk	Fire Station	2/13/10	40.7	µg/m3	101
PM2.5	Muscatine	Garfield Elementary	2/19/10	37.9	µg/m3	95
PM2.5	Muscatine	Greenwood Cemetery	2/19/10	36.0	µg/m3	91
PM2.5	Muscatine	Franklin Elementary	2/19/10	36.3	µg/m3	92
PM2.5	Waterloo	Grout Museum	2/19/10	36.7	µg/m3	93
PM2.5	Waterloo	Water Tower	2/19/10	35.8	µg/m3	91
PM2.5	Muscatine	Garfield Elementary	3/3/10	35.9	µg/m3	91
PM2.5	Muscatine	Franklin Elementary	3/3/10	35.6	µg/m3	91
PM2.5	Waterloo	Grout Museum	3/3/10	37.7	µg/m3	95
PM2.5	Waterloo	Water Tower	3/3/10	37.8	µg/m3	95
PM2.5	Cedar Rapids	Linn Public Health	3/3/10	39.2	µg/m3	98
PM2.5	Cedar Rapids	Army Reserve	3/3/10	36.2	µg/m3	92
PM2.5	Iowa City	Hoover Elementary	3/3/10	38.6	µg/m3	96
PM2.5	Cedar Rapids	Linn Public Health	3/4/10	38.8	µg/m3	97
PM2.5	Clinton	Chancy Park	3/8/10	37.8	µg/m3	95
PM2.5	Clinton	Chancy Park	3/9/10	37.1	µg/m3	94

* EPA is currently revising the Air Quality Index for Fine Particulate

Web Resources

Real-time Air Monitoring Data:

In Polk County:

<http://www.airquality.co.polk.ia.us/>

In Linn County:

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

Outside Polk and Linn Counties:

<http://www.uhl.uiowa.edu/services/ambient/realtime.xml>

Attainment Calculations:

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

National Ozone and Particulate Maps:

<http://airnow.gov/>

Historical Air Monitoring Data for Iowa and Other States:

<http://www.epa.gov/air/data/>