

2008 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	311	195	109	6	1	173	71	42	15	0	119	16	136	25
Ann Arbor	0440	218	170	45	3	0	122	66	42			165		53	
Flint	2640	214	173	39	2	0	111	58	39			174		40	
Kalamazoo-Battle Creek	3720	210	164	43	3	0	109	61	41			169		41	
Grand Rapids - Muskegon - Holland	3000	285	178	104	2	1	161	73	42	1		141	0	133	10
Lansing - East Lansing	4040	214	174	39	1	0	106	59	39			174		40	
Benton Harbor	0870	209	161	46	2	0	124	67	41			167		42	
Saginaw - Bay City - Midland	6960	85	71	14	0	0	77	55	23					85	

Note: blank column = pollutant not monitored.

2007 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	365	190	153	18	4	161	87	49	0	0	119	3	203	40
Ann Arbor	0440	365	220	122	20	3	185	80	44	0	0	148	0	217	0
Flint	2640	241	162	72	7	0	135	80	43			166		75	
Kalamazoo-Battle Creek	3720	243	173	63	7	0	122	77	43			164		79	
Grand Rapids – Muskegon - Holland	3000	243	169	61	12	1	177	87	42			173		70	
Lansing - East Lansing	4040	239	180	54	5	0	124	70	40			171		68	
Benton Harbor	0870	292	234	49	9	0	137	70	37			172	52	68	0
Saginaw - Bay City - Midland	6960	112	89	23	0	0	80	58	30					112	

Note: blank column = pollutant not monitored.

2006 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	365	200	151	13	1	188	82	48	1	0	124	9	207	24
Ann Arbor	0440	238	171	59	8	0	116	74	43			163		75	
Flint	2640	242	187	54	1	0	101	63	41			161		81	
Kalamazoo-Battle Creek	3720	230	184	42	4	0	127	64	40			177		53	
Grand Rapids – Muskegon - Holland	3000	243	196	44	3	0	107	61	40			166		77	
Lansing - East Lansing	4040	365	274	74	14	3	174	75	38	58	0	170	3	134	0
Benton Harbor	0870	361	308	50	3	0	119	58	30			170	117	73	1
Saginaw - Bay City - Midland	6960	74	57	16	1	0	109	61	25					74	

Note: blank column = pollutant not monitored.

2005 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	365	162	164	32	7	179	104	53	0	0	114	4	215	32
Ann Arbor	0440	245	155	78	10	2	154	90	45			168		77	
Flint	2640	361	288	62	11	0	128	73	31			168	118	72	3
Kalamazoo-Battle Creek	3720	242	155	67	19	1	151	93	45			172		70	
Grand Rapids – Muskegon - Holland	3000	365	205	126	31	3	195	100	45	1	0	157	0	206	1
Lansing - East Lansing	4040	244	163	73	8	0	150	90	43			166		78	
Benton Harbor	0870	242	155	67	19	1	151	93	45			172		70	
Saginaw - Bay City - Midland	6960	121	85	32	4	0	110	69	32					121	

Note: blank column = pollutant not monitored.

2004 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	366	171	179	16	0	144	84	52	0	0	68	9	232	57
Ann Arbor	0440	366	233	124	8	1	179	77	40	2	0	140	0	223	1
Flint	2640	246	185	57	4	0	124	73	39			164		82	
Kalamazoo-Battle Creek	3720	242	192	49	1	0	106	66	38			172		70	
Grand Rapids - Muskegon - Holland	3000	241	191	50	0	0	94	64	37			156		85	
Lansing - East Lansing	4040	240	191	48	1	0	109	63	36			167		73	
Benton Harbor	0870	366	315	46	5	0	127	58	29	73		173	50	67	3
Saginaw - Bay City - Midland	6960	122	97	25	0	0	87	65	25					122	

Note: blank column = pollutant not monitored.

2003 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th percentile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	365	143	195	21	6	204	94	56	0	0	72	1	207	85
Ann Arbor	0440	365	224	119	18	4	182	87	45	1	0	141	0	223	0
Flint	2640	243	159	72	10	2	190	86	44			164		79	
Kalamazoo-Battle Creek	3720	239	172	57	10	0	140	77	43			162		77	
Grand Rapids – Muskegon - Holland	3000	242	174	60	7	1	151	77	42			171		71	
Lansing - East Lansing	4040	241	179	44	17	1	164	87	41			174		67	
Benton Harbor	0870	365	302	50	12	1	166	68	30	6		172	116	70	1
Saginaw - Bay City - Midland	6960	123	94	29	0	0	87	61	30					123	

Note: blank column = pollutant not monitored.

2002 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	365	149	180	25	11	197	100	54	1	0	100	8	207	49
Ann Arbor	0440	365	209	121	28	7	202	95	44	1	0	144	0	220	0
Flint	2640	245	151	73	20	1	154	97	44			163		82	
Kalamazoo-Battle Creek	3720	243	150	70	20	3	164	93	43			160		83	
Grand Rapids - Muskegon - Holland	3000	242	161	60	14	7	182	97	42			169		73	
Lansing - East Lansing	4040	242	156	70	16	0	150	86	41			164		78	
Benton Harbor	0870	348	276	54	17	1	154	73	33			169	110	69	0
Saginaw - Bay City - Midland	6960	120	90	30	0	0	88	62	33					120	

Note: blank column = pollutant not monitored.

2001 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	365	147	177	36	5	174	106	56	3	0	83	8	228	43
Ann Arbor	0440	365	201	133	28	3	166	94	47	2		130	0	232	1
Flint	2640	245	157	67	20	1	179	93	44			165		80	
Kalamazoo-Battle Creek	3720	244	162	70	12	0	145	90	43			160		83	1
Grand Rapids - Muskegon - Holland	3000	240	159	64	15	2	166	93	42			168		72	
Lansing - East Lansing	4040	245	168	67	8	2	159	80	42		0	161		84	
Benton Harbor	0870	347	282	43	20	2	169	74	33			162	109	76	0
Saginaw - Bay City - Midland	6960	122	91	30	1	0	106	70	30					122	

Note: blank column = pollutant not monitored.

2000 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	366	149	199	17	1	159	84	56	2	0	62	7	241	54
Ann Arbor	0440	366	211	140	13	2	190	80	46	0		127	0	234	5
Flint	2640	245	175	64	6	0	129	69	42			165		80	
Kalamazoo-Battle Creek	3720	244	181	59	2	2	156	68	41			161		83	
Grand Rapids – Muskegon - Holland	3000	242	183	55	4	0	127	64	39		0	163		79	
Lansing - East Lansing	4040	243	181	60	2	0	119	68	39			156		83	4
Benton Harbor	0870	364	311	49	4	0	142	58	29			167	122	72	3
Saginaw - Bay City - Midland	6960	110	85	25	0	0	84	59	27					110	

Note: blank column = pollutant not monitored.

1999 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th percentile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	365	190	134	33	8	177	101	49	11	0	107	28	135	84
Ann Arbor	0440	365	214	111	29	11	204	104	46	7		144	0	207	7
Flint	2640	244	158	63	22	1	154	97	44			168		68	8
Kalamazoo-Battle Creek	3720	214	145	48	20	1	177	100	43			173		41	
Grand Rapids – Muskegon - Holland	3000	219	128	61	26	4	192	111	42			144		75	
Lansing - East Lansing	4040	260	187	59	13	1	154	86	40			165		95	
Benton Harbor	0870	363	303	38	19	3	200	74	30			174	131	55	3
Saginaw - Bay City - Midland	6960	89	67	22	0	0	91	63	24					89	

Note: blank column = pollutant not monitored.

1998 MICHIGAN AIR QUALITY INDEX STATISTICS

Metropolitan Statistical Area			Number of Days when Air Quality was ...				AQI Statistics			Number of Days when AQI pollutant was ...					
MSA City	MSA Code	# Days with AQI	Good	Moderate	Unhealthy for Sensitive Groups	Unhealthy	Max. AQI # Value for year	90th per-centile	Median	CO	NO ₂	O ₃	SO ₂	PM _{2.5}	PM ₁₀
Detroit	2160	182	102	51	26	3	201	114	48			182			
Ann Arbor	0440	184	116	54	13	1	151	93	47			184			
Flint	2640	184	121	52	11	0	150	97	45			184			
Kalamazoo-Battle Creek	3720	214	150	49	14	1	164	93	43			184			30
Grand Rapids - Muskegon - Holland	3000	365	235	97	26	7	190	93	42	29	0	142	60		134
Lansing - East Lansing	4040	365	285	47	26	7	197	100	31	64		182	5		114
Benton Harbor	0870	365	298	50	16	1	192	77	25			183	159		23
Saginaw - Bay City - Midland	6960	182	102	51	26	3	201	114	48			182			

Note: blank column = pollutant not monitored.

NOTE about above tables: Michigan AQI data was generated from EPA's AQS computer database. Created via AIR DATA web option at <http://www.epa.gov/air/data/index.html>

About the Air Quality Index Summary Report

What does the report tell me?

The AirData **Air Quality Index Summary** Report displays an annual summary of Air Quality Index (AQI) values for counties or metropolitan statistical areas. Air Quality Index is an approximate indicator of overall air quality, because it takes into account all of the criteria air pollutants measured within a geographic area. Although AQI includes all available pollutant measurements, you should be aware that many areas have monitoring stations for some, but not all, of the pollutants.

Each row of the AQI Summary Report lists summary values for one year for one county or metropolitan statistical area (MSA). The summary values include both qualitative measures (days of the year having "good" air quality, for example) and descriptive statistics (median AQI value, for example). Each row also includes a link to a chart of the daily AQI values summarized in that row.

Type of Summary

AQI values may be summarized at two geographic scales: county or metropolitan statistical area (MSA). Data from all monitoring sites within a geographic area - a county or MSA - are combined to obtain the summary. Because MSAs are composed of counties, an MSA summary generally includes results from more monitoring sites than a county summary.

If you select MSA summary type, the report includes AQI data for every MSA that is wholly or partly within the geographic area you chose for the report. For example, the MSA for the city of St. Louis, MO, includes counties in both Missouri and Illinois. AQI data for the *entire* St. Louis MSA would be included in a report for the state of Missouri or for the state of Illinois.

What do the report columns mean?

The AQI Summary Report includes the columns listed below. You may omit columns by deselecting the checkbox beside their names. At least one column must be selected to generate a report.

Row

Sequence number of report rows (lines). Sequence numbers are not associated with particular rows; they simply enumerate the rows of a report from first to last. Thus, choosing an alternate sort order for a report would change the sequence numbers associated with particular

rows.

Days with AQI

Number of days in the year having an Air Quality Index value. This is the number of days on which measurements from any monitoring site in the county or MSA were reported to the AQS database.

Number of Days when Air Quality was...

These columns indicate how the daily AQI values for a county or MSA were distributed among four broad categories of air quality:

Good

Number of days in the year having an AQI value 0 through 50.

Moderate

Number of days in the year having an AQI value 51 through 100.

Unhealthy for Sensitive Groups

Number of days in the year having an AQI value 101 through 150.

Unhealthy

Number of days in the year having an AQI value 151 or higher. This includes the AQI categories *unhealthy*, *very unhealthy*, and *hazardous*. Very few locations (about 0.3% of counties) have any days in the very unhealthy or hazardous categories.

AQI Statistics

These columns provide simple statistical measures of the AQI values for a county or MSA:

Maximum

The highest daily AQI value in the year.

The highest possible AQI value is 500. Rarely, a pollutant concentration exceeds the level equivalent to AQI 500. In these instances, AQI value is given as 501 to indicate "greater than 500."

90th percentile

90 percent of daily AQI values during the year were less than or equal to the 90th percentile value.

Median

Half of daily AQI values during the year were less than or equal to the median value, and half equaled or exceeded it.

Number of Days when AQI pollutant was...

A daily index value is calculated for each air pollutant measured. The highest of those index values is the AQI value, and the pollutant responsible for the highest index value is the "Main Pollutant." The criteria pollutants used to calculate AQI are:

- CO - Carbon monoxide
- NO₂ - Nitrogen dioxide
- O₃ - Ozone
- SO₂ - Sulfur dioxide
- PM_{2.5} - Particulate matter smaller than 2.5 micrometers
- PM₁₀ - Particulate matter smaller than 10 micrometers

These columns give the number of days each pollutant measured was the main pollutant. A blank column indicates a pollutant not measured in the county or MSA.

Year

Calendar year to which the AQI values pertain.

The report includes the following two columns if you select **county** summary type.

County

Name of the county for which AQI values are reported.

County Code

The 5-character FIPS code of the county for which AQI values are reported, consisting of 2-digit state code and 3-digit county code. *FIPS* is the acronym for Federal Information Processing Standards, which defines codes used in most U.S. government information systems.

The report includes the following two columns if you select **MSA** summary type.

MSA

Name of the Metropolitan Statistical Area for which AQI values are reported.

MSA Code

The 4-digit code of the Metropolitan Statistical Area for which AQI values are reported.

State

Postal abbreviation for the state or territory in which the county or MSA is located.

Region

EPA region number in which the county or MSA is located. There are ten EPA regions.

AQI Daily Values

Clicking the *See chart* hypertext link displays a chart (plot) of the daily Air Quality Index values summarized in the report row. A chart shows each day's index value and main pollutant.

